

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060322\
 Data File : VL039167.D
 Acq On : 4 Jun 2022 00:32
 Operator : SY/AP
 Sample : N3106-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Quant Time: Jun 04 02:22:05 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1293601	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3441502	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3088942	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2532867	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

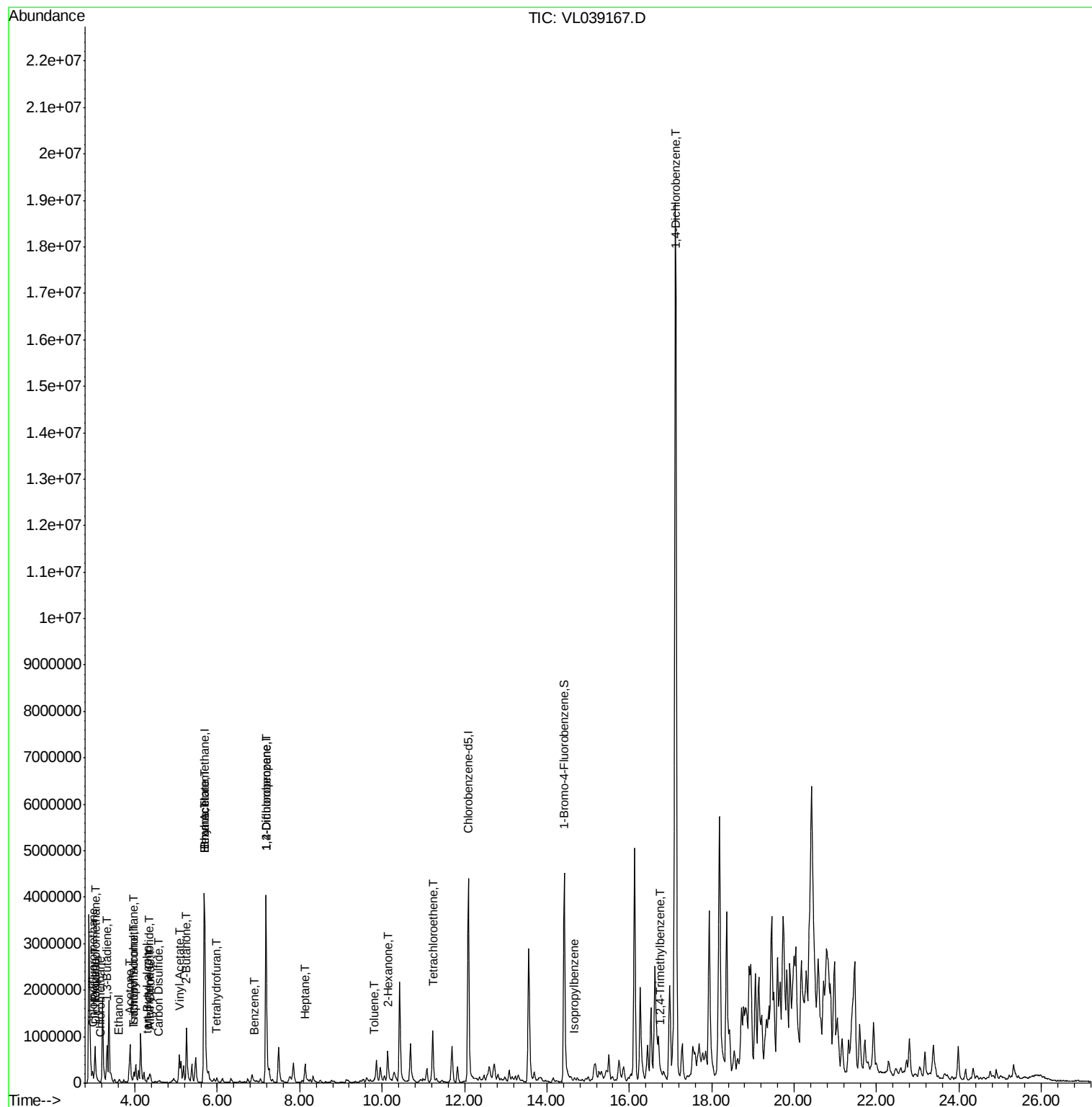
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	51017	0.225	ppbv	97
3) Chlorodifluoromethane	2.98	51	208354	1.266	ppbv #	64
4) Chloromethane	3.16	50	3886	0.046	ppbv #	59
9) Propene	3.02	41	279480	3.894	ppbv #	79
10) Heptane	8.13	43	196830	1.176	ppbv	97
11) Trichlorofluoromethane	3.96	101	43082	0.209	ppbv	95
13) Ethanol	3.61	45	31770	8.117	ppbv #	100
15) Acetone	3.86	43	339793	2.522	ppbv #	47
16) 1,3-Butadiene	3.32	39	230399	3.181	ppbv #	15
17) tert-Butyl alcohol	4.30	59	22115	0.212	ppbv #	70
19) Isopropyl Alcohol	3.97	45	246755	3.904	ppbv #	1
20) Methylene Chloride	4.35	84	71322	1.256	ppbv	96
21) Allyl Chloride	4.38	41	8910	0.098	ppbv #	1
23) Vinyl Acetate	5.08	43	695163	6.235	ppbv #	92
25) Ethyl Acetate	5.70	43	786015	2.588	ppbv #	78
26) Hexane	5.70	57	1089687	8.164	ppbv #	31
27) Carbon Disulfide	4.56	76	29388	0.212	ppbv #	55
34) 2-Butanone	5.25	43	1619981	8.664	ppbv	100
36) Benzene	6.90	78	12097	0.043	ppbv #	87
39) 1,2-Dichloropropane	7.18	63	835165	7.515	ppbv #	25
41) Tetrahydrofuran	6.00	42	7694	0.068	ppbv #	43
51) 2-Hexanone	10.14	43	607298	2.789	ppbv #	99
52) Tetrachloroethene	11.23	164	297809	2.730	ppbv	95
53) Toluene	9.82	91	21715	0.067	ppbv #	21
62) Isopropylbenzene	14.67	105	34148	0.065	ppbv #	58
74) 1,2,4-Trimethylbenzene	16.76	105	90335	0.217	ppbv #	55
76) 1,4-Dichlorobenzene	17.14	146	8669	0.037	ppbv #	13

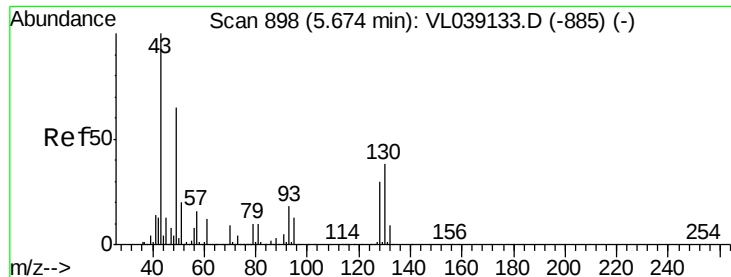
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV3

Acq: 4 Jun 2022 00:32

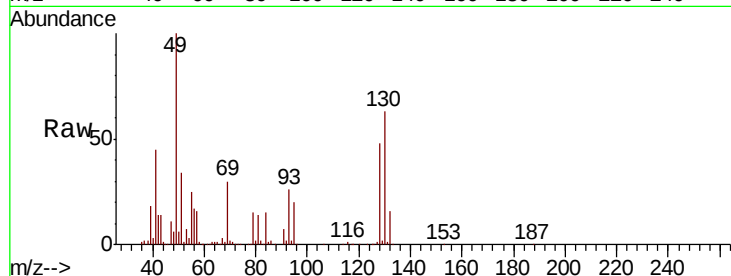
Tot Ion: 49 Resp: 1293601

Ion Ratio Lower Upper

49 100

128 50.7 24.7 74.1

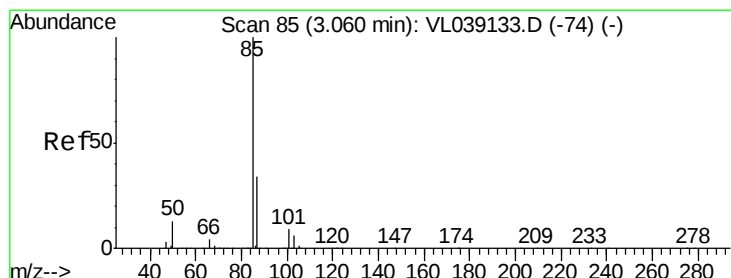
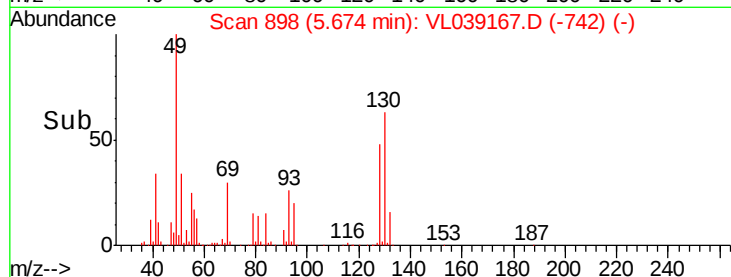
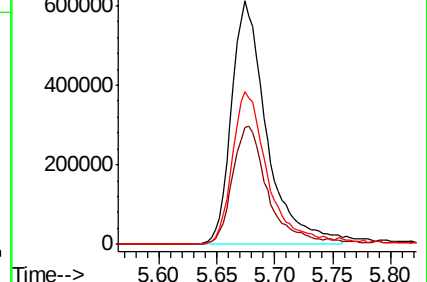
130 65.7 31.4 94.0



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



#2

Dichlorodifluoromethane

Concen: 0.225 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.00 min

Lab File: VL039167.D

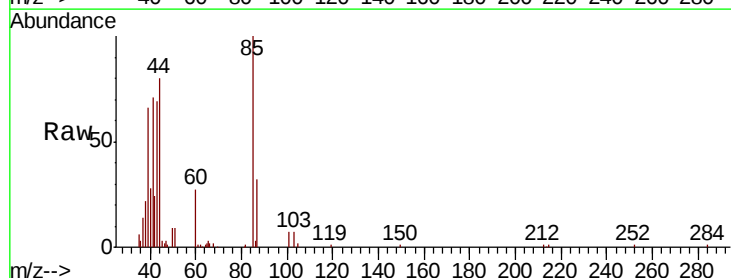
Acq: 4 Jun 2022 00:32

Tgt Ion: 85 Resp: 51017

Ion Ratio Lower Upper

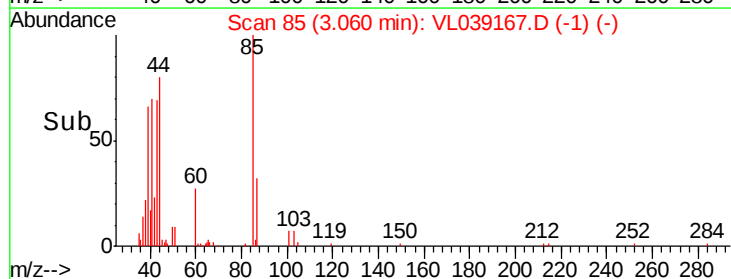
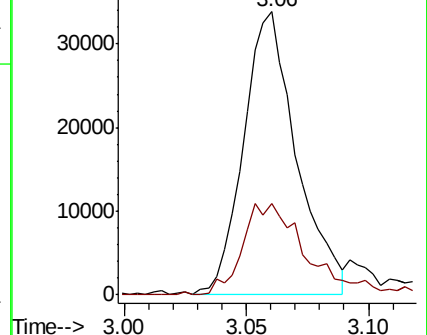
85 100

