

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050219\
 Data File : VL033641.D
 Acq On : 2 May 2019 23:44
 Operator : SY/AP
 Sample : K2628-08DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-8DL

Quant Time: May 03 02:31:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 06:29:02 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1027765	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2275926	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2385017	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1914654	10.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

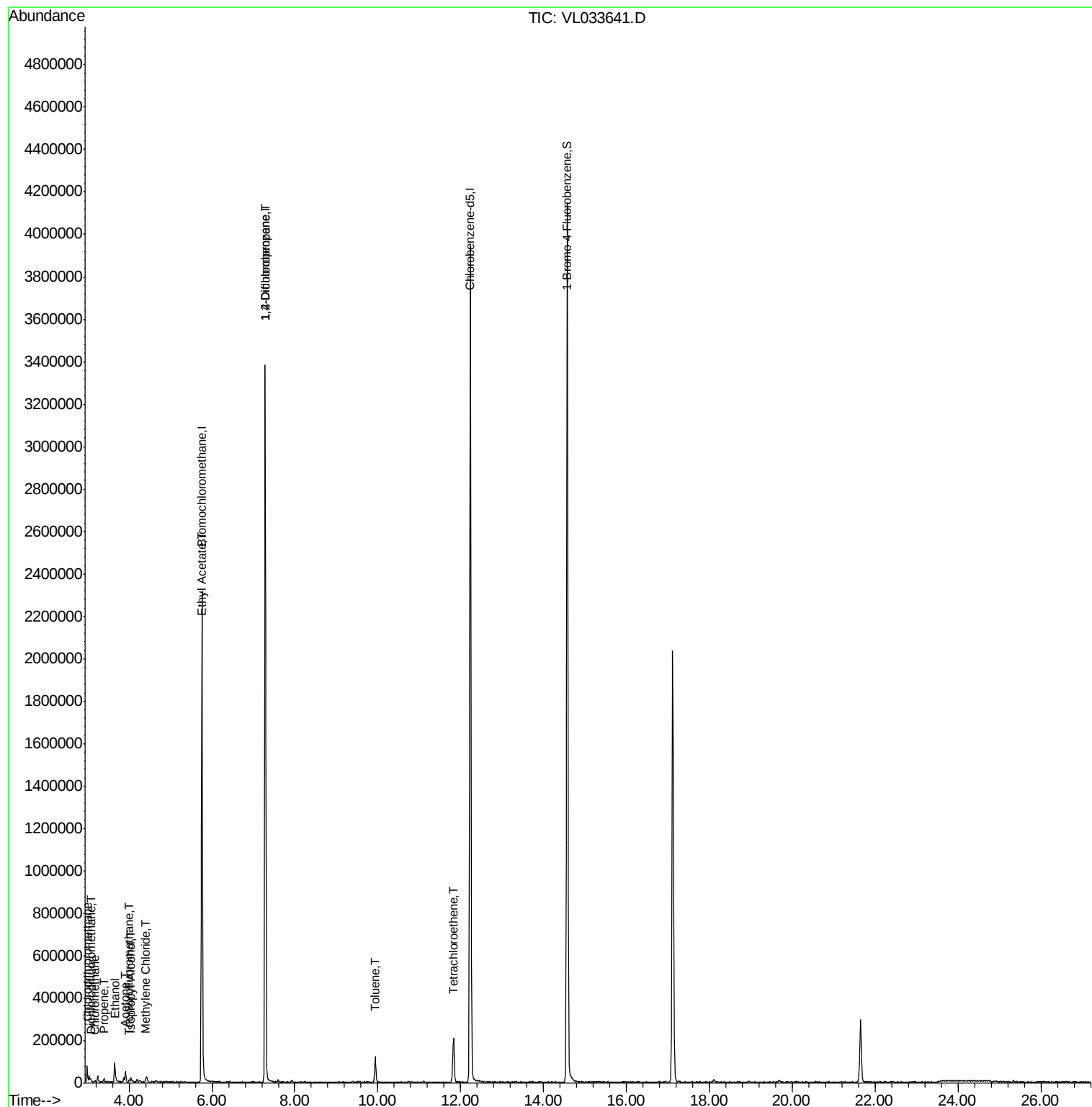
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	5343	0.034	ppbv	98
3) Chlorodifluoromethane	2.99	51	46545	0.379	ppbv #	66
4) Chloromethane	3.17	50	2245	0.034	ppbv #	66
9) Propene	3.40	41	1877	0.053	ppbv	98
11) Trichlorofluoromethane	4.01	101	2168	0.012	ppbv	92
13) Ethanol	3.65	45	86238	5.406	ppbv	96
15) Acetone	3.91	43	46448	0.371	ppbv	97
19) Isopropyl Alcohol	4.04	45	6520	0.076	ppbv #	94
20) Methylene Chloride	4.40	84	1551	0.032	ppbv	94
25) Ethyl Acetate	5.77	43	3595	0.015	ppbv #	69
39) 1,2-Dichloropropane	7.28	63	606024	8.287	ppbv #	24
52) Tetrachloroethene	11.82	164	778	0.010	ppbv #	31
53) Toluene	9.95	91	86008	0.351	ppbv	99

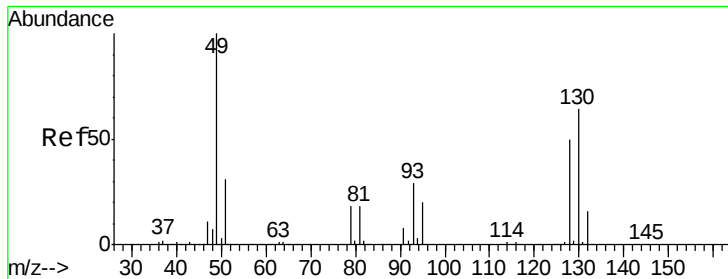
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
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QLast Update : Thu May 02 06:29:02 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

Instrument :

MSVOA_L

ClientSampleId :

