APPENDIX B AND C

REQUIREMENTS AND FINRA.ORG FILE SPECIFICATIONS

Contents

1. Overview

The purpose of this document is to cover the Appendix B and C requirements including field descriptions and detailed file specifications for publication to www.finra.org.

2. Data Formats for publication

2.1. File and Record Formatting Rules

1. Each file will contain a Header Record, Sub-Header, Detail Records and a Trailer Record.
2. The Tick Size Pilot Files includes pipe delimited text format (decimal 124; ASCII). The sequence of the fields within each record is fixed.
3. Each record ends with an end of record marker (ASCII LF or CR/LF).
4. Each field is terminated by a delimiter even if the field is the maximum length.
5. Each field is positional, that is, the order of the fields within each record is a fixed sequence. The position of each field is relative to the beginning of its associated record.
6. If a field does not have any value, the field position will be included.

2.2. File Naming Conventions

Files must be names in the following naming convention:

Table 1 File Naming Conventions

Data File		Naming Convention
B.I	Market Quality Statistics	FINRA_CHX_MKTQUALITYSTATS_YYYYMM.dat.gzip (Compressed) FINRA_CHX_MKTQUALITYSTATS_YYYYMM.dat (Un-compressed)
B.II	Market and Marketable Limit Order Statistics	FINRA_CHX_MKTANDLMTORDERDATA_YYYYMM.dat.gzip (Compressed) FINRA_CHX_MKTANDLMTORDERDATA_YYYYMM.dat (Un-compressed)
B.IV	Market Maker Participation Statistics	FINRA_MMParticipationStatistics_YYYYMM.dat.gzip (Compressed) FINRA_MMParticipationStatistics_YYYYMM.dat.(Un-compressed)
C.II	Market Maker Consolidated Profitability Statistics	CNSLD_MMProfitabilityStatistics_YYYYMM.dat

Please note due to large nature of data (especially B.I. and B.II.) files are compressed using gzip compression software. Users must un-compress and view the files using tools or software which can handle large data. Appendix B file size varies between 40 Megabytes to 20 plus Gigabytes before compression.

2.3. Header Record Format

Each file will contain a header record. The format for the header is as follows:

Table 2 Header Record Format

Seq	Field	Data Type	Data Max Length	Description
1	Record Type Code	Alphanumeric	1	Populated with 'H' to identify the record as the header.
2	Data Version	Numeric	3	Identifies version of the data being submitted. The first submission should be set to 1 and any supplemental submissions should be incremented.
3	Data Contents	Alphanumeric	6	Values: BI for B.I Statistics BII for B.II Statistics BIV for B.IV Statistics CII for C.II Statistics
4	Data Period	Numeric	6	Format: YYYYMM The year and month the contents of the file represent.
5	File Create Date	Numeric	8	Format: YYYYMMDD The year and month when file was created.
6	File Version Number	Numeric	5,2	OPTIONAL field. Indicates the version of the file specification described in the Change Log. If this field is not populated, a preceding delimiter is NOT required.

Each file will contain a Field Name Row (sub-header) that contains the short names of the records. The format of the header will start with a Record Type Code of 'F'. The field names are defined in the Field Format section and must be presented in the order prescribed.

2.4. Trailer Record Format

Each file will contain a Trailer Record. Trailer records are used to signify the end of the file. They include integrity information, such as the number of records included in the file.

Table 3 Trailer Record Format

Seq	Field	Data Type	Data Max Length	Description
1	Record Type Code	Alphanumeric	1	Populated with 'T' to identify the record as the trailer.
2	Record Count	Numeric	8	Total number of records in the file. NOTE: This does not include the trailer.

3. Requirements and FINRA.org Field Formats

3.1. Appendix B.I – Market Quality Statistics

Scope

1. Include all accepted orders received by the Trading Center, including orders that were cancelled or routed away.
1. Direct Market Access orders reported to OATS under the same MPID used by an OTC Trading Center will be excluded.
2. Orders received prior to April 4th, 2016 will be excluded.
3. Statistics related to orders that are open across multiple days will be included on the date of order receipt. Executions, routes or cancellations that occur within 5 business days of order receipt will be included. Events that occur more than 5 business days after order receipt will be excluded. Orders open greater than 5 business days will not be counted as cancelled.

See also Section 3 of the Appendix B and C Data Statistics FAQs

General Guidance:

1. Time of Receipt is actual time of receipt or order effective time (wake up time) if order received prior to when it is eligible to trade. See also Section 7 of the Appendix B and C Data Statistics FAQs.
2. A valid NBBO is defined as a SIP published NBBO in either regular or extended hours. For Trading Centers using proprietary feeds, a valid NBBO is defined as the NBBO derived from the proprietary feeds in either regular or extended hours. Locked markets are considered valid quotes. A locked market is considered a valid NBBO with a zero spread. See Section 12 of the Appendix B and C Data Statistics FAQs for how to determine a valid NBBO in the case of a crossed market, excessive spread scenario or a variant midpoint.
3. Timestamp granularity should be treated as prescribed in Section 11 Section 7 of the Appendix B and C Data Collection FAQs
4. For OTC, each individual MPID will be considered its own Trading Center. An order routed to another MPID of the same firm will be considered routed away.
5. Cancel/replaces will be treated the same as new orders.
6. Stop and Stop Limit Orders received on or after April 4, 2016 and triggered within 150 calendar days of receipt will be included on the day they are triggered and the stop trigger time will be used as the order effective time.

7. Marketability for orders immediately routed to a foreign market priced in US dollars will be based on the US NBBO in effect at order receipt or order effective time.

See also Section 4 of the Appendix B and C Data Statistics FAQs.

