

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034310.D
 Acq On : 16 Oct 2019 23:22
 Operator : SY/AP
 Sample : K5111-14 0.03 PPB LOQ
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:55 PM

Quant Time: Oct 17 06:52:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1083548	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2026236	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2021203	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1749387	10.22	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
32) 1,1,1-Trichloroethane	6.56	97	5273m	0.031	ppbv	
35) Carbon Tetrachloride	7.07	117	5706m	0.032	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

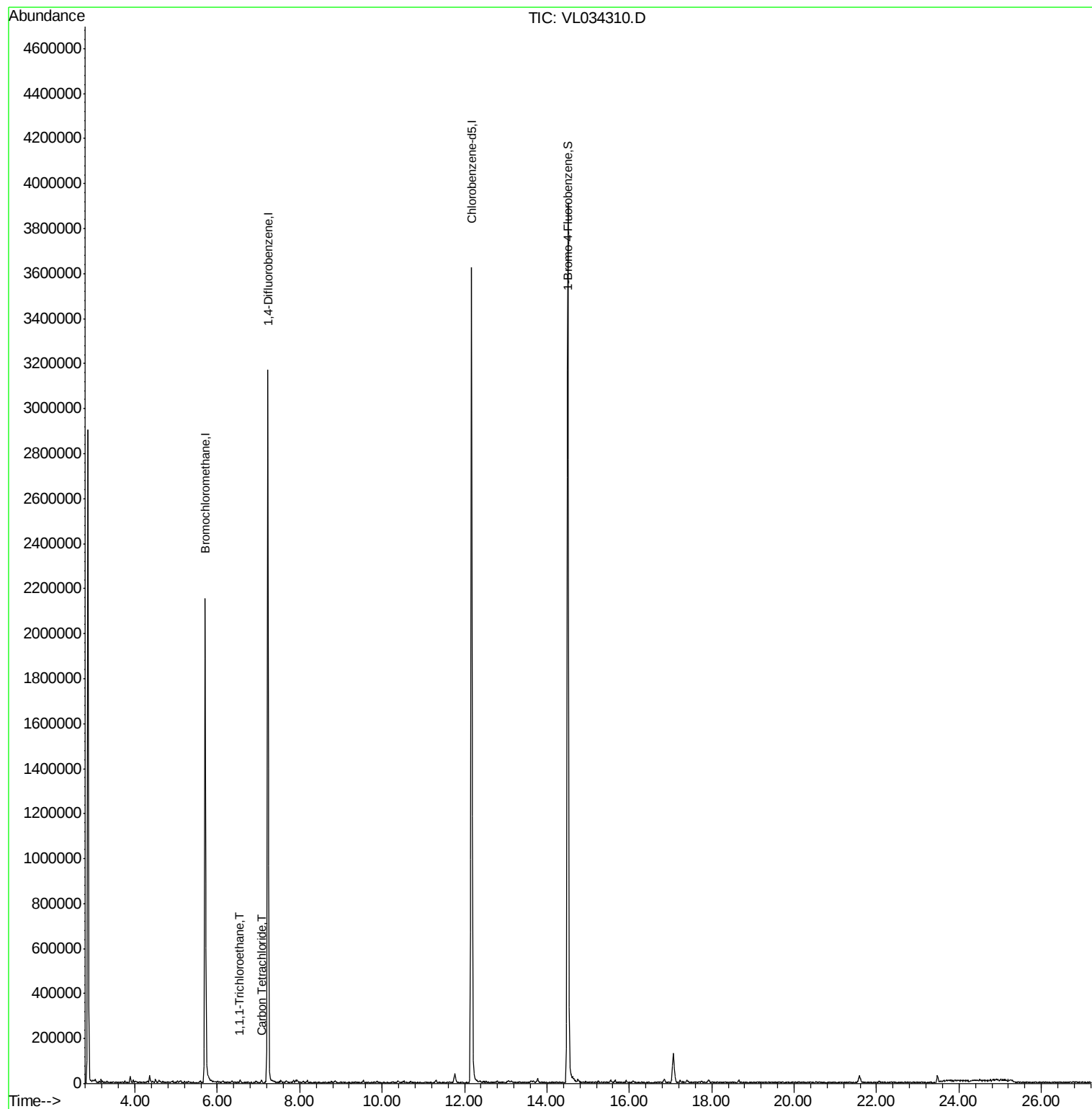
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101619\
Data File : VL034310.D
Acq On : 16 Oct 2019 23:22
Operator : SY/AP
Sample : K5111-14 0.03 PPB LOQ
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

