

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL061319\
 Data File : VL033920.D
 Acq On : 14 Jun 2019 6:07
 Operator : SY/AP
 Sample : K3367-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: Jun 14 09:17:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	792971	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	1775285	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	1916550	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1402894	8.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.10%

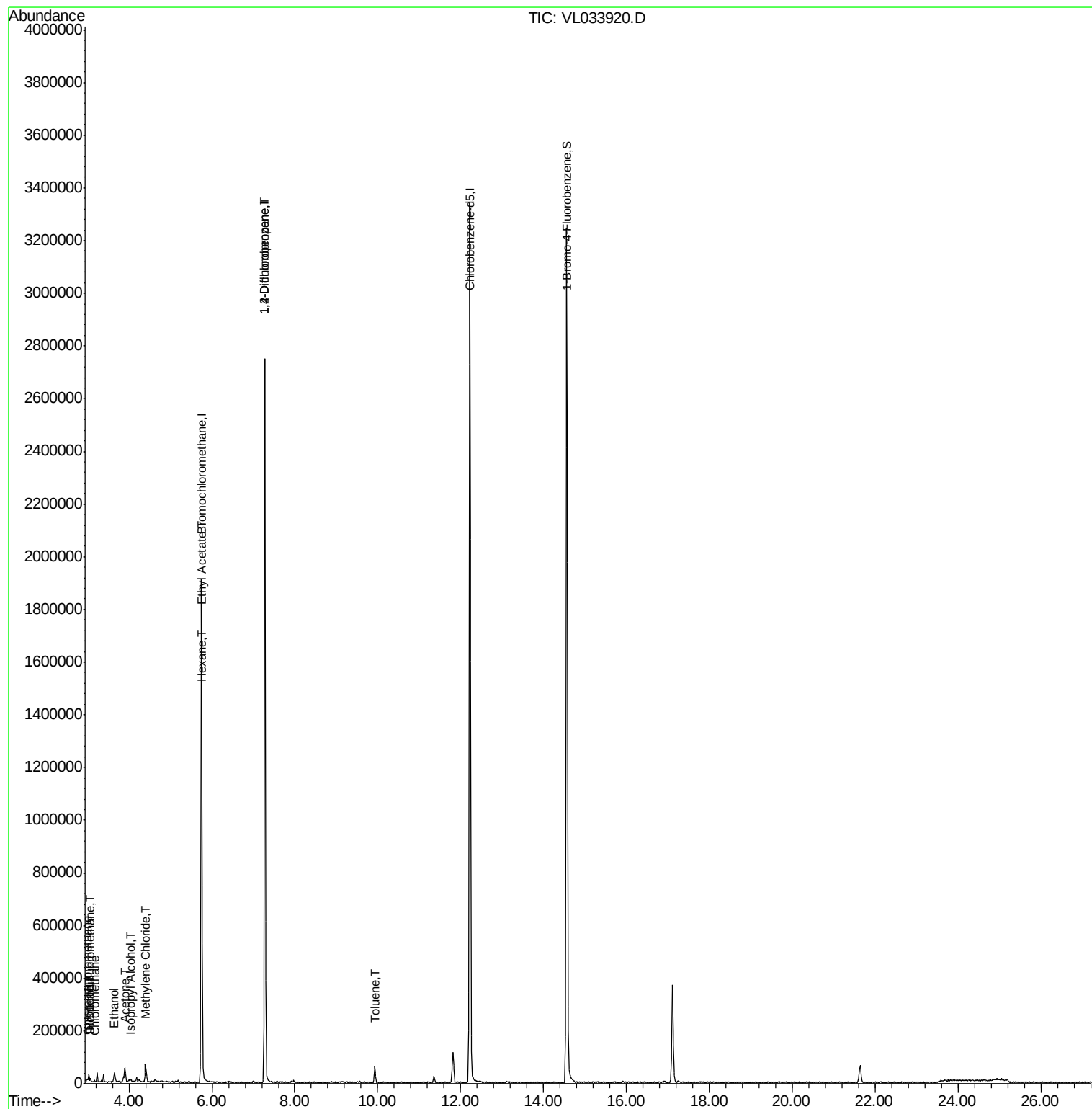
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	9125	0.071	ppbv	97
3) Chlorodifluoromethane	3.00	51	14157	0.152	ppbv #	81
4) Chloromethane	3.17	50	3113	0.058	ppbv #	66
9) Propene	3.04	41	4891	0.140	ppbv	92
13) Ethanol	3.65	45	27855	2.451	ppbv	86
15) Acetone	3.90	43	53161	0.460	ppbv	100
19) Isopropyl Alcohol	4.03	45	3637	0.055	ppbv #	63
20) Methylene Chloride	4.40	84	21034	0.466	ppbv #	84
25) Ethyl Acetate	5.76	43	7813	0.044	ppbv #	83
26) Hexane	5.77	57	8617	0.107	ppbv #	38
39) 1,2-Dichloropropane	7.27	63	475580	9.087	ppbv #	27
53) Toluene	9.92	91	15122	0.101	ppbv #	21

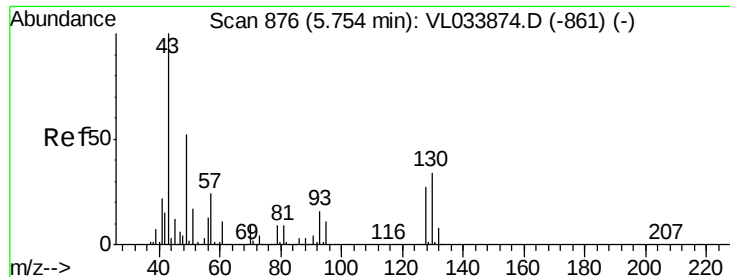
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL061319\
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OA1DL

Quant Time: Jun 14 09:17:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL033920.D

Acq: 14 Jun 2019 6:07

Instrument :

MSVOA_L

ClientSampleId :

