

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060322\
 Data File : VL039168.D
 Acq On : 4 Jun 2022 1:14
 Operator : SY/AP
 Sample : N3106-03DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DUP

Quant Time: Jun 04 02:22:19 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	1247722	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3584186	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3215461	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2486891	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

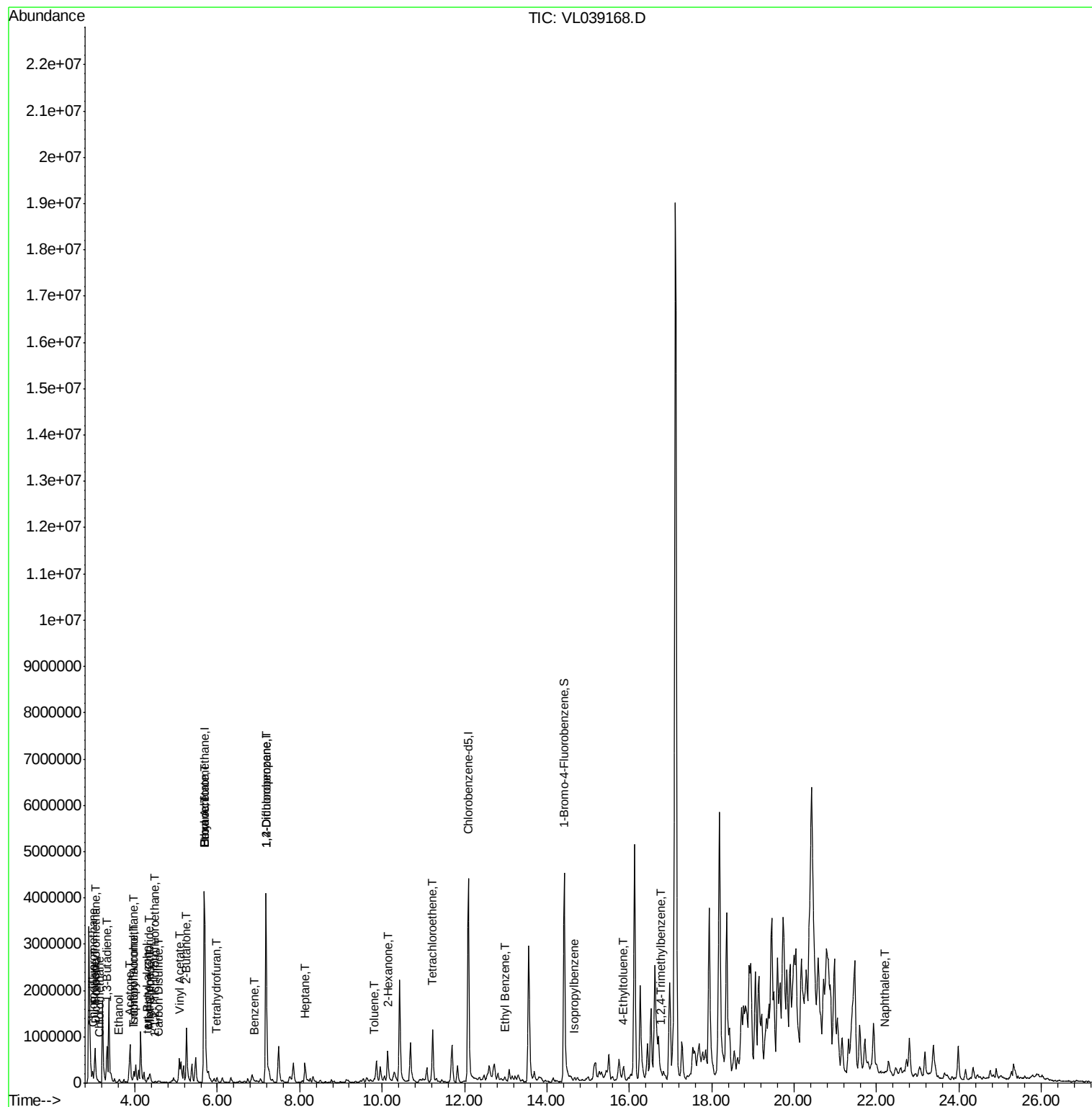
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	41475	0.189	ppbv 98
3) Chlorodifluoromethane	2.97	51	207999	1.310	ppbv # 63
4) Chloromethane	3.15	50	3641	0.045	ppbv # 73
9) Propene	3.02	41	143582	2.074	ppbv # 61
10) Heptane	8.13	43	193553	1.199	ppbv 95
11) Trichlorofluoromethane	3.96	101	38961	0.196	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5967	0.045	ppbv # 39
13) Ethanol	3.61	45	106939	28.327	ppbv # 100
15) Acetone	3.86	43	359670	2.767	ppbv # 47
16) 1,3-Butadiene	3.32	39	228525	3.271	ppbv # 18
17) tert-Butyl alcohol	4.30	59	31691	0.314	ppbv # 70
19) Isopropyl Alcohol	3.98	45	256608	4.209	ppbv # 1
20) Methylene Chloride	4.35	84	71811	1.311	ppbv 86
21) Allyl Chloride	4.38	41	6104	0.070	ppbv # 1
23) Vinyl Acetate	5.08	43	597250	5.554	ppbv # 94
25) Ethyl Acetate	5.70	43	803053	2.741	ppbv # 78
26) Hexane	5.69	57	1115777	8.667	ppbv # 29
27) Carbon Disulfide	4.56	76	32450	0.243	ppbv # 92
34) 2-Butanone	5.25	43	1660654	8.528	ppbv 99
36) Benzene	6.90	78	17874	0.061	ppbv # 89
39) 1,2-Dichloropropane	7.18	63	847483	7.322	ppbv # 25
41) Tetrahydrofuran	5.99	42	21065	0.180	ppbv # 40
51) 2-Hexanone	10.14	43	609178	2.686	ppbv # 99
52) Tetrachloroethene	11.23	164	304832	2.683	ppbv 93
53) Toluene	9.81	91	49315	0.147	ppbv 95
58) Ethyl Benzene	12.98	91	19569	0.044	ppbv 93
62) Isopropylbenzene	14.67	105	53203	0.098	ppbv # 82
72) 4-Ethyltoluene	15.84	105	13747	0.032	ppbv # 57
74) 1,2,4-Trimethylbenzene	16.77	105	98138	0.227	ppbv # 57
79) Naphthalene	22.20	128	13286	0.040	ppbv # 81

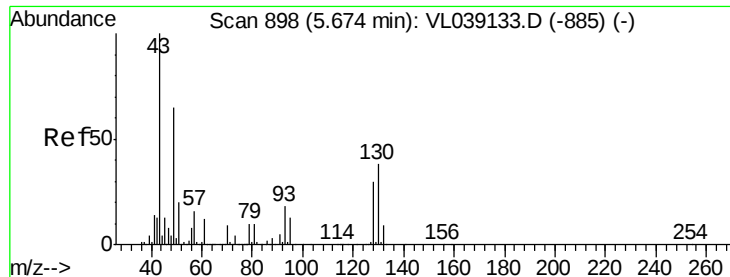
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV3DUP

Acq: 4 Jun 2022 1:14

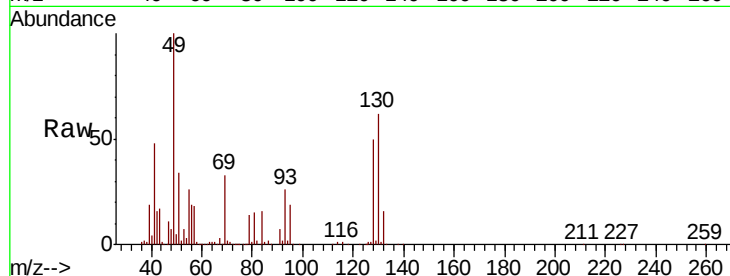
Tot Ion: 49 Resp: 1247722

Ion Ratio Lower Upper

49 100

128 53.4 24.7 74.1

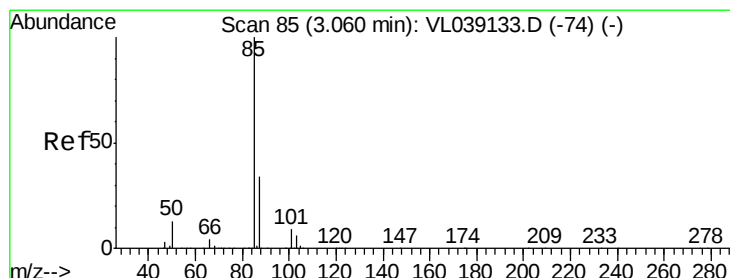
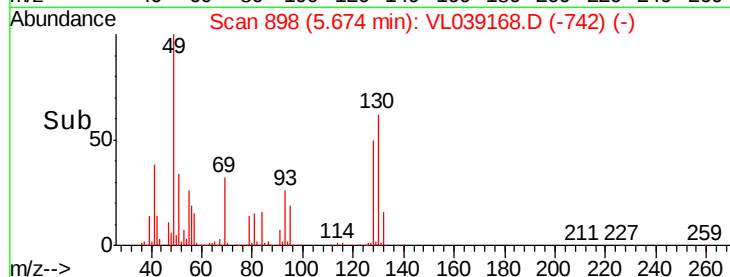
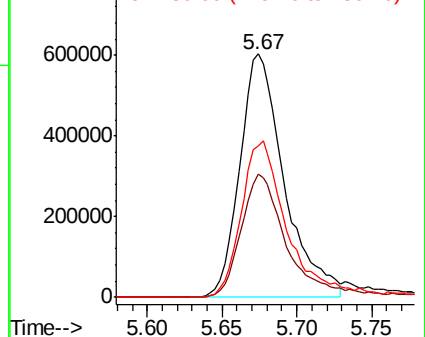
130 69.2 31.4 94.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.189 ppbv