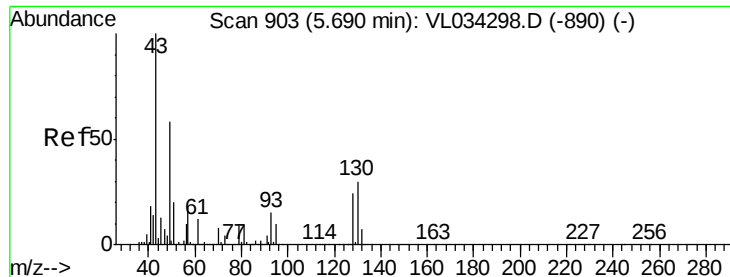
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Manual Integrations
APPROVED

MMDadoda
10/18/2019 3:04:55 PM

Quant Time: Oct 17 06:52:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL034310.D

Acq: 16 Oct 2019 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion: 49 Resp: 1083548

Ion Ratio Lower Upper

49 100

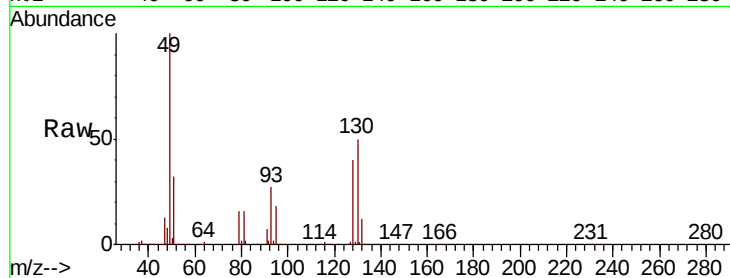
128 41.0 20.6 61.8

130 51.9 26.2 78.5

Manual Integrations
APPROVED

MMDadoda

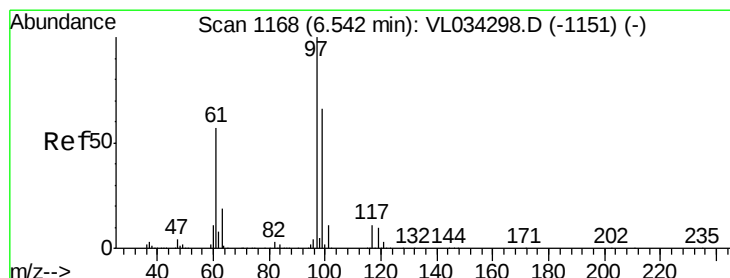
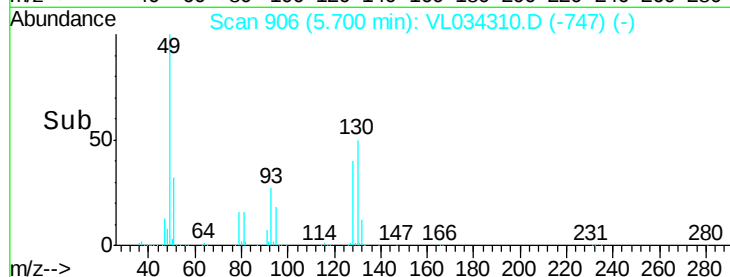
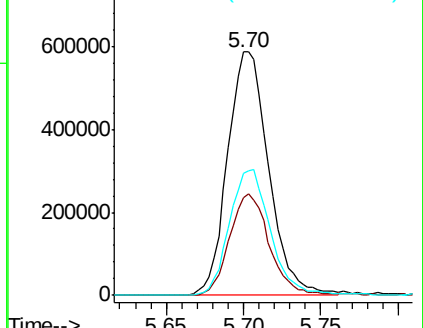
10/18/2019 3:04:55 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.031 ppbv m