Table 4 B.I Field Name, Record Format and Finra.org File Layout

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
		Record Type	Represent as 'D'		This field is only applicable to files published on finra.org.		1		Alphanumeric	1
1		**Date**	Represent as: YYYYMMDD No dashes between year, month, date to reduce file size		Represents order received date		2	Date	Numeric	8
2	**B.I.a.(1)**	**Trading Center**	Represent as: A, B, C, D, I, J, K, M, N, P, Q, T, V, W, X,Y,Z or MPID		Trading Center field will be **MASKED** in the Appendix B statistics with a unique masking group ID when published on Finra.org.		3	Trdng_Cntr	Alphanumeric	6
		Active Trading Center Count	Represents count of Trading Centers which are actively trading on the given				4	Actv_Trdng_Cntr_Cnt	Numeric	3

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
			date within each masking group.							
3	**B.I.a.(2)**	**Symbol**	Format as published by the listing exchanges and on the FINRA [website]().	Q2.5			5	Symbol	Alphanumeric	16
4		**Test Group**	C = Pilot Securities in Control Group G1 = Pilot Securities in Test Group One G2 = Pilot Securities in Test Group Two G3 = Pilot Securities in Test Group Three				6	Test_Group	Alphanumeric	2
5	**B.I.a.(3)**	**Order Type**	10-21 (integer) 10 – Market Orders 11 – Marketable Limit Orders 12 – Inside-the-quote Limit Orders 13 – At-the-quote Limit Orders 14 – Near-the-quote Limit Orders (within .10 from the NBBO) 15 – Resting Intermarket Sweep Orders 16 – Retail Liquidity Providing Orders 17 – Midpoint Passive Liquidity Orders 18 – Not Held Orders 19 – Clean Cross Orders 20 – Auction Orders 21 –Orders that became effective when an invalid NBBO was in effect 22 – Away From Market Orders	Section 2 and 8	*See FAQ 3.3 for hierarchy of Order Type Code Assignment.*		7	Order_Type	Varchar	2
5a		**Reg NMS Exempt**	For Order Type = 19, set flag to Y or N; for all other order types, this field must be left blank		QCTs/Benchmarks will have this flag set to Y		8	RegNMS_Exempt	Alphanumeric	1

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
5b		**Tick Size Special Handling Indicator**	Set to Y or N for all order types		FINRA and the exchanges to align codes as practicable. The following OATS special handling codes will be considered special handling: SLD, CPR, AOB, AON, CND, CSH, DLO, E.W, FOK, IDX, G, LOO, LOC, MOO, MOC, MAO, MAC, IO, MOB, MQT, ND, OPT, OVD, PEG, S.W, SCL, SLR, TMO, TS, ALO, OPO, STP,F0, F3, F6, F7, F8, F9, FA, FC, FD, FI, FL, FM, FO, FP, FR, FT, FW, FY, Fd, Fe		9	Spcl_Hndlg_Ind	Alphanumeric	1
5c		**Trading Session**	Reg-only - R Extended-only - E Reg and Extended with order effective time during Reg hours- BR Reg and Extended with order effective time during extended - BE		Trading Session represents when the order is eligible to trade, except for BR and BE which denotes both when an order became effective and when it was eligible to trade		10	Trdng_Session	Alphanumeric	2
5d		**Multiday Order**	This field must be set to Y if the order is open and eligible for execution for more than 1 trading day, if not set to N				11	Multiday_Order	Alphanumeric	1

Field Names and Descriptions							FINRA.org File Layout			
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6	**B.I.a.(4)**	**Original Order Size**	0 (less than 100 shares) 1 (100 to 499 shares) 2 (500 to 1999 shares) 3 (2000 to 4999 shares) 4 (5000 to 9999 shares) 5 (10,000 or more shares)				12	Orgnl_Order_Sz	Alphanumeric	1
	B.I.a.(5)	**Hidden Status Category**	0 (entirely displayable) 1 (partially displayable) 2 (not displayable)	Q4.14, Q4.16	For OTC Trading Centers, this is only applicable if the Trading Center is an ADF Quoting Participant. If OTC Trading Center is not an ADF Participant, value will always be “2”.		13	Hidden_Status	Alphanumeric	1
8	**B.I.a.(6)**	**Rule 605 Coverage**	Represent as: Y/N	Q4.8, Q4.9, Q2.1, Q2.3, Q4.2, Q4.5	For OTC Trading Centers, this represents if order was eligible for 605, NOT whether the Trading Center actually included it in its 605 statistics		14	Rule_605	Alphanumeric	1
9	**SRO Rule, Suppl. Mat. .03**	**Affected by LULD Bands**	Y – Price Band affected the ability to execute an order at order effective time	Q4.10			15	LULD_Impact	Alphanumeric	1

Field Names and Descriptions							FINRA.org File Layout			
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			N – Price Band did not affect the ability to execute an order at order effective time							
10	**SRO Rule Suppl. Mat. .03**	**Foreign Routing Flag**	Y - order was fully or partially routed to a foreign market N - order was executed domestically				16	Foreign_Rte_Fl	Alphanumeric	1
11	**B.I.a.(7)**	**Cumulative Number of Orders**					17	Order_Count	Numeric	10
12	**B.I.a.(8)**	**Cumulative Number of Shares of Orders**					18	Order_Shares_ Ct	Numeric	12
13	**B.I.a.(9)**	**Cumulative Number of Shares of Orders Canceled**		Q3.14, Q4.5, Q3.6	If order expires, consider unexecuted shares cancelled. Include unexecuted IOC orders.		19	Cncl_Shrs_Ct	Numeric	12
14	**B.I.a.(10)**	**Cumulative**	Receiving Trading Center is the	Q4.5		E	20	Orders_Ex_TC	Numeric	12

Field Names and Descriptions						FINRA.org File Layout			
B.I field # ref only	**Appendix B.I Item**	**Field Name**	**Description**	**Relevant FAQs**	**Notes**	**Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)**	**File Seq #**	**File Field Names (Sub Header)**	**Data Type**	**Format**
		Number of Shares of Orders Executed on the Receiving Trading Center	Trading Center at which the order was received (associated with exchange code or MPID above)							
15	**B.I.a.(13)**	**Cumulative Number of Shares of Orders Executed at an Away Trading Center**	Aggregate of shares executed at away trading centers.	Q4.5		R	21	Orders_Ex_Away	Numeric	12
16	**B.I.a.(14)**	**Cumulative Number of Shares of Orders Executed From 0 to Less Than 100 Microseconds**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt.	Q4.7, Q4.19, Q7.4, Q7.2, Q11.3, Q7.3, Q7.5	Includes away executions. Use away execution time details if available, else use the “confirmation time” from the executing venue.	B	22	Exctn_0_100micros	Numeric	12
16A	**B.I.a.(14A)**	**Cumulative Number of Shares of Orders Executed From 100 Microseconds to Less Than 1 Millisecond**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt.	Q4.7, Q4.19, Q7.4, Q7.2, Q11.3, Q7.3, Q7.5	Includes away executions. Use away execution time details if available, else use the “confirmation time” from the executing venue.	B	23	Exctn_100micros_1ms	Numeric	12