QA1DL

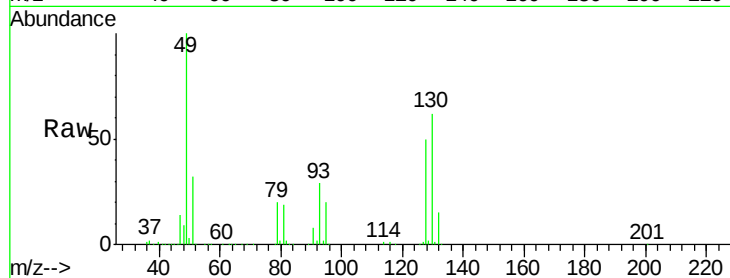
Tgt Ion: 49 Resp: 792971

Ion Ratio Lower Upper

49 100

128 50.4 25.5 76.5

130 64.2 32.5 97.4



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

5.75

400000

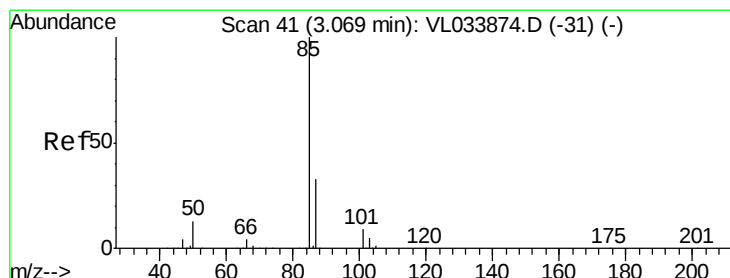
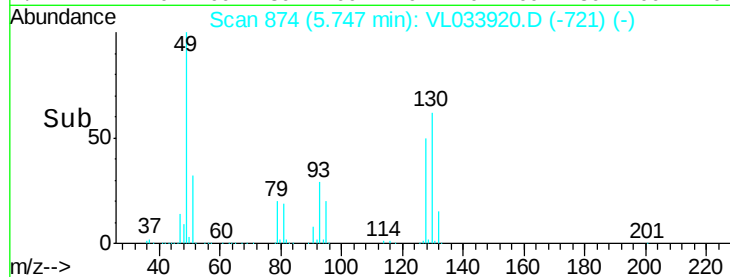
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.071 ppbv

RT: 3.07 min Scan# 42

Delta R.T. 0.00 min

Lab File: VL033920.D

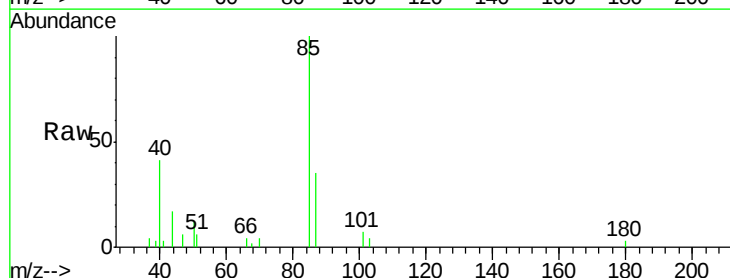
Acq: 14 Jun 2019 6:07

Tgt Ion: 85 Resp: 9125

Ion Ratio Lower Upper

85 100

87 35.1 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

10000

8000

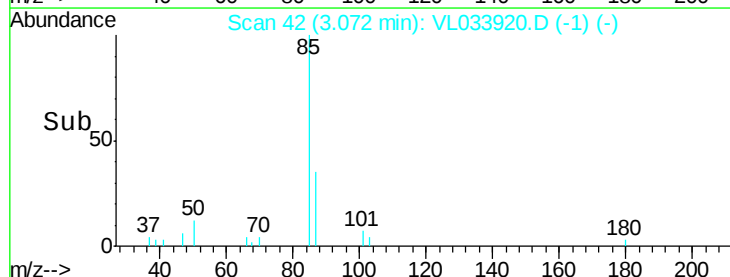
6000

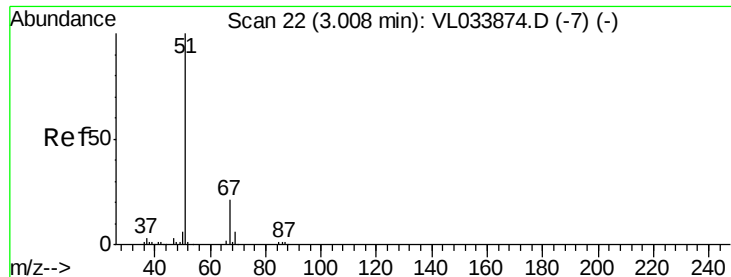
4000

2000

0

Time-->

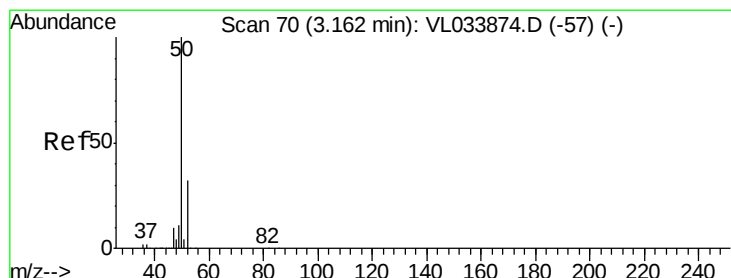
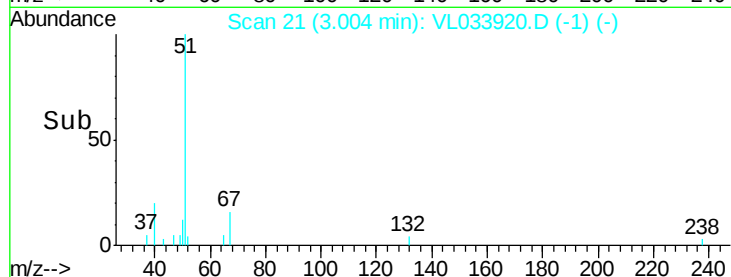
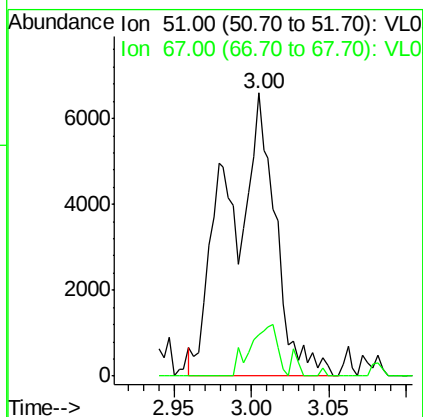
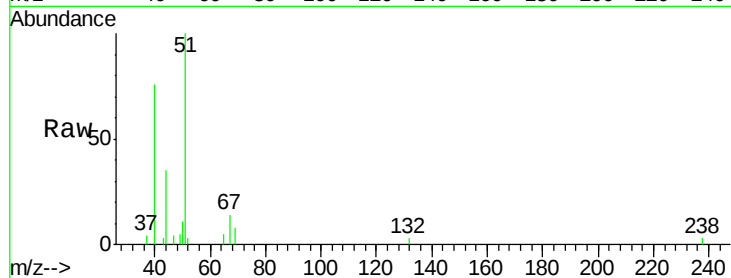




