

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL080421\
 Data File : VL037331.D
 Acq On : 5 Aug 2021 6:39
 Operator : SY/AP
 Sample : M3211-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3DL

Quant Time: Aug 05 08:23:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 04 22:53:01 2021
 QLast Update : Wed Aug 04 22:53:01 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1078668	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3506250	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2959038	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1972615	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

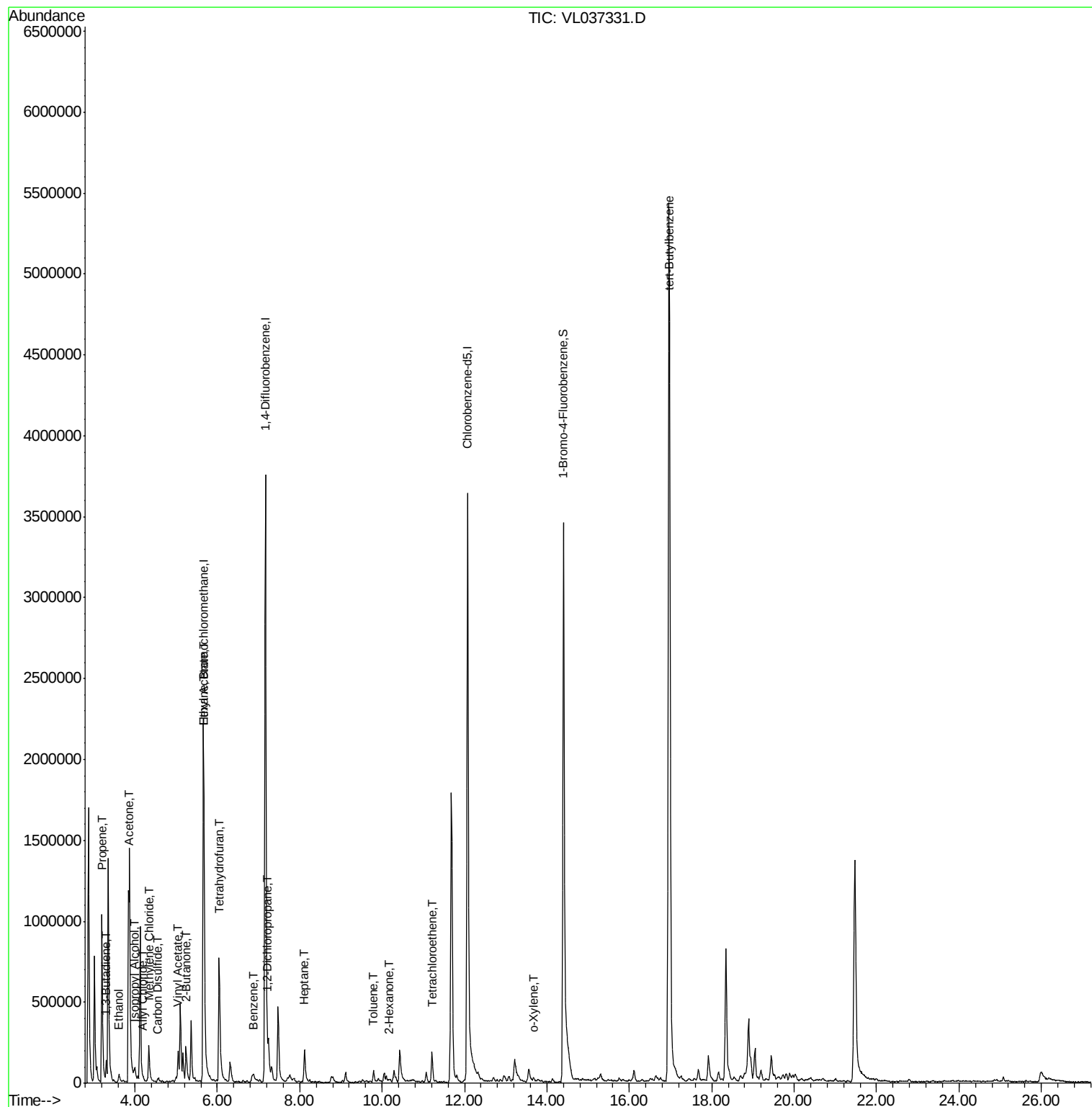
Target Compounds					Qvalue
9) Propene	3.20	41	337266	4.253	ppbv 94
10) Heptane	8.12	43	90244	0.487	ppbv 99
13) Ethanol	3.61	45	33997	2.846	ppbv # 34
15) Acetone	3.84	43	2009771	17.153	ppbv 90
16) 1,3-Butadiene	3.30	39	33787	0.448	ppbv # 23
19) Isopropyl Alcohol	3.98	45	58996	0.910	ppbv # 93
20) Methylene Chloride	4.34	84	88182	0.909	ppbv 91
21) Allyl Chloride	4.20	41	4135	0.044	ppbv # 14
23) Vinyl Acetate	5.05	43	58489	0.331	ppbv # 1
25) Ethyl Acetate	5.68	43	207724	0.682	ppbv # 76
26) Hexane	5.68	57	304833	1.788	ppbv # 46
27) Carbon Disulfide	4.55	76	6865	0.049	ppbv # 22
34) 2-Butanone	5.24	43	309395	2.543	ppbv 99
36) Benzene	6.88	78	18704	0.059	ppbv # 96
39) 1,2-Dichloropropane	7.22	63	10858	0.092	ppbv # 44
41) Tetrahydrofuran	6.04	42	575745	8.509	ppbv 99
51) 2-Hexanone	10.15	43	10686	0.126	ppbv # 22
52) Tetrachloroethene	11.21	164	53322	0.392	ppbv 97
53) Toluene	9.79	91	31970	0.086	ppbv # 34
60) o-Xylene	13.67	91	13848	0.042	ppbv 94
65) tert-Butylbenzene	16.97	119	117696	0.264	ppbv # 27

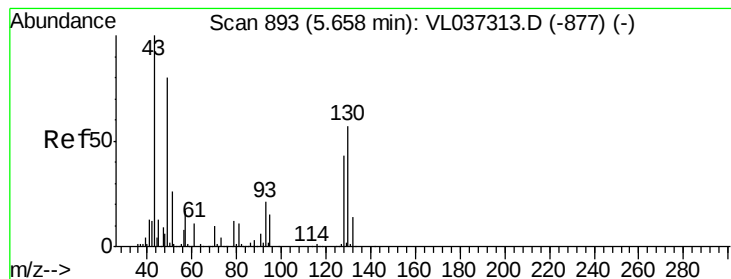
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

Instrument :

MSVOA_L

ClientSampleId :

SVP-3DL

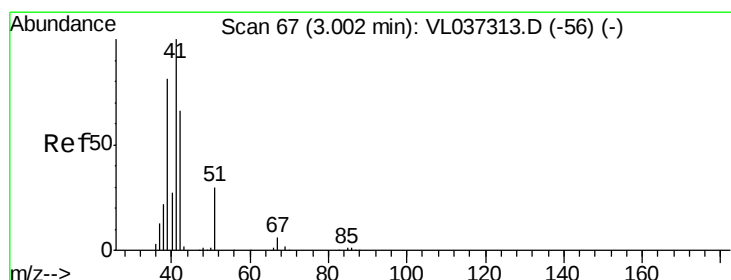
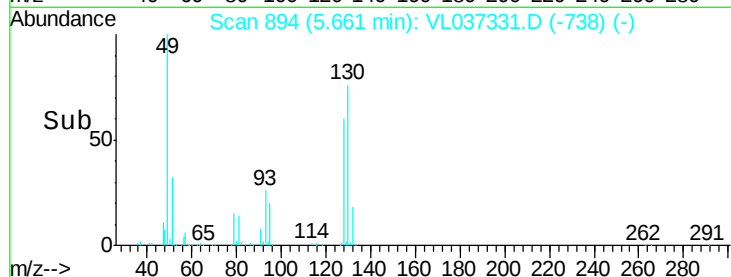
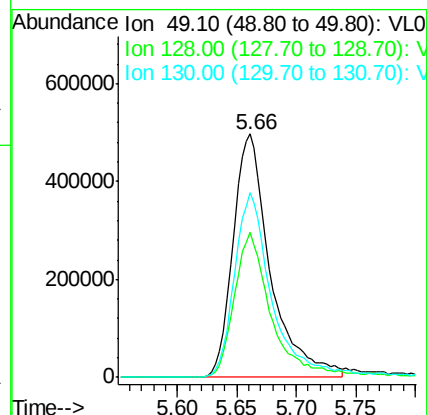
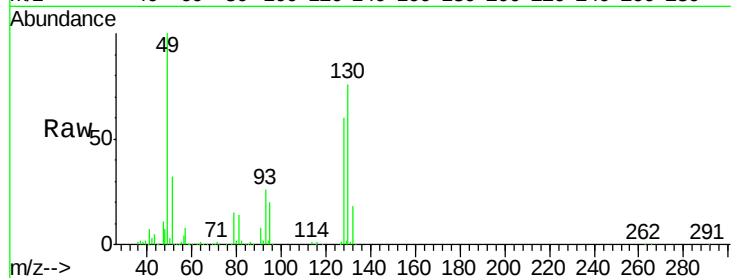
Tgt Ion: 49 Resp: 1078668