A-8DL

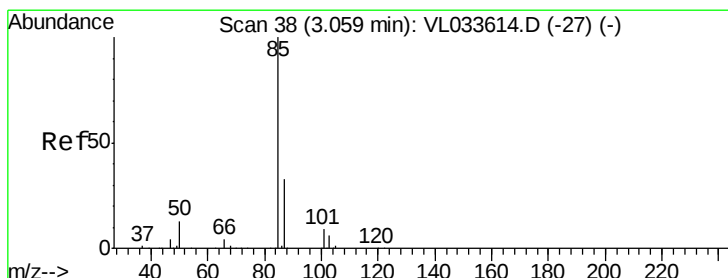
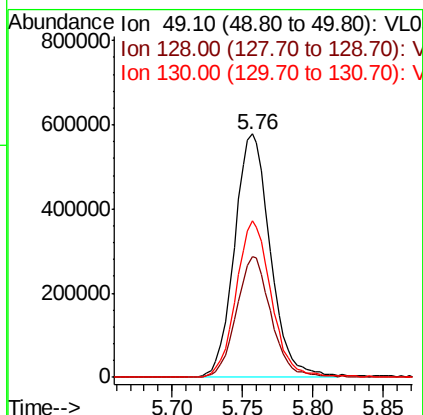
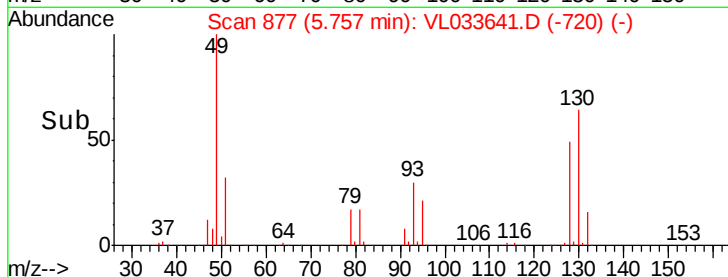
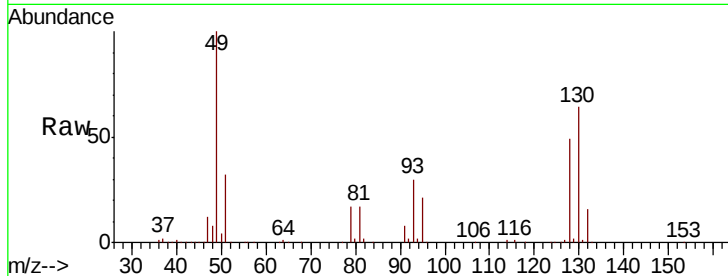
Tgt Ion: 49 Resp: 1027765

Ion Ratio Lower Upper

49 100

128 48.6 25.0 75.0

130 63.8 31.9 95.9



#2

Dichlorodifluoromethane

Concen: 0.034 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.02 min

Lab File: VL033641.D

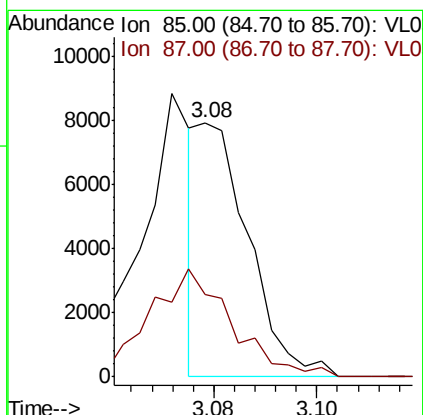
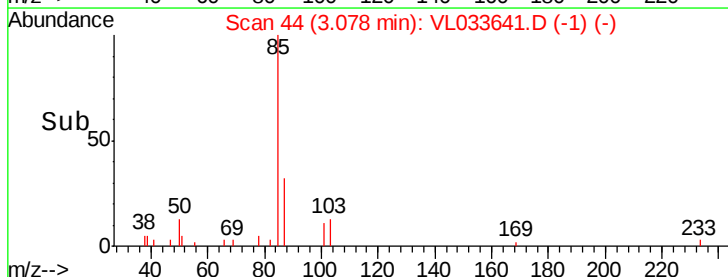
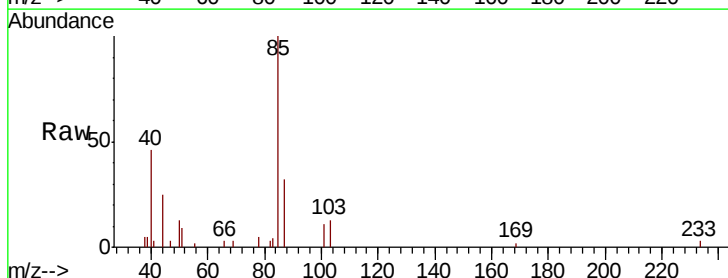
Acq: 2 May 2019 23:44

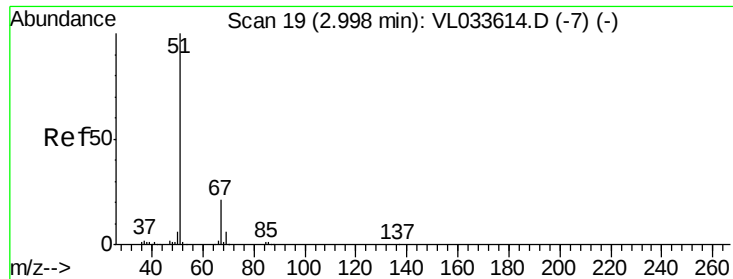
Tgt Ion: 85 Resp: 5343

Ion Ratio Lower Upper

85 100

87 32.2 26.8 40.2

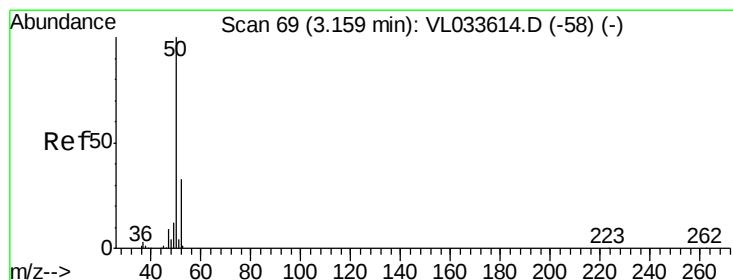
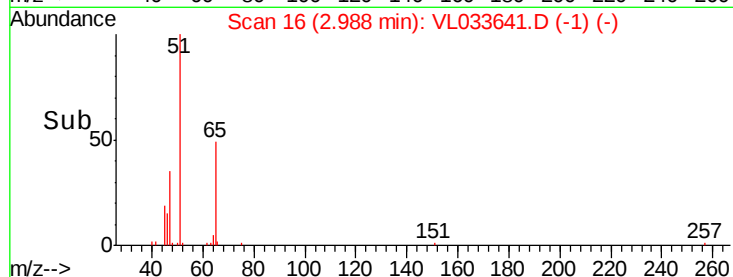
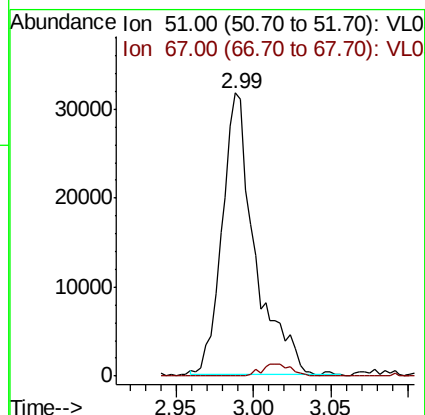
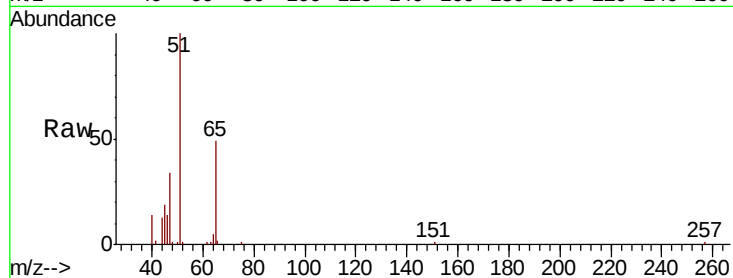