RT: 3.06 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL039168.D

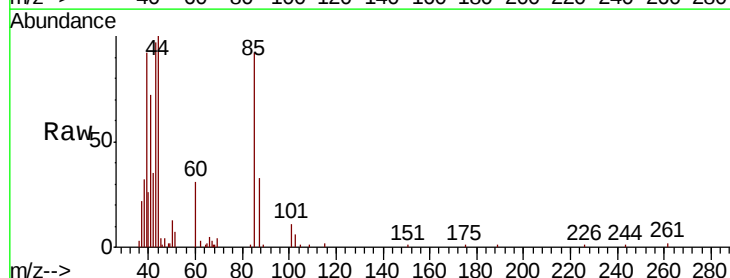
Acq: 4 Jun 2022 1:14

Tgt Ion: 85 Resp: 41475

Ion Ratio Lower Upper

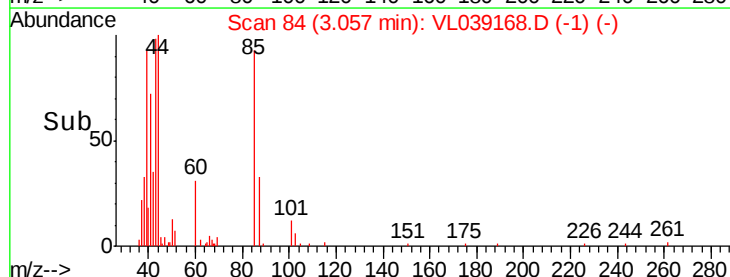
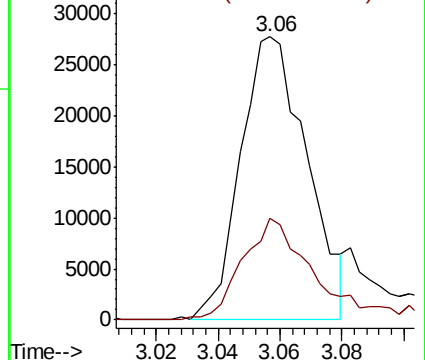
85 100

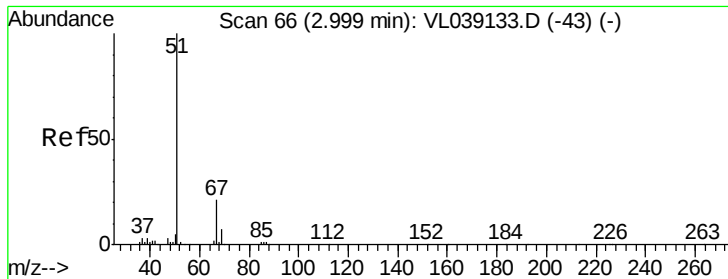
87 35.0 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.310 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SV3DUP

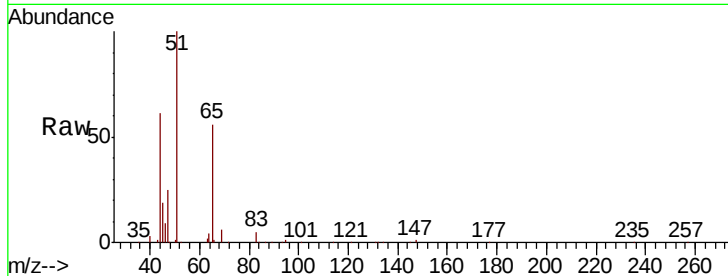
Acq: 4 Jun 2022 1:14

Tot Ion: 51 Resp: 207999

Ion Ratio Lower Upper

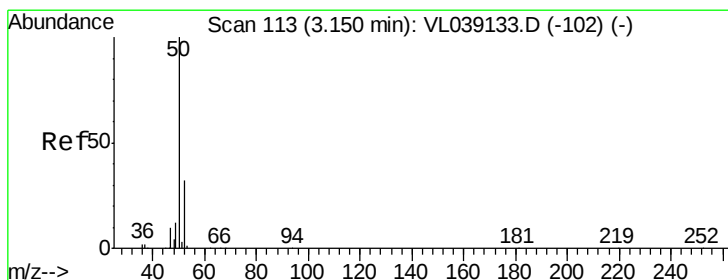
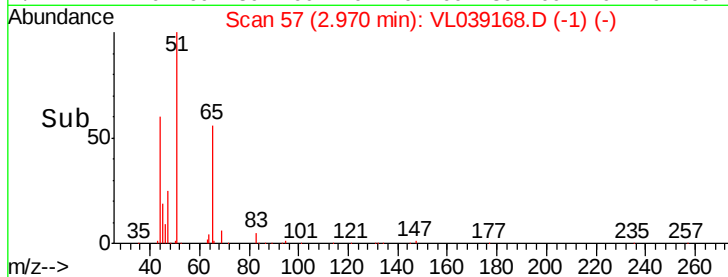
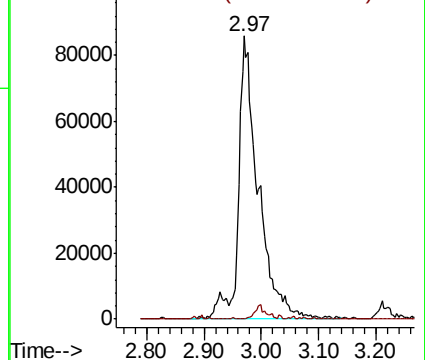
51 100

67 3.1 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: 0.045 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL039168.D

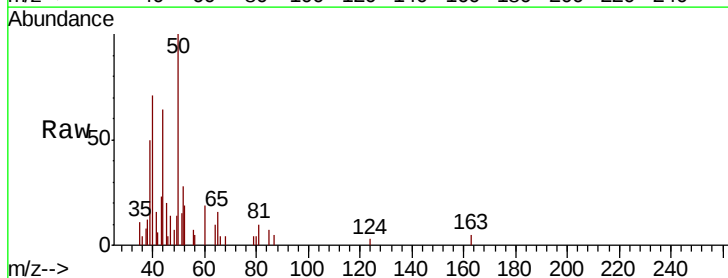
Acq: 4 Jun 2022 1:14

Tgt Ion: 50 Resp: 3641

Ion Ratio Lower Upper

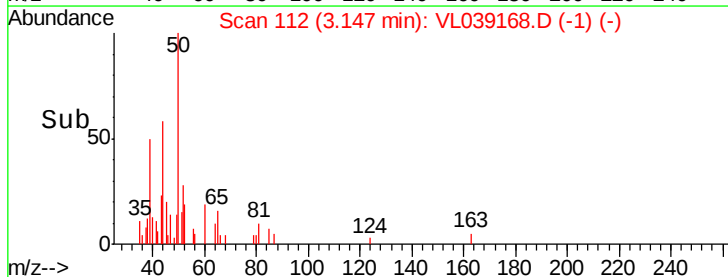
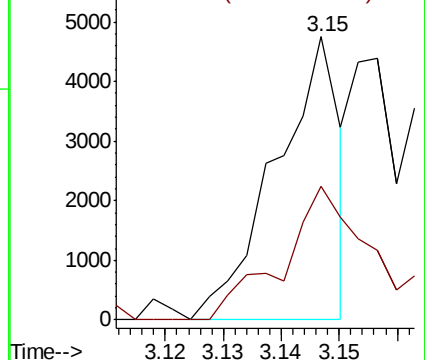
50 100

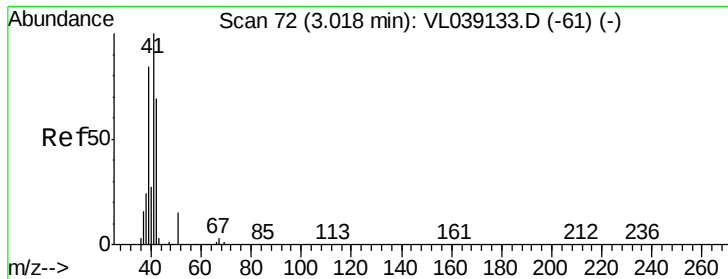
52 47.4 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.074 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

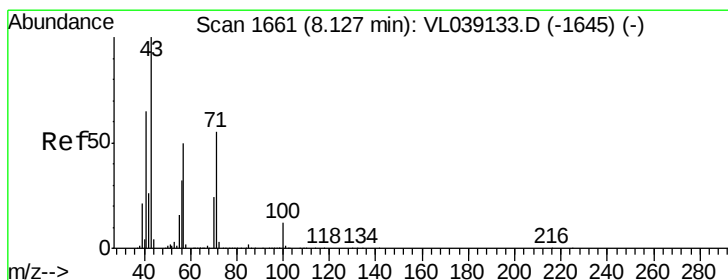
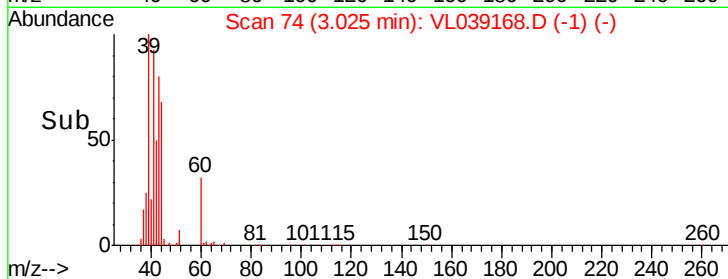
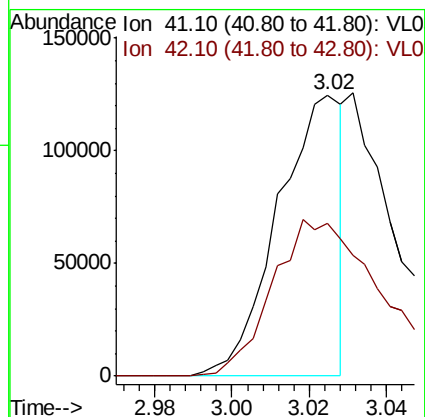
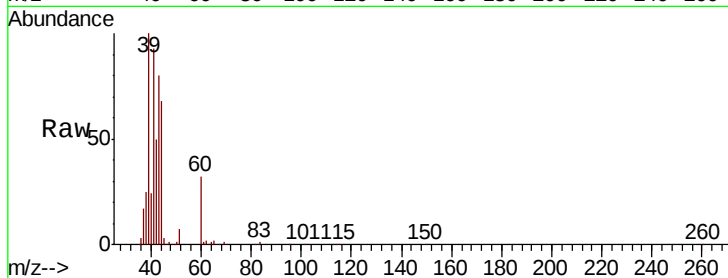
Acq: 4 Jun 2022 1:14 SV3DUP