#3
Chlorodifluoromethane
Concen: 0.152 ppbv
RT: 3.00 min Scan# 21
Delta R.T. -0.00 min
Lab File: VL033920.D
Acq: 14 Jun 2019 6:07

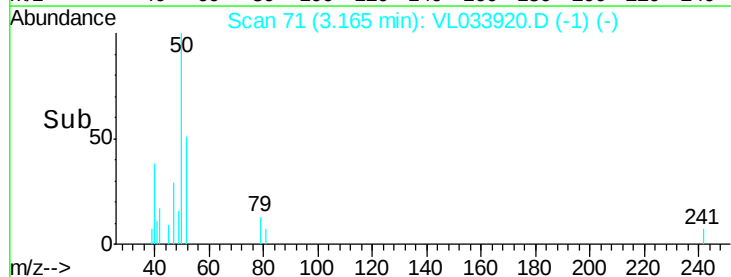
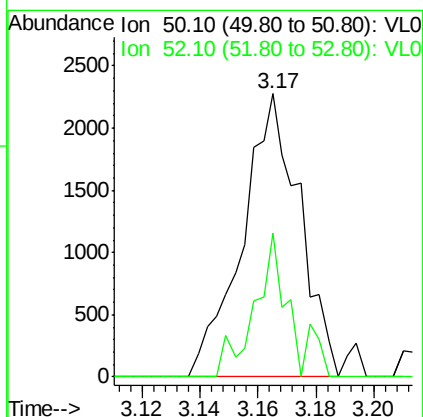
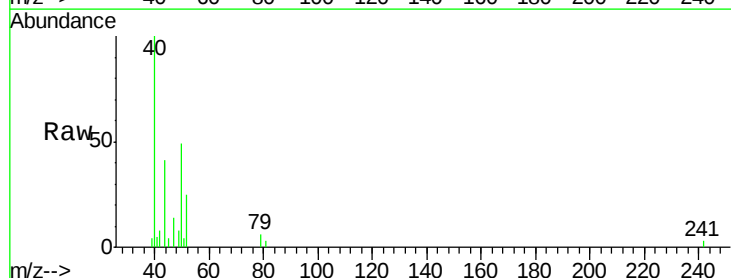
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

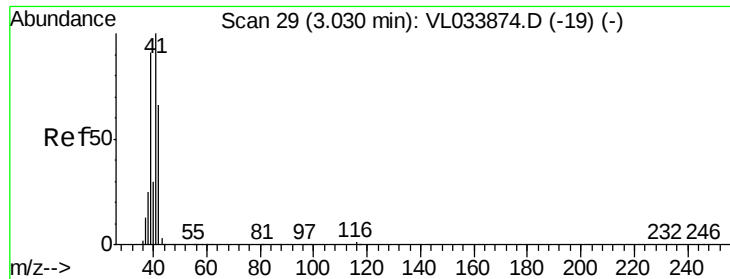
Tgt Ion: 51 Resp: 14157
Ion Ratio Lower Upper
51 100
67 11.9 16.4 24.6#



#4
Chloromethane
Concen: 0.058 ppbv
RT: 3.17 min Scan# 71
Delta R.T. 0.00 min
Lab File: VL033920.D
Acq: 14 Jun 2019 6:07

Tgt Ion: 50 Resp: 3113
Ion Ratio Lower Upper
50 100
52 50.8 25.4 38.0#





#9

Propene

Concen: 0.140 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.01 min

Lab File: VL033920.D

Acq: 14 Jun 2019 6:07

Instrument :

MSVOA_L

ClientSampleId :

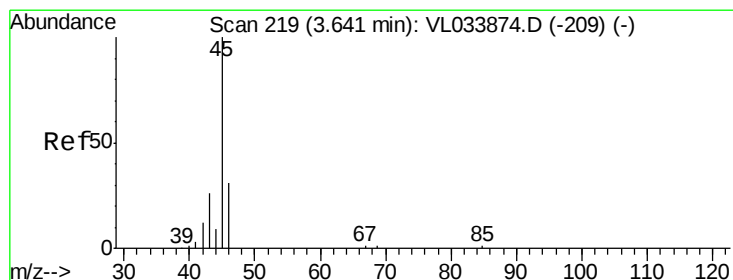
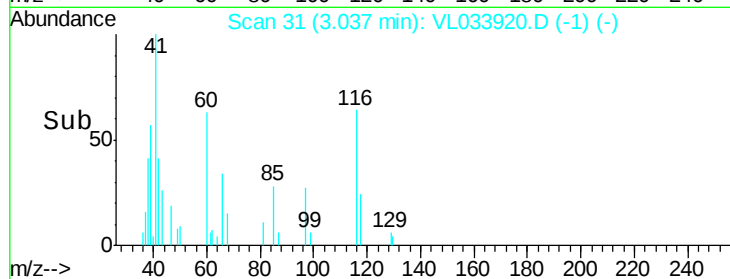
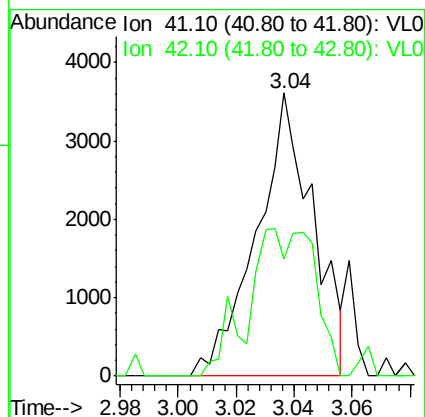
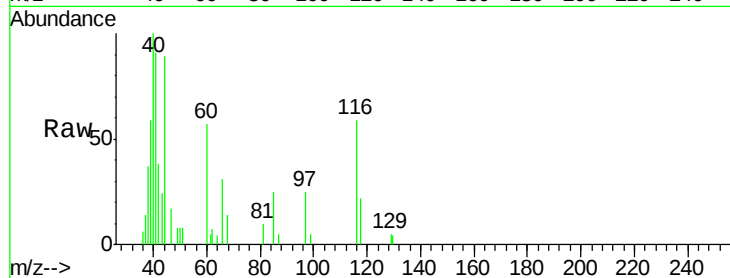
QA1DL