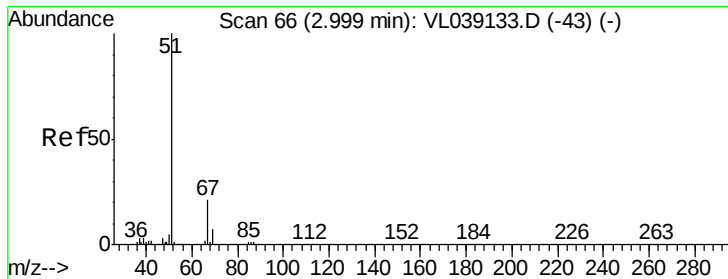
87 32.1 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.266 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV3

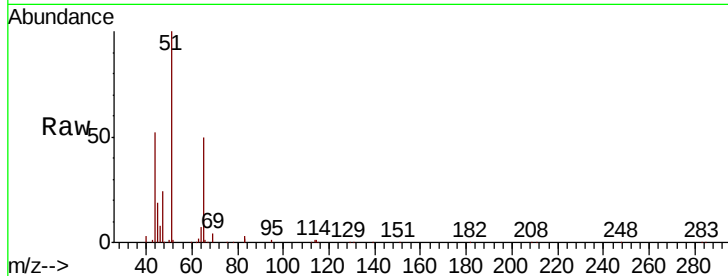
Acq: 4 Jun 2022 00:32

Tot Ion: 51 Resp: 208354

Ion Ratio Lower Upper

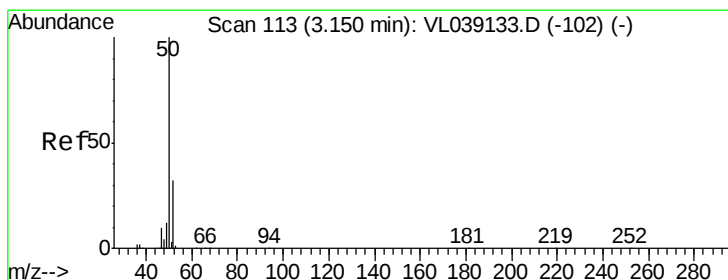
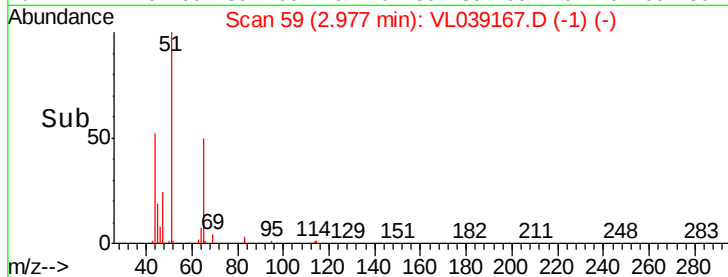
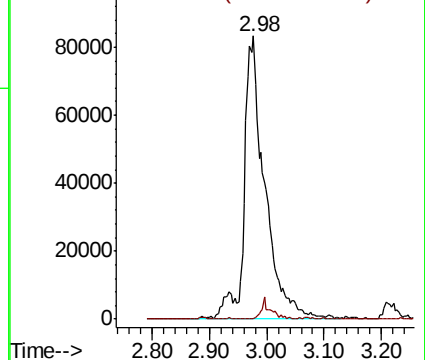
51 100

67 3.5 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.046 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL039167.D

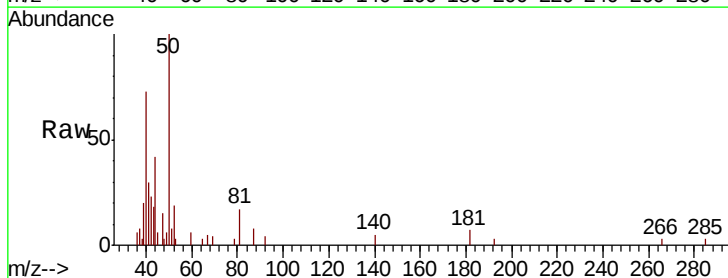
Acq: 4 Jun 2022 00:32

Tgt Ion: 50 Resp: 3886

Ion Ratio Lower Upper

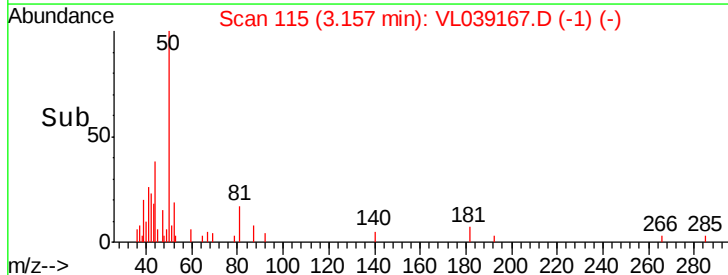
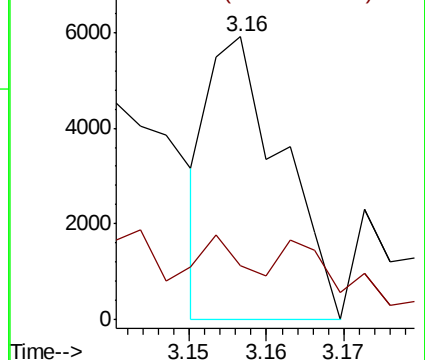
50 100

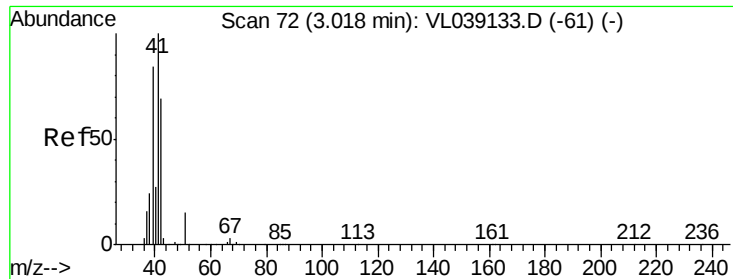
52 9.6 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 3.894 ppbv

RT: 3.02 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

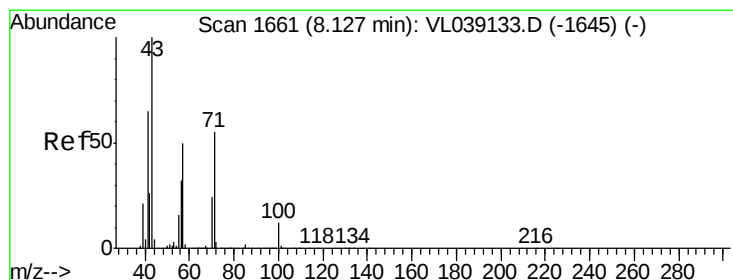
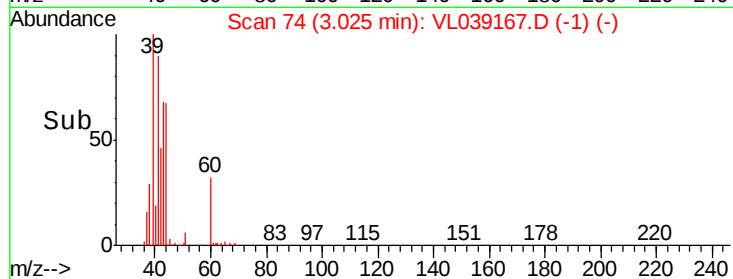
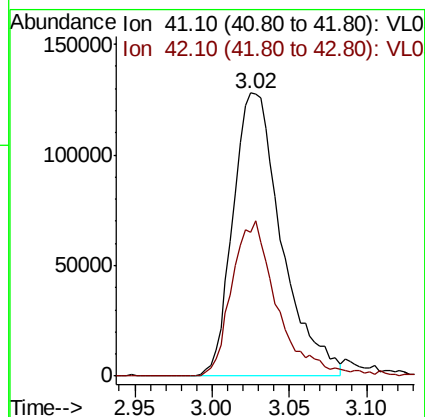
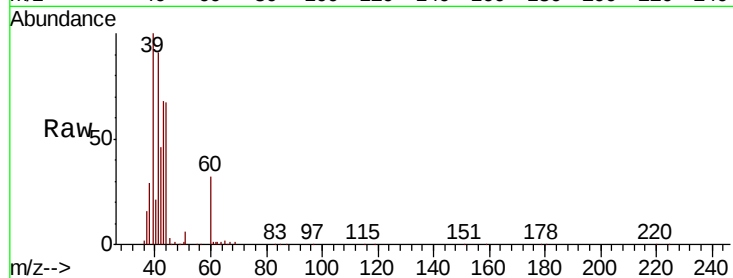
Acq: 4 Jun 2022 00:32 SV3

Tot Ion: 41 Resp: 279480

Ion Ratio Lower Upper

41 100

42 51.9 55.4 83.2#



#10

Heptane

Concen: 1.176 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL039167.D

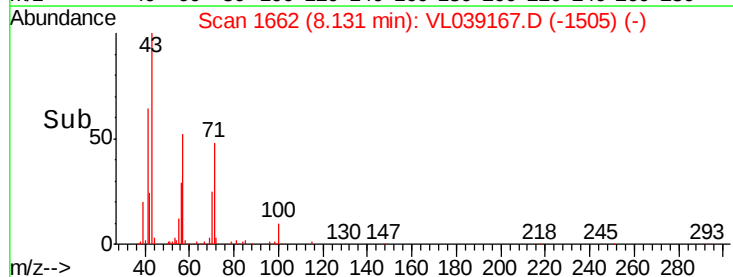
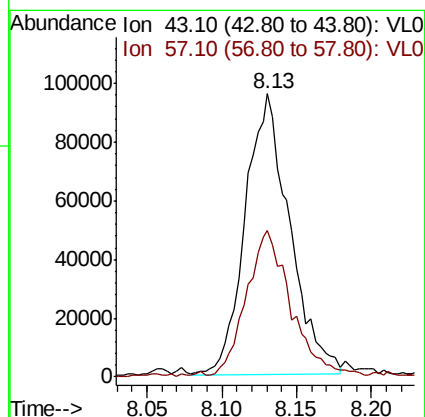
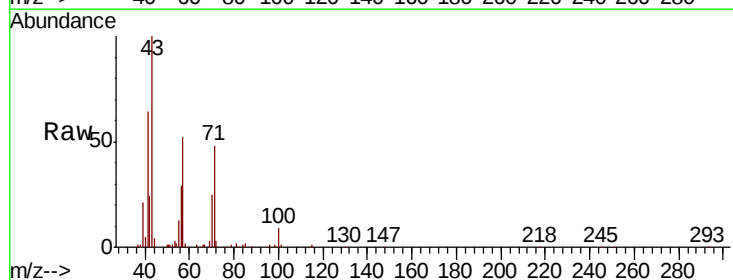
Acq: 4 Jun 2022 00:32