Tot Ion: 41 Resp: 143582

Ion Ratio Lower Upper

41 100

42 101.3 55.4 83.2#



#10

Heptane

Concen: 1.199 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL039168.D

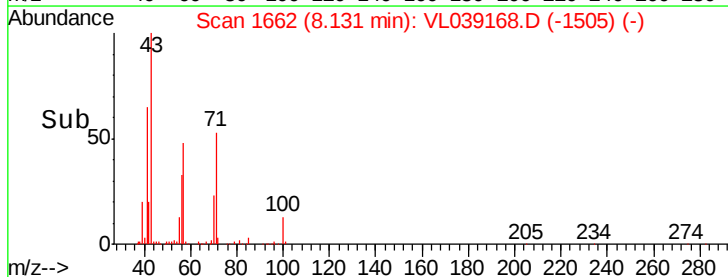
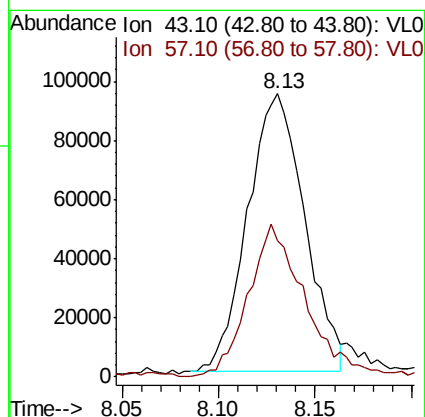
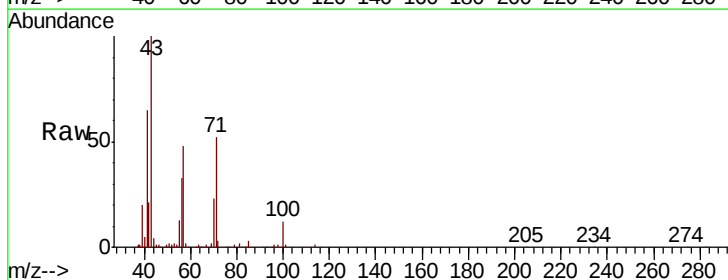
Acq: 4 Jun 2022 1:14

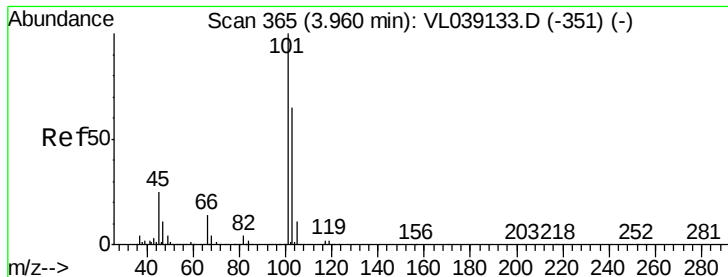
Tgt Ion: 43 Resp: 193553

Ion Ratio Lower Upper

43 100

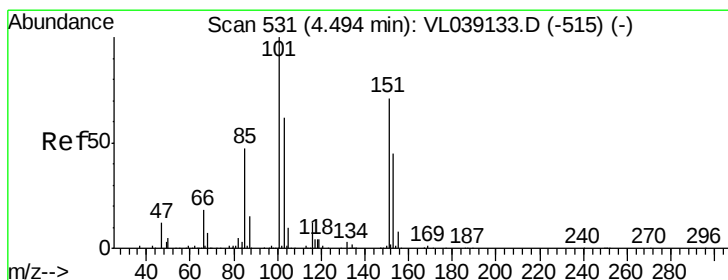
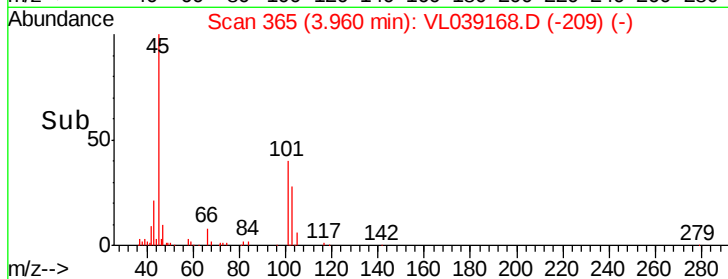
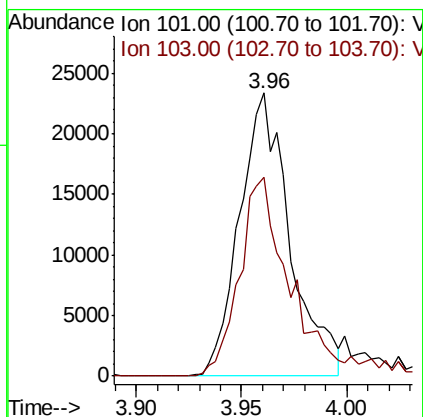
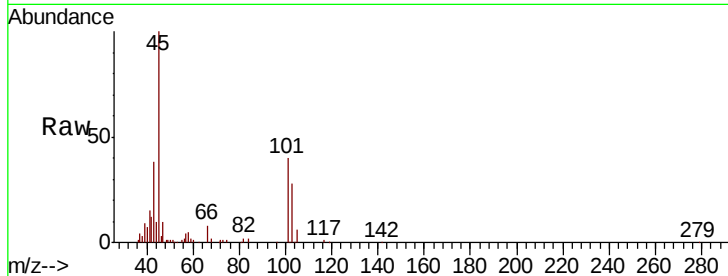
57 55.0 41.4 62.2





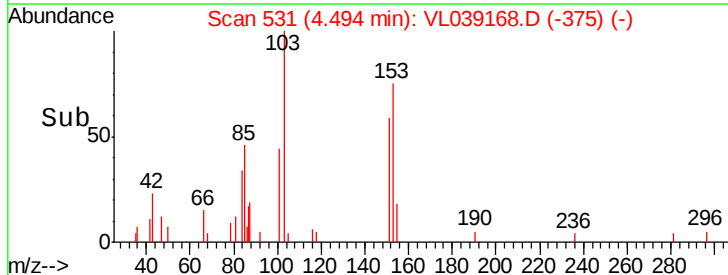
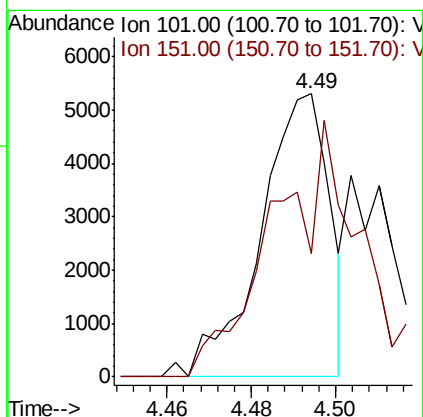
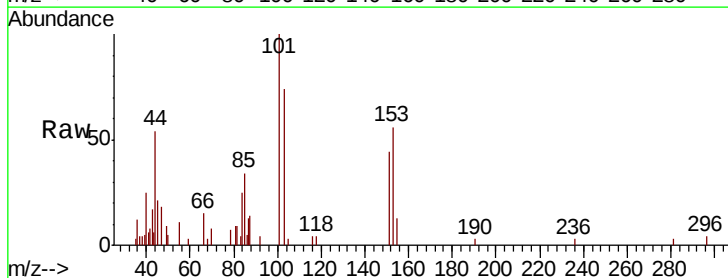
#11
 Trichlorofluoromethane
 Concen: 0.196 ppbv
 RT: 3.96
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV3DUP
 Acq: 4 Jun 2022 1:14

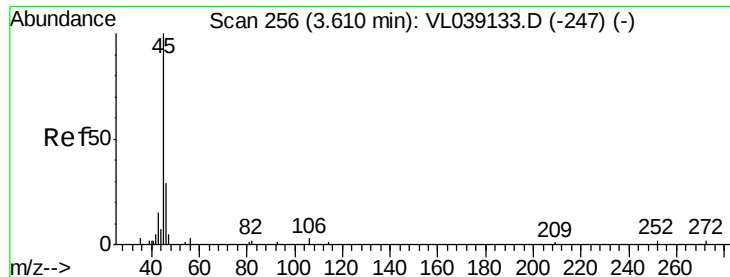
Tot Ion:101 Resp: 38961
 Ion Ratio Lower Upper
 101 100
 103 70.5 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.045 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T. 0.00 min
 Lab File: VL039168.D
 Acq: 4 Jun 2022 1:14

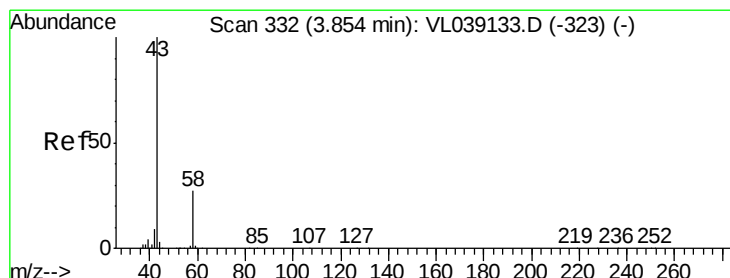
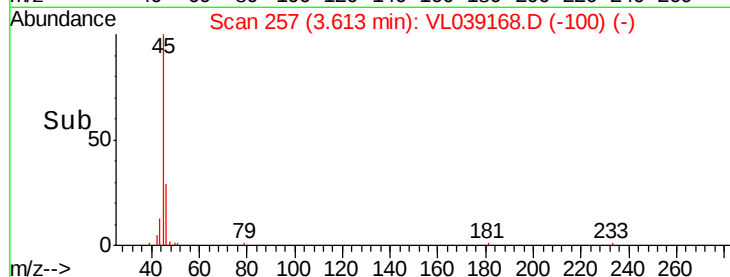
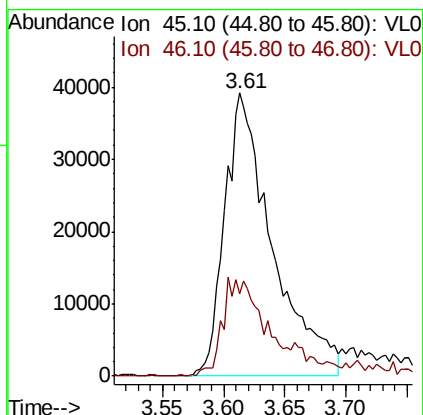
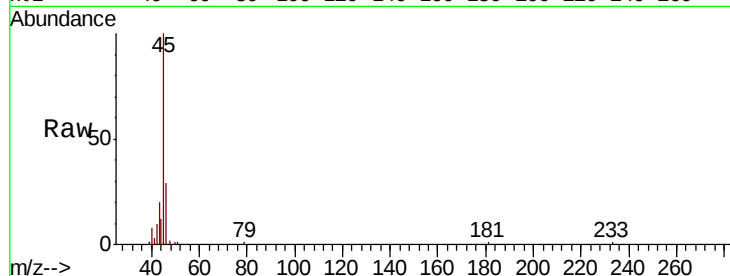
Tgt Ion:101 Resp: 5967
 Ion Ratio Lower Upper
 101 100
 151 125.7 59.4 89.0#