Tgt Ion: 41 Resp: 4891

Ion Ratio Lower Upper

41 100

42 63.6 56.3 84.5



#13

Ethanol

Concen: 2.451 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033920.D

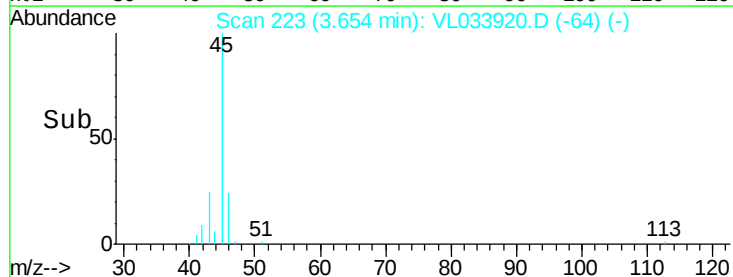
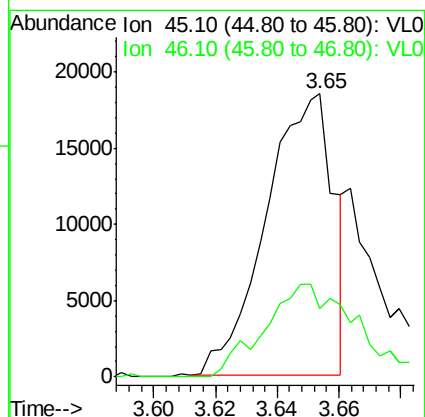
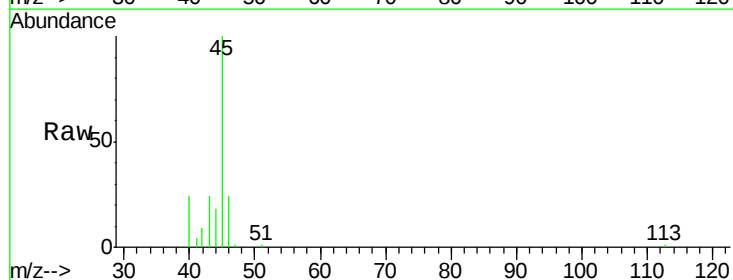
Acq: 14 Jun 2019 6:07

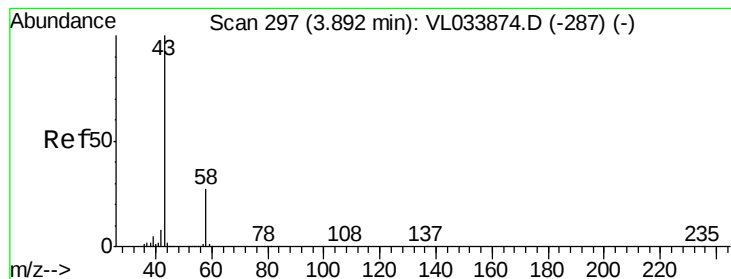
Tgt Ion: 45 Resp: 27855

Ion Ratio Lower Upper

45 100

46 46.6 15.3 61.1





#15

Acetone

Concen: 0.460 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.01 min

Lab File: VL033920.D

Acq: 14 Jun 2019 6:07

Instrument :

MSVOA_L

ClientSampleId :

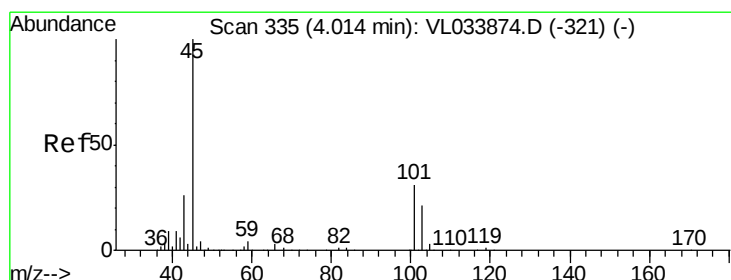
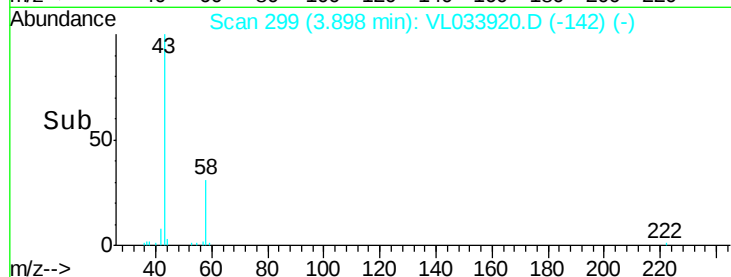
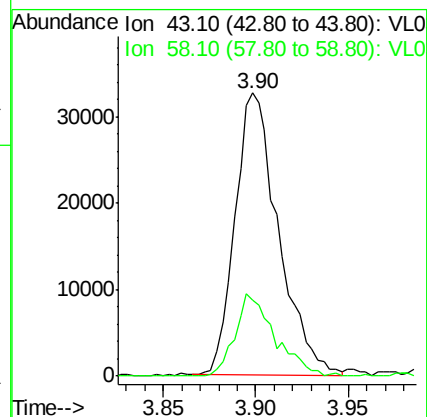
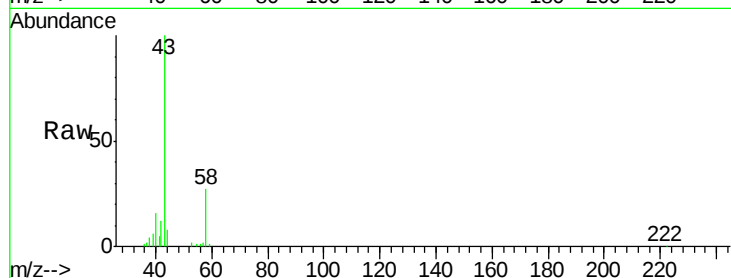
OA1DL