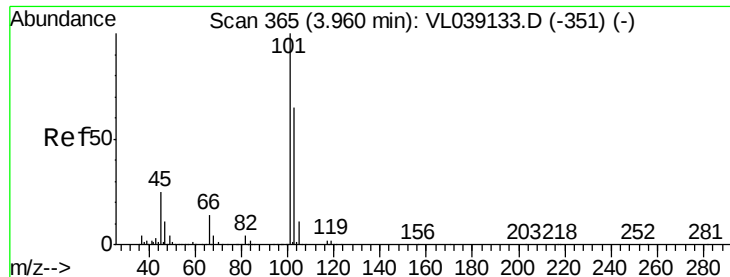
Tgt Ion: 43 Resp: 196830

Ion Ratio Lower Upper

43 100

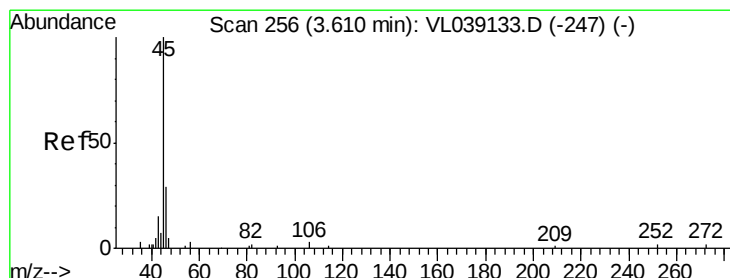
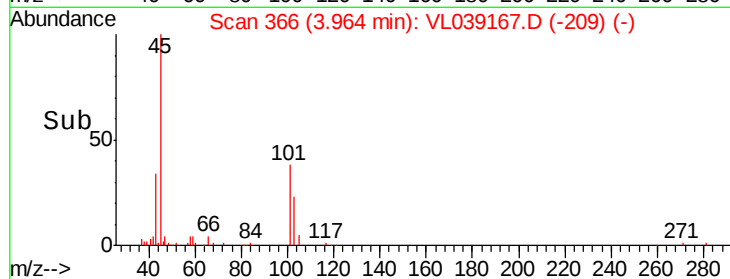
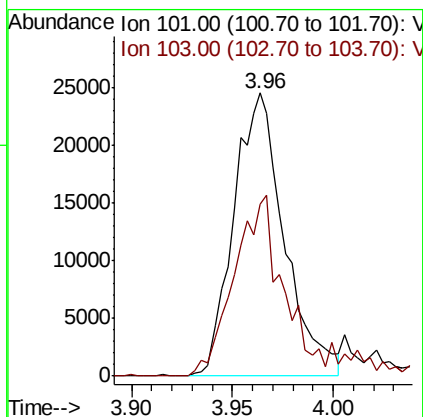
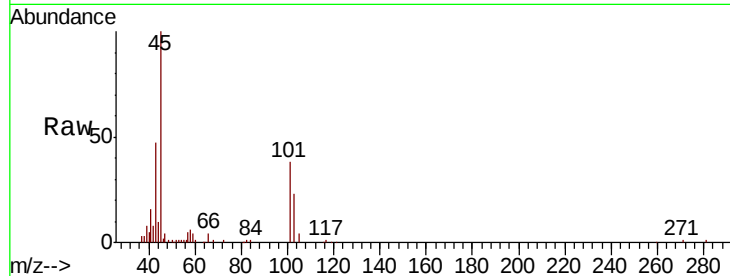
57 54.0 41.4 62.2





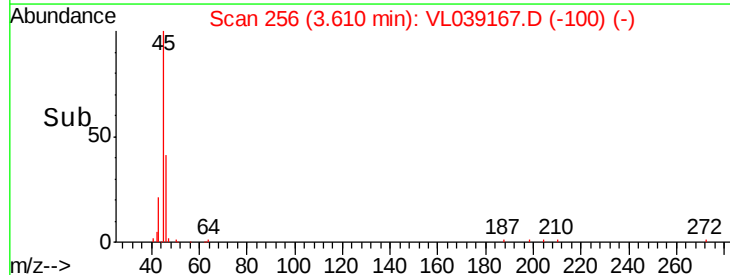
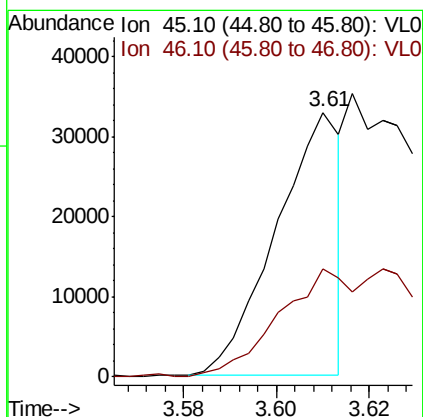
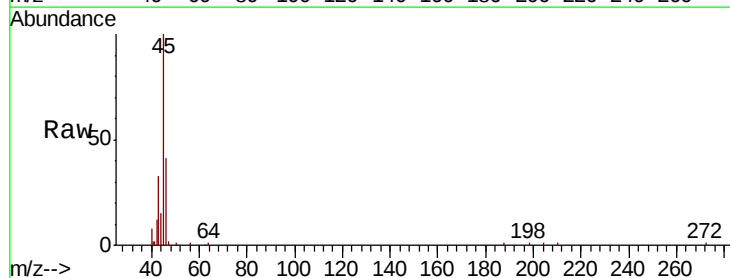
#11
 Trichlorofluoromethane
 Concen: 0.209 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : SV3
 Acq: 4 Jun 2022 00:32

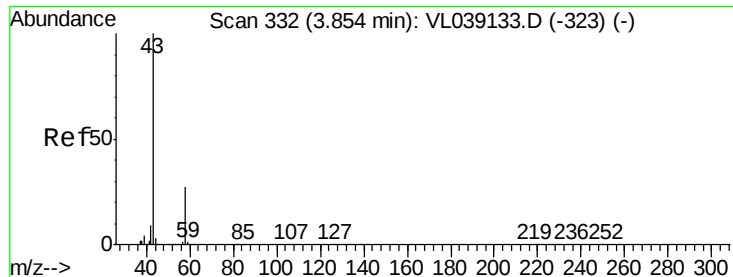
Tot Ion: 101 Resp: 43082
 Ion Ratio Lower Upper
 101 100
 103 60.6 51.7 77.5



#13
 Ethanol
 Concen: 8.117 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T.: 0.00 min
 Lab File: VL039167.D
 Acq: 4 Jun 2022 00:32

Tgt Ion: 45 Resp: 31770
 Ion Ratio Lower Upper
 45 100
 46 130.7 0.0 0.0#





#15

Acetone

Concen: 2.522 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

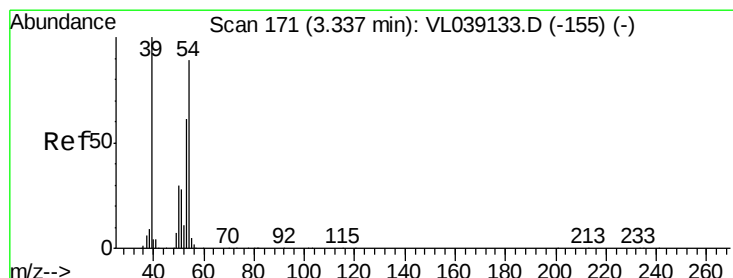
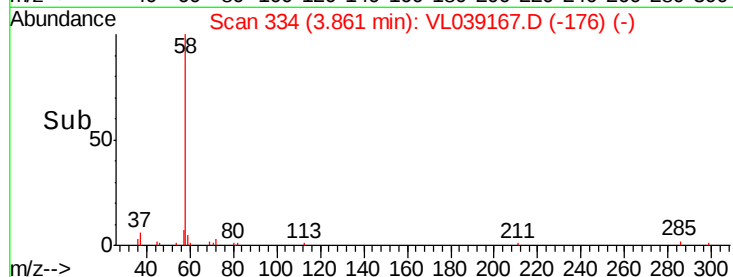
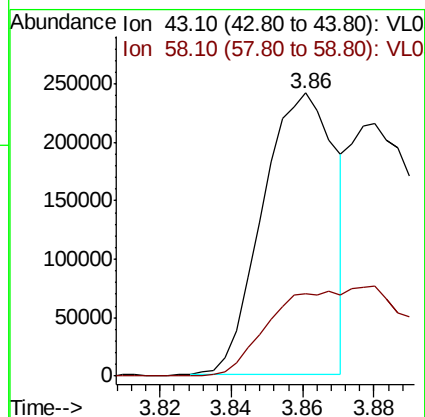
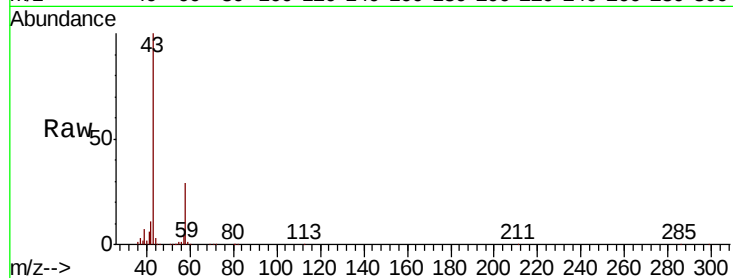
Acq: 4 Jun 2022 00:32 SV3

Tot Ion: 43 Resp: 339793

Ion Ratio Lower Upper

43 100

58 0.0 22.5 33.7#



#16

1,3-Butadiene

Concen: 3.181 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.02 min

Lab File: VL039167.D

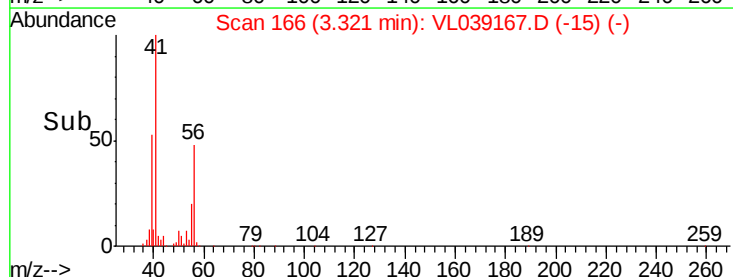
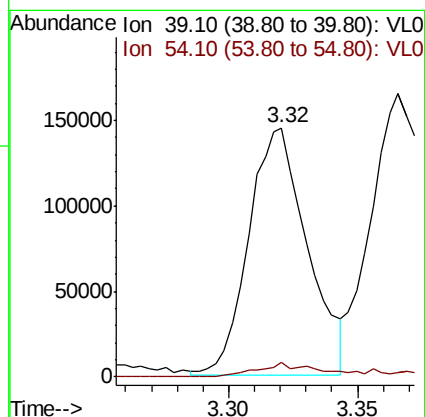
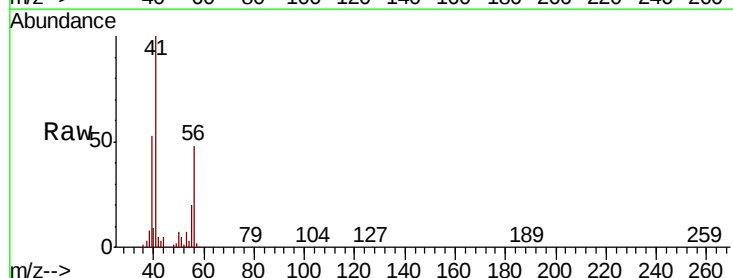
Acq: 4 Jun 2022 00:32