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
17	**B.I.a.(15)**	**Cumulative Number of Shares of Orders Executed From 1 Millisecond to Less than 100 Milliseconds**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt.	Q4.7, Q4.19, Q77.4, Q7.2, Q11.3, Q7.3, Q7.5	Includes away executions. Use away execution time details if available, else use the "confirmation time" from the executing venue.	B	24	Exctn_1ms_100ms	Numeric	12
18	**B.I.a.(16)**	**Cumulative Number of Shares of Orders Executed From 100 Milliseconds to Less Than 1 Second**	Calculate from order effective time Adjust for halt time if an order becomes effective prior to a halt and is executed or cancelled after the halt.	Q4.7, Q4.19, Q7.4, Q7.2, Q11.13, Q7.3, Q7.5	Includes away executions. Use away execution time details if available, else use the "confirmation time" from the executing venue.	B	25	Exctn_100ms_1s	Numeric	12
19	**B.I.a.(17)**	**Cumulative Number of Shares of Orders Executed From 1 Second to Less Than 30 Seconds**	Calculate from order effective time Adjust for regulatory halt time if an order becomes effective prior to a halt and is executed or cancelled after the halt.	Q4.7, Q4.19, Q7.4, Q7.2, Q11.3, Q7.3, Q7.5	Includes away executions. Use away execution time details if available, else use the "confirmation time" from the executing venue.	B	26	Exctn_1s_30s	Numeric	12
20	**B.I.a.(18)**	**Cumulative Number of Shares of Orders Executed From 30 Seconds to**	Calculate from order effective time	Q4.7, Q4.19, Q7.4, Q7.2, Q11.3, Q7.3, Q7.5	Includes away executions. Use away execution time details if available, else use the "confirmation time" from the executing venue.	B	27	Exctn_30s_60s	Numeric	12

Field Names and Descriptions						FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
		Less Than 60 Seconds	Adjust for regulatory halt time if an order becomes effective prior to a halt and is executed or cancelled after the halt.							
21	B.I.a.(19)	**Cumulative Number of Shares of Orders Executed From 60 Seconds to Less Than 5 Minutes**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt.	Q4.7, Q4.19, Q7.4, Q7.2, Q11.3, Q7.3, Q7.5	Includes away executions. Use away execution time details if available, else use the "confirmation time" from the executing venue.	B	28	Exctn_60s_5m	Numeric	12
22	B.I.a.(20)	**Cumulative Number of Shares of Orders Executed From 5 Minutes to Less Than 30 Minutes**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt. **If execution is over 30 minutes, the shares will not be accumulated in any of fields 18 through 22.	Q4.7, Q4.19, Q7.4, Q7.2, Q11.3, Q7.3, Q7.5	Includes away executions. Use away execution time details if available, else use the "confirmation time" from the executing venue.	B	29	Exctn_5m_30m	Numeric	12
23		**Cumulative Number of Shares of Unexecuted IOC Orders**	Shares of IOC orders received by the Trading Center that were not executed				30	Orders_Un_Ex		12

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
24	**B.I.a.(21)**	**Cumulative Number of Shares of Orders Canceled From 0 to Less Than 100 Microseconds**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt. Exclude unexecuted IOC orders	Q4.7, Q3.14,Q4.19, Q7.2, Q11.3, Q4.18, Q7.3, Q7.5			31	Cncl_0_100micros	Numeric	12
24A	**B.I.a.(21A)**	**Cumulative Number of Shares of Orders Canceled From 100 Microseconds to Less Than 1 Millisecond**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt. Exclude unexecuted IOC orders	Q4.7, Q3.14,Q4.19, Q7.2, Q11.3, Q4.18, Q7.3, Q7.5			32	Cncl_100micros_1ms	Numeric	12
25	**B.I.a.(22)**	**Cumulative Number of Shares of Orders**	Calculate from order effective time	Q4.7, Q3.14,Q4.19, Q7.2, Q11.3,			33	Cncl_1ms_100ms	Numeric	12

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
		Canceled From 1 Millisecond to Less Than 100 Milliseconds	Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt. Exclude unexecuted IOC orders .	Q4.18, Q7.3, Q7.5						
26	**B.I.a.(23)**	**Cumulative Number of Shares of Orders Canceled From 100 Milliseconds to Less Than 1 Second**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt. Exclude unexecuted IOC orders	Q4.7, Q7.5, Q7.2, Q4.18, Q7.3, Q7.5			34	Cncl_100ms_1s	Numeric	12
27	**B.I.a.(24)**	**Cumulative Number of Shares of Orders Canceled From 1 Second to**	Calculate from order effective time	Q4.7, Q3.14, Q7.2, Q4.18, Q7.3, Q7.5			35	Cncl_1s_30s	Numeric	12

Field Names and Descriptions						FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
		Less Than 30 Seconds	Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt. Exclude unexecuted IOC orders							
28	B.I.a.(25)	**Cumulative Number of Shares of Orders Canceled From 30 Seconds to Less Than 60 Seconds**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt. Exclude unexecuted IOC orders	Q4.7, Q3.14, Q7.2, Q4.18, Q7.3, Q7.5			36	Cncl_30s_60s	Numeric	12
29	B.I.a.(26)	**Cumulative Number of Shares of Orders Canceled From 60 Seconds to Less Than 5 Minutes**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt.	Q4.7, Q3.14, Q7.2, Q4.18, Q7.3, Q7.5			37	Cncl_60s_5m	Numeric	12