RT: 6.56 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VL034310.D

Acq: 16 Oct 2019 23:22

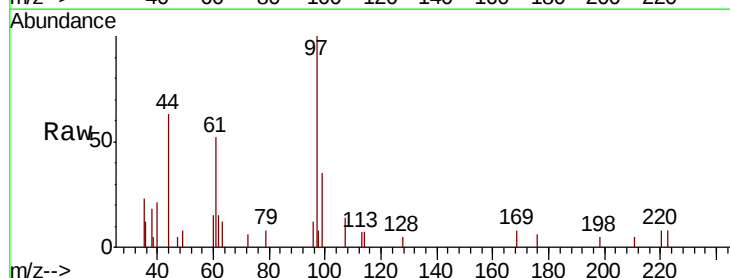
Tgt Ion: 97 Resp: 5273

Ion Ratio Lower Upper

97 100

99 59.9 52.6 78.8

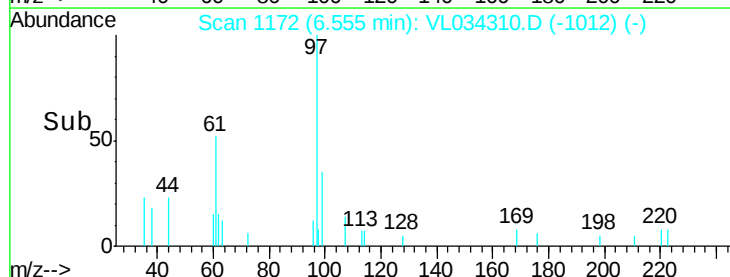
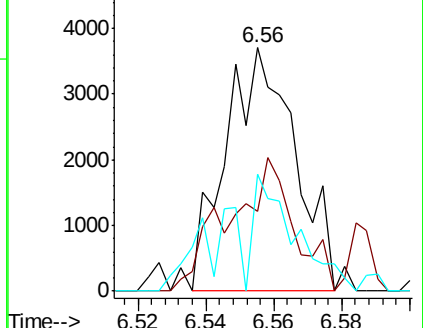
61 49.1 44.5 66.7

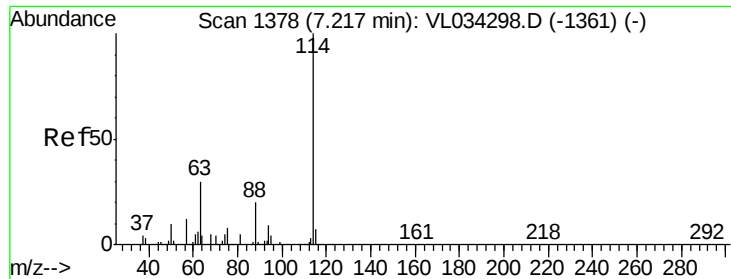


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





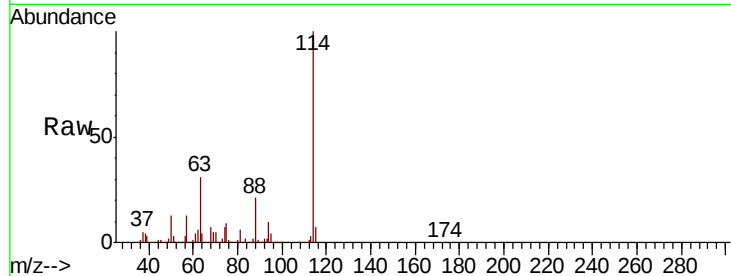
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. 0.01 min
 Lab File: VL034310.D
 Acq: 16 Oct 2019 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.9	25.2	37.8
88	19.7	16.0	24.0