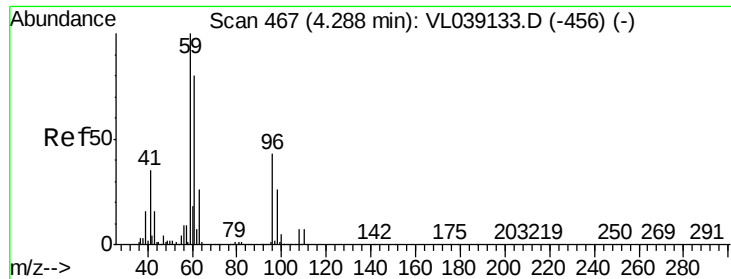
Tgt Ion: 39 Resp: 230399

Ion Ratio Lower Upper

39 100

54 5.6 65.8 98.6#





#17

tert-Butyl alcohol

Concen: 0.212 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

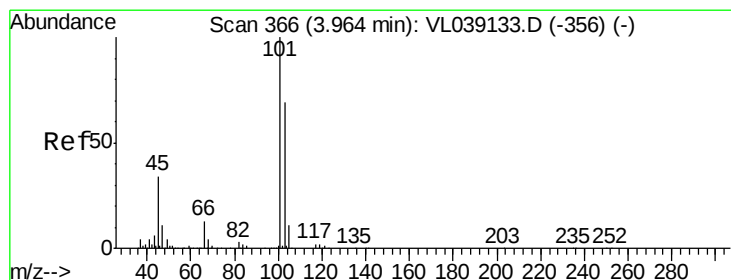
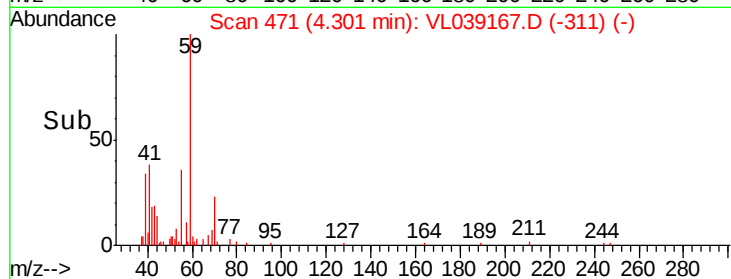
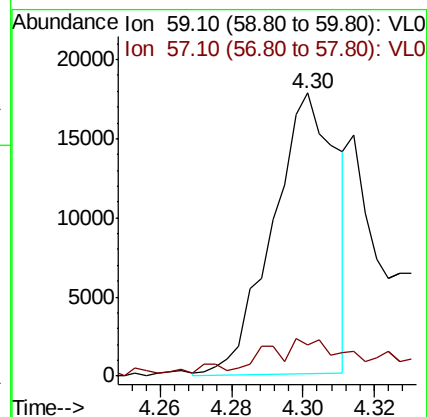
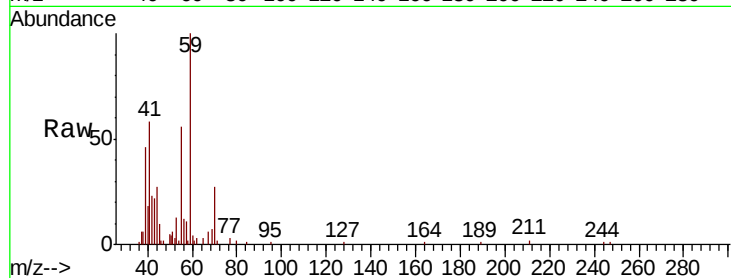
Acq: 4 Jun 2022 00:32 SV3

Tot Ion: 59 Resp: 22115

Ion Ratio Lower Upper

59 100

57 0.0 9.1 13.7#



#19

Isopropyl Alcohol

Concen: 3.904 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL039167.D

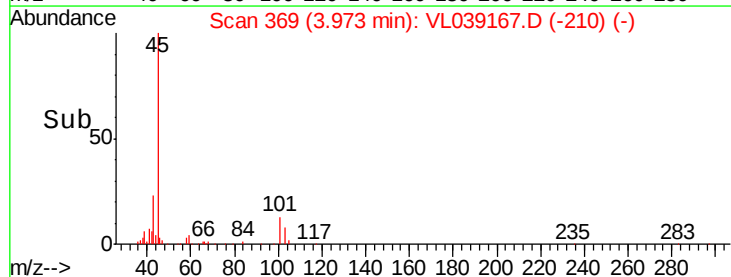
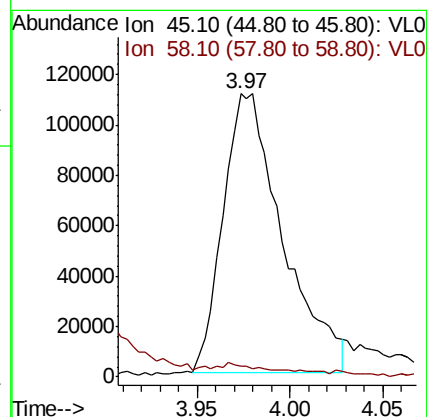
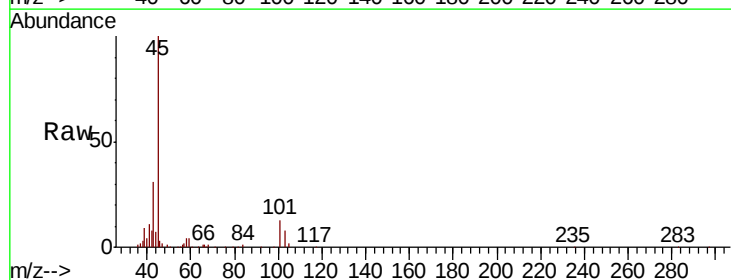
Acq: 4 Jun 2022 00:32

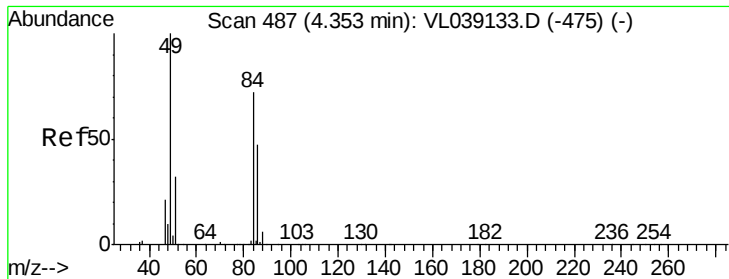
Tgt Ion: 45 Resp: 246755

Ion Ratio Lower Upper

45 100

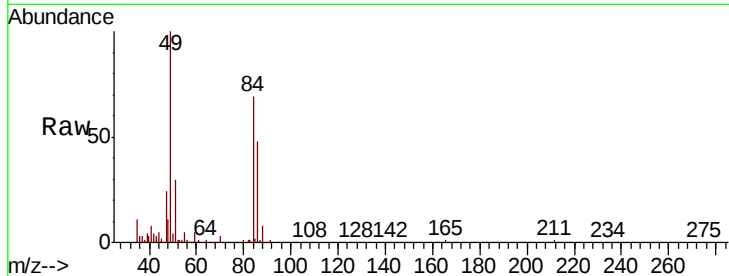
58 100.1 1.8 2.8#





#20
Methylene Chloride
Concen: 1.256 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 00:32

Tot Ion:	84	Resp:	71322
Ion	Ratio	Lower	Upper
84	100		
49	140.7	111.1	166.7
51	36.5	35.3	52.9
86	69.4	51.9	77.9



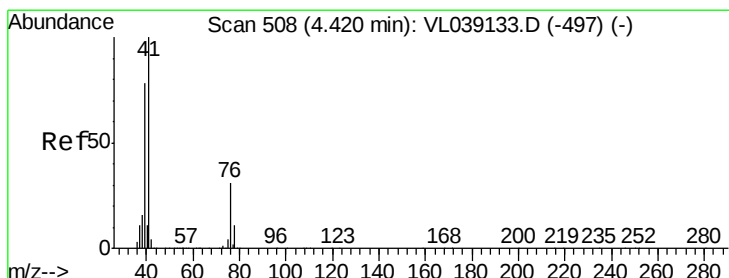
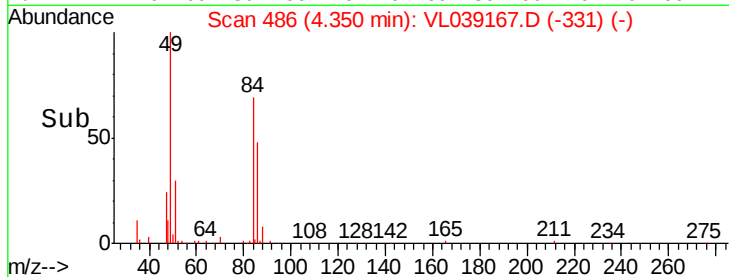
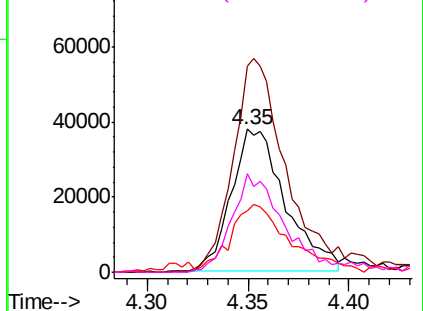
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

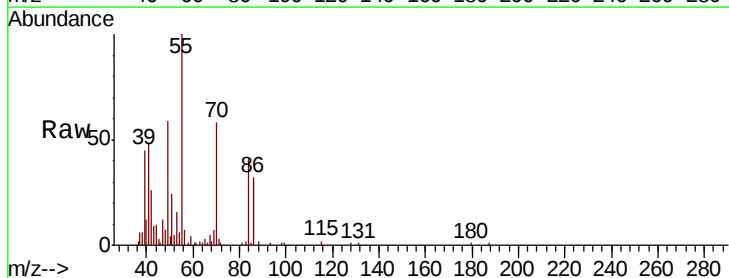
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.098 ppbv
RT: 4.38 min Scan# 494
Delta R.T. -0.04 min
Lab File: VL039167.D
Acq: 4 Jun 2022 00:32

Tgt Ion:	41	Resp:	8910
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.2#
39	242.9	62.2	93.2#

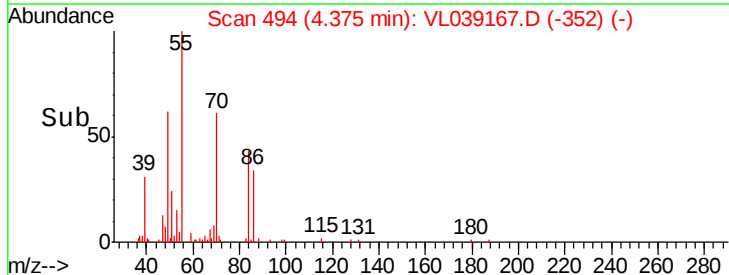
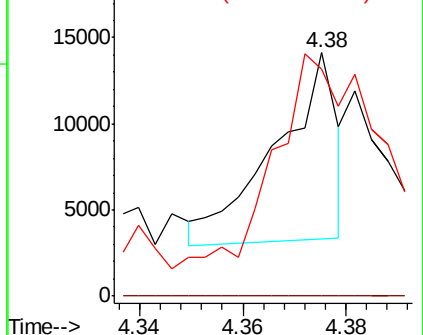


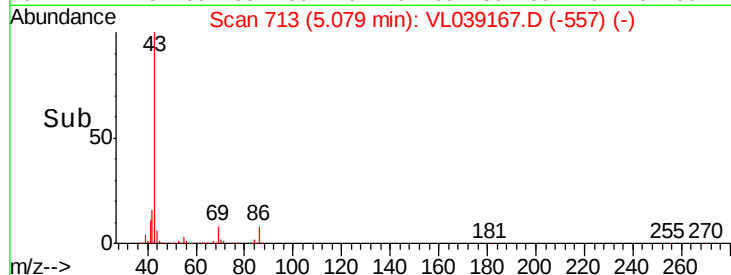
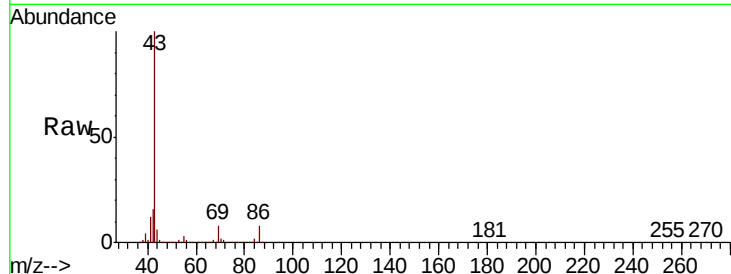
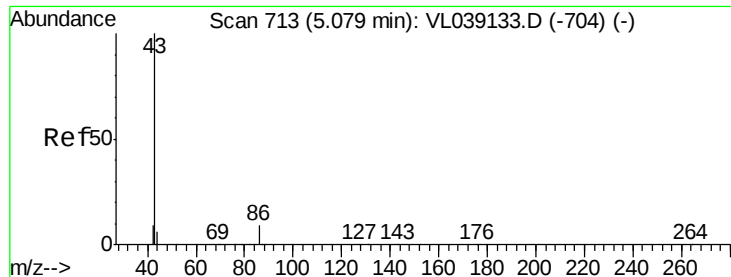
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