Ion Ratio Lower Upper

49 100

128 61.0 29.8 89.5

130 78.2 37.5 112.7



#9

Propene

Concen: 4.253 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.20 min

Lab File: VL037331.D

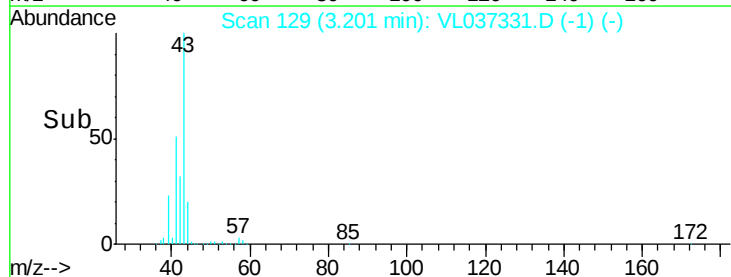
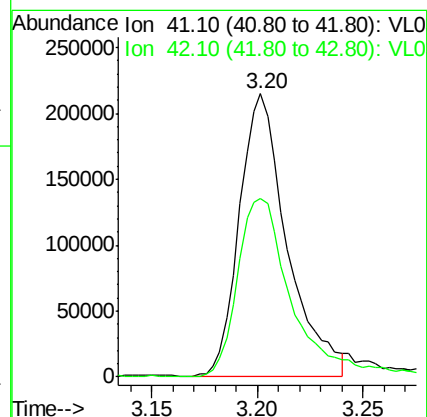
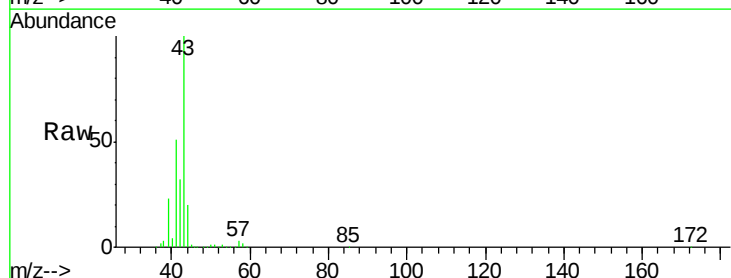
Acq: 5 Aug 2021 6:39

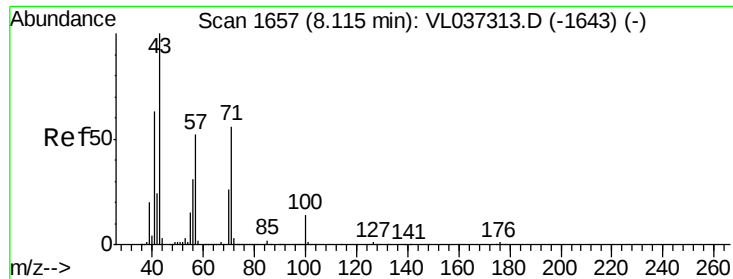
Tgt Ion: 41 Resp: 337266

Ion Ratio Lower Upper

41 100

42 72.2 53.8 80.8





#10

Heptane

Concen: 0.487 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

Instrument :

MSVOA_L

ClientSampleId :

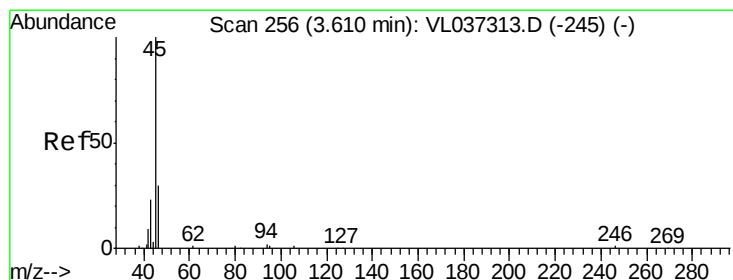
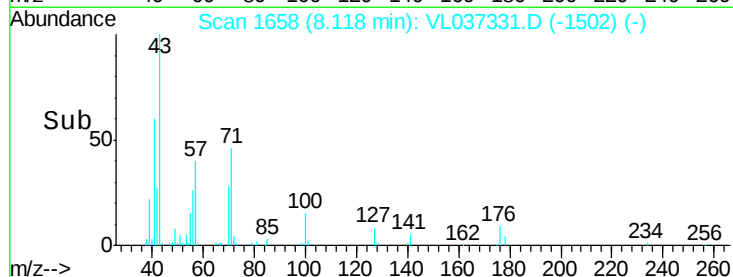
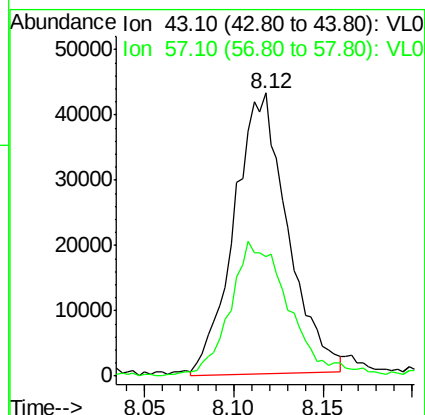
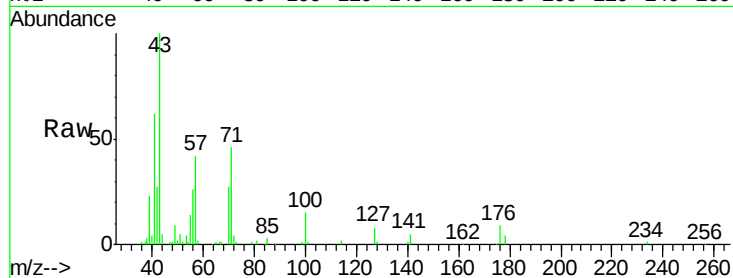
SVP-3DL

Tgt Ion: 43 Resp: 90244

Ion Ratio Lower Upper

43 100

57 51.9 42.4 63.6



#13

Ethanol

Concen: 2.846 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL037331.D

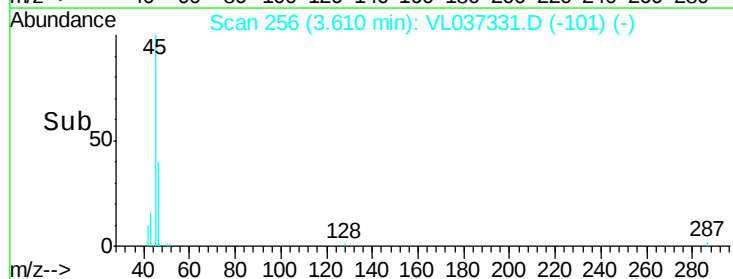
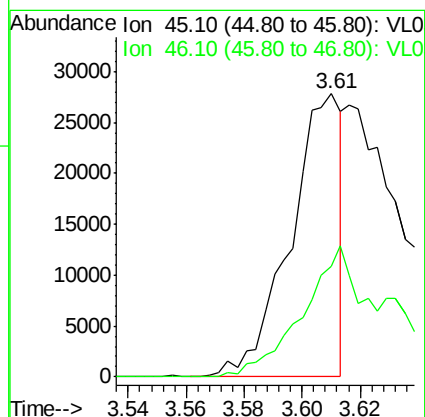
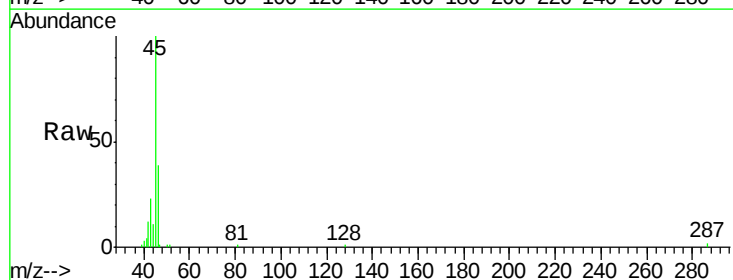
Acq: 5 Aug 2021 6:39

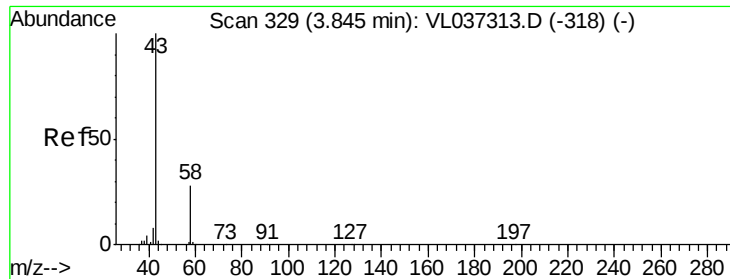
Tgt Ion: 45 Resp: 33997

Ion Ratio Lower Upper

45 100

46 0.0 16.6 66.4#





#15

Acetone

Concen: 17.153 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

Instrument :

MSVOA_L

ClientSampleId :