#3
Chlorodifluoromethane
Concen: 0.379 ppbv
RT: 2.99 min Scan# 16
Delta R.T. -0.01 min
Lab File: VL033641.D
Acq: 2 May 2019 23:44

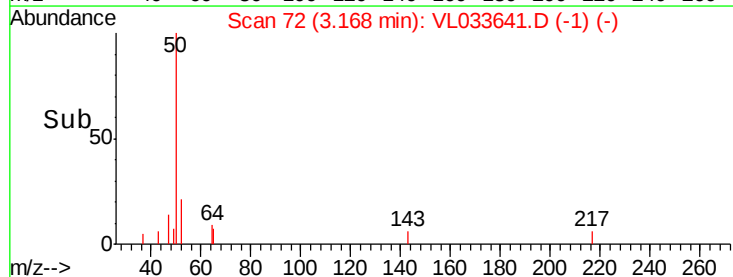
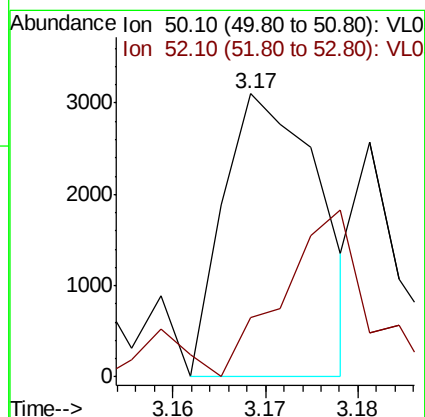
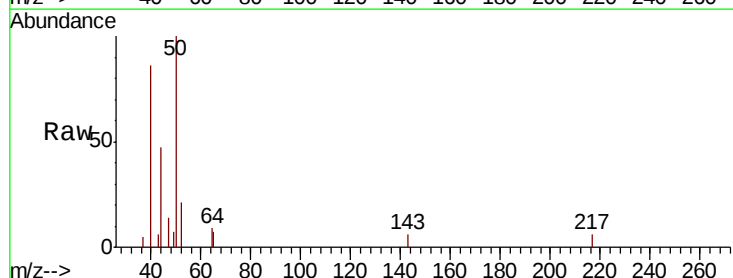
Instrument :
MSVOA_L
ClientSampleId :
A-8DL

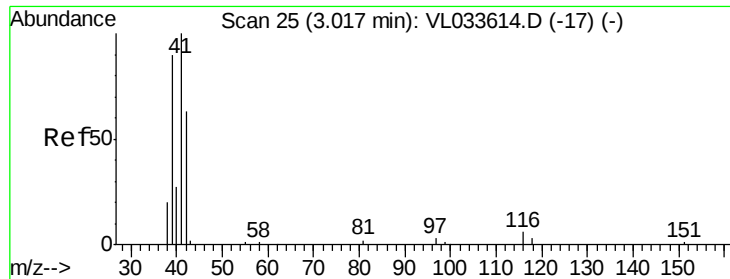
Tgt Ion: 51 Resp: 46545
Ion Ratio Lower Upper
51 100
67 3.9 15.6 23.4#



#4
Chloromethane
Concen: 0.034 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.01 min
Lab File: VL033641.D
Acq: 2 May 2019 23:44

Tgt Ion: 50 Resp: 2245
Ion Ratio Lower Upper
50 100
52 13.4 26.0 39.0#





#9

Propene

Concen: 0.053 ppbv

RT: 3.40 min Scan# 143

Delta R.T. 0.38 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

Instrument :

MSVOA_L

ClientSampleId :

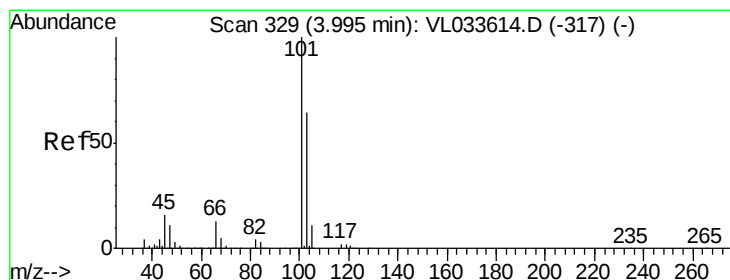
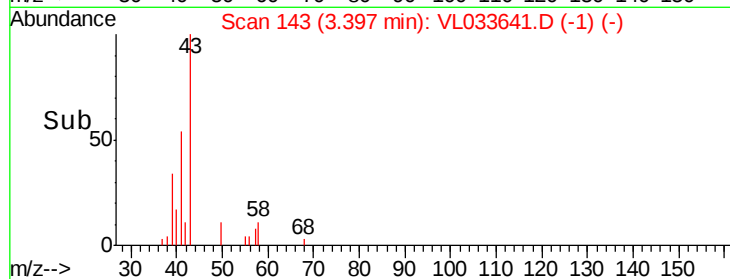
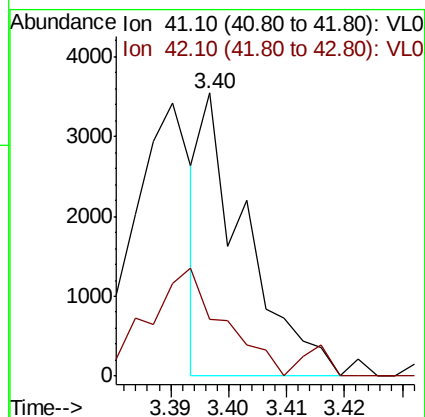
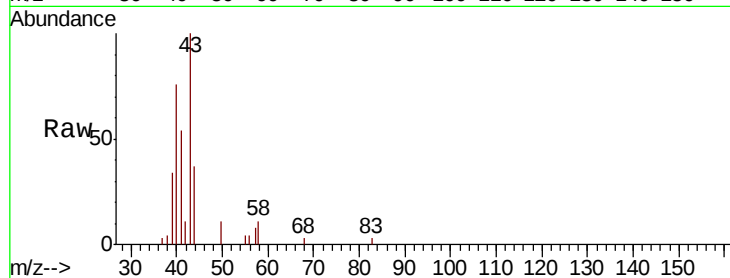
A-8DL