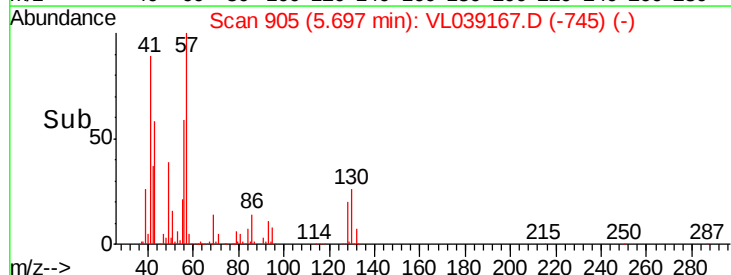
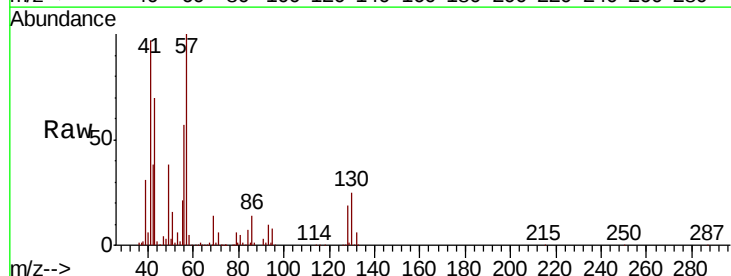
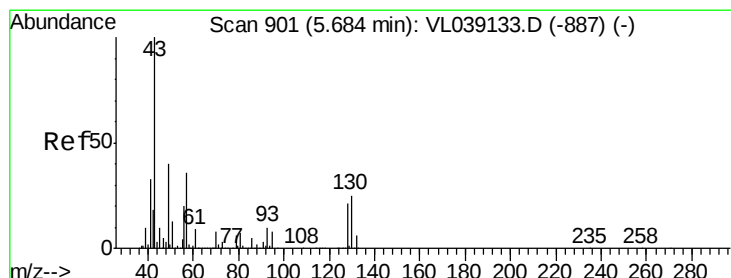
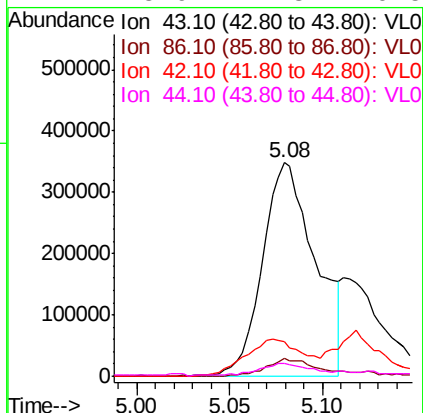
Ion 39.10 (38.80 to 39.80): VL0





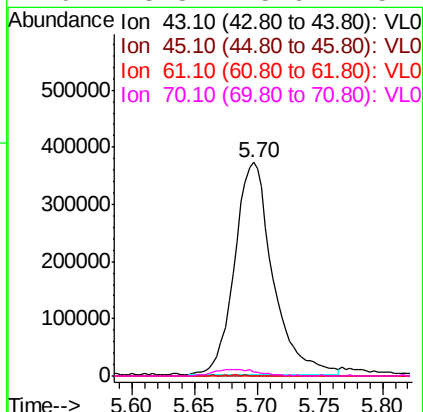
#23
 Vinyl Acetate
 Concen: 6.235 ppbv
 RT: 5.08
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV3
 Acq: 4 Jun 2022 00:32

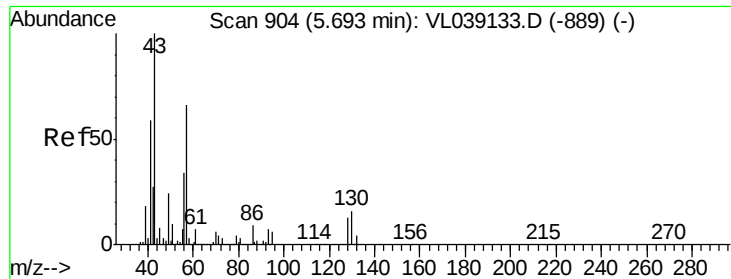
Tot Ion:	43	Resp:	695163
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.0	9.0
42	16.1	8.2	12.4#
44	5.9	4.3	6.5



#25
 Ethyl Acetate
 Concen: 2.588 ppbv
 RT: 5.70 min Scan# 905
 Delta R.T. 0.01 min
 Lab File: VL039167.D
 Acq: 4 Jun 2022 00:32

Tgt Ion:	43	Resp:	786015
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.2	12.2#
61	0.4	8.4	12.6#
70	3.8	5.6	8.4#

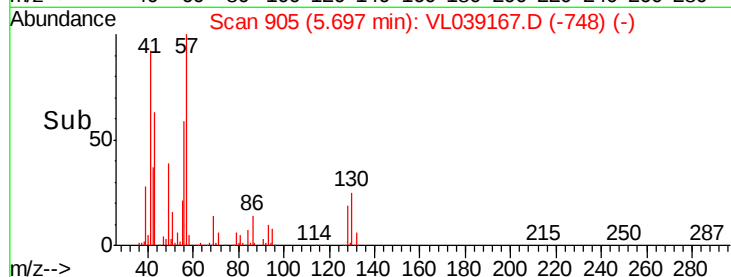
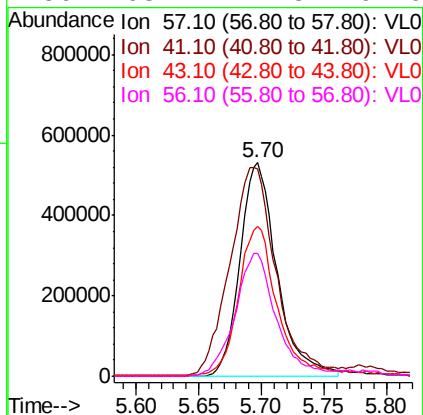
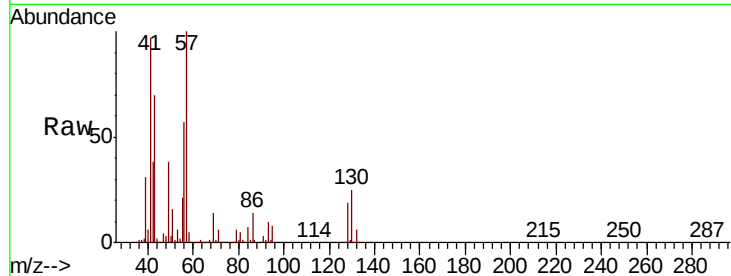




#26
Hexane
Concen: 8.164 ppbv
RT: 5.70
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 00:32

Tot Ion: 57 Resp: 1089687

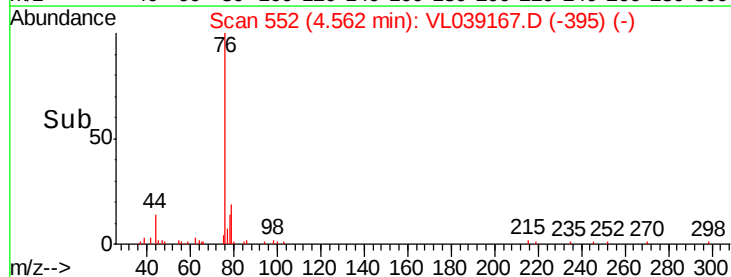
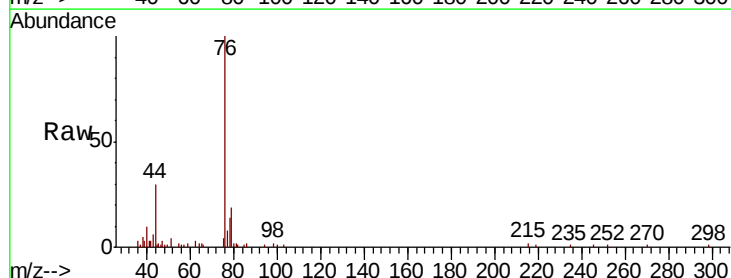
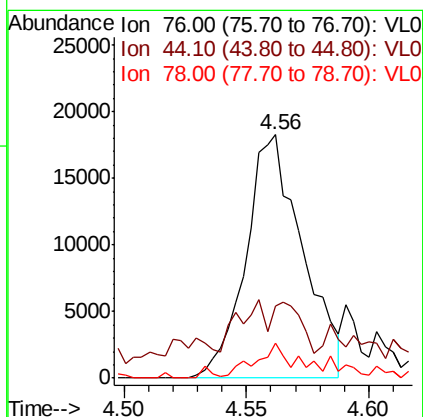
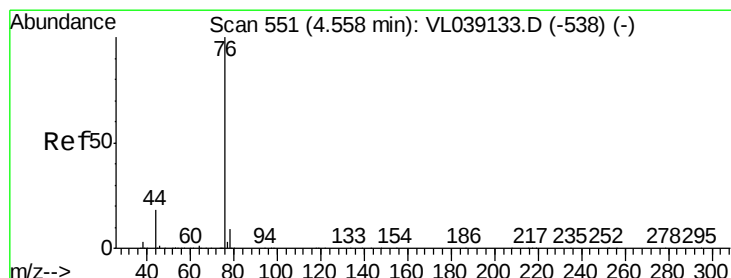
Ion	Ratio	Lower	Upper
57	100		
41	121.9	72.4	108.6#
43	75.0	187.0	280.6#
56	63.4	41.8	62.6#

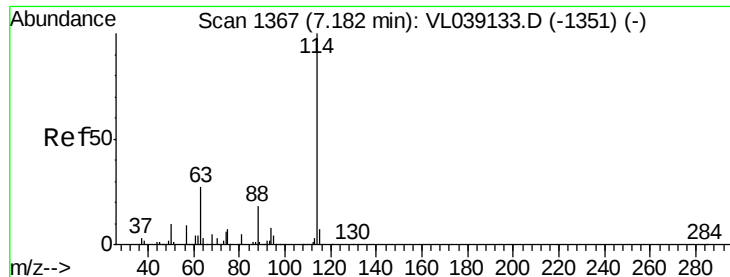


#27
Carbon Disulfide
Concen: 0.212 ppbv
RT: 4.56 min Scan# 552
Delta R.T.: 0.00 min
Lab File: VL039167.D
Acq: 4 Jun 2022 00:32