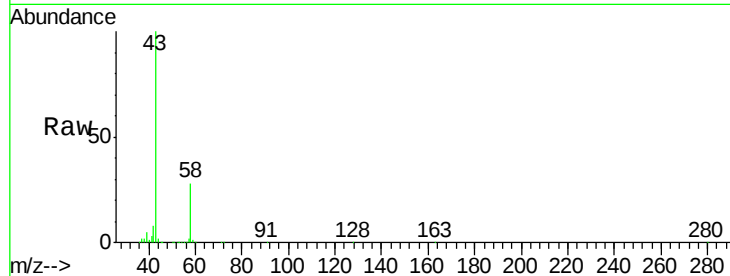
SVP-3DL

Tgt Ion: 43 Resp: 2009771

Ion Ratio Lower Upper

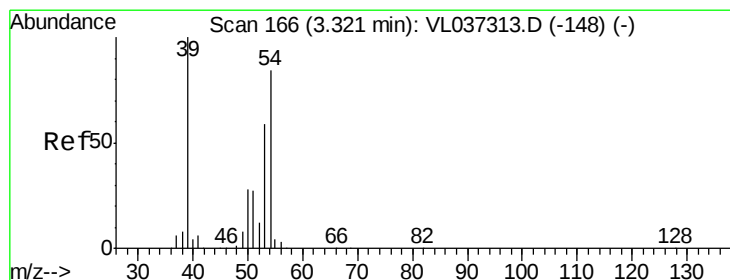
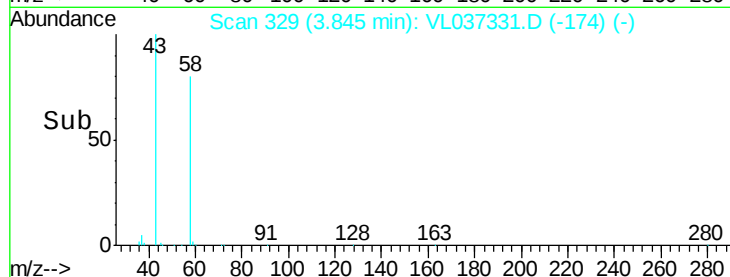
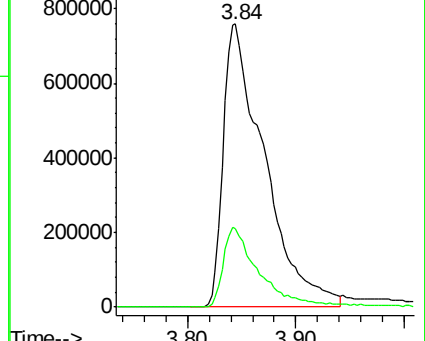
43 100

58 25.8 25.3 37.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.448 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL037331.D

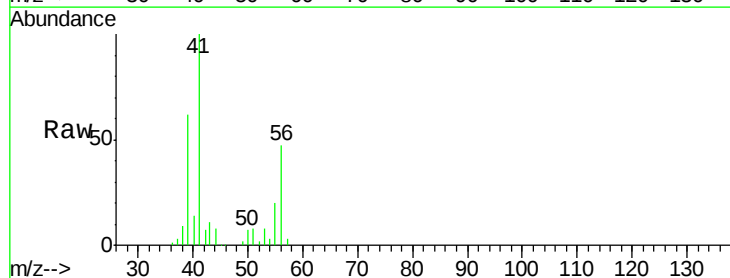
Acq: 5 Aug 2021 6:39

Tgt Ion: 39 Resp: 33787

Ion Ratio Lower Upper

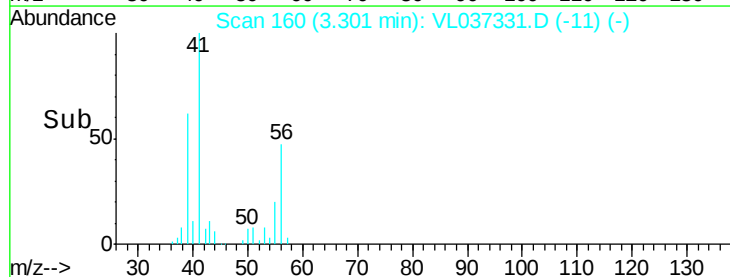
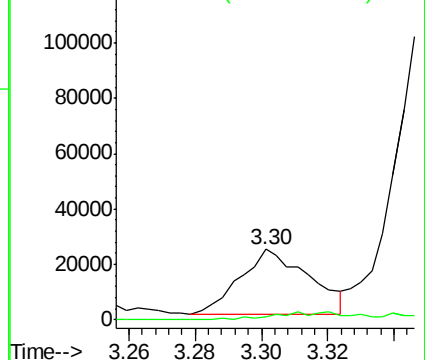
39 100

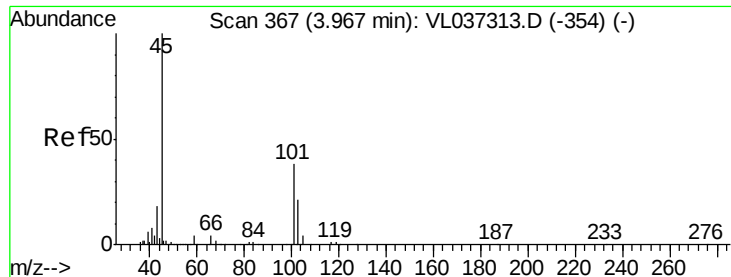
54 13.7 66.1 99.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.910 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.02 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

Instrument :

MSVOA_L

ClientSampleId :

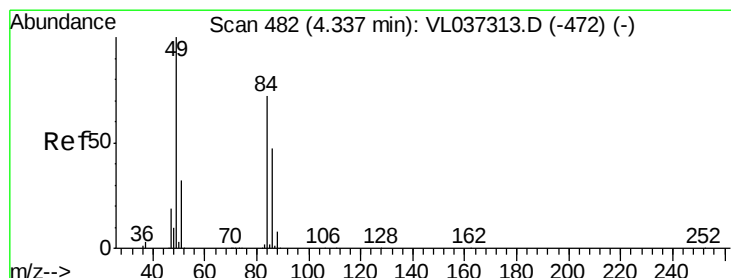
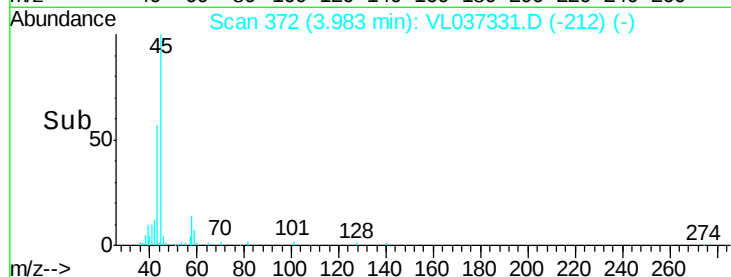
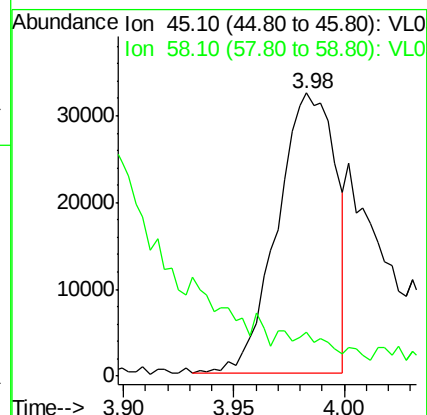
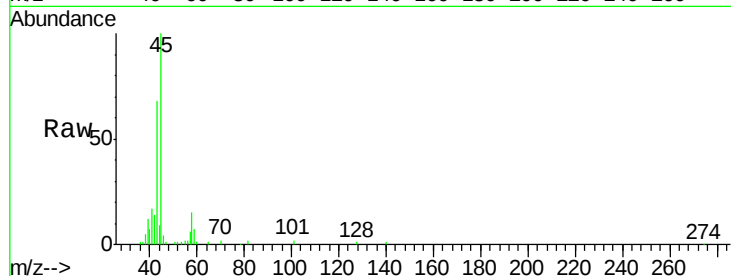
SVP-3DL

Tgt Ion: 45 Resp: 58996

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 0.909 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.01 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

Tgt Ion: 84 Resp: 88182

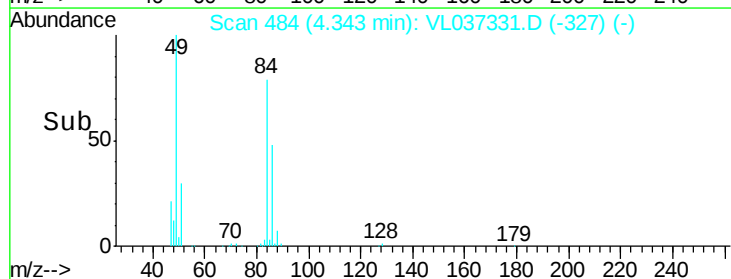
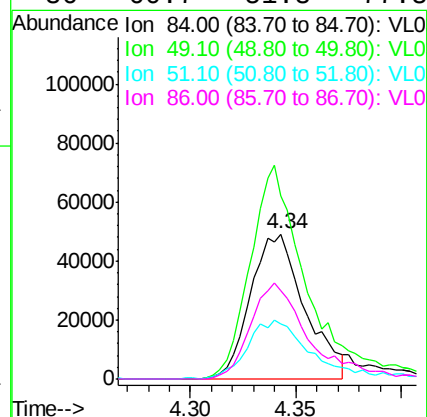
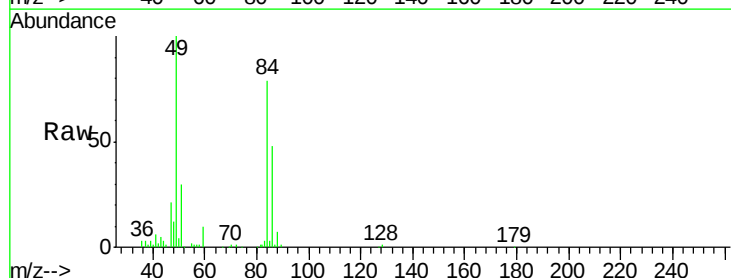
Ion Ratio Lower Upper