Tgt Ion: 43 Resp: 53161

Ion Ratio Lower Upper

43 100

58 26.8 21.3 31.9



#19

Isopropyl Alcohol

Concen: 0.055 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.02 min

Lab File: VL033920.D

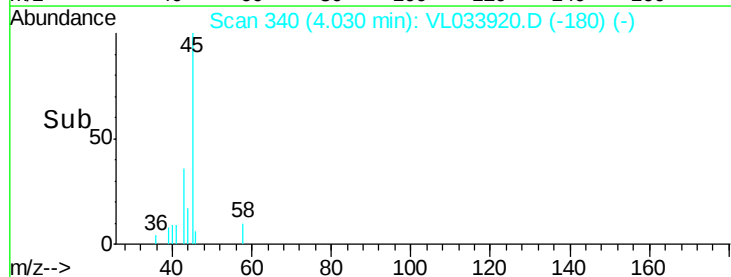
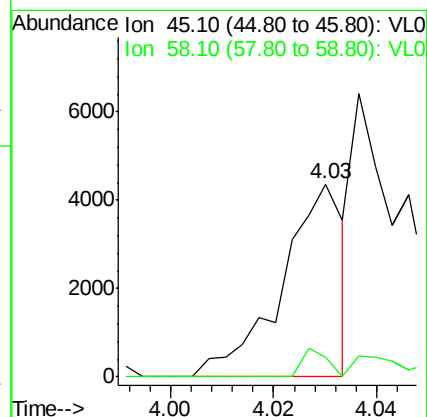
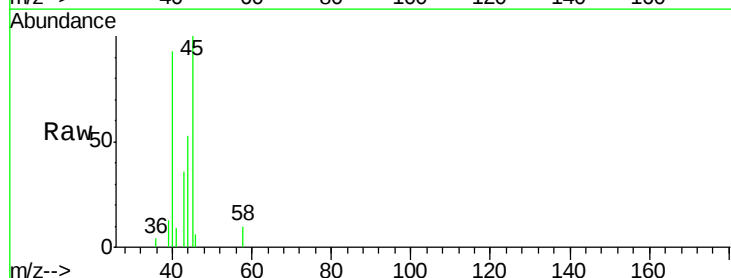
Acq: 14 Jun 2019 6:07

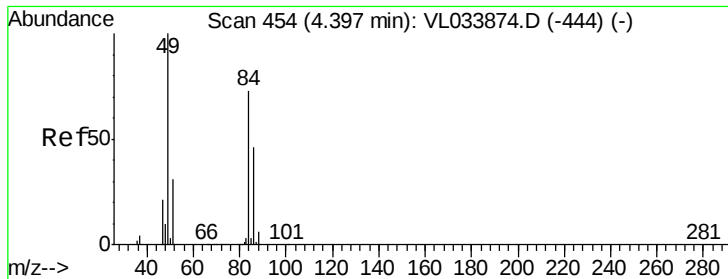
Tgt Ion: 45 Resp: 3637

Ion Ratio Lower Upper

45 100

58 14.9 1.8 2.6#

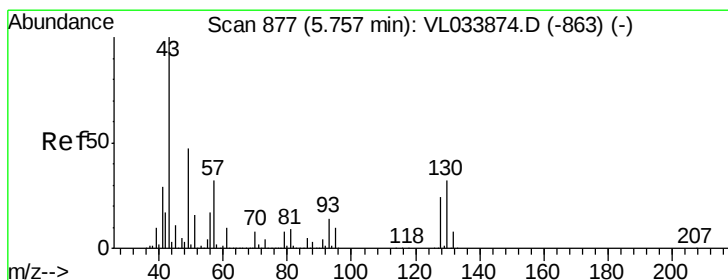
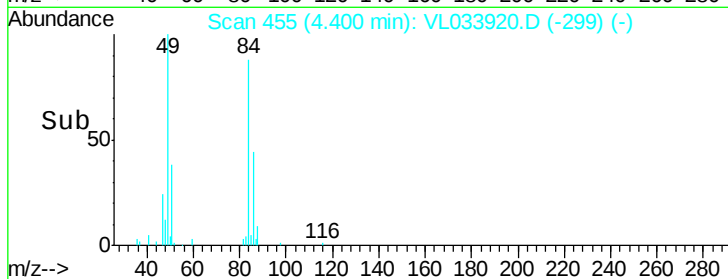
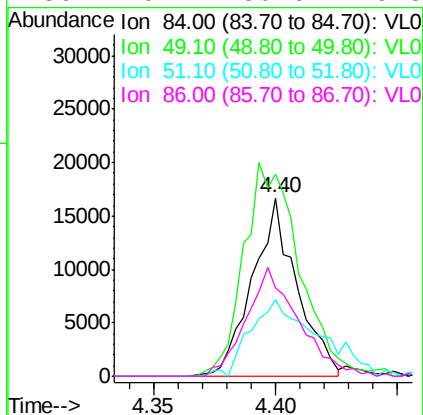
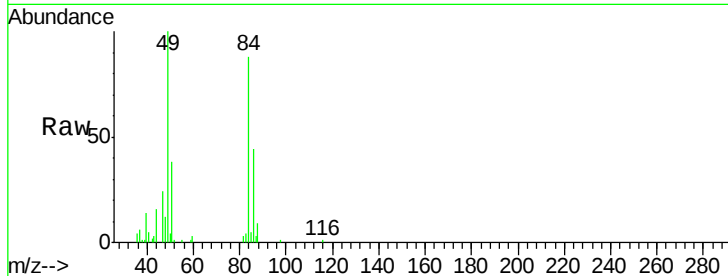