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
			Exclude unexecuted IOC orders							
30	B.I.a.(27)	**Cumulative Number of Shares of Orders Canceled From 5 Minutes to Less Than 30 Minutes**	Calculate from order effective time Adjust for regulatory halt time if an order arrives prior to a halt and is executed or cancelled after the halt. **If cancelled after 30 minutes, the cancelled shares will not get accumulated in any of fields 23-29.	Q4.7, Q3.14, Q7.2, Q4.18, Q7.3, Q7.5			38	Cncl_5m_30m	Numeric	12
31	B.I.a.(28)	**Share Weighted Average Realized Spread for Executions of Orders on Trading Center only**	Calculate only for executions effected on the Trading Center (exclude routed fills) Use the NBBO in effect 5 minutes after execution. Use most recent NBBO, even if published prior to the execution.	Q7.4, Q12.14, Q4.3	This field is not calculated for Order Types 19 Use valid NBBO (as defined in general guidance #2 above) in	E	39	WARS_Ex_TC	Numeric	10,4

Field Names and Descriptions							FINRA.org File Layout			
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			4 decimal places for all fields containing averages. Rounded to the near 4 decimal places (up or down) will be used for all averages that calculate with more than 4 decimal places for all reports.		effect at the Execution time + 5 minutes. If no valid NBBO found then exclude the order from this calculation.					
32	**B.I.a.(29)**	**Original Percentage Hidden**	Received share-weighted average percentage of shares not displayable at order effective time.		Display as 100.0000 for 100% Field#7 category 0, display as 0.0000		40	Orgnl_Hidden_Pt	Numeric	7,4
33	**B.I.a.(30)**	**Final Percentage Hidden**	Received share-weighted average percentage of shares not displayed prior to final execution or cancellation. *Calculation excludes routed shares.	Q4.15	Display as 100.0000 for 100% Field#7 category 0, display as 0.0000		41	Final_Hidden_Pt	Numeric	7,4
34	**B.I.a.(31)**	**Same Side Quoted Size**	Share-weighted average of the consolidated quoted size at the inside price at order effective time.	Q4.7,Q4.13, Q7.2, Q12.9, A4.20, Q12.11, Q12.13	Use max size not aggregated size. Use actual shares. Use size of order for the order being included. This field is not calculated for Order Type Codes 19 Reg NMS Exempt, 20 and 21.		42	Same_Sd_Qt_Sz	Numeric	12,4

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
35	**B.I.a.(31)**	**Opposite Side Quoted Size**	Share-weighted average of the consolidated quoted size at the inside price at order effective time.	Q4.7,Q4.13, Q12.2, Q12.3, Q12.5, Q7.2, Q12.9, Q4.20, Q12.11, Q12.13	Use max size not aggregated size. Use actual shares. Use size of order for the order being included. This field is not calculated for Order Type Codes 19 Reg NMS exempt, 20 and 21.		43	Opp_Sd_Qt_Sz	Numeric	12,4
36	**B.I.a.(32)**	**Share Weighted Average NBBO Spread at the Time of Order Receipt (Order Effective Time)**		Q4.7, Q4.13, Q12.2, Q12.3, Q7.2, Q7.5, Q12.11, Q12.13	Use size of order for the order being included Use Valid NBBO in effect at order effective time *This field is not calculated for Order Type Codes 19 Reg NMS Exempt, 20 and 21.*		44	WA_NBBO_Spd	Numeric	10,4
37	**B.I.a.(33)**	**Share Weighted Average BBO Spread of Trading Center at the Time of Order Receipt (Order Effective Time)**	Use Trading Center's BBO	Q4.7, Q12.2, Q12.3, Q7.2, Q12.10, Q7.5, Q12.12, Q12.13	For OTC, only applies to ADF quoting participants. Use size of order for the order being included		45	WA_BBO_Spd	Numeric	14,4

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
					Use valid BBO in effect at order effective time *This field is not calculated for Order Type Codes 19 Reg NMS Exempt, 20 and 21.*					
B.1.b Applies Only to Order Types 10 and 11 with no Tick Size Special Handling										
38	**B.I.b.(1)**	**Share-Weighted Average Effective Spread for Executions of Orders**	Compute effective spread based on the execution price compared to the NBBO at order effective time. Calculation is as follows: For sells: (Midpoint - Execution Price) x 2 For buys: (Execution Price – Midpoint) x 2 The number is then share weighted by multiplying each observation by the shares in the trade, and dividing by the sum of all those shares traded	Q7.5, Q12.7	Use valid NBBO (as defined in general guidance #2 above) in effect at order effective time. If no valid NBBO found then exclude the order from this calculation.	E	46	WA_Eff_Spd	Numeric	10,4

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
			Refer to the Rule 605 FAQs for details on computation.							
39	**B.I.b.(2)**	**Cumulative Number of Shares of Orders Executed with Price Improvement**	Accumulate the number of executed shares for each order that executed between the NBBO at Order effective time	Q12.8		E	47	Price_Imp_Ct	Numeric	12
40	**B.I.b.(3)**	**Share-Weighted Average Amount per Share that Prices were Improved**		Q12.8		E	48	WA_Price_Imp	Numeric	10,4
41	**B.I.b.(4)**	**For shares executed with price improvement, Share-Weighted Average Period from the Time of Order Receipt or Effective Time to the Time of Order Execution**	Display in microseconds, or most granular time available if microseconds are unavailable HHHHMMSS.000000			E	49	WA_Time_Pd	Numeric	14,6

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
42	**B.I.b.(5)**	**Cumulative Number of Shares of Orders Executed at the Quote at Order Receipt or Effective Time**	.			E	50	Quote_Ex_Ct	Numeric	12
43	**B.I.b.(6)**	**For shares executed at the quote, Share-Weighted Average Period from the Time of Order Receipt or Effective Time to the Time of Order Execution**	Display in microseconds, or most granular time available if microseconds are unavailable HHHHMMSS.000000			E	51	Qt_Ex_WA_Tm_Pd	Numeric	14,6
44	**B.I.b.(7)**	**Cumulative Number of Shares of Orders Executed Outside the Quote at Order Receipt or Effective Time**	For market and marketable limit orders ONLY executed on Trading Center (not routed). Include ISO IOC orders.			E	52	Out_Qt_Ex_Ct	Numeric	14