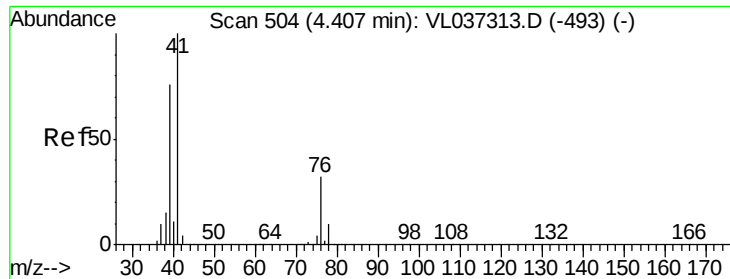
84 100

49 126.4 110.4 165.6

51 37.3 35.8 53.6

86 60.7 51.8 77.8

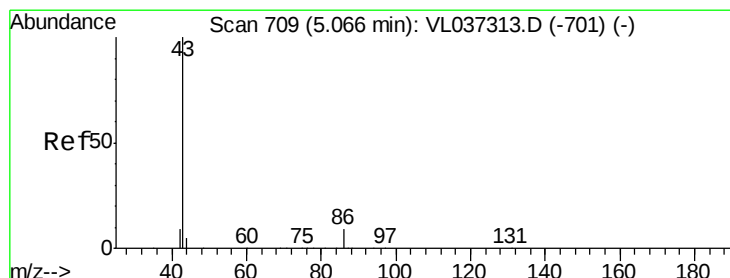
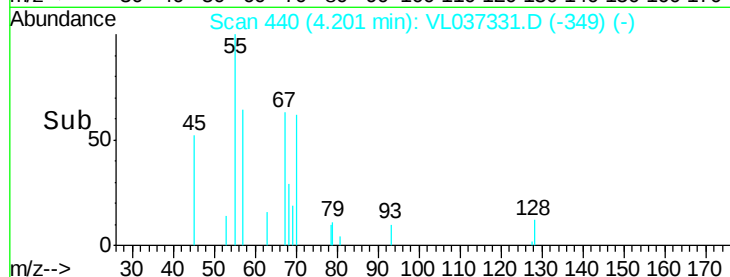
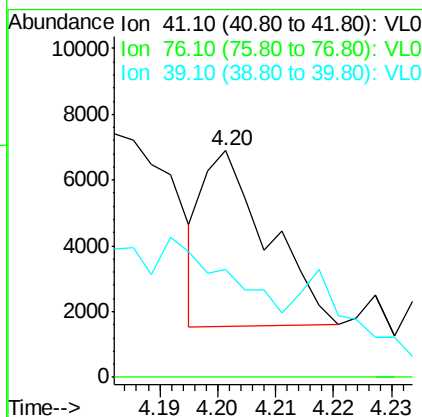
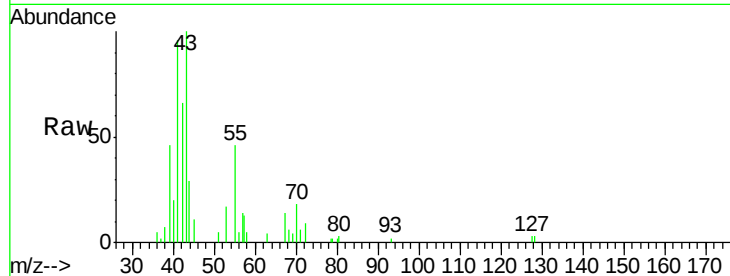




#21
 Allyl Chloride
 Concen: 0.044 ppbv
 RT: 4.20 min Scan# 440
 Delta R.T. -0.21 min
 Lab File: VL037331.D
 Acq: 5 Aug 2021 6:39

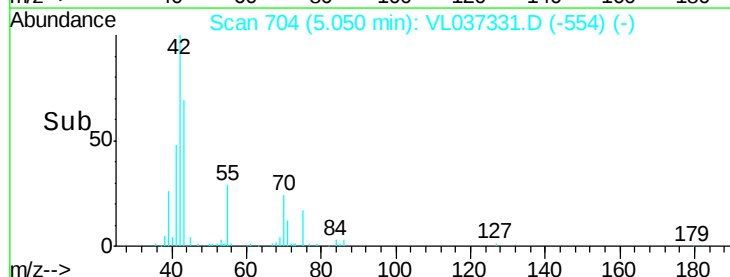
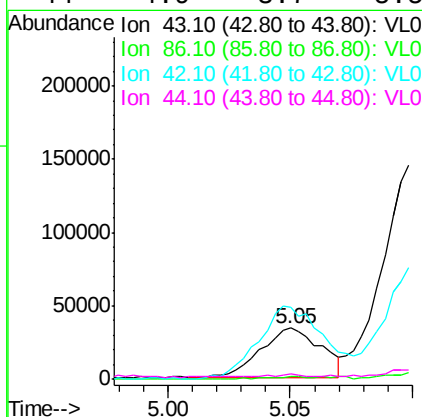
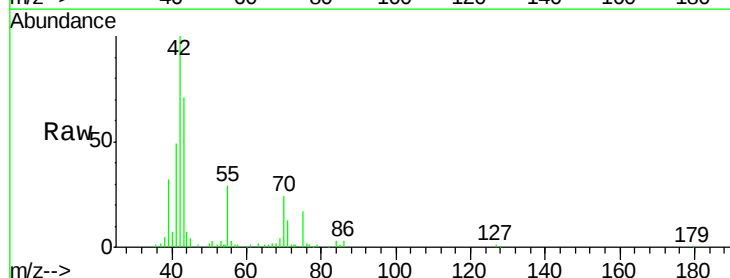
Instrument :
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 SVP-3DL

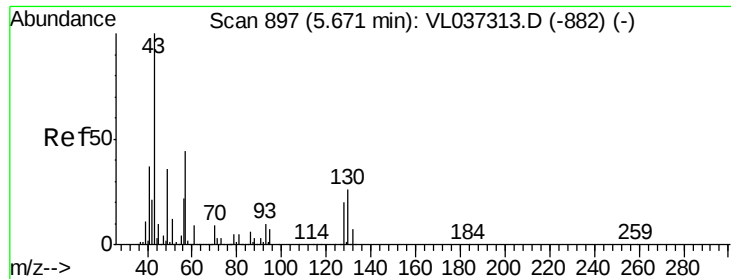
Tgt Ion: 41 Resp: 4135
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.7 38.5#
 39 156.7 59.0 88.4#



#23
 Vinyl Acetate
 Concen: 0.331 ppbv
 RT: 5.05 min Scan# 704
 Delta R.T. -0.02 min
 Lab File: VL037331.D
 Acq: 5 Aug 2021 6:39

Tgt Ion: 43 Resp: 58489
 Ion Ratio Lower Upper
 43 100
 86 4.8 6.2 9.2#
 42 142.2 7.7 11.5#
 44 4.9 3.7 5.5

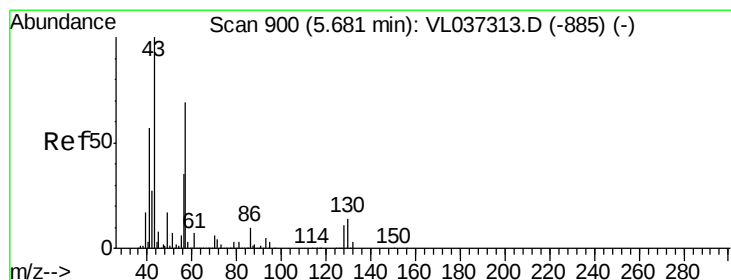
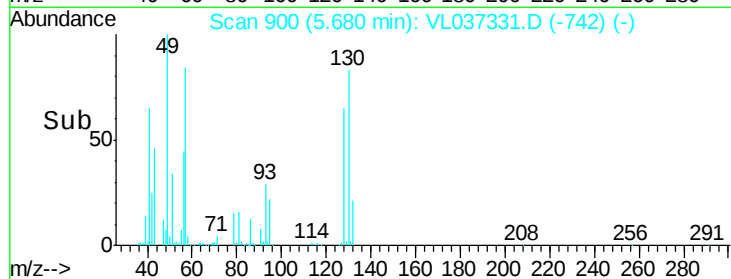
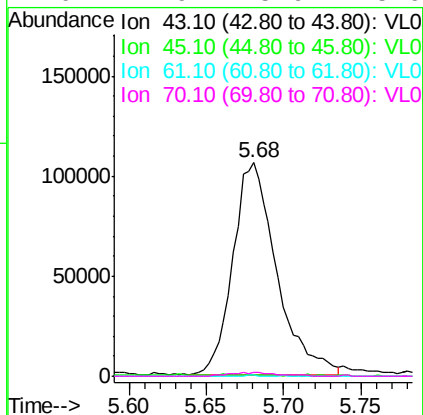
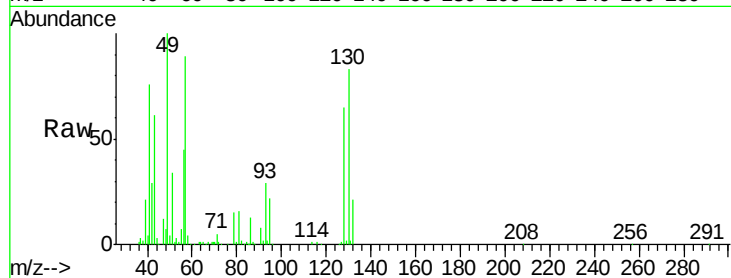




#25
Ethyl Acetate
Concen: 0.682 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL037331.D
Acq: 5 Aug 2021 6:39