#20
Methylene Chloride
Concen: 0.466 ppbv
RT: 4.40 min Scan# 455
Delta R.T. 0.00 min
Lab File: VL033920.D
Acq: 14 Jun 2019 6:07

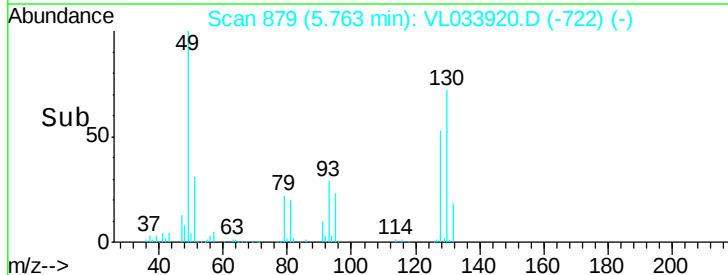
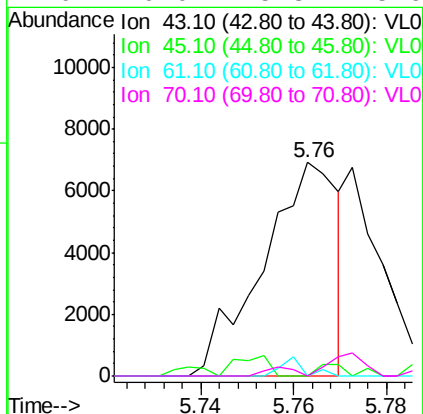
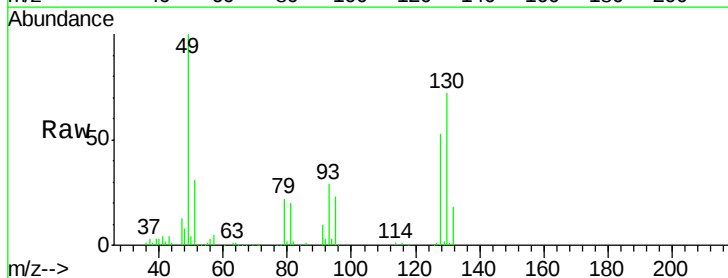
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

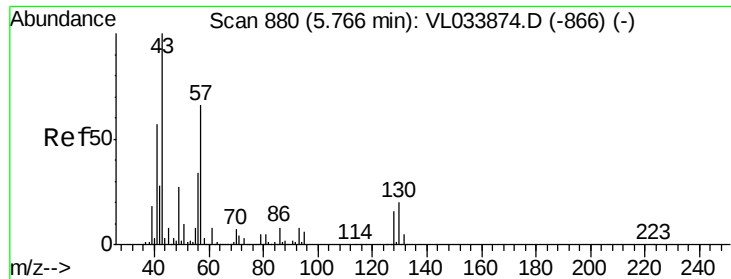
Tgt Ion: 84 Resp: 21034
Ion Ratio Lower Upper
84 100
49 113.7 110.0 165.0
51 43.2 34.6 51.8
86 49.7 50.6 75.8#



#25
Ethyl Acetate
Concen: 0.044 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.01 min
Lab File: VL033920.D
Acq: 14 Jun 2019 6:07

Tgt Ion: 43 Resp: 7813
Ion Ratio Lower Upper
43 100
45 7.9 7.9 11.9
61 0.0 7.8 11.6#
70 0.0 5.8 8.6#

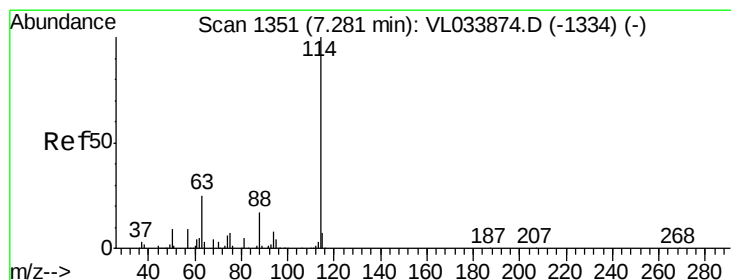
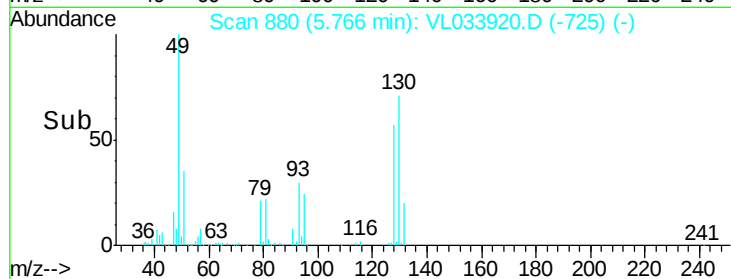
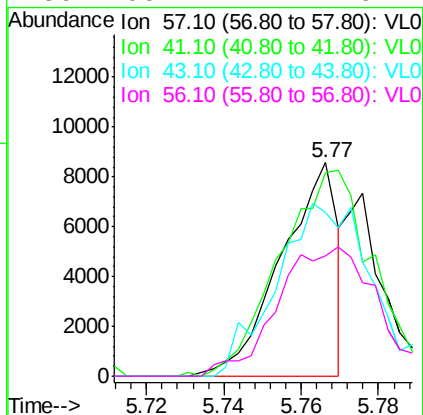
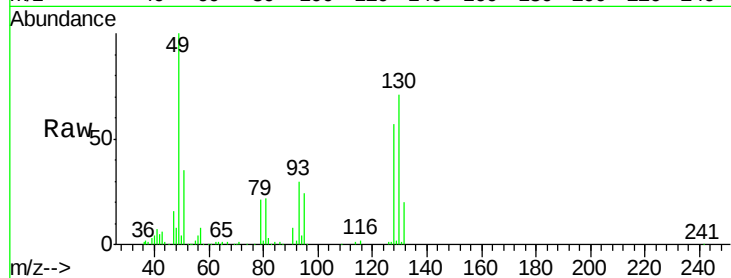