Tgt Ion: 41 Resp: 1877

Ion Ratio Lower Upper

41 100

42 84.3 66.0 99.0



#11

Trichlorofluoromethane

Concen: 0.012 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL033641.D

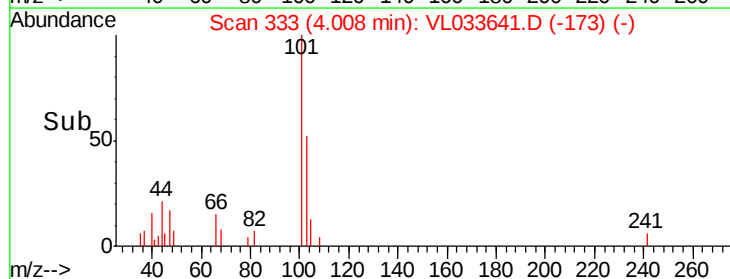
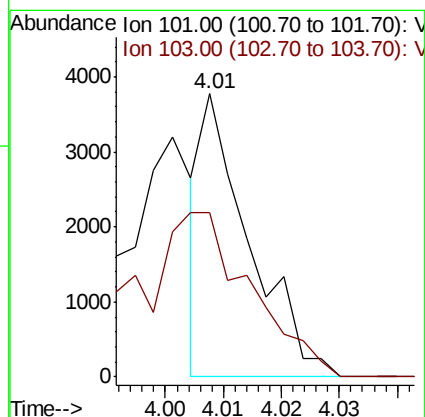
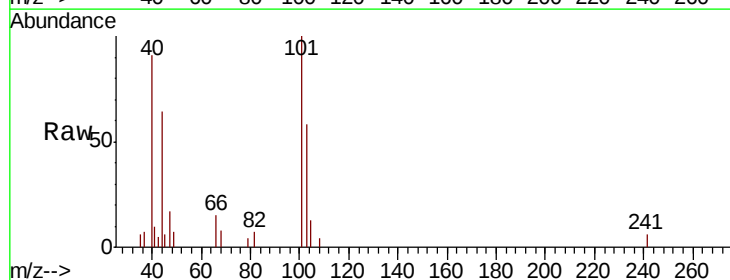
Acq: 2 May 2019 23:44

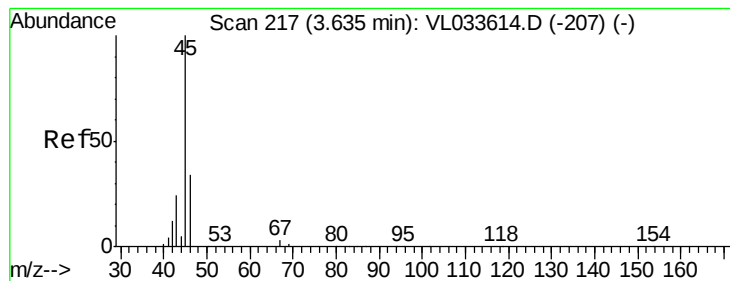
Tgt Ion: 101 Resp: 2168

Ion Ratio Lower Upper

101 100

103 58.1 51.2 76.8





#13

Ethanol

Concen: 5.406 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.02 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

Instrument :

MSVOA_L

ClientSampleId :

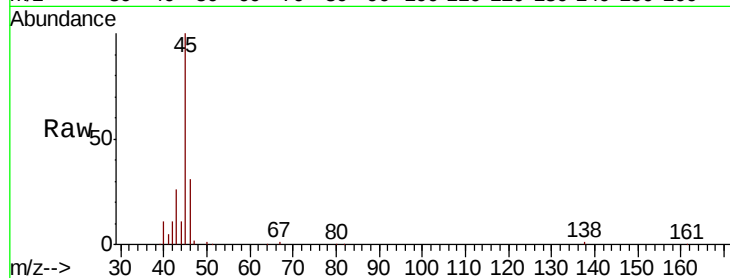
A-8DL

Tgt Ion: 45 Resp: 86238

Ion Ratio Lower Upper

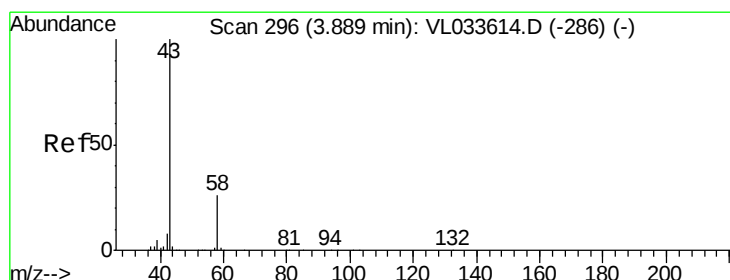
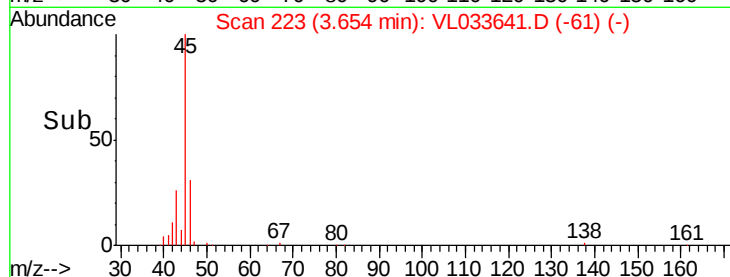
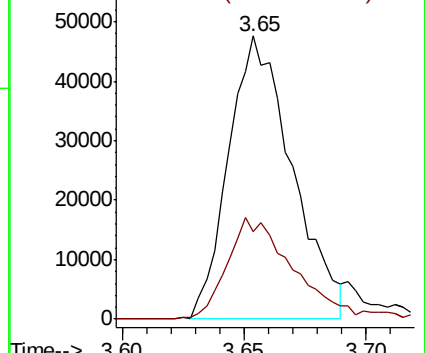
45 100

46 38.9 14.6 58.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.371 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.03 min