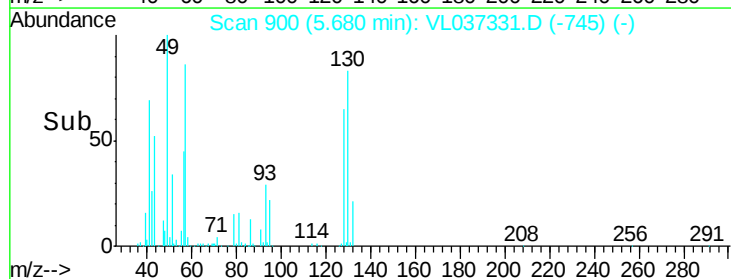
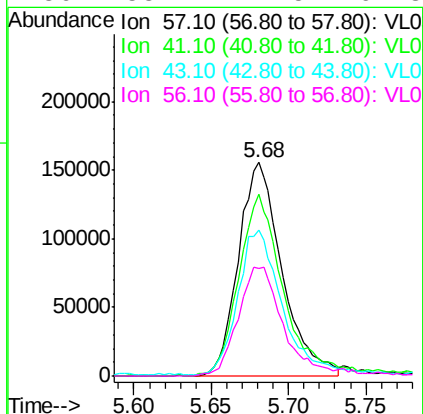
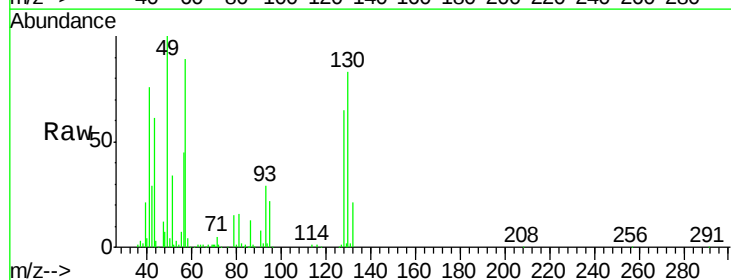
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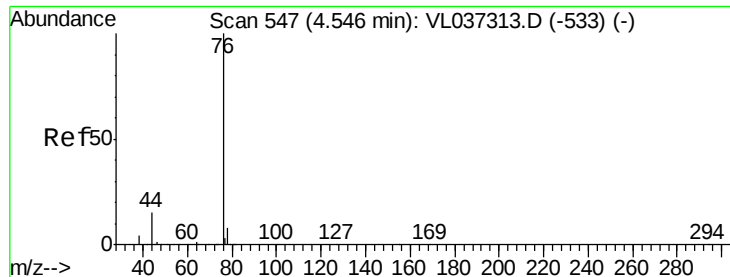
Tgt Ion:	43	Resp:	207724
Ion	Ratio	Lower	Upper
43	100		
45	0.6	7.8	11.8#
61	0.2	8.6	12.8#
70	1.9	5.9	8.9#



#26
Hexane
Concen: 1.788 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037331.D
Acq: 5 Aug 2021 6:39

Tgt Ion:	57	Resp:	304833
Ion	Ratio	Lower	Upper
57	100		
41	88.6	67.5	101.3
43	71.8	163.0	244.4#
56	55.4	41.5	62.3

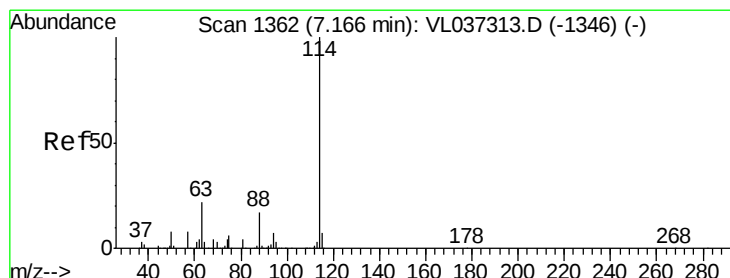
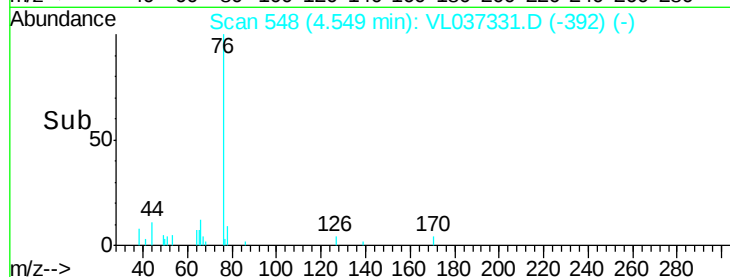
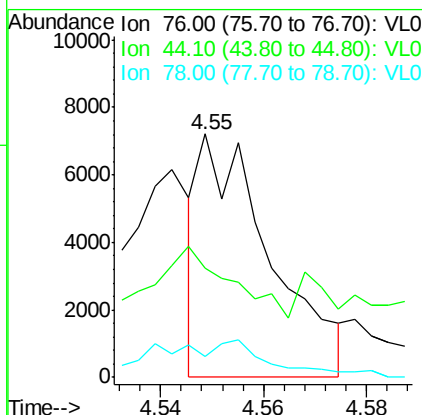
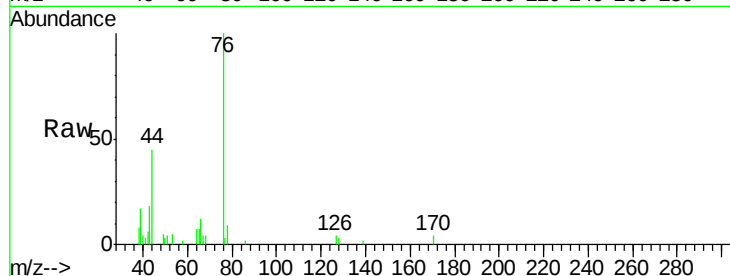




#27
Carbon Disulfide
Concen: 0.049 ppbv
RT: 4.55 min Scan# 548
Delta R.T. 0.00 min
Lab File: VL037331.D
Acq: 5 Aug 2021 6:39

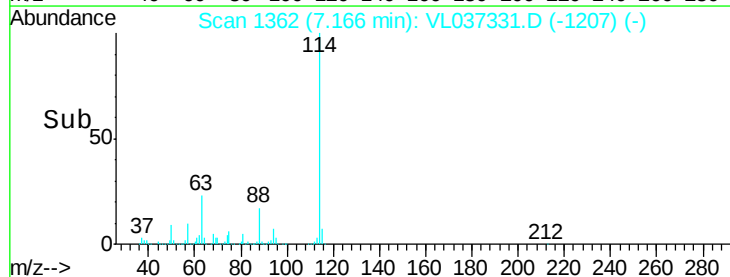
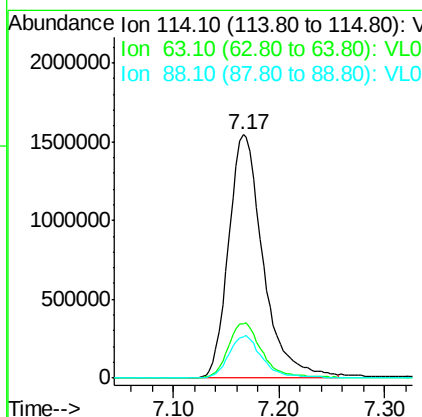
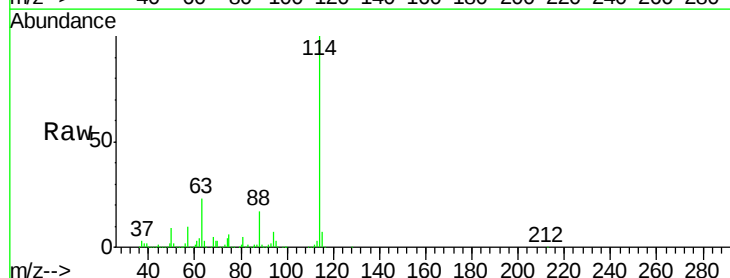
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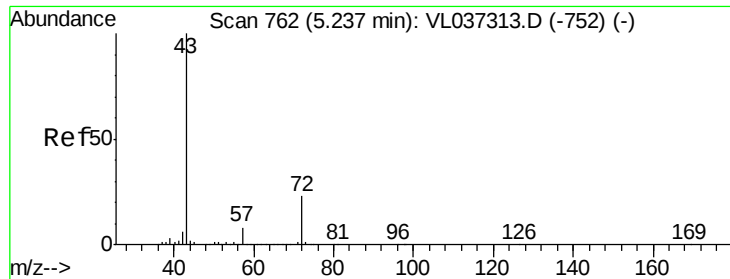
Tgt Ion: 76 Resp: 6865
Ion Ratio Lower Upper
76 100
44 59.3 13.1 19.7#
78 25.1 8.0 12.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VL037331.D
Acq: 5 Aug 2021 6:39

Tgt Ion: 114 Resp: 3506250
Ion Ratio Lower Upper
114 100
63 22.7 18.1 27.1
88 17.4 13.8 20.8