#26
Hexane
Concen: 0.107 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033920.D
Acq: 14 Jun 2019 6:07

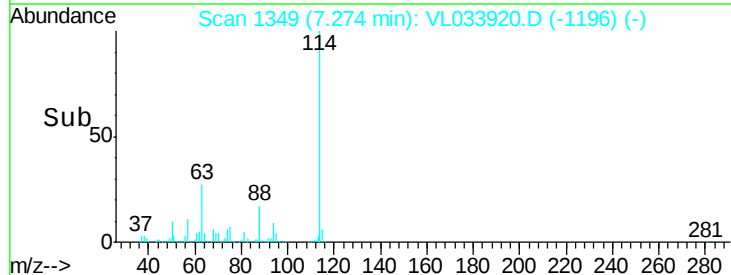
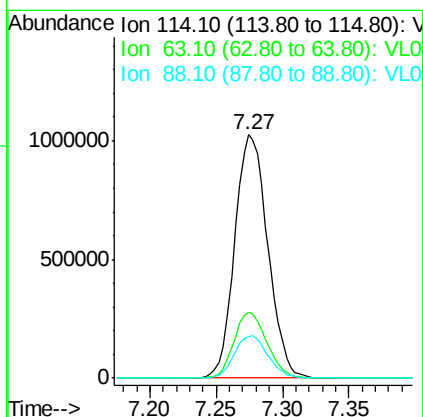
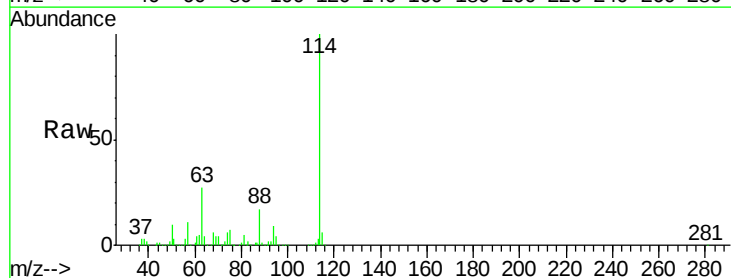
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

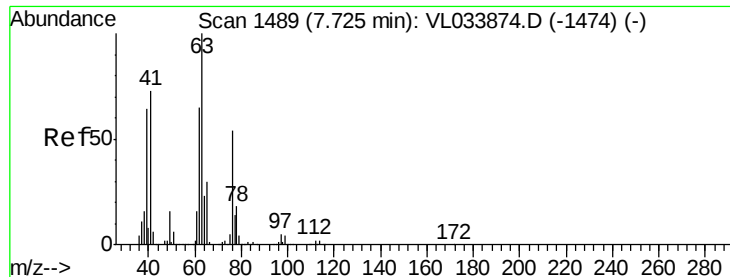
Tgt Ion: 57 Resp: 8617
Ion Ratio Lower Upper
57 100
41 163.4 71.4 107.2#
43 143.4 183.7 275.5#
56 106.2 42.7 64.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL033920.D
Acq: 14 Jun 2019 6:07

Tgt Ion: 114 Resp: 1775285
Ion Ratio Lower Upper
114 100
63 26.9 21.1 31.7
88 17.9 14.2 21.4





#39

1,2-Dichloropropane

Concen: 9.087 ppbv

RT: 7.27 min Scan# 1349

Delta R.T. -0.45 min

Lab File: VL033920.D

Acq: 14 Jun 2019 6:07

Instrument :

MSVOA_L

ClientSampleId :

QA1DL

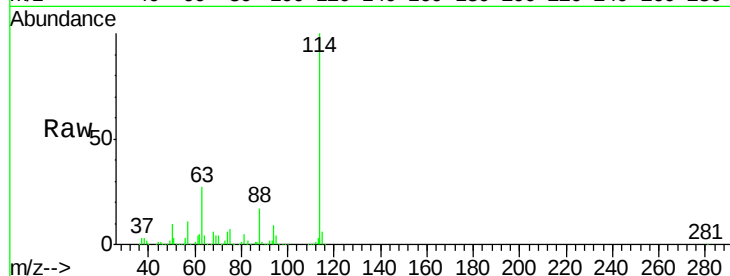
Tgt Ion: 63 Resp: 475580

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

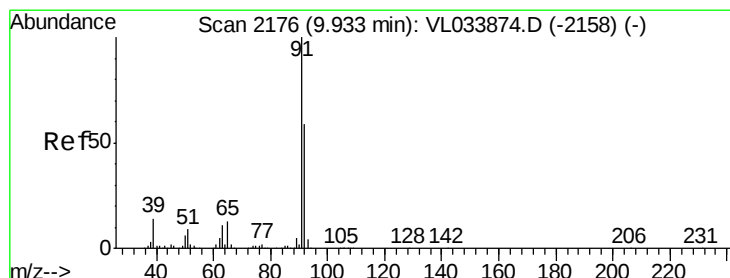
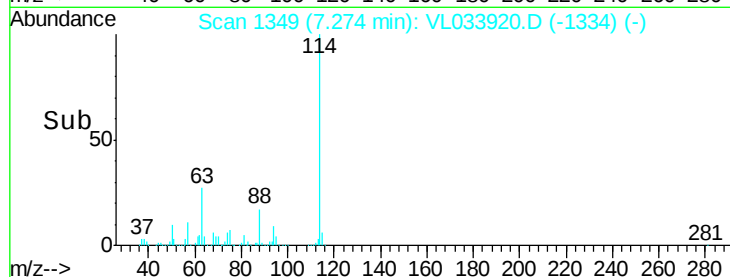
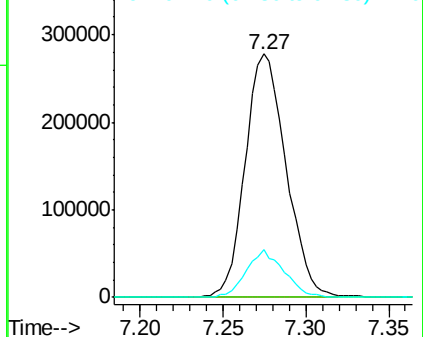
62 19.8 51.9 77.9#