Field Names and Descriptions							FINRA.org File Layout			
B.I field # ref only	Appendix B.I Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
45	**B.I.b.(8)**	**Share-Weighted Average Amount per Share That Prices were Outside the Quote at Order Receipt or Effective Time**	For market and marketable limit orders ONLY executed on Trading Center (not routed).			E	53	Out_Qt_Ex_WA	Numeric	12,4
46	**B.I.b.(9)**	**For shares executed outside the quote, Share-Weighted Average Period from the Time of Order Receipt or Effective Time to the Time of Order Execution**	Display in microseconds, or most granular time available if microseconds are unavailable HHHHMMSS.000000			E	54	Out_Qt_Ex_WA_Tm_Pd	Numeric	14,6

3.2. Appendix B.II – Market and Marketable Limit order Data

Scope

I. Order Type Codes 10 and 11 that are either executed immediately in full or part at the receiving Trading Center or an Away Trading Center OR are immediately cancelled in full or part by the customer or reporting Trading Center, including IOC orders that are not executed.

II. "Non-booked" will not be used as a criteria for executions at an OTC Trading Center or executions at an away Trading Center.

See also Section 5 of the Appendix B and C Data Statistics FAQs

General Guidance:

1. Immediately is defined as 3 seconds. This is based on a one second clock drift standard for OTC Trading Centers.
2. All other General Guidance for B.I above applies to B.II.

See also Section 6 of the Appendix B and C Data Statistics FAQs

Table 5 B.II Field Name, Record Format and Finra.org File Layout

Field Names and Descriptions							Finra.org File Layout			
B.II field # reference only	Appendix B.II Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
		Record Type	Represents as 'D'		This field is only applicable to files published on finra.org.		1		Alphanumeric	1

Field Names and Descriptions							Finra.org File Layout			
B.II field # reference only	Appendix B.II Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
1	**B.II.a**	**Trading Center**	Represent as: A, B, C, D, I, J, K, M, N, P, Q, T, V, W, X,Y,Z or MPID		Trading Center field will be **MASKED** in the Appendix B statistics with a unique masking group ID when published on Finra.org.		2	Trdng_Cntr	Alphanumeric	6
		Active Trading Center Count	Represents count of Trading Centers which are actively trading on the given date within each masking group.				3	Actv_Trdng_Cntr_Cnt	Numeric	3
2	**B.II.b**	**Symbol**	Format as published by the listing exchanges and on the FINRA website.				4	Symbol	Alphanumeric	16
3	**B.II.c**	**Date**	Represent as: YYYYMMDD				5	Date	Numeric	8
4	**B.II.d**	**Time of Order Receipt**	Represent as: HHMMSS.000000 (microseconds, if available)				6	Order_Rcpt_Tm	Numeric	12,6
5	**B.II.e**	**Order Type**	Represent as: 10 = Market Order 11 = Marketable Limit Order	Q3.3			7	Order_Type	Alphanumeric	2

Field Names and Descriptions							Finra.org File Layout			
B.II field # reference only	Appendix B.II Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
6	B.II.f	**Order Size**	Integer				8	Order_Size	Numeric	10
7	B.II.g	**Order Side**	Represent as: B, Sand SS	Q6.6	Sell Short Exempt orders are represented as 'S'.		9	Order_Side	Alphanumeric	2
8	B.II.h	**Order Price**	Number, use decimal place, blankif market order – maximum 4 decimal places	Q8.2, Q8.3			10	Order_Price	Numeric	14,4
9	B.II.i	**NBB Quoted Price**	Use valid NBB at order effective time	Q12.5			11	NBB_Price	Numeric	14,4
10	B.II.j	**NBB Quoted Size**	Use valid NBB at order effective time	Q6.1	Use max size not aggregated size		12	NBB_Size	Numeric	10
11	B.II.i	**NBO Quoted Price**	Use a valid NBO at order effective time				13	NBO_Price	Numeric	14,4
12	B.II.j	**NBO Quoted Size**	Use a valid NBO at order effective time	Q6.1	Use max size not aggregated size		14	NBO_Size	Numeric	10
13	B.II.k	**Trading Center Bid or Offer**	Use the Trading Center's best offer for buy orders and best bid for sell orders	Q6.3, Q6.5	For OTC Trading Centers this is always null unless the Trading Center is quoting on the ADF		15	TC_Bid_Offer	Numeric	14,4

Field Names and Descriptions							Finra.org File Layout			
B.II field # reference only	Appendix B.II Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
14	**B.II.l**	**Trading Center Size**	Use the Trading Center's depth of the best offer for buy orders and depth of the best bid for sell orders	Q6.4, Q6.5	For OTC Trading Centers this is always null unless the Trading Center is quoting on the ADF		16	TC_Size	Numeric	10
15	**B.II.m**	**ISO/TAISO Flag**	Represent as: N – No I – ISO T – TAISO		Represents if the Trading Center received the order marked as an ISO or TAISO		17	ISO_Flag	Alphanumeric	1
16	**B.II.n**	**Retail Investor Order Flag**	Represent as: Y/N **This will be set to "N" during the pre-pilot period.	Q6.7	Represents if the Trading Center relied on the retail investor order exception to Test Groups Two and Three when executing the order.		18	Rtl_Inv_Order_Fl	Alphanumeric	1
17	**B.II.o**	**Routable Flag**	Represent as: Y/N	Q4.21	Represents if order is eligible to be routed away for execution		19	Rtbl_Fl	Alphanumeric	1
18	**B.II.p**	**IOC**	Represent as: Y/N				20	IOC_Fl	Alphanumeric	1