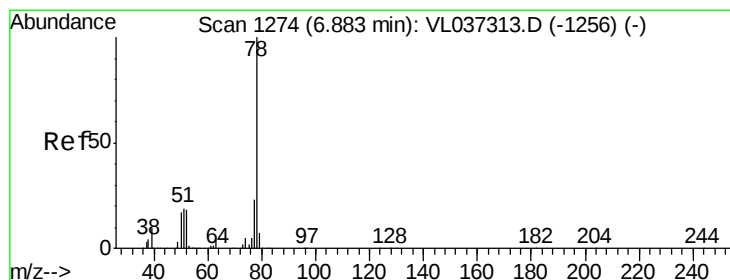
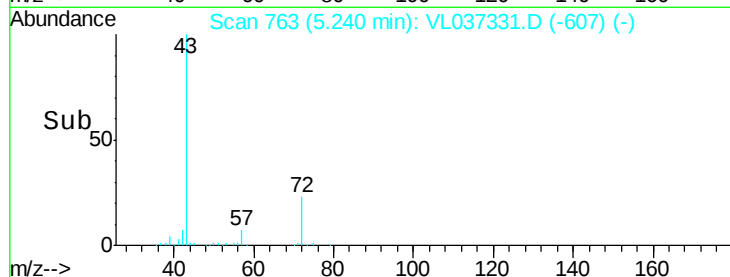
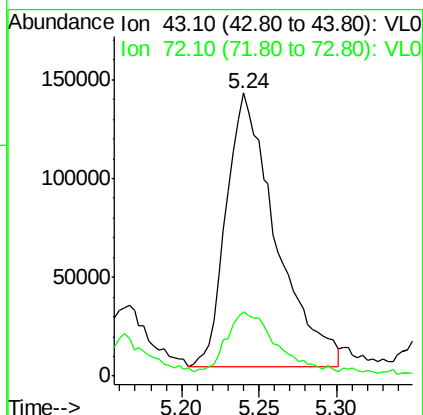
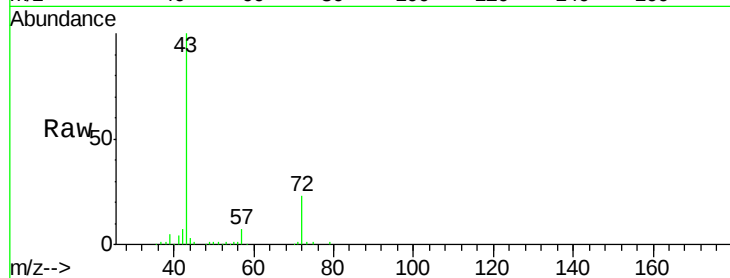




#34
2-Butanone
Concen: 2.543 ppbv
RT: 5.24 min Scan# 763
Delta R.T. 0.00 min
Lab File: VL037331.D
Acq: 5 Aug 2021 6:39

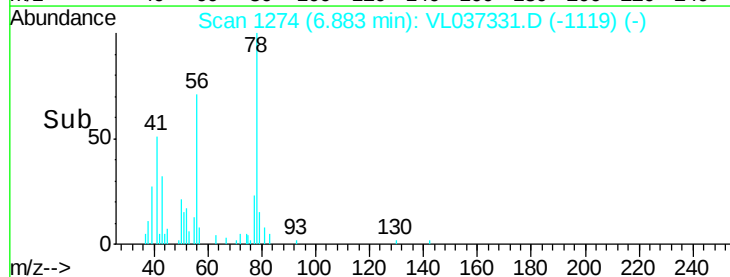
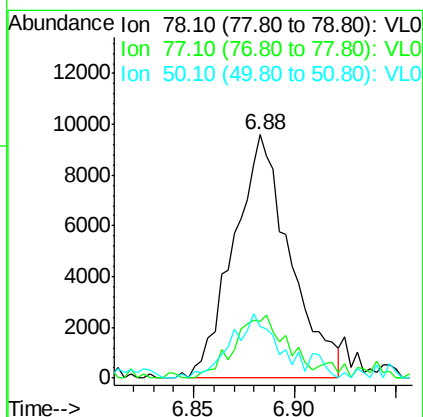
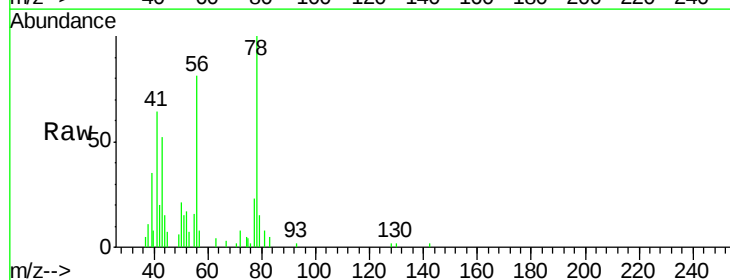
Instrument :
MSVOA_L
ClientSampleId :
SVP-3DL

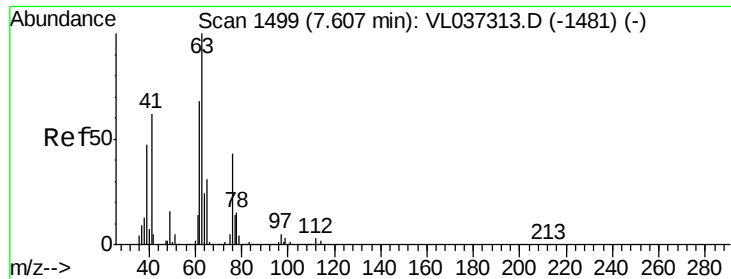
Tgt Ion: 43 Resp: 309395
Ion Ratio Lower Upper
43 100
72 25.7 20.3 30.5



#36
Benzene
Concen: 0.059 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.00 min
Lab File: VL037331.D
Acq: 5 Aug 2021 6:39

Tgt Ion: 78 Resp: 18704
Ion Ratio Lower Upper
78 100
77 23.3 18.7 28.1
50 20.9 13.7 20.5#





#39

1,2-Dichloropropane

Concen: 0.092 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.38 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

Instrument :

MSVOA_L

ClientSampleId :

SVP-3DL

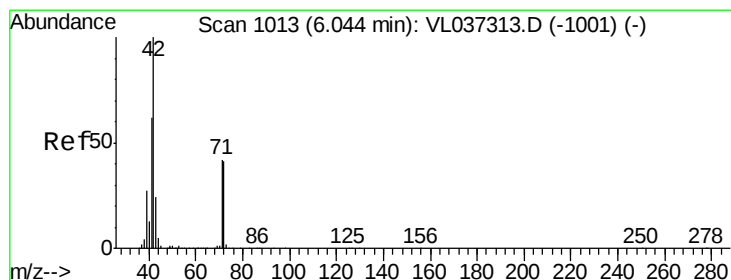
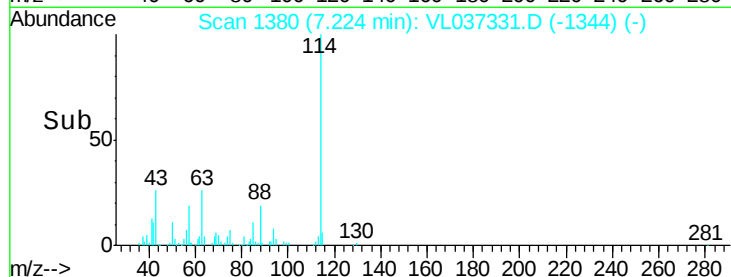
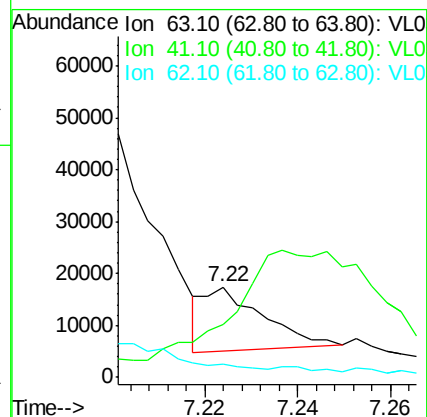
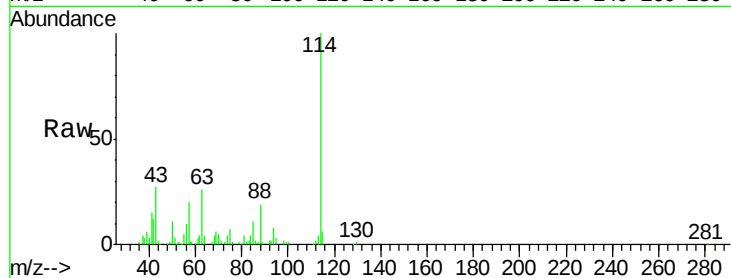
Tgt Ion: 63 Resp: 10858

Ion Ratio Lower Upper

63 100

41 30.4 49.2 73.8#

62 12.0 54.2 81.4#



#41

Tetrahydrofuran

Concen: 8.509 ppbv

RT: 6.04 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

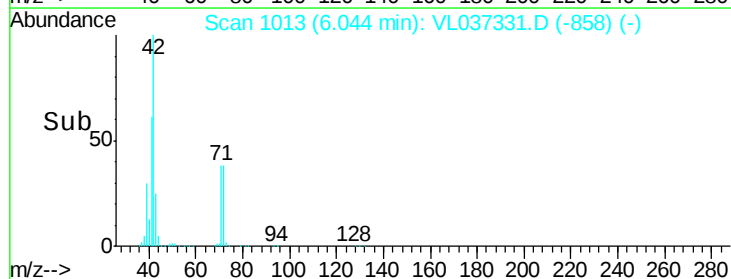
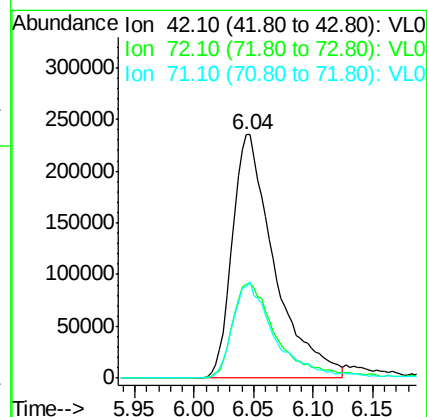
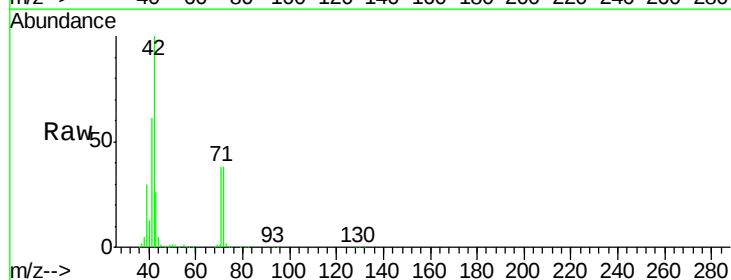
Tgt Ion: 42 Resp: 575745