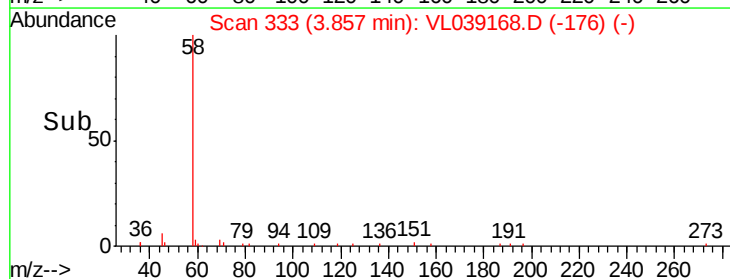
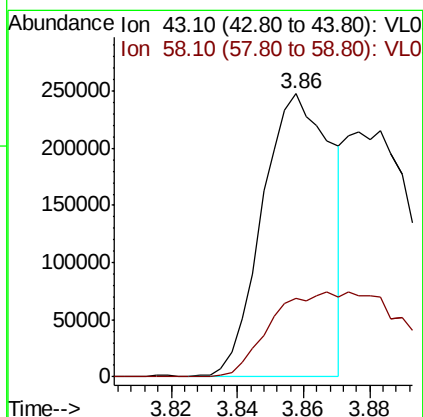
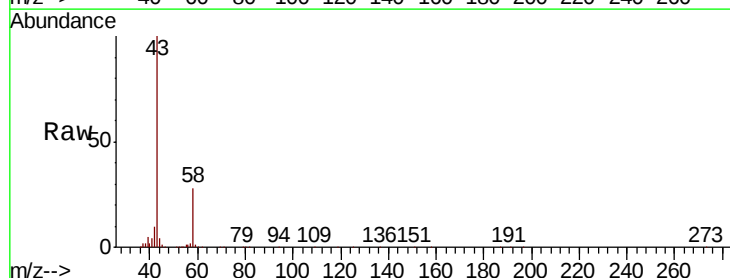
#13
Ethanol
Concen: 28.327 ppbv
RT: 3.61 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV3DUP
Acq: 4 Jun 2022 1:14

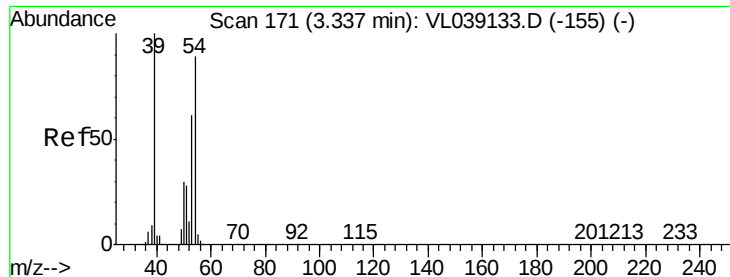
Tot Ion: 45 Resp: 106939
Ion Ratio Lower Upper
45 100
46 37.2 0.0 0.0#



#15
Acetone
Concen: 2.767 ppbv
RT: 3.86 min Scan# 333
Delta R.T.: 0.00 min
Lab File: VL039168.D
Acq: 4 Jun 2022 1:14

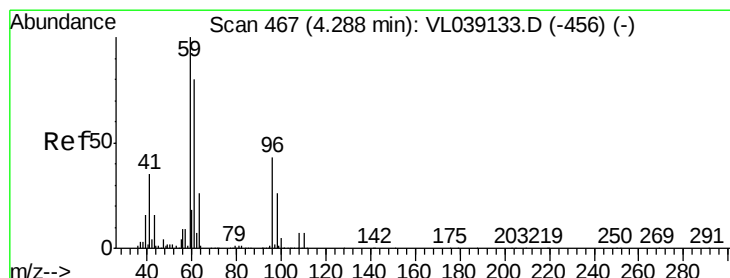
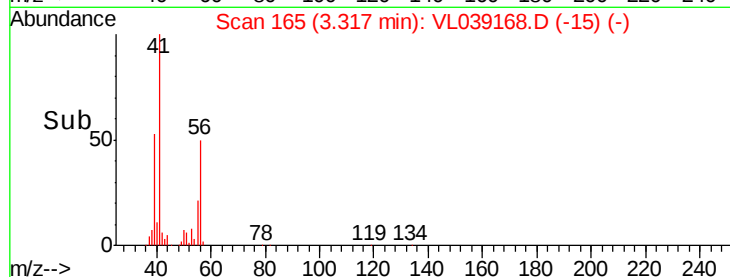
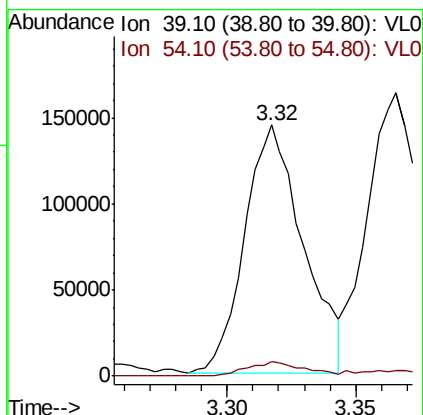
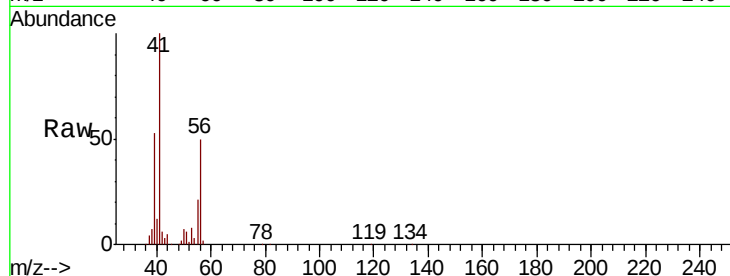
Tgt Ion: 43 Resp: 359670
Ion Ratio Lower Upper
43 100
58 0.0 22.5 33.7#





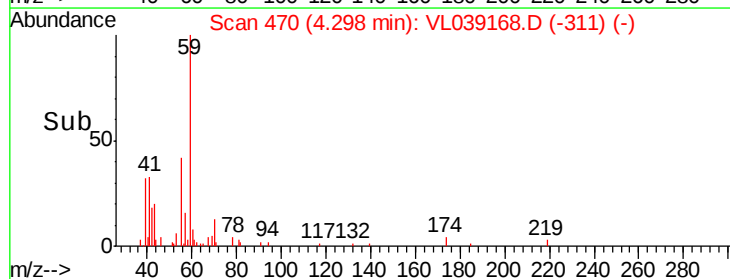
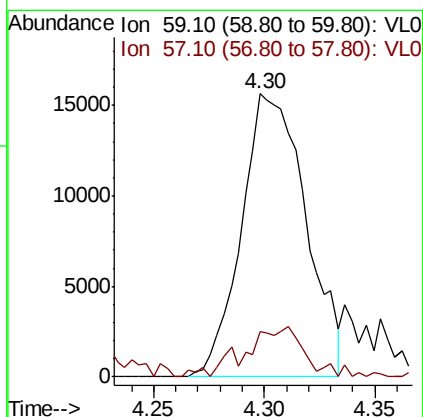
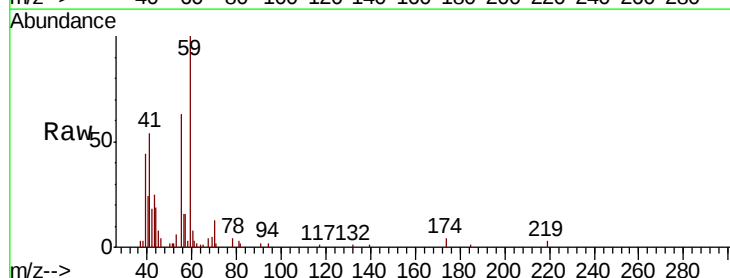
#16
 1,3-Butadiene
 Concen: 3.271 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV3DUP
 Acq: 4 Jun 2022 1:14

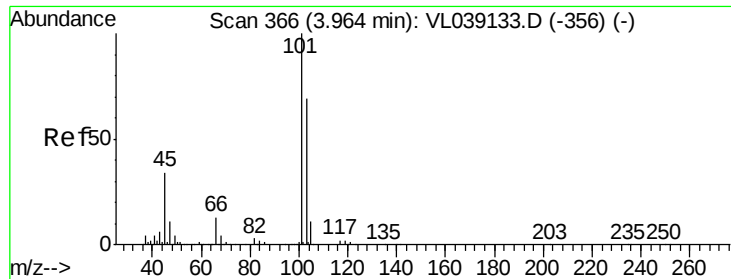
Tot Ion: 39 Resp: 228525
 Ion Ratio Lower Upper
 39 100
 54 8.4 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 0.314 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VL039168.D
 Acq: 4 Jun 2022 1:14

Tgt Ion: 59 Resp: 31691
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 4.209 ppbv

RT: 3.98 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

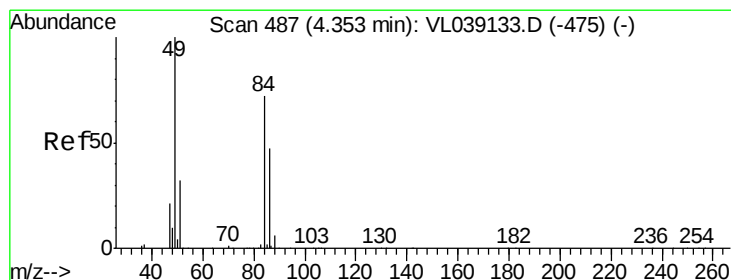
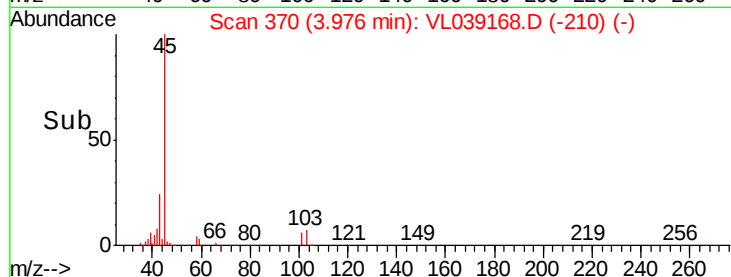
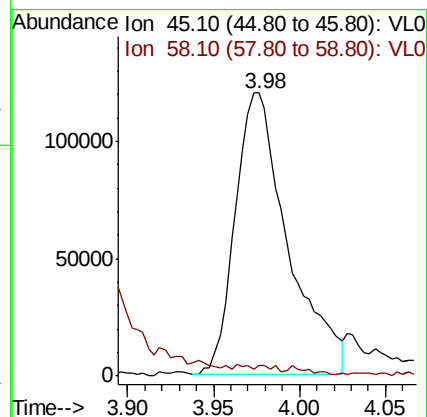
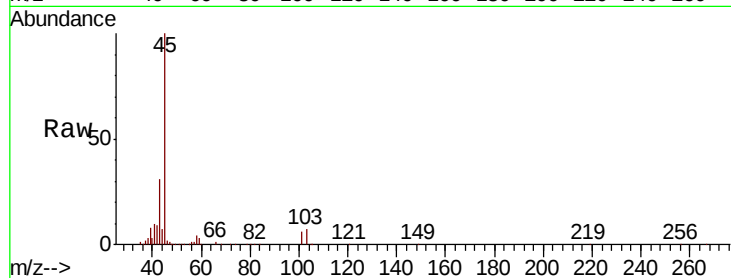
Acq: 4 Jun 2022 1:14 SV3DUP