Manual Integrations
 APPROVED

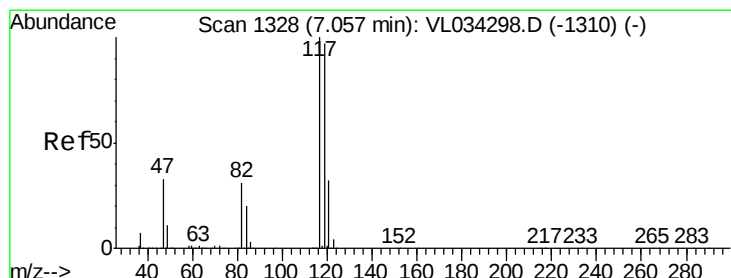
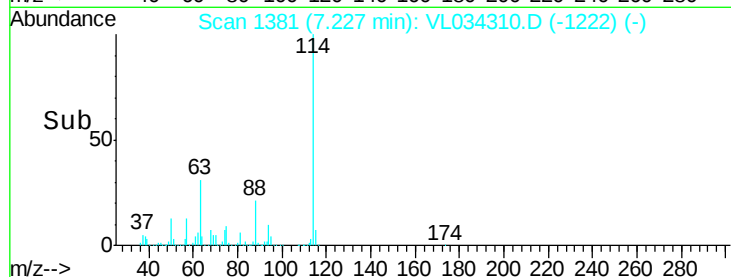
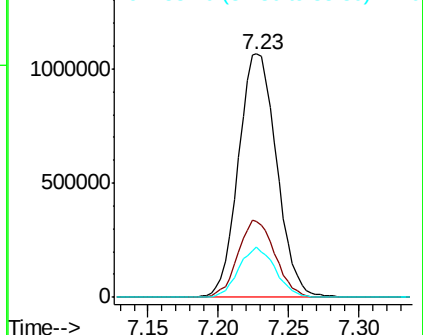
MMDadoda
 10/18/2019 3:04:55 PM



Abundance Ion 114.10 (113.80 to 114.80): V

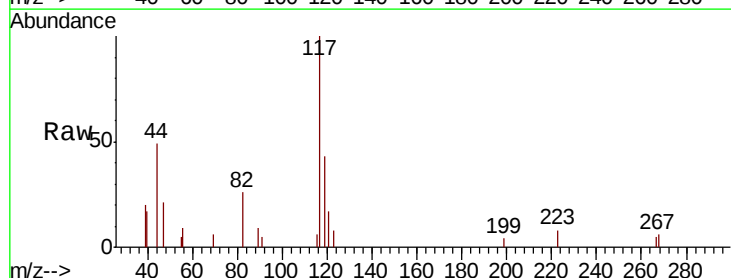
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#35
 Carbon Tetrachloride
 Concen: 0.032 ppbv m
 RT: 7.07 min Scan# 1331
 Delta R.T. 0.01 min
 Lab File: VL034310.D
 Acq: 16 Oct 2019 23:22

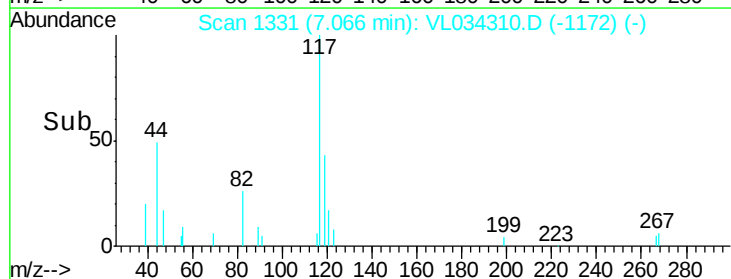
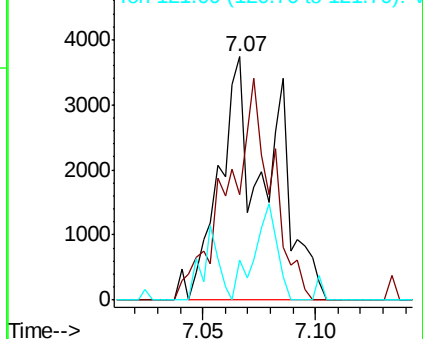
Tgt Ion	Ratio	Lower	Upper
117	100		
119	43.2	77.3	115.9#
121	16.5	25.5	38.3#