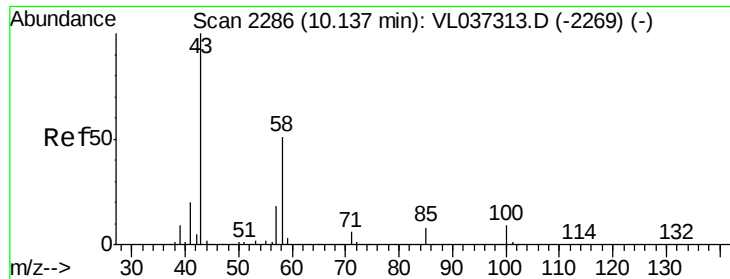
Ion Ratio Lower Upper

42 100

72 43.0 33.6 50.4

71 40.6 33.0 49.4





#51

2-Hexanone

Concen: 0.126 ppbv

RT: 10.15 min Scan# 2290

Delta R.T. 0.01 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

Instrument :

MSVOA_L

ClientSampled :

SVP-3DL

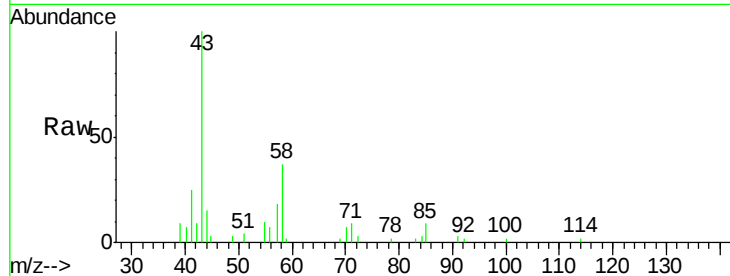
Tgt Ion: 43 Resp: 10686

Ion Ratio Lower Upper

43 100

58 105.8 40.9 61.3#

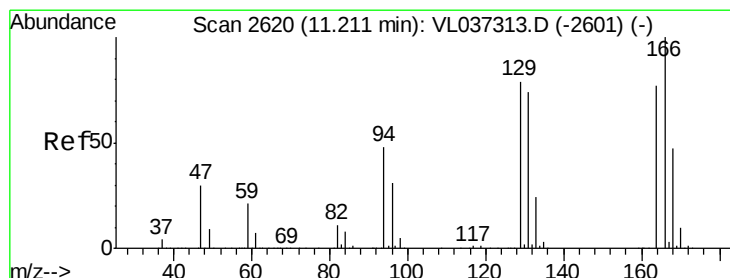
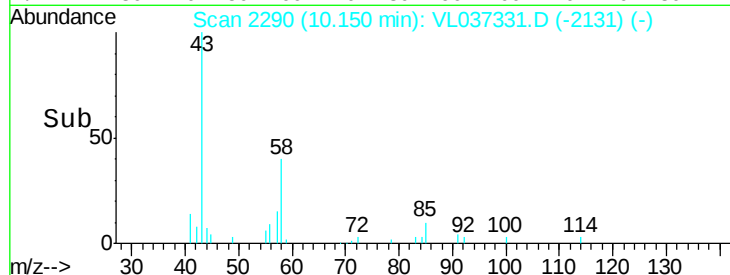
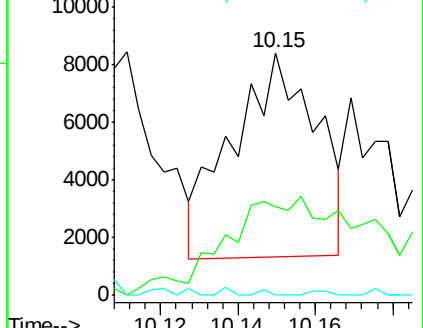
98 0.0 0.1 0.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.392 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.00 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

Tgt Ion: 164 Resp: 53322

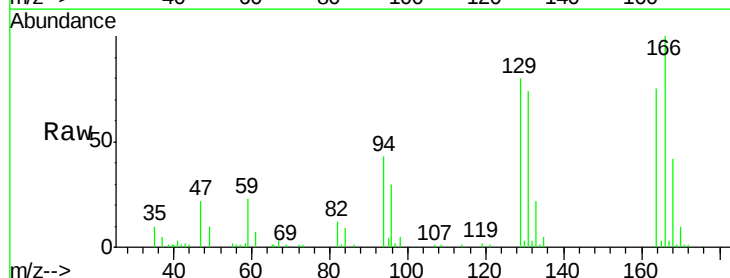
Ion Ratio Lower Upper

164 100

166 132.8 103.4 155.2

129 104.2 82.2 123.2

131 98.7 76.6 114.8

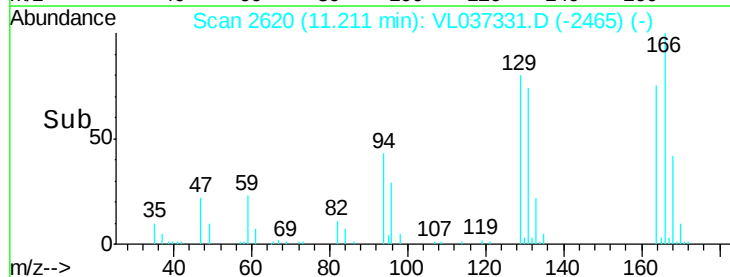
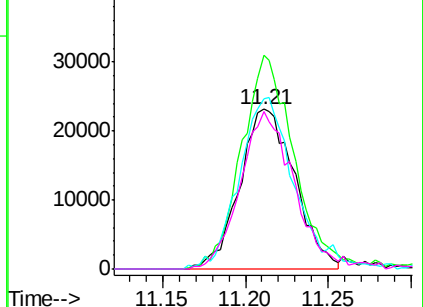


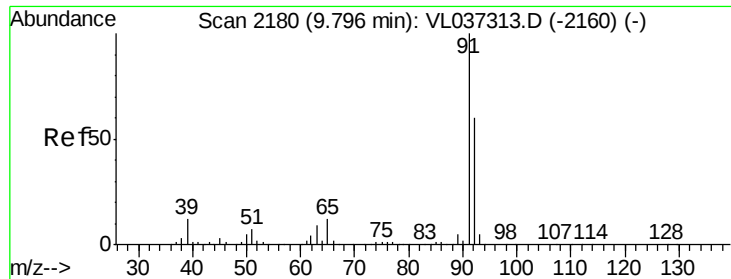
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.086 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

Instrument :

MSVOA_L

ClientSampleId :

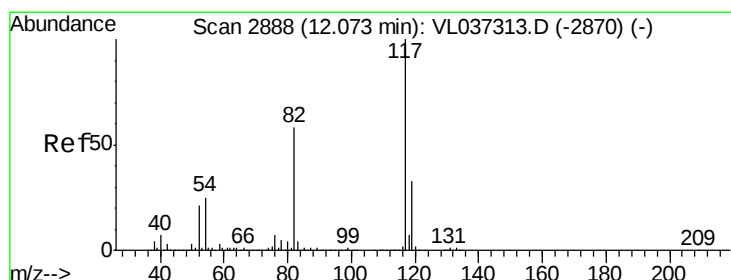
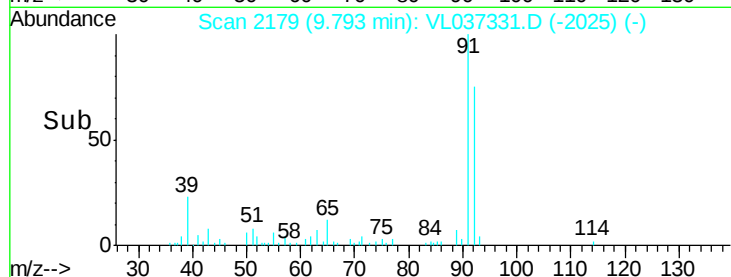
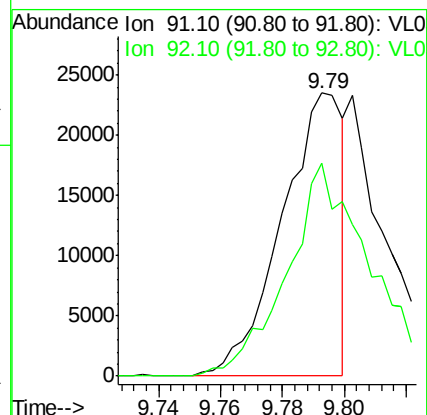
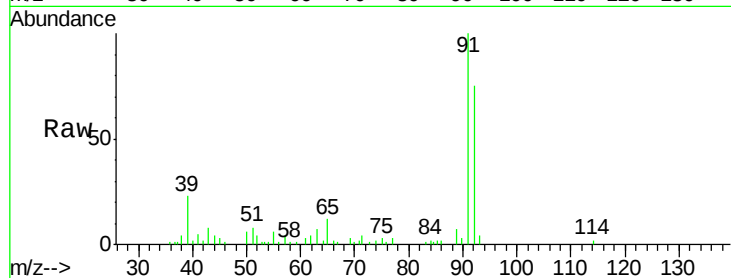
SVP-3DL