Tot Ion: 45 Resp: 256608

Ion Ratio Lower Upper

45 100

58 95.3 1.8 2.8#



#20

Methylene Chloride

Concen: 1.311 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL039168.D

Acq: 4 Jun 2022 1:14

Tgt Ion: 84 Resp: 71811

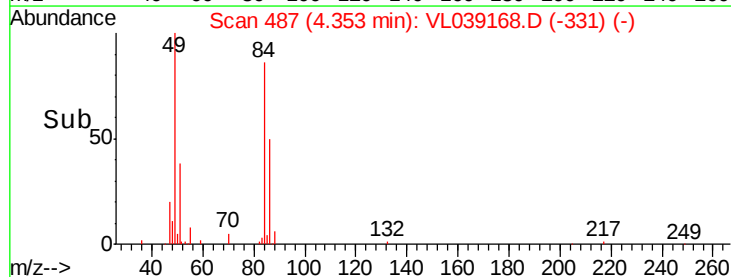
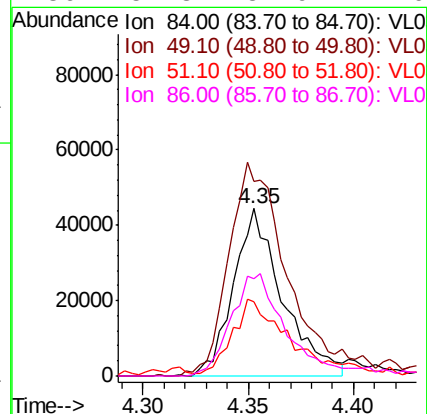
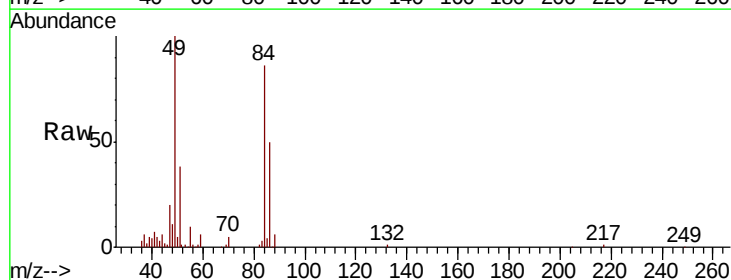
Ion Ratio Lower Upper

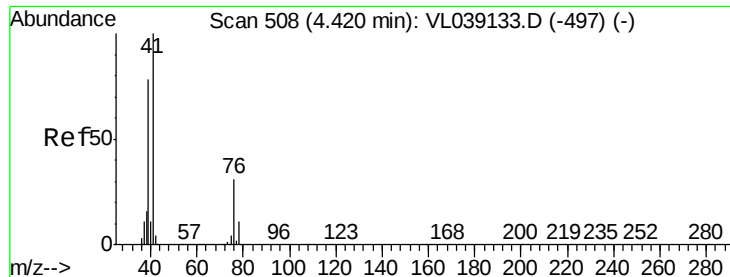
84 100

49 114.4 111.1 166.7

51 44.4 35.3 52.9

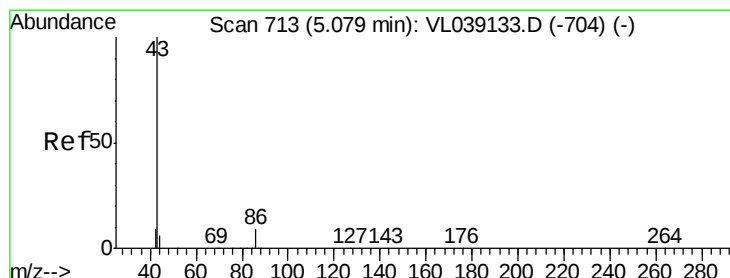
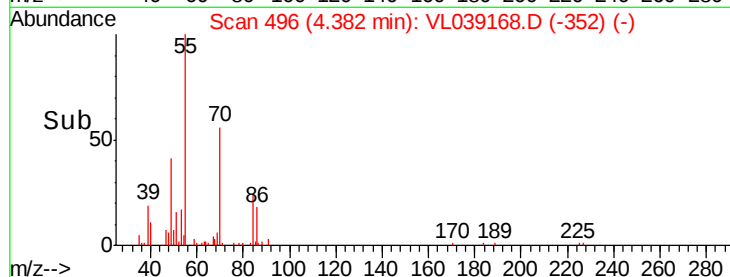
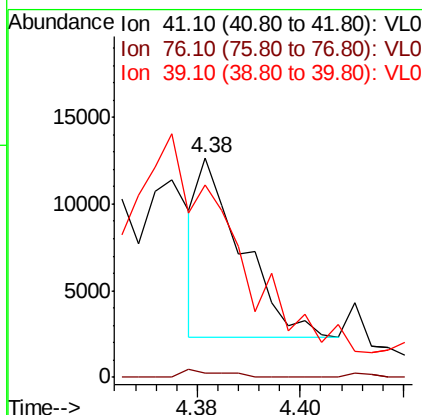
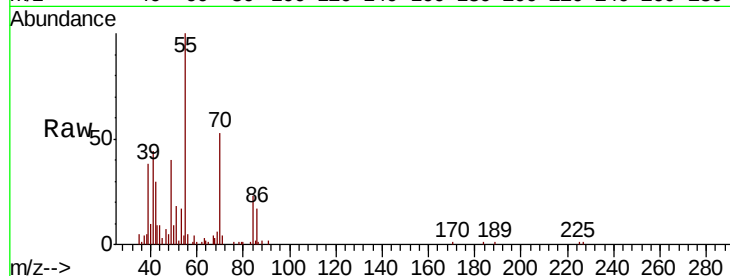
86 57.3 51.9 77.9





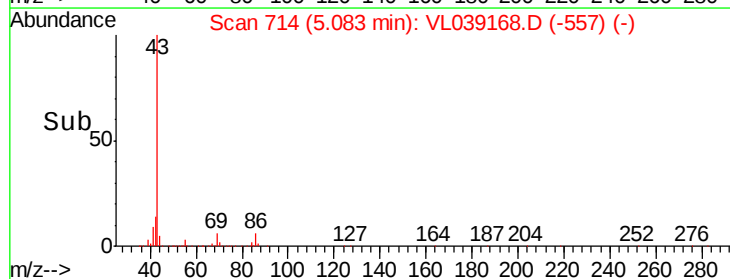
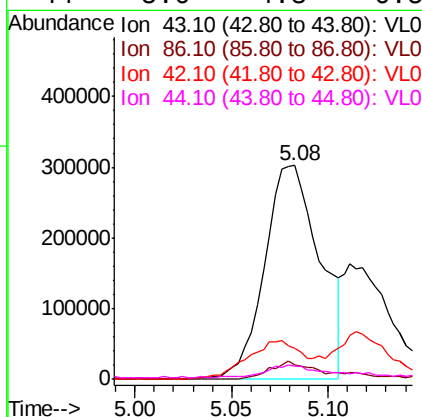
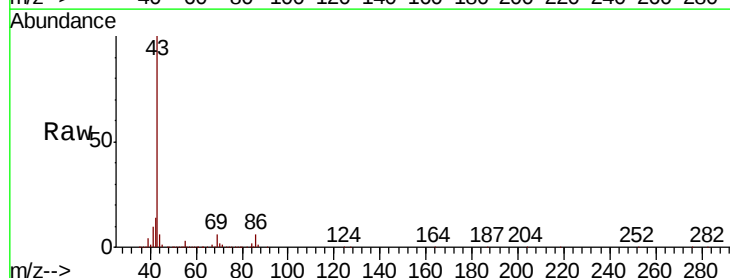
#21
 Allvl Chloride
 Concen: 0.070 ppbv
 RT: 4.38
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV3DUP
 Acq: 4 Jun 2022 1:14

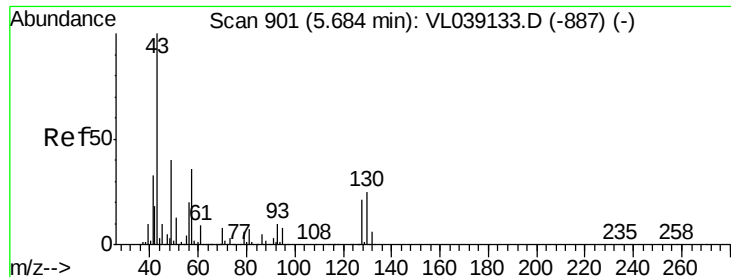
Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.2#
39	367.3	62.2	93.2#



#23
 Vinyl Acetate
 Concen: 5.554 ppbv
 RT: 5.08 min Scan# 714
 Delta R.T. 0.00 min
 Lab File: VL039168.D
 Acq: 4 Jun 2022 1:14