Lab File: VL033641.D

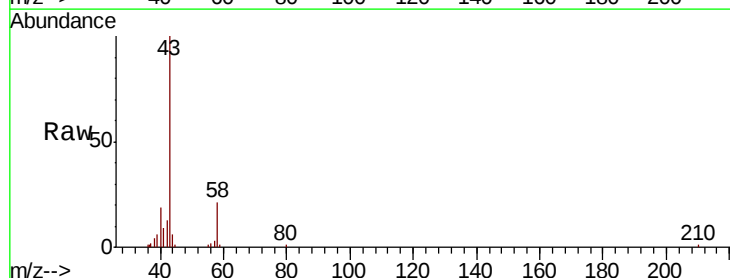
Acq: 2 May 2019 23:44

Tgt Ion: 43 Resp: 46448

Ion Ratio Lower Upper

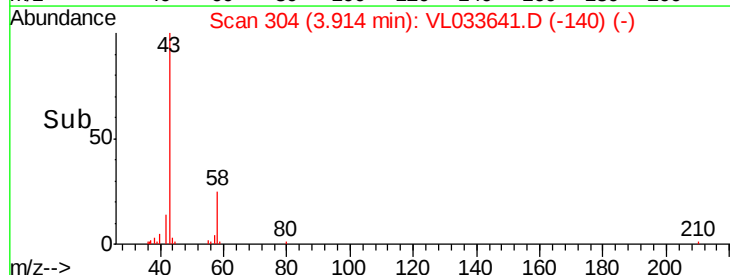
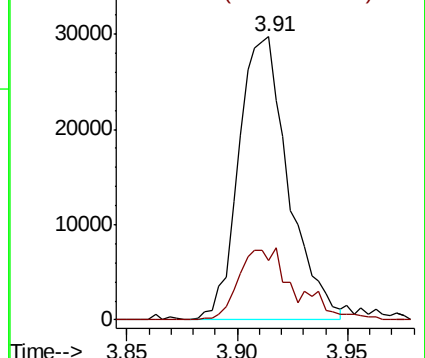
43 100

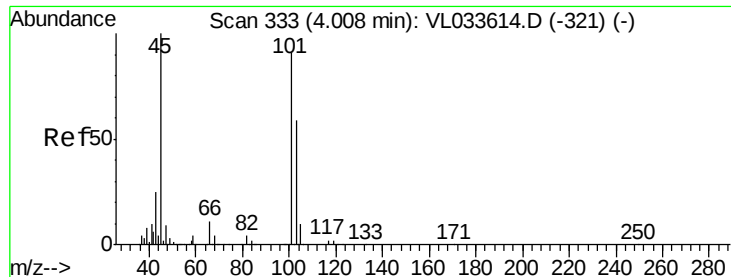
58 28.2 21.2 31.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#19

Isopropyl Alcohol

Concen: 0.076 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.04 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

Instrument :

MSVOA_L

ClientSampleId :

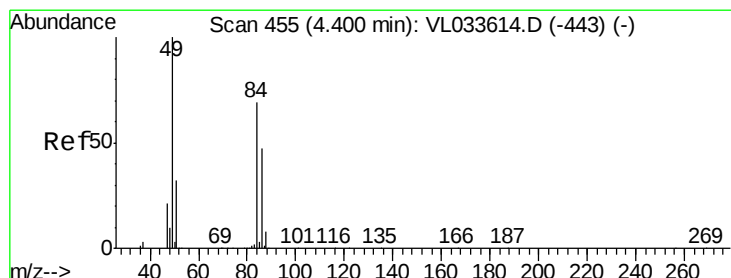
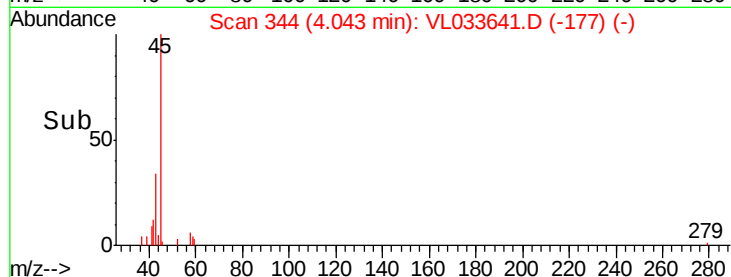
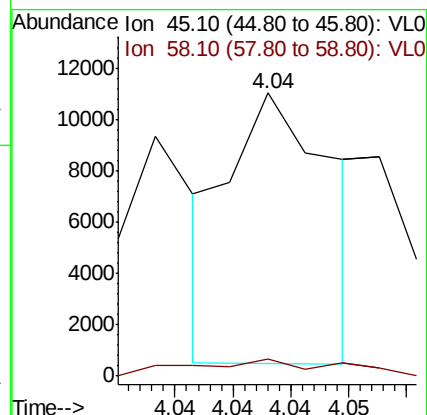
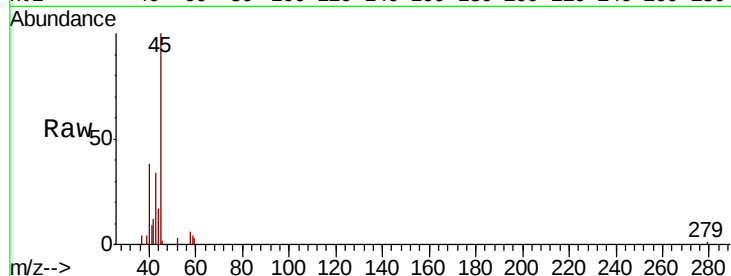
A-8DL