Field Names and Descriptions							Finra.org File Layout			
B.II field # reference only	Appendix B.II Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
19		**Affected by LULD Bands**	Y – Price Band affected the ability to execute an order at order effective time N – Price Band did not affect the ability to execute an order at order effective time	Q4.10			21	LULD_Impact	Alphanumeric	1
20	**SRO Rule Suppl. Mat. .03**	**Foreign Routing Flag**	D = directed to a domestic venue for execution. F = may only be directed to a foreign venue for execution B = fully or partially directed to a foreign venue at the discretion of the broker-dealer that received the order				22	Foreign_Rte_Fl	Alphanumeric	1
21	**B.II.q**	**Indicator for Quote Leader**	Represent as: "1" if the Trading Center improved the NBB for a sell or NBO for a buy (as applicable) from the previous NBB/NBO, use "0" if not. Leave blank if the NBB/NBO did not improve the price from the previous NBB/NBO.		*This indicates if the Trading Center's quote improved the relevant side of the market.*		23	Qt_Leader_Fl	Alphanumeric	1
22	**B.II.r**	**Average Execution Price-Share-Weighted**	Defined as the price calculated by summing up the products of the number of single-counted (meaning only one side of trade			E	24	WA_Ex_Price	Numeric	10,4

Field Names and Descriptions							Finra.org File Layout			
B.II field # reference only	Appendix B.II Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
		Average	is counted) shares traded and the respective share price, and dividing by the total number of single-counted shares traded. If no shares are executed, or all shares are routed, code as "blank"							
23	**B.II.s**	**Average Execution Time-Share-Weighted Average**	Example: Execution 1 – 100 shares, 30 seconds to execute Execution 2 – 200 shares, 60 seconds to execute Result: 50 seconds or 00000050.000000 If no shares are executed, or all shares are routed, code as "blank" Display in microseconds, or most granular time available if microseconds are unavailable. HHHHMMSS.000000			E	25	WA_Ex_Tm	Numeric	14,6
24	**B.II.t**	**Executed Shares**	If no shares executed, then code as "0"	Q4.5, Q6.8		E	26	Ex_Shares	Numeric	10
25	**B.II.u**	**Cancelled Shares**	# of shares in the order that are cancelled (if no shares are	Q6.9	Shares cancelled by customer or reporting		27	Cncl_Shares	Numeric	10

Field Names and Descriptions							Finra.org File Layout			
B.II field # reference only	Appendix B.II Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
			cancelled, code as "0")		TC					
26	**B.II.v**	**Routed Shares**	# of shares in the order that are executed at an away Trading Center (if no shares are executed at an away Trading Center, code as "0")		Include only domestic executions	R	28	Rtd_Shares	Numeric	10
27	**B.II.w**	**Routed Averages Execution Price-Share-Weighted Average**	Include only executions that occurred at an away Trading Center if no shares are executed at an away Trading Center, code as "blank"		Include only domestic executions	R	29	WA_Rtd_Ex	Numeric	10,4
28	**B.II.x**	**Average Routed Execution Time-Share-Weighted Average**	Include only executions that occurred at an away Trading Center if no shares are executed at an away Trading Center, code as "blank" Display in microseconds, or most granular time available if microseconds are unavailable. HHHHMMSS.000000	Q7.4, Q7.3, Q6.2, Q7.5	Include only domestic executions	R	30	WA_Rtd_Ex_Tm	Numeric	14,6
29	**B.II.y**	**Indicator For Tick Size Special Handling**	Identifies orders that contain instructions that could result in delayed execution or an execution price other than the quote Represent with value of 'Y' or 'N'	Q8.2, Q8.3	Use same list of Tick Size SH codes as in B.I FINRA and the exchanges to align		31	Spcl_Hndlg_Ind	Alphanumeric	1

Field Names and Descriptions							Finra.org File Layout			
B.II field # reference only	Appendix B.II Item	Field Name	Description	Relevant FAQs	Notes	Executed shares Included by Executing Trading Center (E), Routing Trading Center (R) or Both (B)	File Seq #	File Field Names (Sub Header)	Data Type	Format
					codes as practicable. The following OATS special handling codes will be considered special handling: SLD, CPR, AOB, AON, CND, CSH, DLO, E.W, FOK, IDX, G, LOO, LOC, MOO, MOC, MAO, MAC, IO, MOB, MQT, ND, OPT, OVD, PEG, S.W, SCL, SLR, TMO, TS, ALO, OPO, STP, F0, F3, F6, F7, F8, F9, FA, FC, FD, FI, FL, FM, FO, FP, FR, FT, FW, FY, Fd, Fe					

3.3. Appendix B.III – Daily Market Maker Registration Statistics

Note: Appendix BIII statistics are not applicable for FINRA and are NOT published on FINRA.org.

Table 6 B.III Field Name and Record Format

Field # - for reference only	Field Name	Alpha or Numeric	Max Data Length	Description
1	**Date**	Numeric	8	Represent as: YYYYMMDD
2	**Symbol**	Alpha	14	Format as published by the listing exchanges and on the FINRA website.
3	**Participant**	Alphanumeric	4	Represent as: A, B, C, D, I, J, K, M, N, P, Q, T, V, W, X,Y,Z
4	**Count of Registered Market Makers**	Numeric	4	# of Market Makers in security on that date
5	**Count of Other Registered Liquidity Suppliers**	Numeric	4	

3.4. Appendix B.IV – Daily Market Maker Participation Statistics

Scope

1. Executions by a Tick Size Market Maker in a principal capacity, not including riskless
2. Data for calculations will be obtained from the Market Maker Transaction Files Submitted to FINRA
3. Includes both regular and extended hours

General Guidance:

1. Use market maker perspective for side of order
2. Use same Valid NBBO definition as for B.I relative NBBO calculations
3. If invalid NBBO, do not include in B.IV.d,e,f and g (Reference fields 10-25)

See also Section 10 and 12 of the Appendix B and C Data Statistics FAQs.