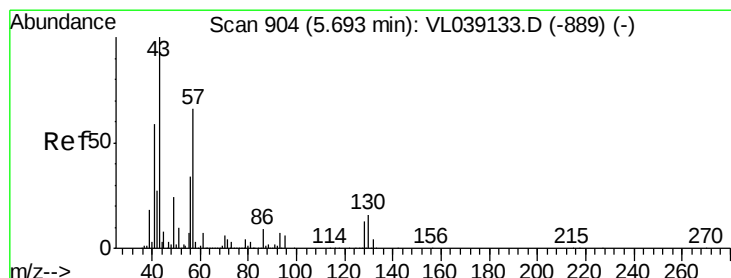
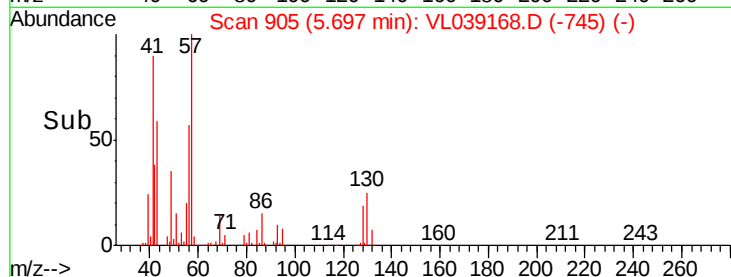
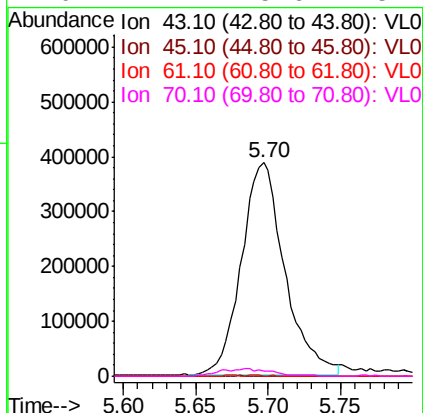
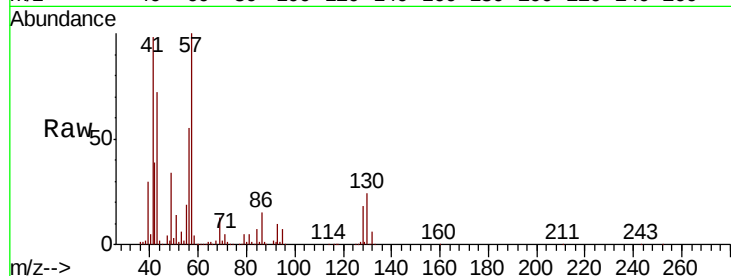
Tgt Ion	Ratio	Lower	Upper
43	100		
86	6.5	6.0	9.0
42	14.1	8.2	12.4#
44	5.0	4.3	6.5





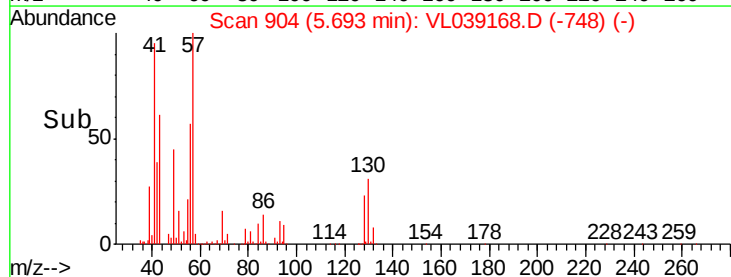
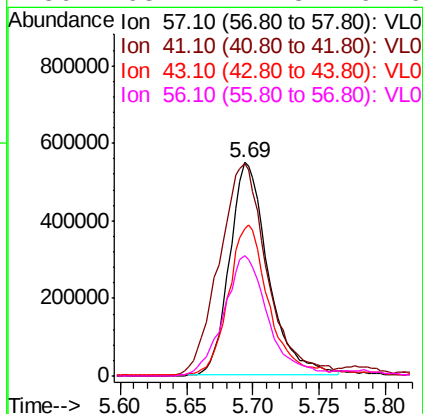
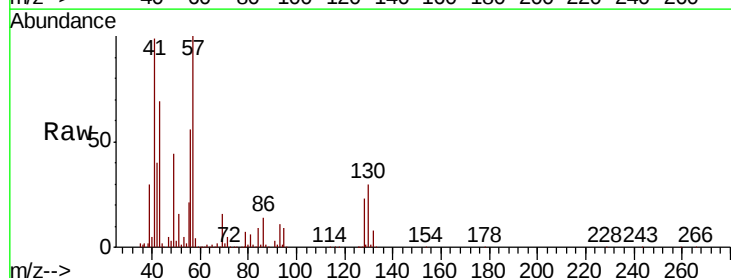
#25
Ethyl Acetate
Concen: 2.741 ppbv
RT: 5.70
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 1:14

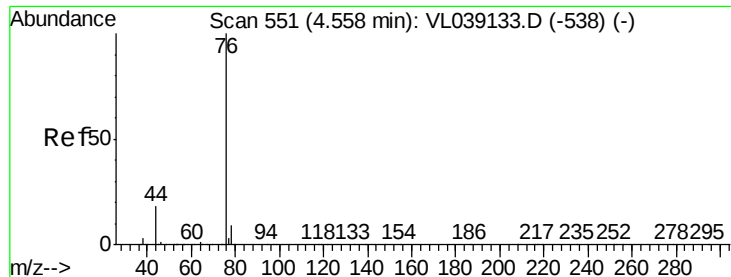
Tot Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.2	12.2#
61	0.5	8.4	12.6#
70	4.4	5.6	8.4#



#26
Hexane
Concen: 8.667 ppbv
RT: 5.69 min Scan# 904
Delta R.T.: 0.00 min
Lab File: VL039168.D
Acq: 4 Jun 2022 1:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	124.1	72.4	108.6#
43	75.6	187.0	280.6#
56	68.4	41.8	62.6#





#27

Carbon Disulfide

Concen: 0.243 ppbv

RT: 4.56 Instrument: MSVOA_1

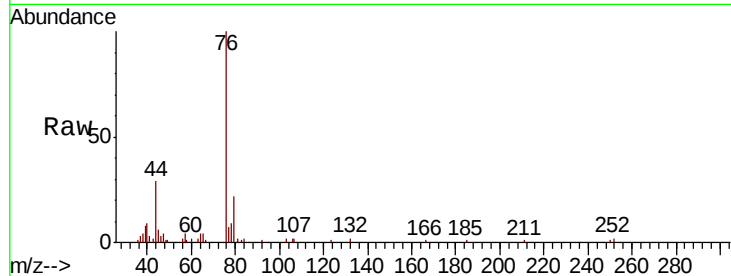
Delta R.T. ClientSampleId:

Lab File: SV3DUP

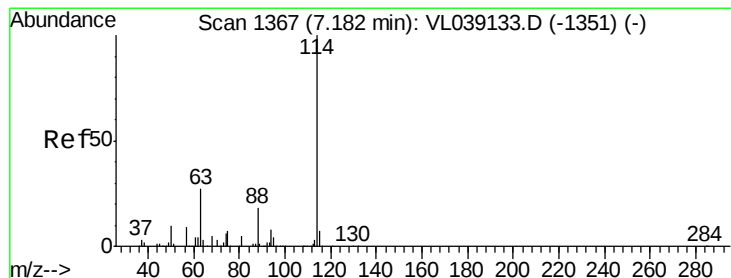
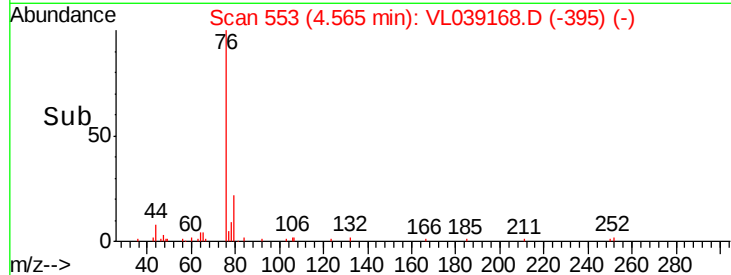
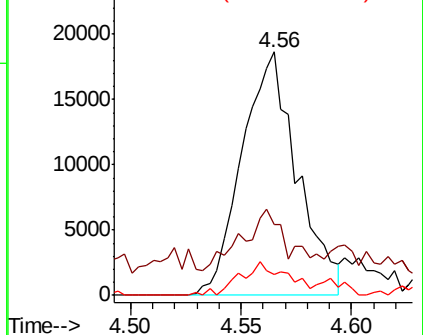
Acq: 4 Jun 2022 1:14

Tot Ion: 76 Resp: 32450

Ion	Ratio	Lower	Upper
76	100		
44	20.0	14.4	21.6
78	15.1	7.7	11.5#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

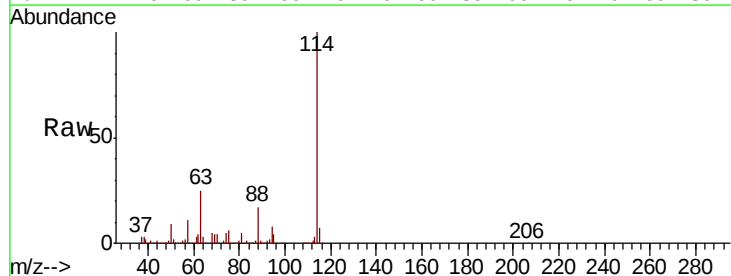
Delta R.T. 0.00 min

Lab File: VL039168.D

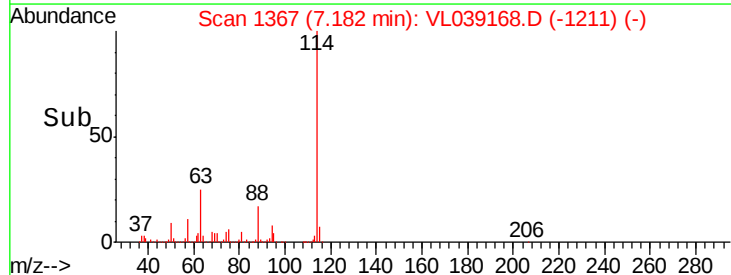
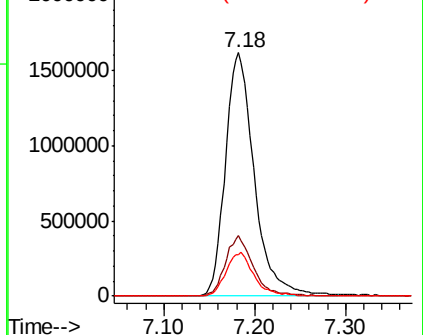
Acq: 4 Jun 2022 1:14