Tgt Ion: 45 Resp: 6520

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#



#20

Methylene Chloride

Concen: 0.032 ppbv

RT: 4.40 min Scan# 454

Delta R.T. -0.00 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

Tgt Ion: 84 Resp: 1551

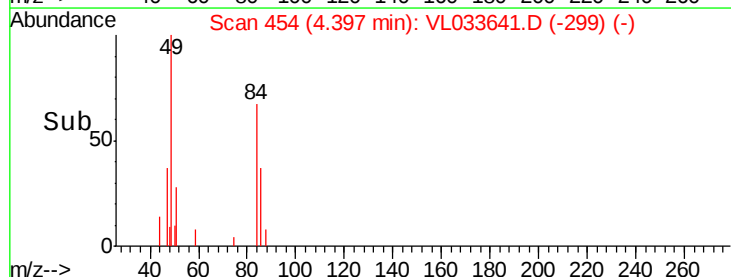
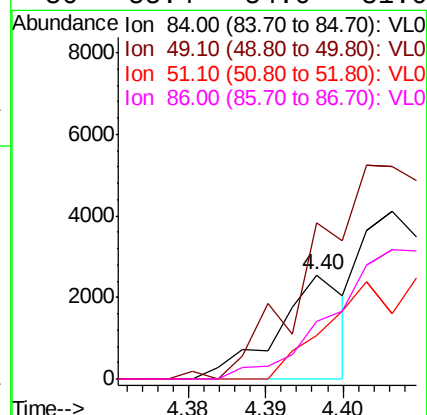
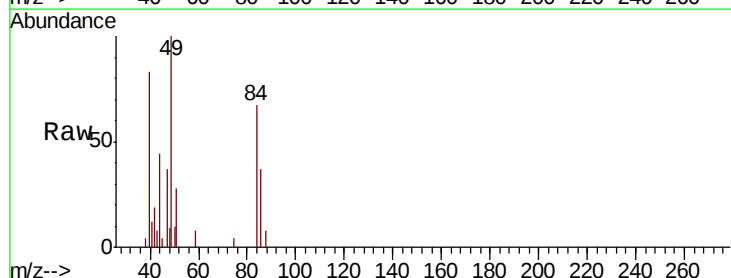
Ion Ratio Lower Upper

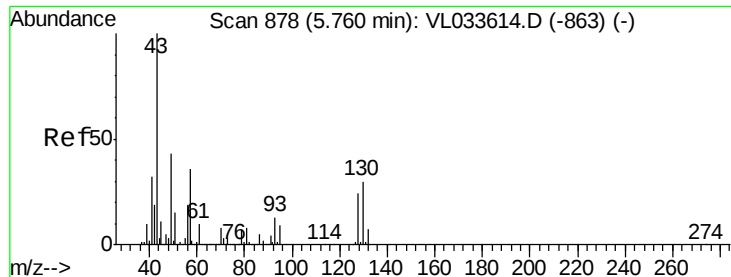
84 100

49 142.4 116.2 174.2

51 41.8 37.0 55.6

86 55.4 54.0 81.0

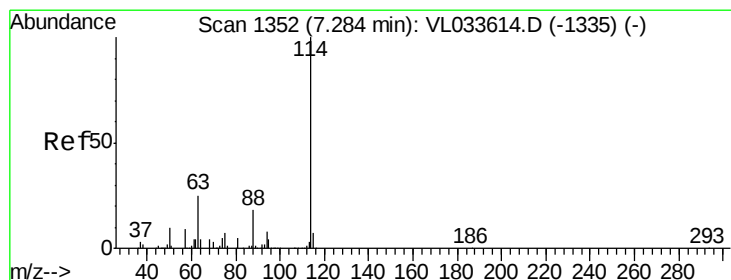
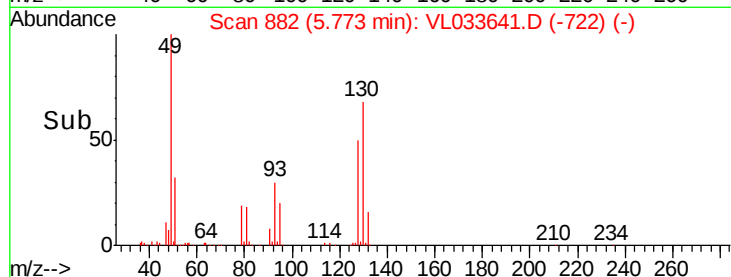
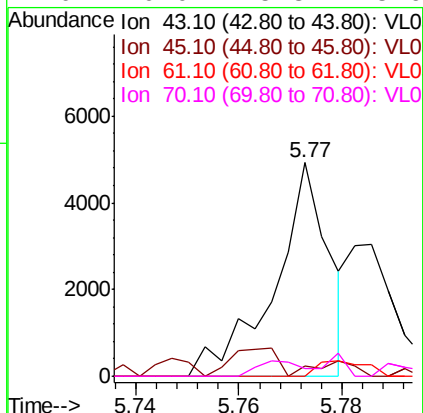
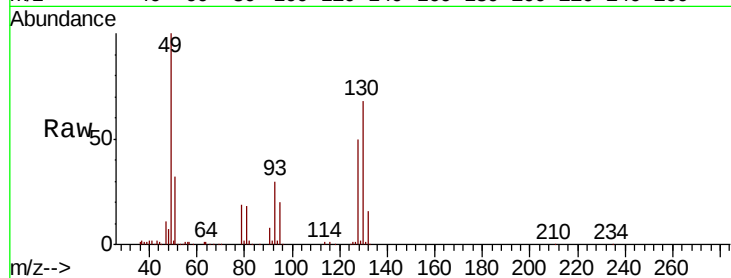




#25
Ethyl Acetate
Concen: 0.015 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033641.D
Acq: 2 May 2019 23:44

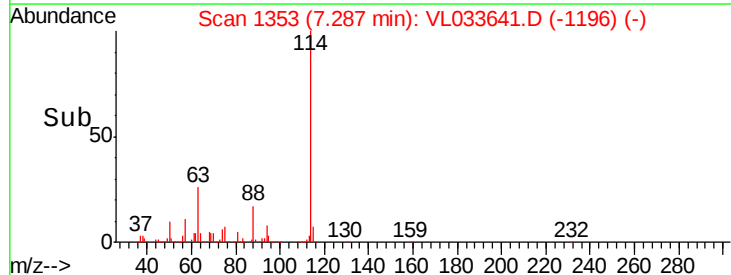
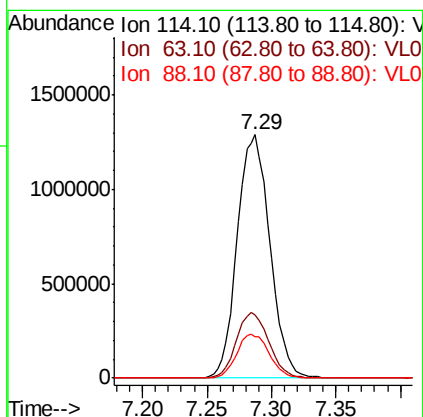
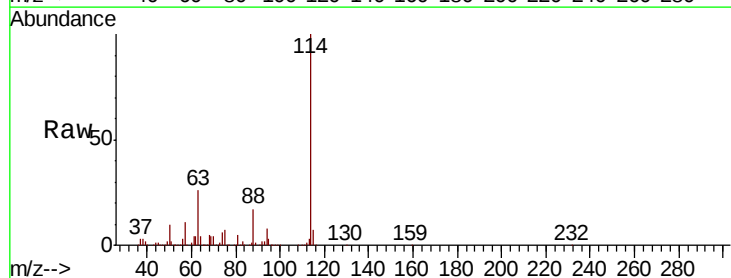
Instrument :
MSVOA_L
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A-8DL