Tgt Ion: 76 Resp: 29388

Ion	Ratio	Lower	Upper
76	100		
44	44.6	14.4	21.6#
78	15.6	7.7	11.5#

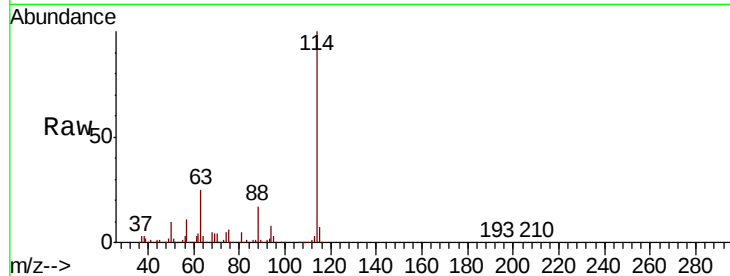




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 4 Jun 2022 00:32

Tot Ion:114 Resp: 3441502

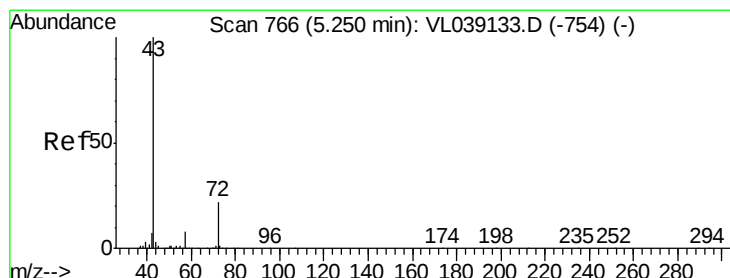
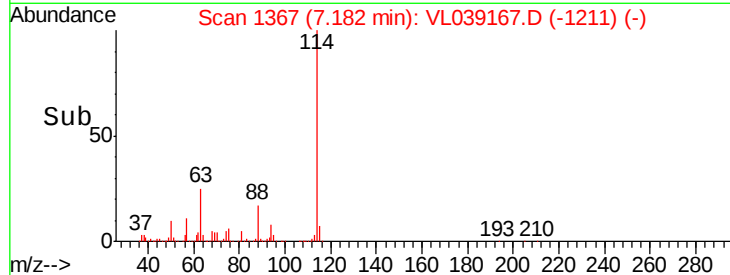
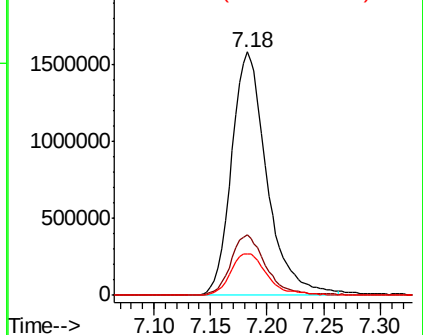
Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.7	32.5
88	18.0	14.8	22.2



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

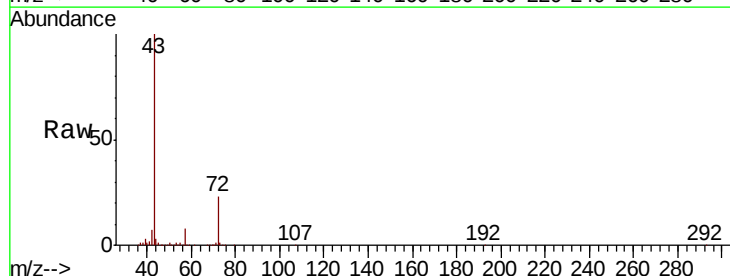
Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 8.664 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.00 min
 Lab File: VL039167.D
 Acq: 4 Jun 2022 00:32

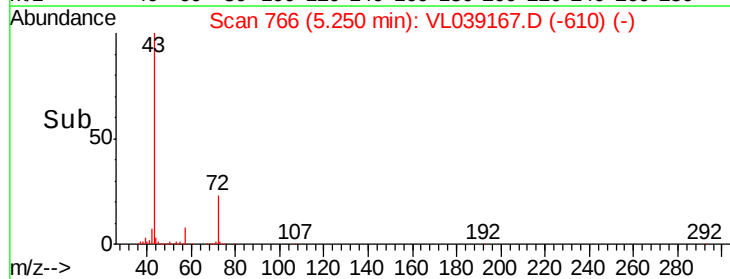
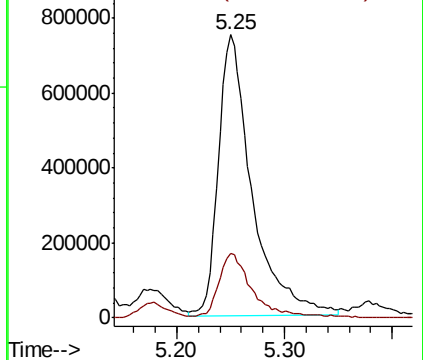
Tgt Ion: 43 Resp: 1619981

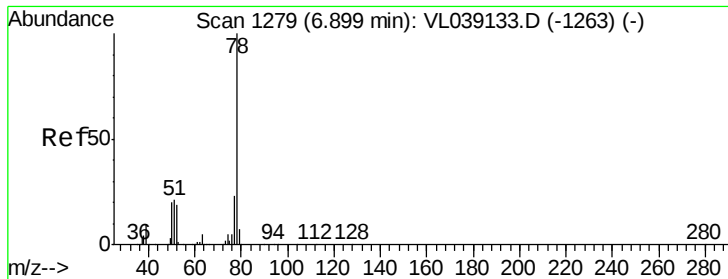
Ion	Ratio	Lower	Upper
43	100		
72	22.5	18.2	27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

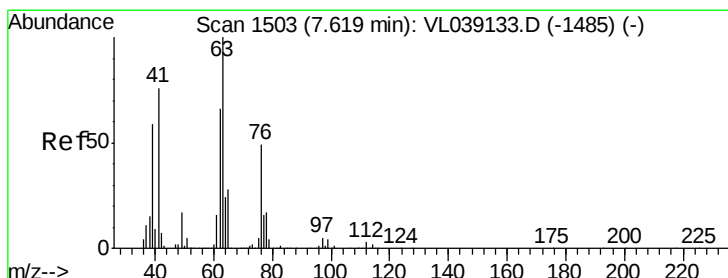
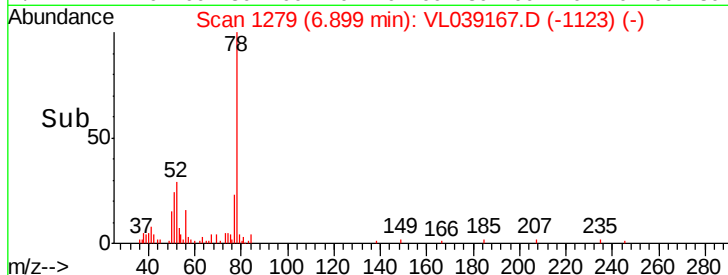
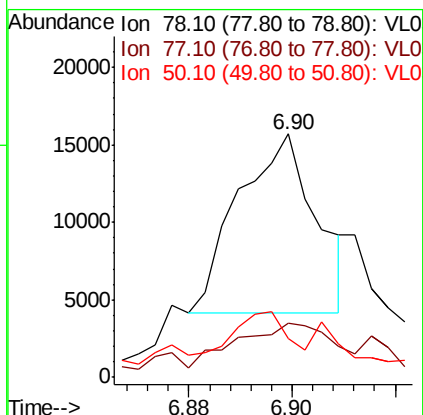
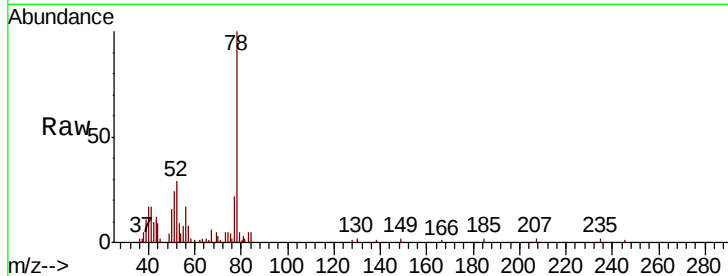
Ion 72.10 (71.80 to 72.80): VL0





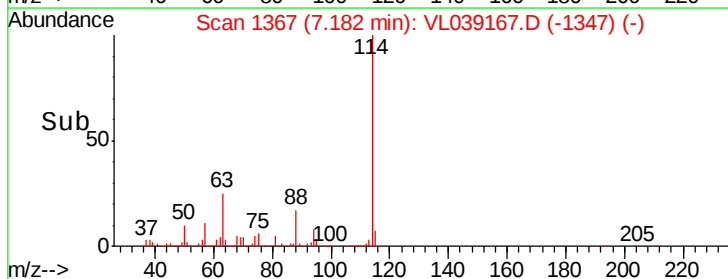
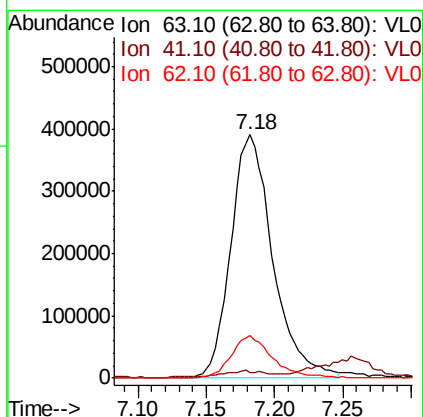
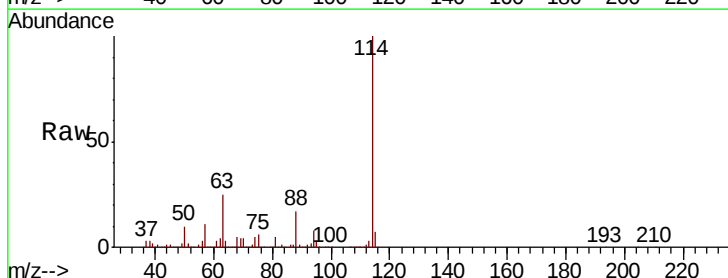
#36
Benzene
Concen: 0.043 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 00:32

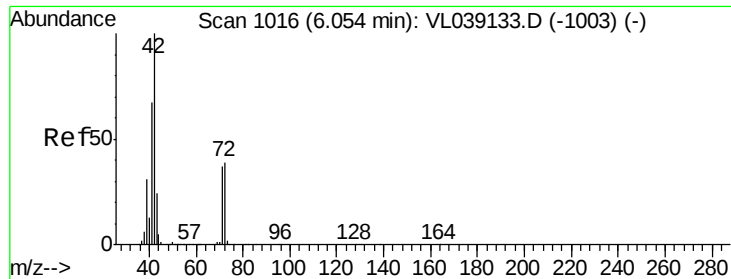
Tot Ion	78	Resp	12097
Ion Ratio	Lower	Upper	
78	100		
77	25.3	18.6	27.8
50	9.3	15.8	23.8#



#39
1,2-Dichloropropane
Concen: 7.515 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.44 min
Lab File: VL039167.D
Acq: 4 Jun 2022 00:32