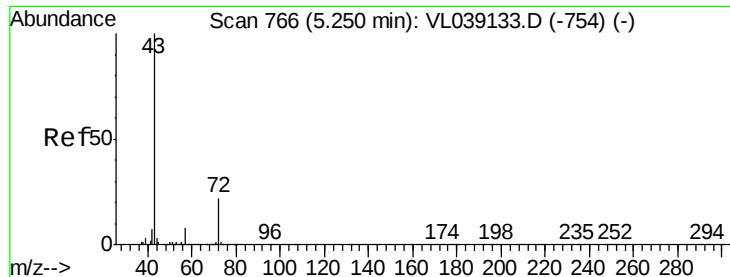
Tgt Ion: 114 Resp: 3584186

Ion	Ratio	Lower	Upper
114	100		
63	24.0	21.7	32.5
88	17.5	14.8	22.2



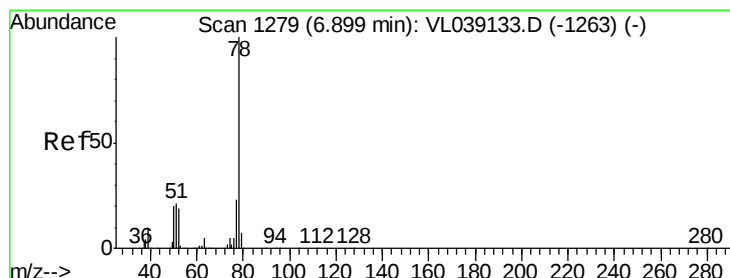
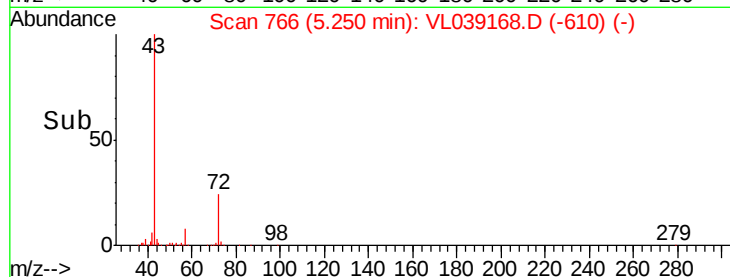
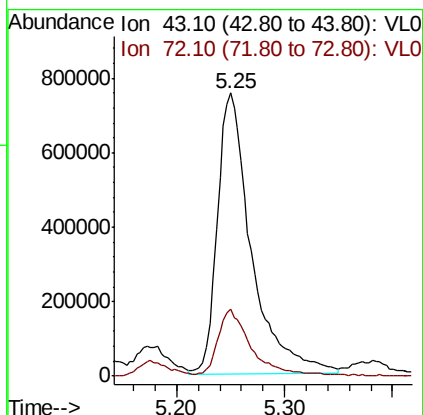
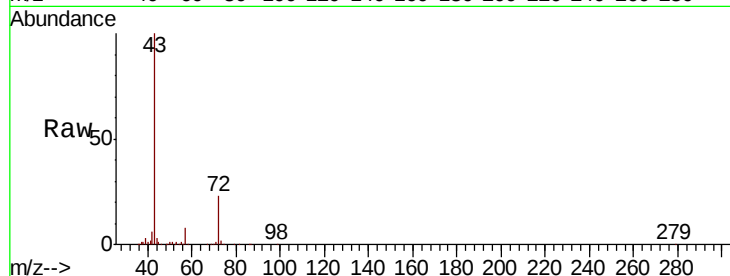
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





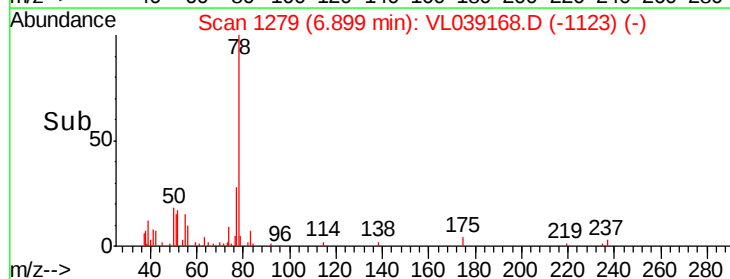
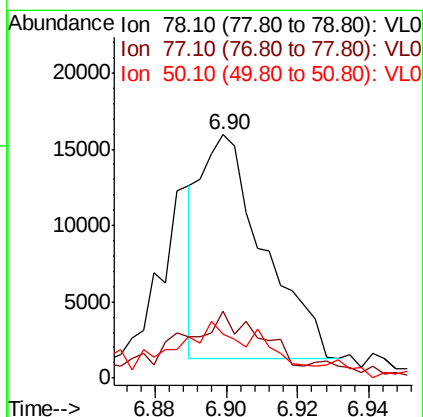
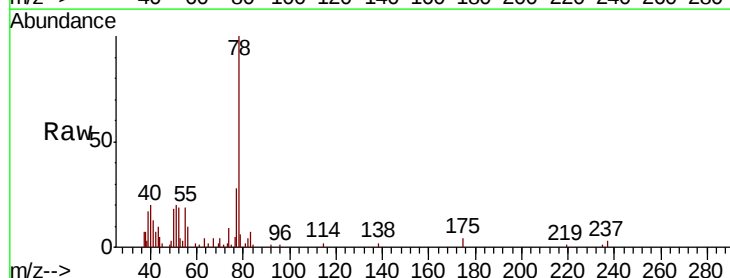
#34
2-Butanone
Concen: 8.528 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV3DUP
Acq: 4 Jun 2022 1:14

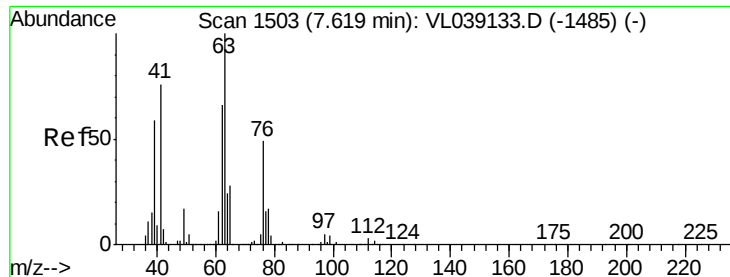
Tot Ion: 43 Resp: 1660654
Ion Ratio Lower Upper
43 100
72 23.4 18.2 27.2



#36
Benzene
Concen: 0.061 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.00 min
Lab File: VL039168.D
Acq: 4 Jun 2022 1:14

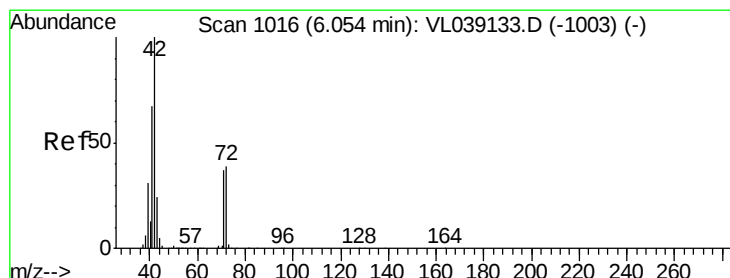
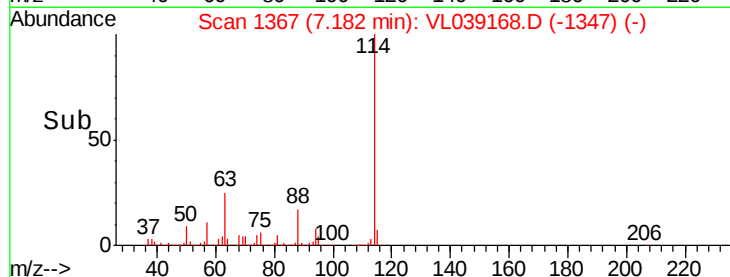
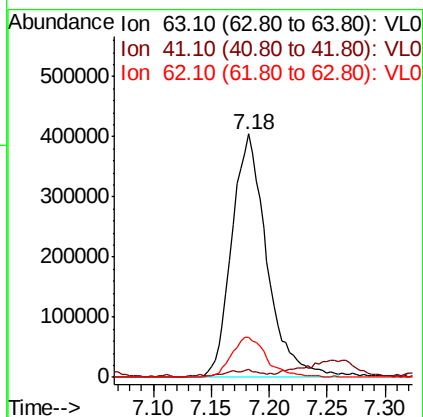
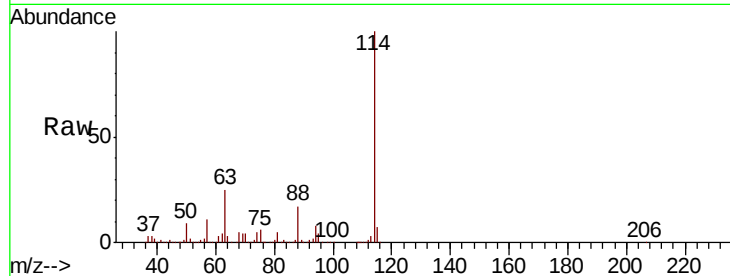
Tgt Ion: 78 Resp: 17874
Ion Ratio Lower Upper
78 100
77 25.2 18.6 27.8
50 11.5 15.8 23.8#





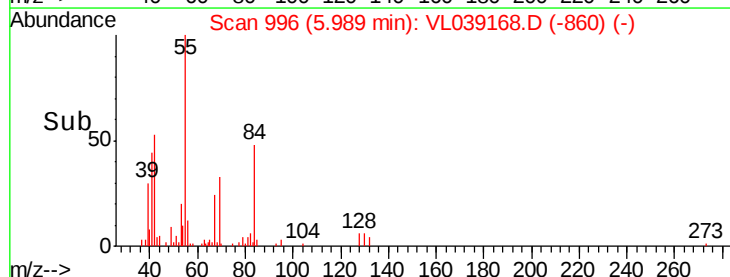
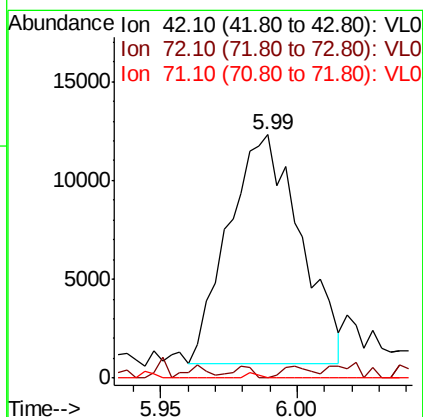
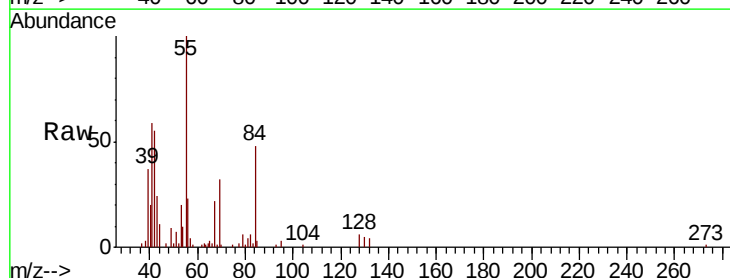
#39
 1,2-Dichloropropane
 Concen: 7.322 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV3DUP
 Acq: 4 Jun 2022 1:14