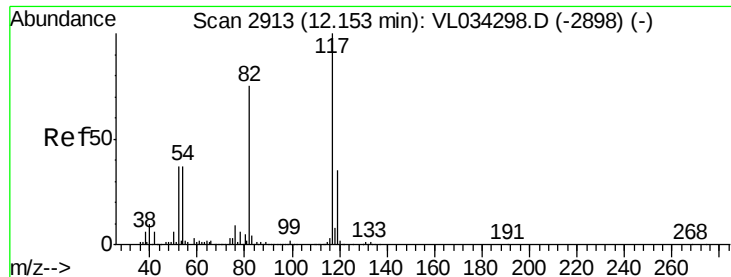


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





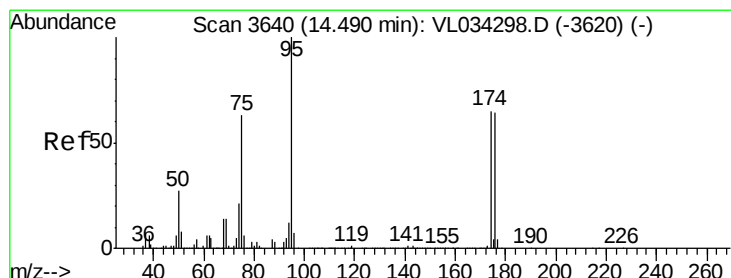
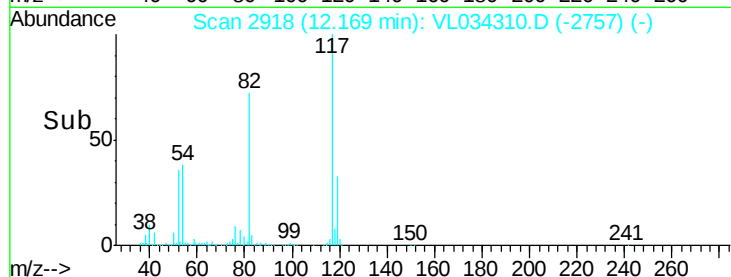
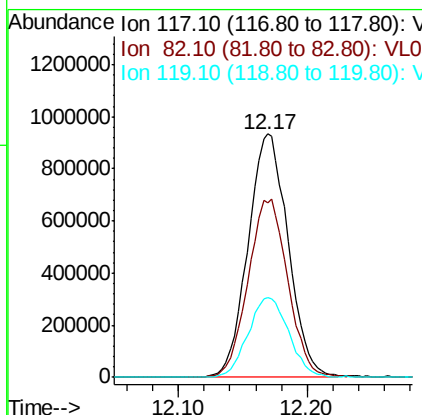
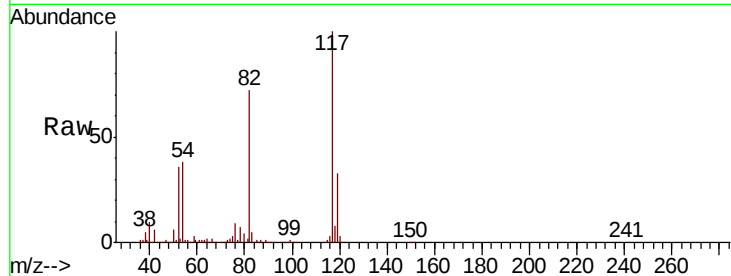
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.02 min
Lab File: VL034310.D
Acq: 16 Oct 2019 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	73.2	55.5	83.3
119	33.5	26.5	39.7

Manual Integrations
APPROVED

MMDadoda
10/18/2019 3:04:55 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.219 ppbv
RT: 14.51 min Scan# 3645
Delta R.T. 0.02 min
Lab File: VL034310.D
Acq: 16 Oct 2019 23:22

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.3	52.6	78.8
175	4.8	3.8	5.6