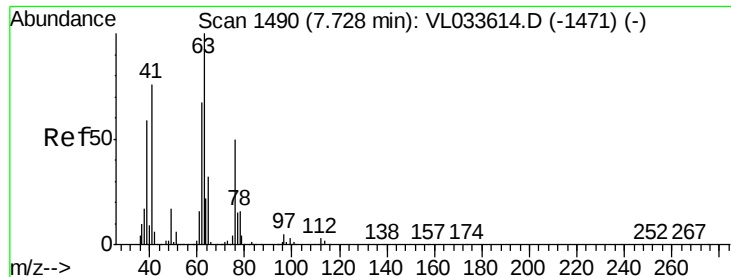
Tgt Ion:	43	Resp:	3595
Ion	Ratio	Lower	Upper
43	100		
45	25.8	8.1	12.1#
61	0.0	7.5	11.3#
70	0.0	5.8	8.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL033641.D
Acq: 2 May 2019 23:44

Tgt Ion:	114	Resp:	2275926
Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.1	31.7
88	18.0	14.2	21.4





#39

1,2-Dichloropropane

Concen: 8.287 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.44 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

Instrument :

MSVOA_L

ClientSampleId :

A-8DL

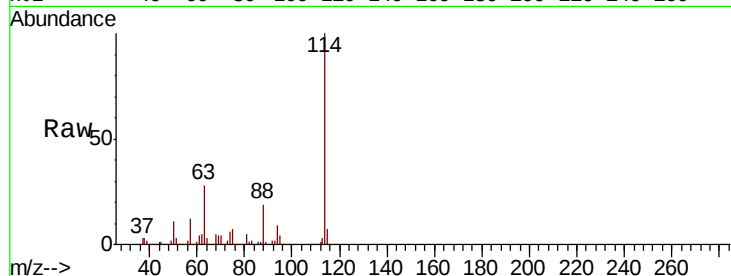
Tgt Ion: 63 Resp: 606024

Ion Ratio Lower Upper

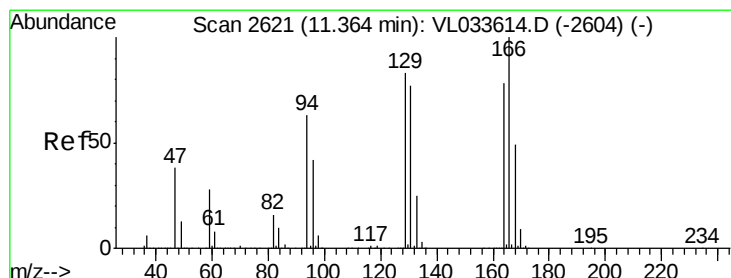
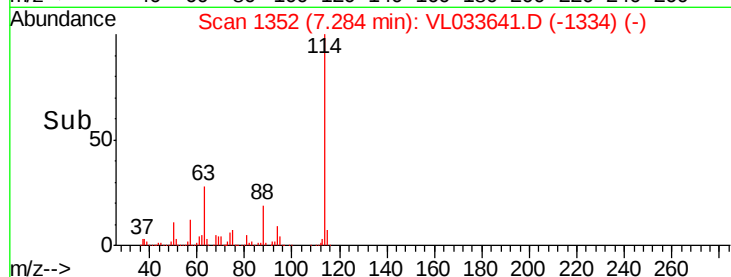
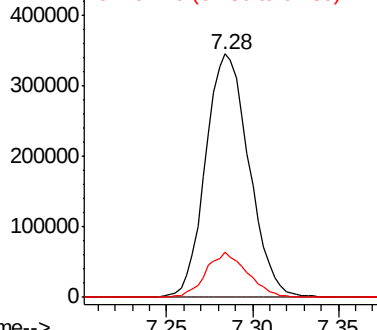
63 100

41 0.0 60.9 91.3#

62 18.2 53.3 79.9#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#52

Tetrachloroethene

Concen: 0.010 ppbv

RT: 11.82 min Scan# 2763

Delta R.T. 0.46 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

Tgt Ion: 164 Resp: 778

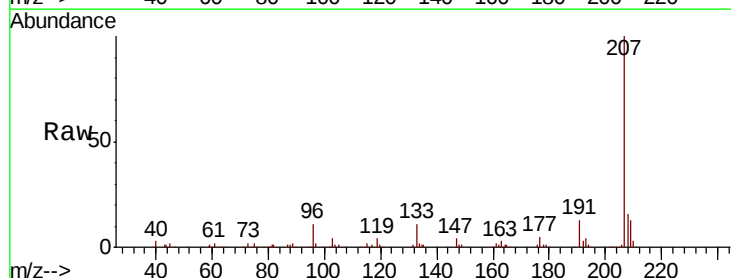
Ion Ratio Lower Upper

164 100

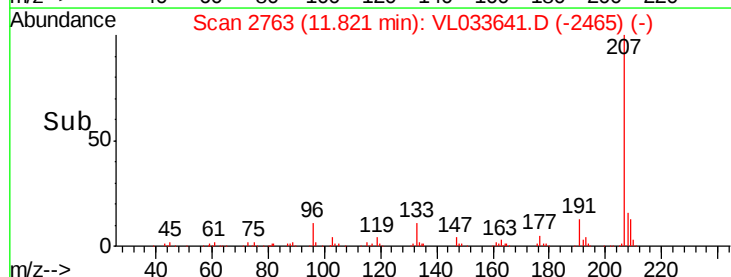
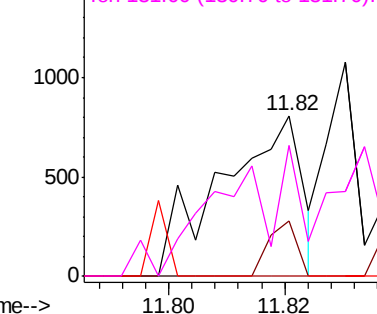
166 34.5 102.2 153.4#

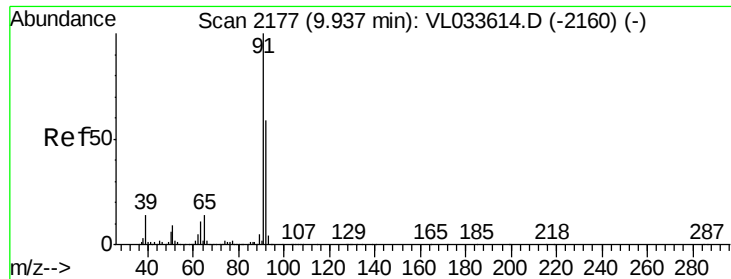
129 0.0 84.4 126.6#

131 81.5 79.2 118.8



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.351 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