Table 7 B.IV Field Name, Record Format and Finra.org File Layout

Field Names and Descriptions						Finra.org File Layout			
B.IV field # reference only	Appendix B.IV Item	Field Name	Description	Relevant FAQs	Notes	File Seq #	File Field Names (Sub Header)	Data Type	Format
		Record Type	Represent as 'D'		This field is only applicable to files published on finra.org.	1		Alphanumeric	1
1		**Trading Center**	Represent as: A, B, C, D, I, J, K, M, N, P, Q, T, V, W, X,Y,Z or MPID		Trading Center field will be **MASKED** in the Appendix B statistics with a unique masking group ID when published on Finra.org.	2	Trdng_Cntr	Alphanumeric	6

Field Names and Descriptions						Finra.org File Layout			
B.IV field # reference only	Appendix B.IV Item	Field Name	Description	Relevant FAQs	Notes	File Seq #	File Field Names (Sub Header)	Data Type	Format
		Active Trading Center Count	Represents count of Trading Centers which are actively trading on the given date within each masking group.			3	Actv_Trdng_Cntr_Cnt	Numeric	3
2		**Date**	Represent as: YYYYMMDD No dashes between year, month, date to reduce file size			4	Date	Numeric	8
3	**B.IV.a**	**Symbol**	Format as published by the listing exchanges and on the FINRA website.			5	Symbol	Alphanumeric	16
4		**Number of Unique Market Makers Buy Side**		Q10.12	Number of distinct market makers with buy transactions	6	MM_Buy_Ct	Numeric	10
5		**Number of Unique Market Makers Sell Side**		Q10.12	Number of distinct market makers with sell transactions	7	MM_Sell_Ct	Numeric	10
6	**B.IV.b**	**Share Participation (Buy)**	# of shares bought by Market Maker as principal.			8	Share_Prtcp_Buy	Numeric	16,4
7	**B.IV.b**	**Share Participation**	# of shares sold (includes “sell”, “sell short”, “short exempt”) by			9	Share_Prtcp_Se	Numeric	16,4

Field Names and Descriptions						Finra.org File Layout			
B.IV field # reference only	Appendix B.IV Item	Field Name	Description	Relevant FAQs	Notes	File Seq #	File Field Names (Sub Header)	Data Type	Format
		(Sell)	Market Maker as principal.				ll		
8	**B.IV.c**	**Trade Participation Buy**	Count of buys as principal.			10	Trade_Prtcp_Buy	Numeric	10
9	**B.IV.c**	**Trade Participation Sell**	Count of trades (sells) as principal.			11	Trade_Prtcp_Sell	Numeric	10
10	**B.IV.d**	**CROSS-QUOTE SHARE PARTICIPATION (BUY)**	# of shares purchased at or above the NBO at the time of trade. Use the NBO in effect immediately prior to execution.			12	Cross_Qt_Shr_Prtcp_Buy	Numeric	16,4
11	**B.IV.d**	**CROSS-QUOTE SHARE PARTICIPATION (SELL)**	# of shares sold (includes "sell", "sell short", "short exempt") at or below the NBB at the time of trade. Use the NBB in effect immediately prior to execution.			13	Cross_Qt_Shr_Prtcp_Sell	Numeric	16,4
12	**B.IV.d**	**CROSS-QUOTE TRADE PARTICIPATION (BUY)**	Count of trades (buys) at or above the NBO in effect immediately prior to execution.			14	Cross_Qt_Trd_Prtcp_Buy	Numeric	10
13	**B.IV.d**	**CROSS-QUOTE TRADE PARTICIPATION (SELL)**	Count of trades sold (includes "sell", "sell short", "short exempt") at or below the NBB in effect immediately prior to			15	Cross_Qt_Trd_Prtcp_Sell	Numeric	10

Field Names and Descriptions						Finra.org File Layout			
B.IV field # reference only	Appendix B.IV Item	Field Name	Description	Relevant FAQs	Notes	File Seq #	File Field Names (Sub Header)	Data Type	Format
			execution.						
14		**# of Unique Market Makers in Buy Side Cross-Quote Calculations**				16	MM_Buy_Cross_Qt_Ct	Numeric	10
15		**# of Unique Market Makers in Sell Side Cross-Quote Calculations**				17	MM_Sell_Cross_Qt_Ct	Numeric	10
16	**B.IV.e**	**INSIDE-THE-QUOTE SHARE PARTICIPATION (BUY)**	# of shares purchased between the NBBO in effect immediately prior to execution.			18	Insd_Qt_Shr_Prtcp_Buy	Numeric	16,4
17	**B.IV.e**	**INSIDE-THE-QUOTE SHARE PARTICIPATION (SELL)**	# of shares sold (includes "sell", "sell short", "short exempt") between the NBBO in effect immediately prior to execution.			19	Insd_Qt_Shr_Prtcp_Sell	Numeric	16,4
18	**B.IV.e**	**INSIDE-THE-QUOTE TRADE PARTICIPATION (BUY)**	Count of trades (buys) between the NBBO in effect immediately prior to execution.			20	Insd_Qt_Trd_Prtcp_Buy	Numeric	10

Field Names and Descriptions						Finra.org File Layout			
B.IV field # reference only	Appendix B.IV Item	Field Name	Description	Relevant FAQs	Notes	File Seq #	File Field Names (Sub Header)	Data Type	Format
19	B.IV.e	INSIDE-THE-QUOTE TRADE PARTICIPATION (SELL)	Count of trades sold (includes “sell”, “sell short”, “short exempt”) between the NBBO in effect immediately prior to execution.			21	Insd_Qt_Trd_Prtcp_Sell	Numeric	10
20		# of Unique Market Makers in Buy Side Inside-the-quote Calculations				22	MM_Insd_Qt_Buy_Ct	Numeric	10
21		# of Unique Market Makers in Sell Side Inside-the-quote Calculations				23	MM_Insd_Quote_Sell_Ct	Numeric	10
20	B.IV.f	AT-THE-QUOTE SHARE PARTICIPATION (BUY)	# of shares purchased that are equal to the NBB in effect immediately prior to execution.			24	At_Qt_Shr_Prtcp_Buy	Numeric	16,4
21	B.IV.f	AT-THE-QUOTE SHARE PARTICIPATION (SELL)	# of shares sold (includes “sell”, “sell short”, “short exempt”) that are equal to the NBO in effect immediately prior to execution.			25	At_Qt_Shr_Prtcp_Sell	Numeric	16,4
22	B.IV.f	AT-THE-QUOTE TRADE PARTICIPATION	Count of trades (buys) that are equal to the NBB in effect immediately prior to execution.			26	At_Qt_Trd_Prtcp_Buy	Numeric	10