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



#53

Toluene

Concen: 0.101 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033920.D

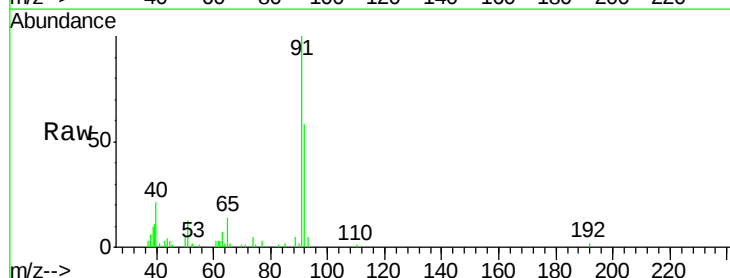
Acq: 14 Jun 2019 6:07

Tgt Ion: 91 Resp: 15122

Ion Ratio Lower Upper

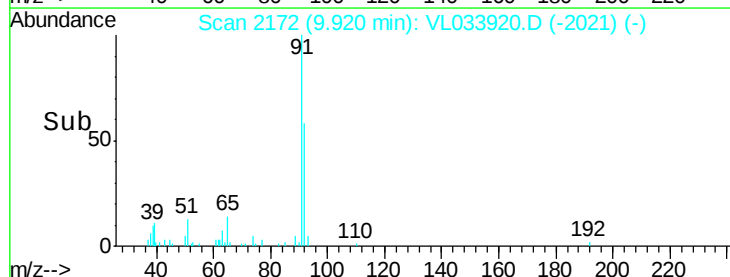
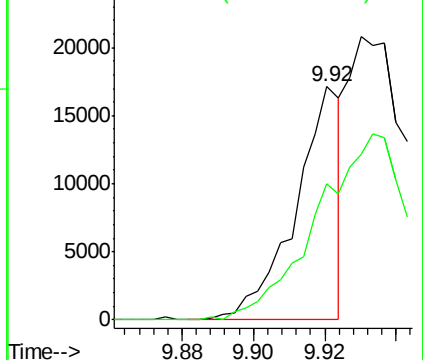
91 100

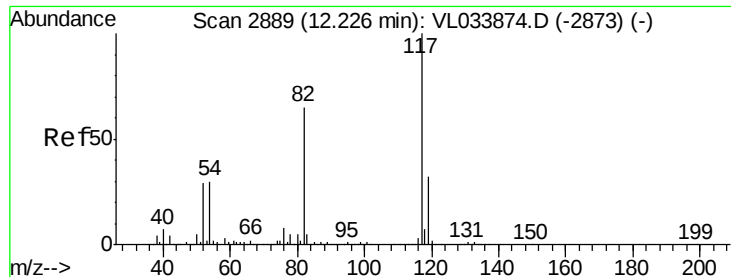
92 0.0 47.0 70.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

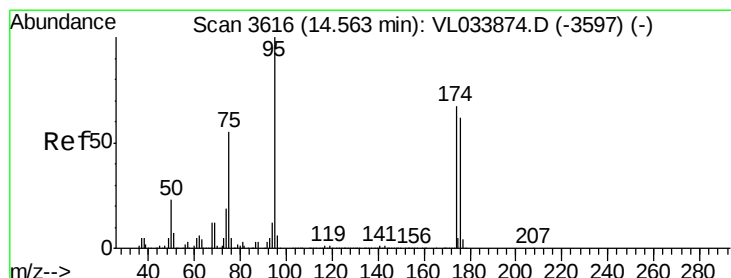
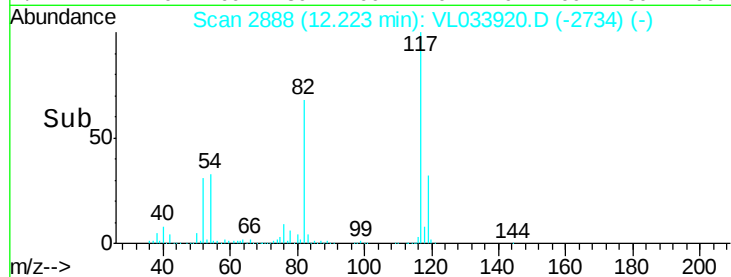
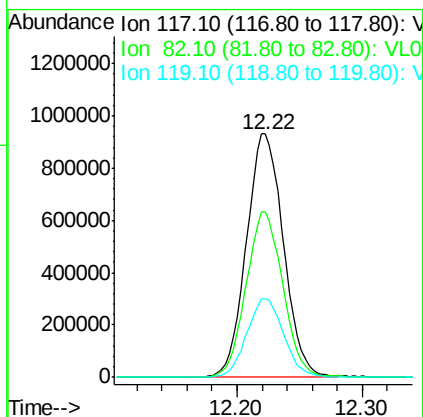
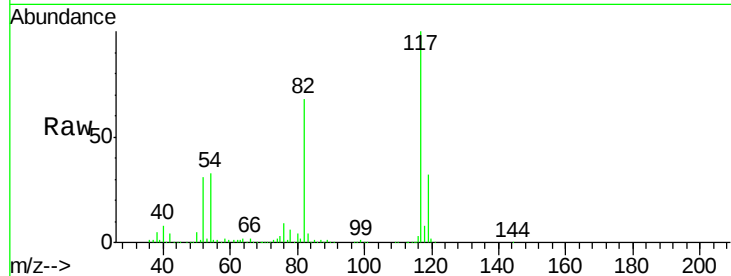




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.22 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL033920.D
Acq: 14 Jun 2019 6:07

Instrument :
MSVOA_L
ClientSampleId :
OA1DL

Tgt Ion: 117 Resp: 1916550
Ion Ratio Lower Upper
117 100
82 68.1 50.2 75.2
119 32.3 24.8 37.2



#68
1-Bromo-4-Fluorobenzene
Concen: 8.912 ppbv
RT: 14.56 min Scan# 3615
Delta R.T. -0.00 min
Lab File: VL033920.D
Acq: 14 Jun 2019 6:07

Tgt Ion: 95 Resp: 1402894
Ion Ratio Lower Upper
95 100
174 66.8 54.0 81.0
175 4.8 3.8 5.8