Instrument :

MSVOA_L

ClientSampled :

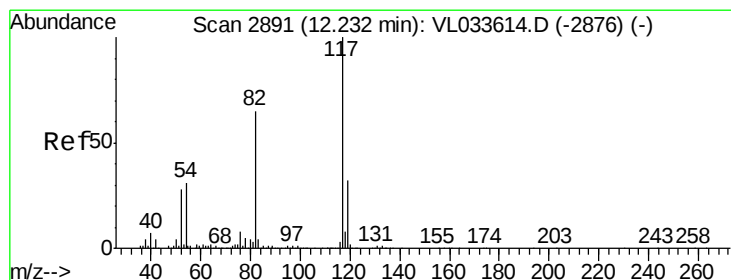
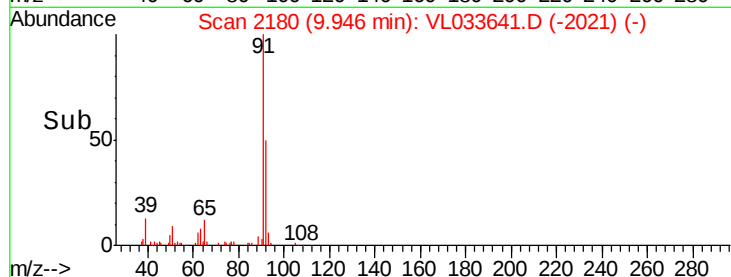
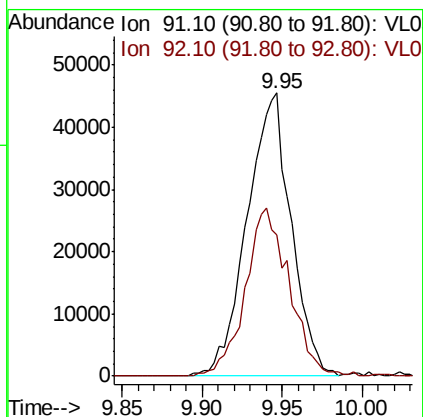
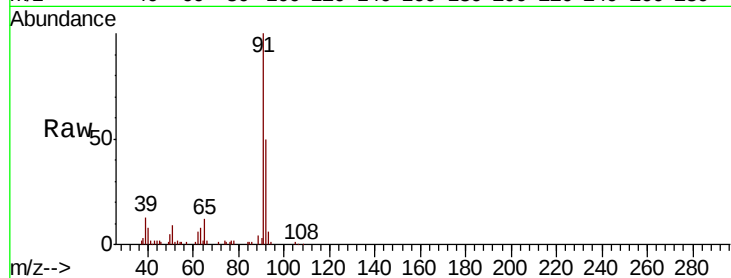
A-8DL

Tgt Ion: 91 Resp: 86008

Ion Ratio Lower Upper

91 100

92 59.0 47.8 71.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

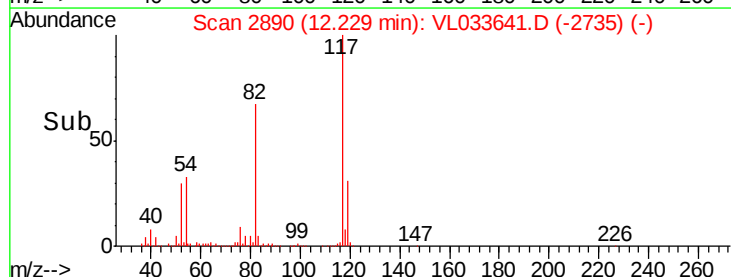
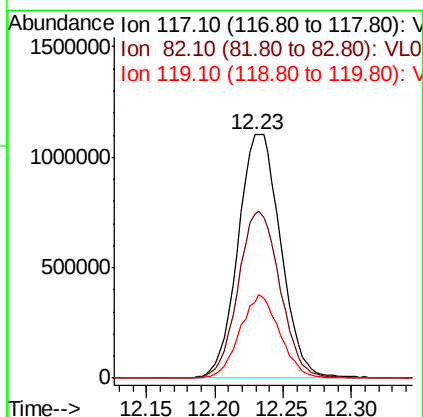
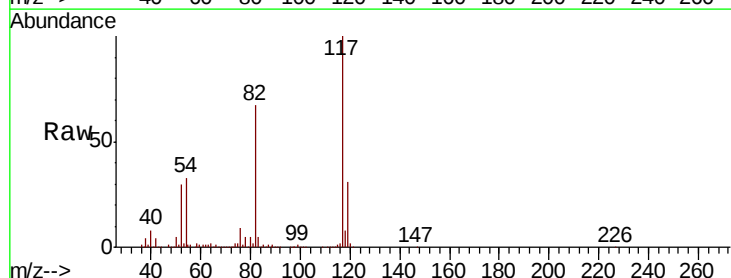
Tgt Ion: 117 Resp: 2385017

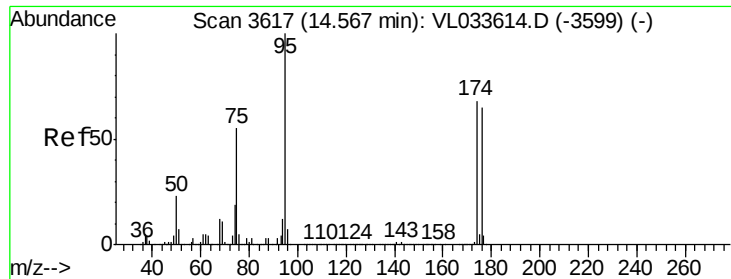
Ion Ratio Lower Upper

117 100

82 67.8 52.6 78.8

119 32.4 28.3 42.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.545 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL033641.D

Acq: 2 May 2019 23:44

Instrument :

MSVOA_L

ClientSampleId :

A-8DL

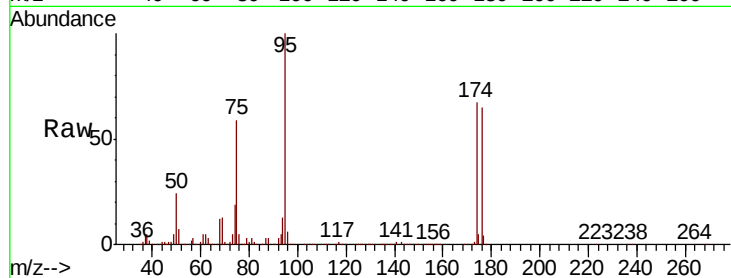
Tgt Ion: 95 Resp: 1914654

Ion Ratio Lower Upper

95 100

174 65.8 53.9 80.9

175 4.7 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