Tgt Ion: 91 Resp: 31970

Ion Ratio Lower Upper

91 100

92 111.1 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. 0.00 min

Lab File: VL037331.D

Acq: 5 Aug 2021 6:39

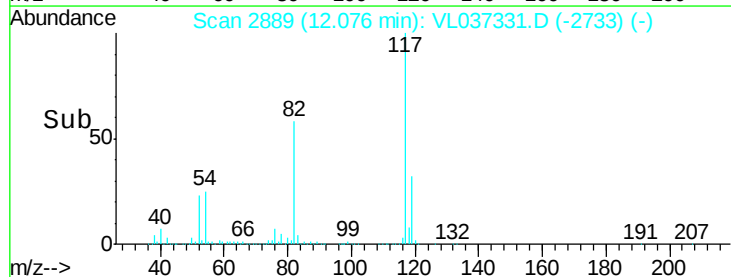
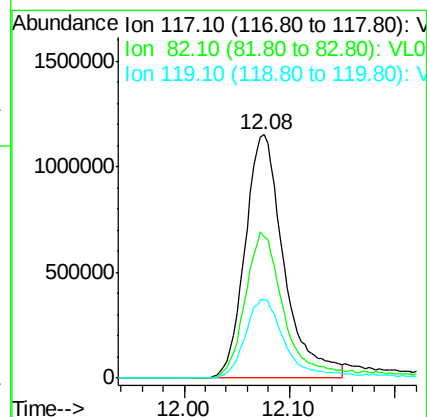
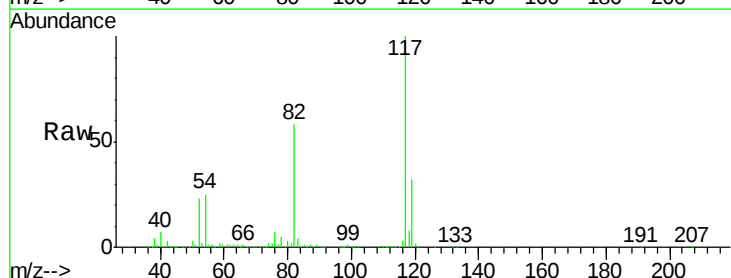
Tgt Ion: 117 Resp: 2959038

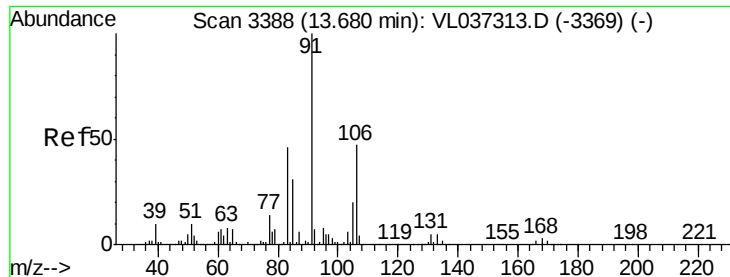
Ion Ratio Lower Upper

117 100

82 62.6 50.3 75.5

119 36.4 48.2 72.2#

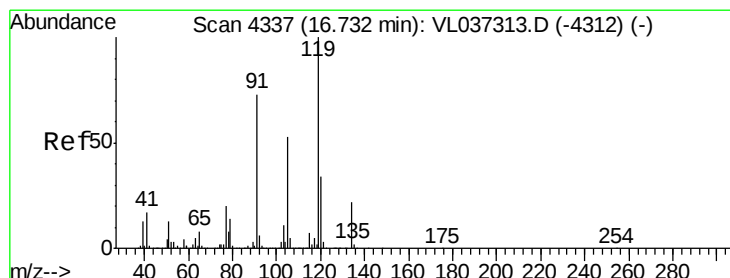
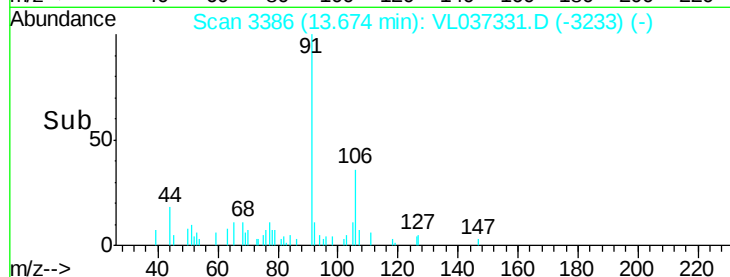
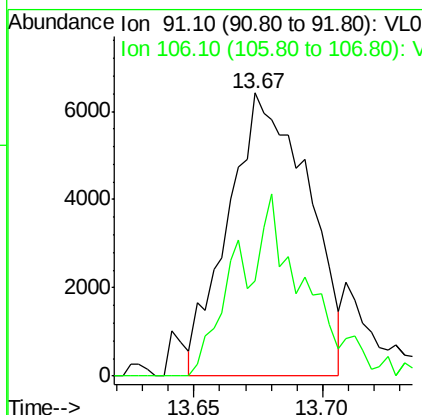
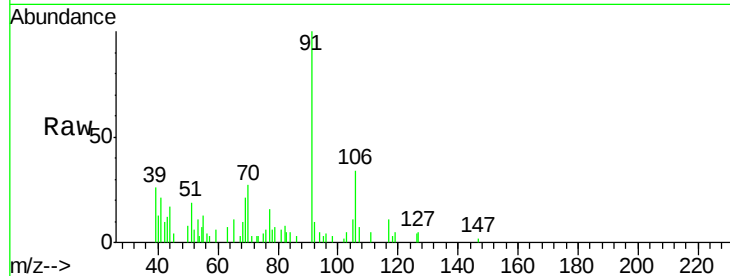




#60
o-Xylene
Concen: 0.042 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL037331.D
Acq: 5 Aug 2021 6:39

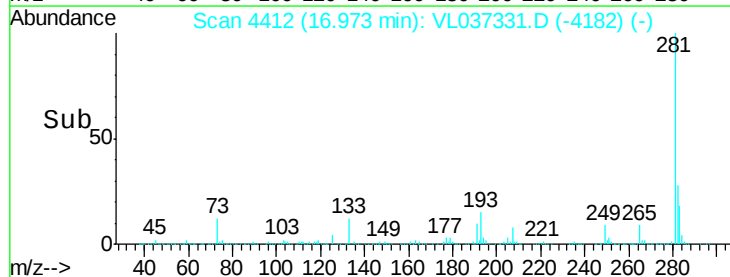
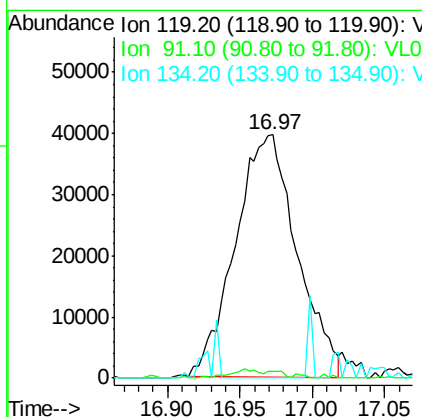
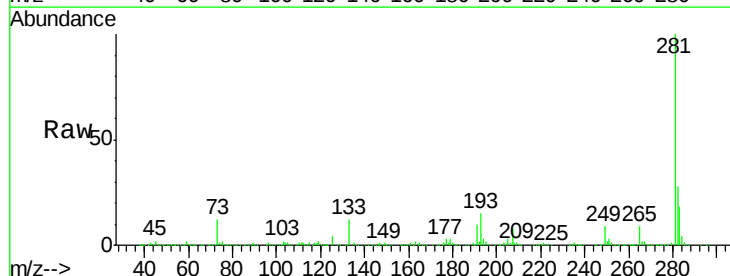
Instrument :
MSVOA_L
ClientSampleId :
SVP-3DL

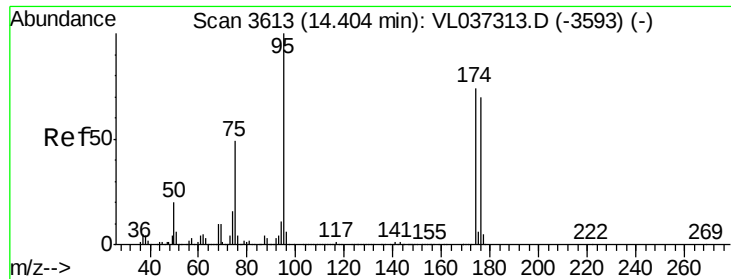
Tgt Ion: 91 Resp: 13848
Ion Ratio Lower Upper
91 100
106 56.6 26.3 78.8



#65
tert-Butylbenzene
Concen: 0.264 ppbv
RT: 16.97 min Scan# 4412
Delta R.T. 0.24 min
Lab File: VL037331.D
Acq: 5 Aug 2021 6:39

Tgt Ion: 119 Resp: 117696
Ion Ratio Lower Upper
119 100
91 3.0 58.6 88.0#
134 3.6 16.5 24.7#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.759 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.00 min
 Lab File: VL037331.D
 Acq: 5 Aug 2021 6:39

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3DL

Tgt Ion: 95 Resp: 1972615
 Ion Ratio Lower Upper
 95 100
 174 86.0 66.9 100.3
 175 6.2 5.1 7.7