Field Names and Descriptions						Finra.org File Layout			
B.IV field # reference only	Appendix B.IV Item	Field Name	Description	Relevant FAQs	Notes	File Seq #	File Field Names (Sub Header)	Data Type	Format
		(BUY)							
23	**B.IV.f**	**AT-THE-QUOTE TRADE PARTICIPATION (SELL)**	Count of trades (includes "sell", "sell short", "short exempt") that are equal to the NBO in effect immediately prior to execution.			27	At_Qt_Trd_Prtcp_Sell	Numeric	10
24		**# of Unique Market Makers in Buy Side At-the-quote Calculations**				28	MM_At_Qt_Buy_Ct	Numeric	10
25		**# of Unique Market Makers in Sell Side At-the-quote Calculations**				29	MM_At_Qt_Sell_Ct	Numeric	10
26	**B.IV.g**	**OUTSIDE-THE-QUOTE SHARE PARTCIPATION (BUY)**	# of shares purchased that are less than the NBB in effect immediately prior to execution.			30	Outsd_Qt_Shr_Prtcp_Buy	Numeric	16,4
27	**B.IV.g**	**OUTSIDE-THE-QUOTE SHARE PARTCIPATION (SELL)**	# of shares sold (includes "sell", "sell short" and "short exempt") that are greater than the NBO in effect immediately prior to execution.			31	Outsd_Qt_Shr_Prtcp_Sell	Numeric	16,4
28	**B.IV.g**	**OUTSIDE-THE-QUOTE TRADE PARTCIPATION**	Count of trades (buys) that are less than the NBB in effect			32	Outsd_Qt_Trd_Prtcp_Buy	Numeric	10

Field Names and Descriptions						Finra.org File Layout			
B.IV field # reference only	**Appendix B.IV Item**	**Field Name**	**Description**	**Relevant FAQs**	**Notes**	**File Seq #**	**File Field Names (Sub Header)**	**Data Type**	**Format**
		(BUY)	immediately prior to execution.						
29	**B.IV.g**	**OUTSIDE-THE-QUOTE TRADE PARTCIPATION (SELL)**	Count of trades (includes “sell”, “sell short” and “short exempt”) that are greater than the NBO in effect immediately prior to execution.			33	Outsd_Qt_Trd_Prtcp_Sell	Numeric	10
30		**# of Unique Market Makers in Buy Side Outside-the-quote Calculations**				34	MM_Outsd_Qt_Buy_Ct	Numeric	10
31		**# of Unique Market Makers in Sell Side Outside-the-quote Calculations**				35	MM_Outsd_Qt_Sell_Ct	Numeric	10

3.5. Appendix C – Market Maker Profitability Statistics

Scope

1. Data for calculations will be obtained from the Market Maker Transaction Files Submitted to FINRA
2. Includes both regular and extended hours

See also Section 13 of the Appendix B and C Data Statistics FAQs

General Guidance

For purposes of calculating C.I and C.II, the closing price shall be the closing price as reported by the primary listing exchange. If no closing price is published by the primary listing exchange, then the consolidated last sale for the day should be used. If there is not a valid consolidated last sale for the day, then the most recent prior valid consolidated last sale should be used.

3.5.1. Appendix C.I – Daily Market Maker Profitability

Note: Appendix C.I statistics is NOT published on finra.org

Table 8 C.I Field Name and Record Format

C field # reference only	Appendix C Item	Field Name	Description	Relevant FAQs	Notes
1		**Market Maker**	Represent as: CRD #		
2		**Symbol**	Format as published by the listing exchanges and on the FINRA website.		
3		**Date**	Represent as: YYYYMMDD		

C field # reference only	Appendix C Item	Field Name	Description	Relevant FAQs	Notes
4	C.I.a	**Total Shares Executed by the Market Maker**			
5	C.I.b	**Raw MM Realized Profit**		Q13.1	
6	C.I.c	**Raw MM Unrealized Profit**		Q13.1	
6		**EOD Excess/Deficit**	The shares quantity of the end of day excess or deficit. Deficits will be expressed as a negative number.		
7		**VWAP of Excess/Deficit**	The volume weighted average price of the shares comprising the end of day excess or deficit.		
8		**Closing Price**	Closing Price used for Raw Unrealized Profit.		

3.5.2.Appendix C.II - Consolidated Market Maker Profitability Statistics

Table 9 C.II Field Name, Record Format and FINRA.org File Layout

Field Names and Descriptions						FINRA.org File Layout			
DEA field# - ref only	Appx C.II Item	Field Name	Description	Relevant FAQs	Notes	File Seq #	File Field Names (Sub Header)	Data Type	Format
NA		**Record Type**	Represent as 'D'		This field is only applicable to files published on FINRA.org.	1		Alphanumeric	1
1		**Test Group**	C = Pilot Securities in Control Group G1 = Pilot Securities in Test Group One G2 = Pilot Securities in Test Group Two G3 = Pilot Securities in Test Group Three			2	Test_Group	Alphanumeric	2
2		**Date**	Represent as: YYYYMMDD			3	Date	Numeric	8
4	C.II.a.	**Total Raw MM Realized Profit**				4	Tot_MM_Rlzd_Profit	Numeric	18,4
5	C.II.b	**Volume-weighted average of Raw MM Realized Profit**				5	VWA_MM_Rlzd_Profit	Numeric	18,4
6	C.II.c	**Total Raw MM Unrealized Profit**				6	Tot_MM_Unrltzd_Profit	Numeric	18,4
7	C.II.d	**Volume-weighted average of Raw MM Unrealized Profit**				7	VWA_MM_Unrltzd_Profit	Numeric	18,4

3.6. Change Log

Version Number	Description of Changes
1.0 – 2/28/2017	Initial Version
2.0 - 8/31/2017	Revision to include Appendix B Statistics specifications for Finra.org.