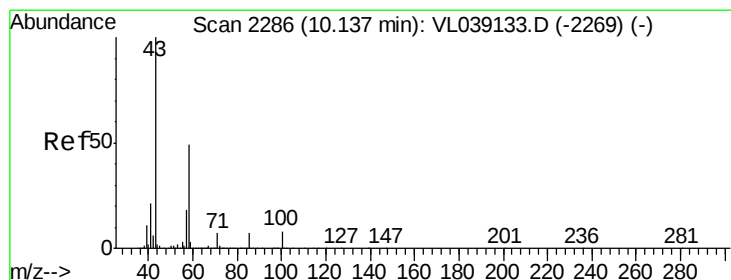
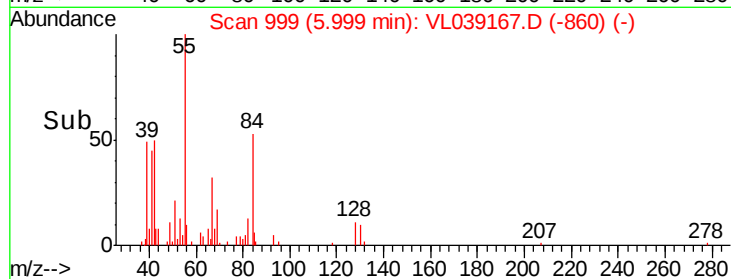
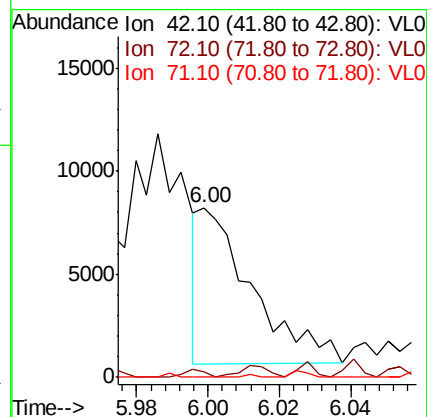
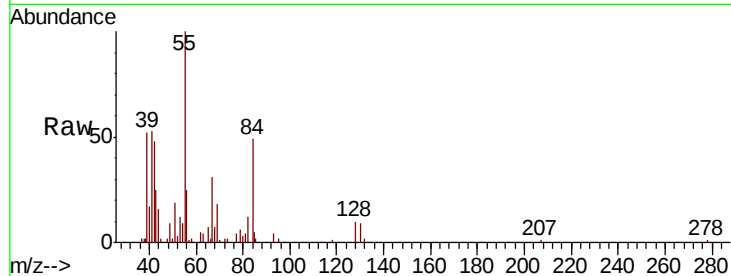
Tgt Ion	63	Resp	835165
Ion Ratio	Lower	Upper	
63	100		
41	1.9	60.8	91.2#
62	17.6	52.9	79.3#





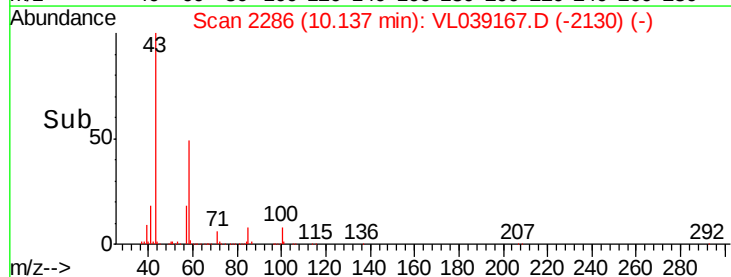
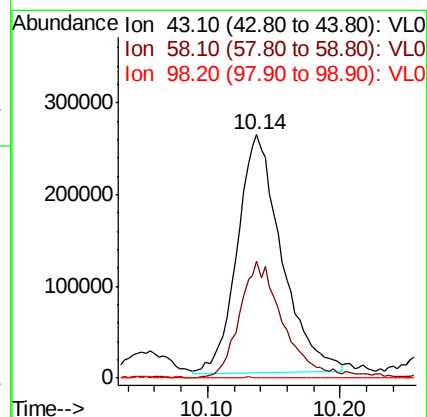
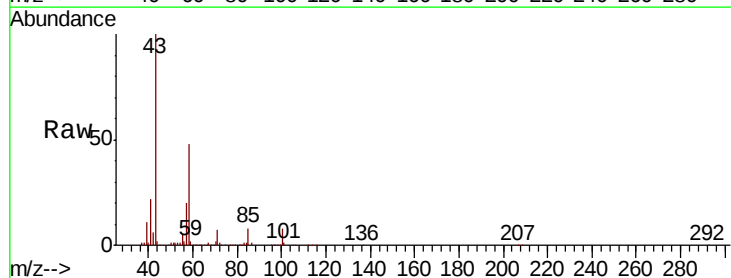
#41
Tetrahydrofuran
Concen: 0.068 ppbv
RT: 6.00
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV3
Acq: 4 Jun 2022 00:32

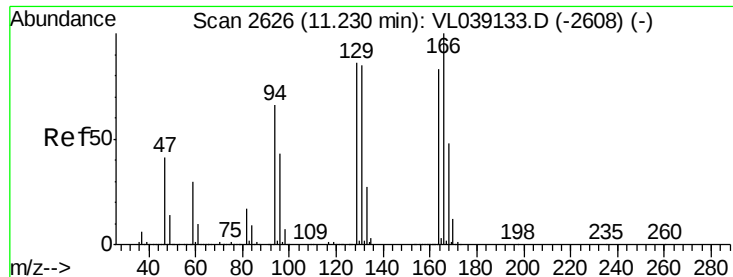
Tot Ion	Ratio	Lower	Upper
42	100		
72	9.3	32.0	48.0#
71	0.0	31.1	46.7#



#51
2-Hexanone
Concen: 2.789 ppbv
RT: 10.14 min Scan# 2286
Delta R.T.: 0.00 min
Lab File: VL039167.D
Acq: 4 Jun 2022 00:32

Tgt Ion	Ratio	Lower	Upper
43	100		
58	49.3	40.0	60.0
98	0.4	0.1	0.1#





#52

Tetrachloroethene

Concen: 2.730 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 4 Jun 2022 00:32

Tot Ion:164 Resp: 297809

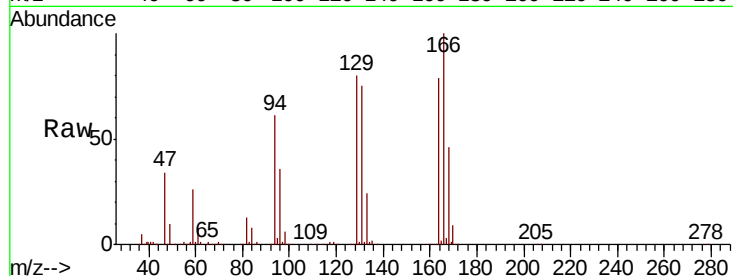
Ion Ratio Lower Upper

164 100

166 127.2 96.3 144.5

129 100.6 82.5 123.7

131 95.2 82.1 123.1

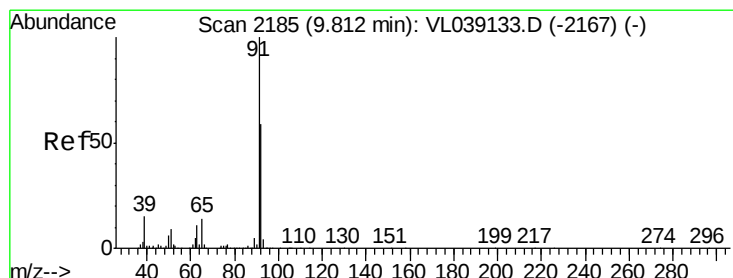
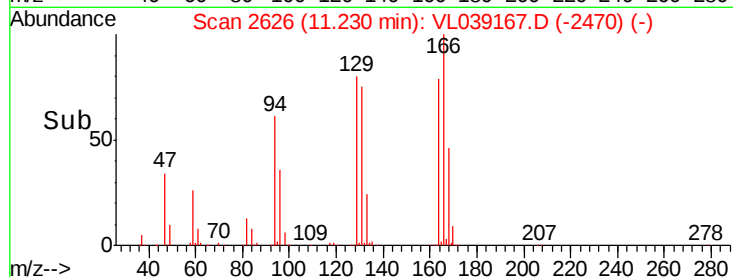
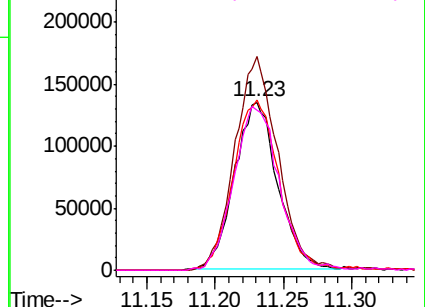


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.067 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL039167.D

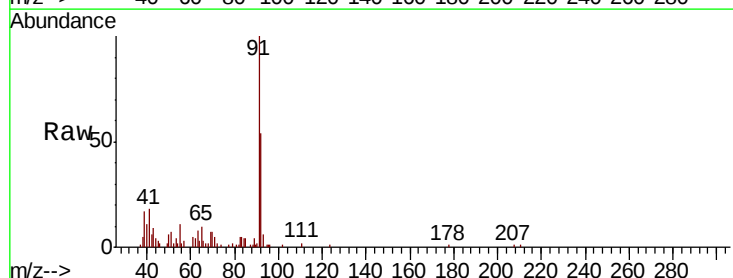
Acq: 4 Jun 2022 00:32

Tgt Ion: 91 Resp: 21715

Ion Ratio Lower Upper

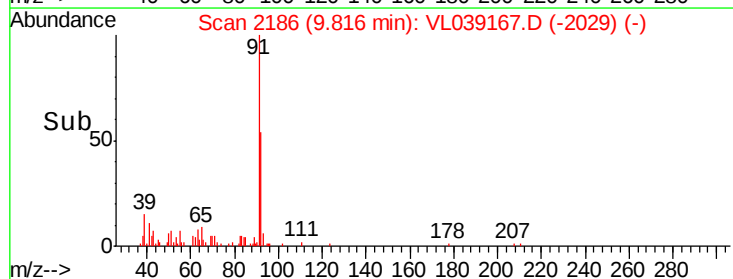
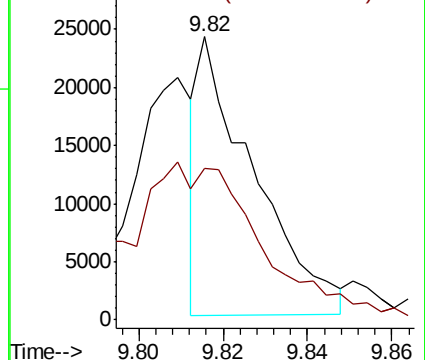
91 100

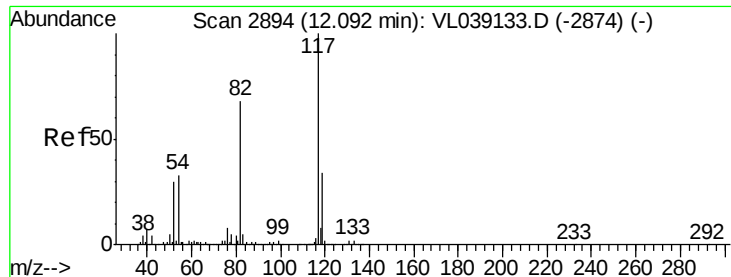
92 0.0 48.1 72.1#



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: 12.09 min

Delta R.T. 0.00 min

Lab File: VL039167.D

Acq: 4 Jun 2022 00:32

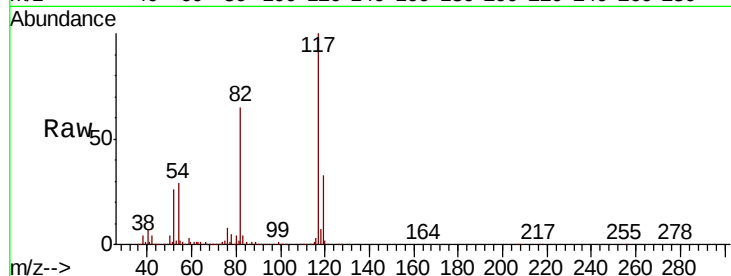
Tot Ion:117 Resp: 3088942

Ion Ratio Lower Upper

117 100

82 68.7 55.1 82.7

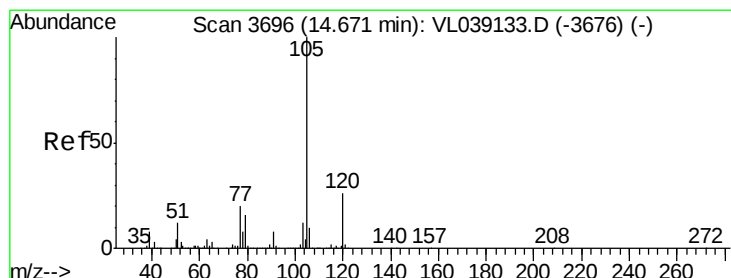
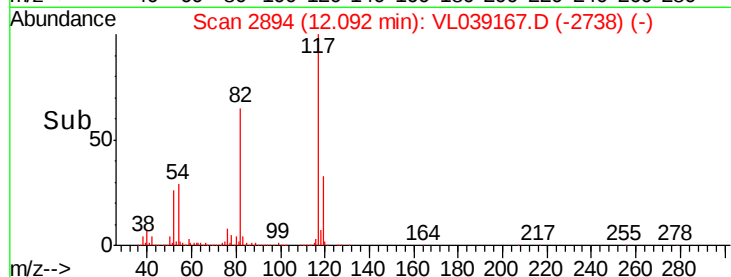
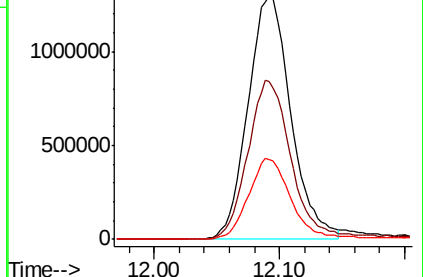
119 33.7 24.7 37.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#62

Isopropylbenzene

Concen: 0.065 ppbv

RT: 14.67 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VL039167.D

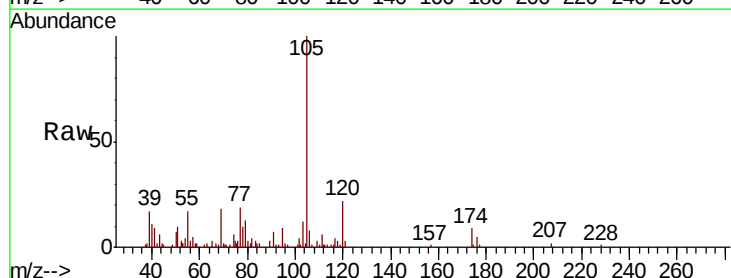
Acq: 4 Jun 2022 00:32

Tgt Ion:105 Resp: 34148

Ion Ratio Lower Upper

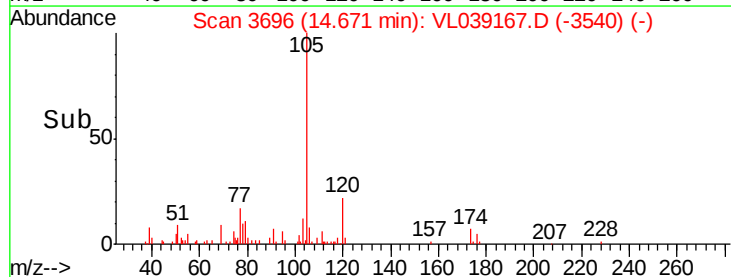
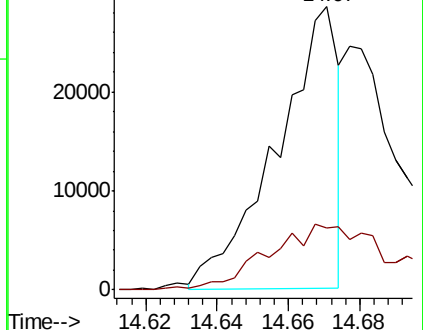
105 100

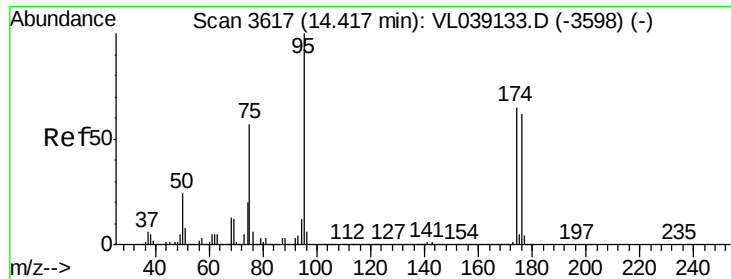
120 46.4 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.918 ppbv

RT: 14.42

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 4 Jun 2022 00:32

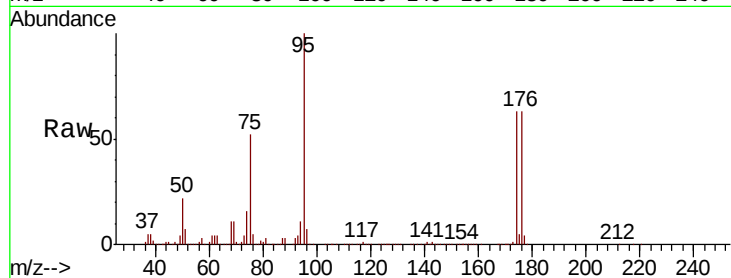
Tot Ion: 95 Resp: 2532867

Ion Ratio Lower Upper

95 100

174 69.2 53.8 80.8

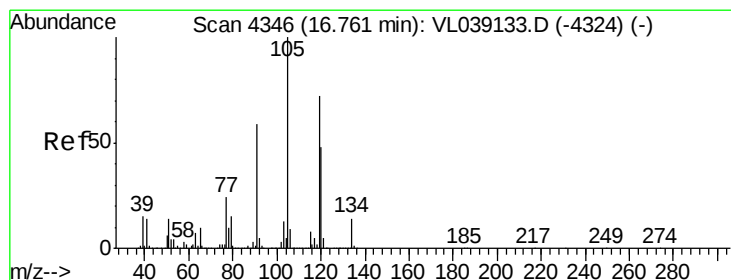
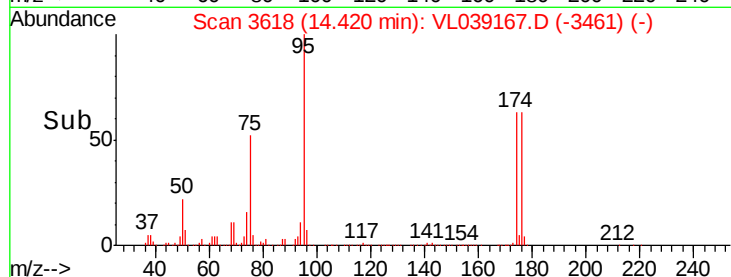
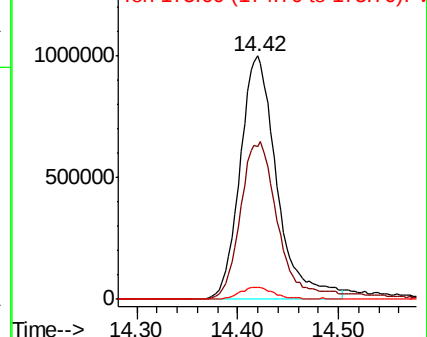
175 5.0 4.1 6.1



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



#74

1,2,4-Trimethylbenzene

Concen: 0.217 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.00 min

Lab File: VL039167.D

Acq: 4 Jun 2022 00:32

Tgt Ion:105 Resp: 90335

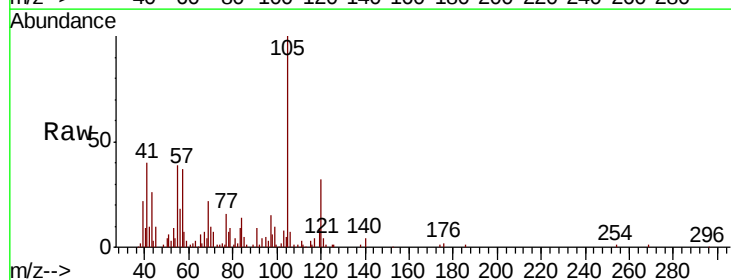
Ion Ratio Lower Upper

105 100

120 31.5 38.1 57.1#

91 6.3 47.4 71.0#

77 12.1 19.5 29.3#

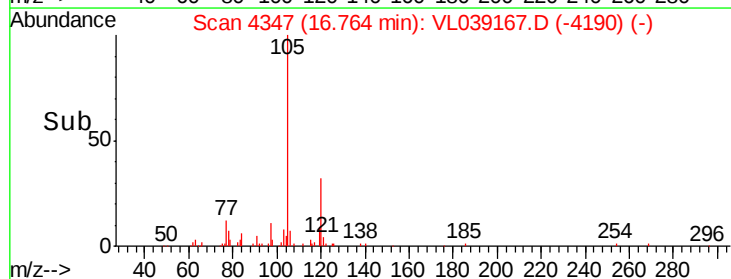
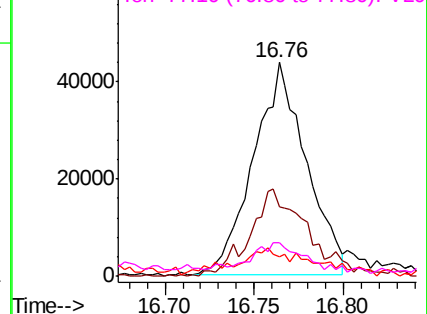


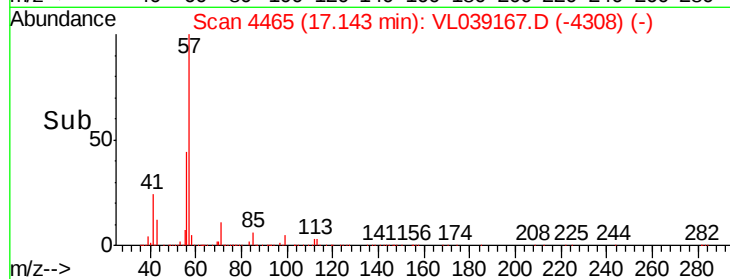
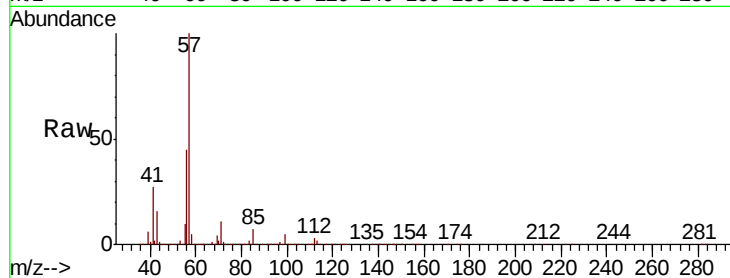
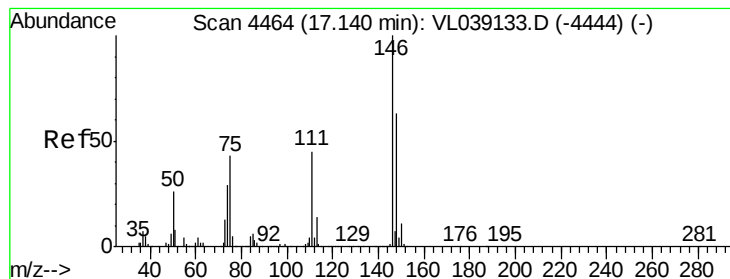
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#76

1,4-Dichlorobenzene

Concen: 0.037 ppbv

RT: 17.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 4 Jun 2022 00:32 SV3

Tot Ion:146 Resp: 8669

Ion Ratio Lower Upper

146 100

111 0.0 23.6 71.0#

148 146.5 33.7 101.0#