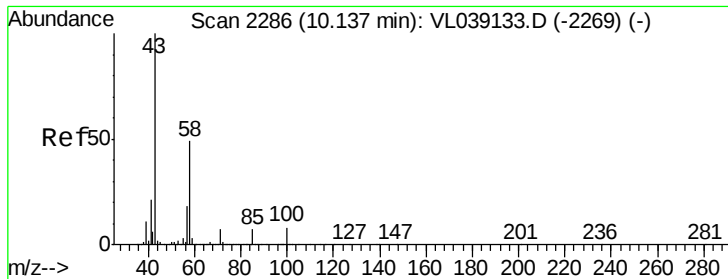
Tot Ion: 63 Resp: 847483
 Ion Ratio Lower Upper
 63 100
 41 2.9 60.8 91.2#
 62 16.6 52.9 79.3#



#41
 Tetrahydrofuran
 Concen: 0.180 ppbv
 RT: 5.99 min Scan# 996
 Delta R.T. -0.06 min
 Lab File: VL039168.D
 Acq: 4 Jun 2022 1:14

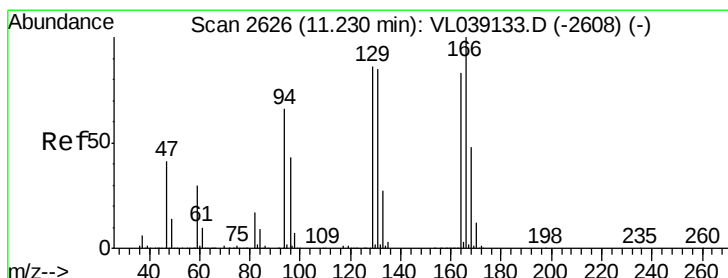
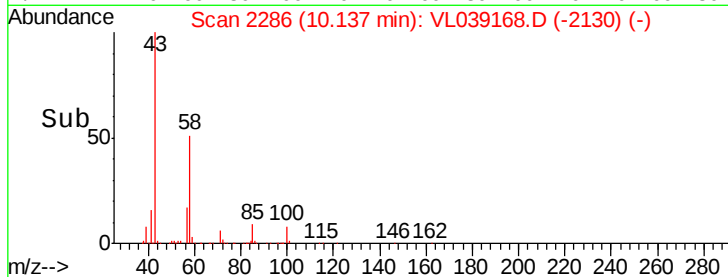
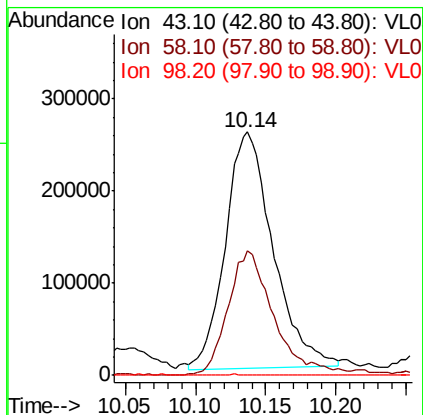
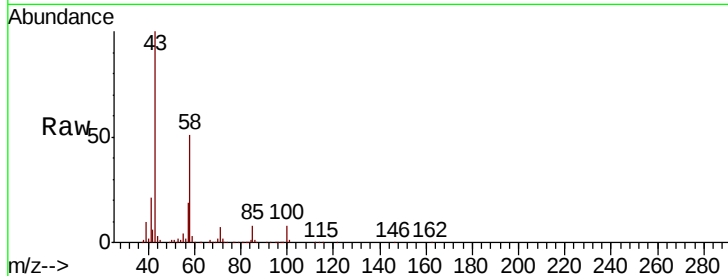
Tgt Ion: 42 Resp: 21065
 Ion Ratio Lower Upper
 42 100
 72 4.9 32.0 48.0#
 71 0.0 31.1 46.7#





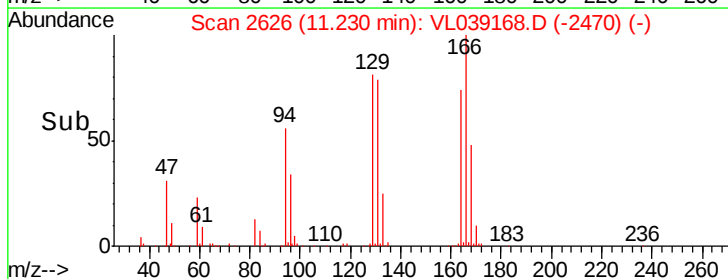
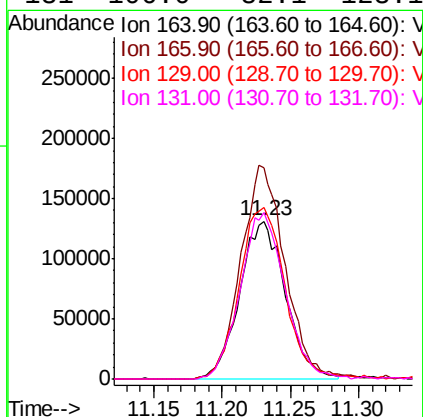
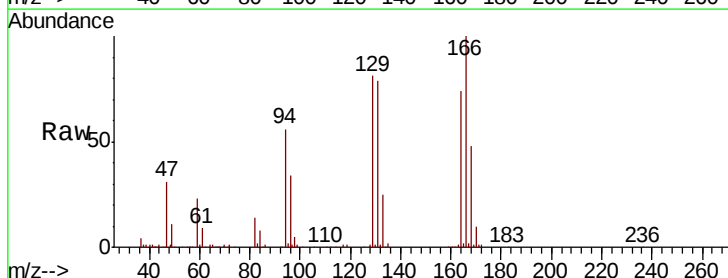
#51
2-Hexanone
Concen: 2.686 ppbv
RT: 10.14
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 4 Jun 2022 1:14

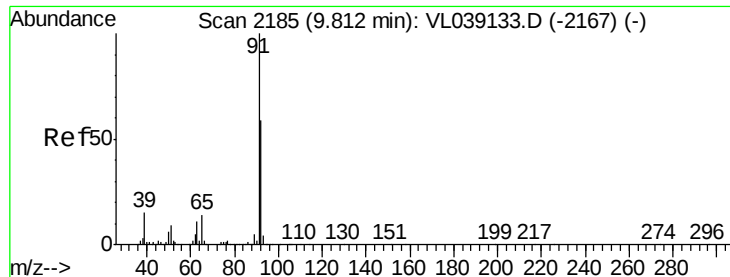
Tot Ion	Ratio	Lower	Upper
43	100		
58	50.8	40.0	60.0
98	0.3	0.1	0.1#



#52
Tetrachloroethene
Concen: 2.683 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL039168.D
Acq: 4 Jun 2022 1:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.3	96.3	144.5
129	109.0	82.5	123.7
131	106.0	82.1	123.1





#53

Toluene

Concen: 0.147 ppbv

RT: 9.81 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV3DUP

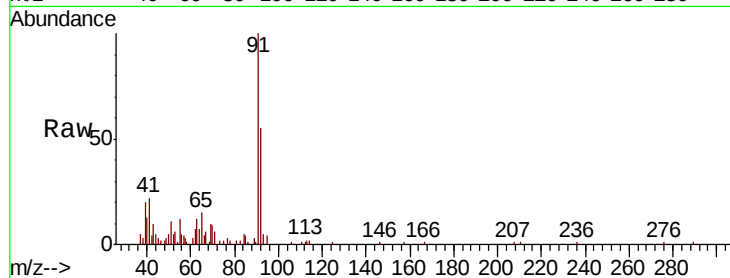
Acq: 4 Jun 2022 1:14

Tot Ion: 91 Resp: 49315

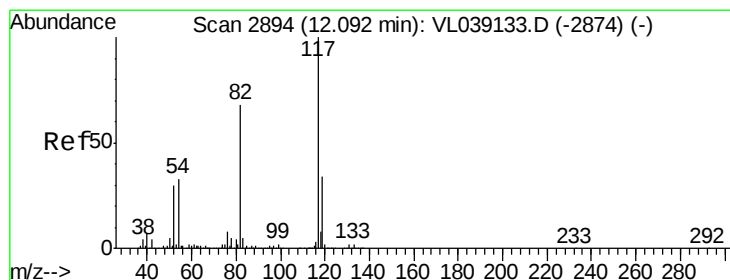
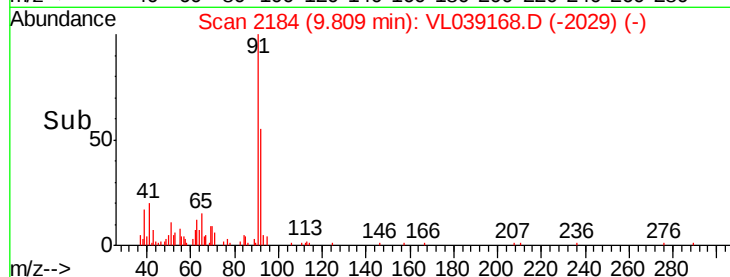
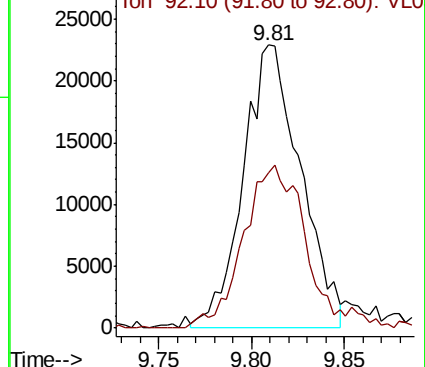
Ion Ratio Lower Upper

91 100

92 64.1 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL039168.D

Acq: 4 Jun 2022 1:14

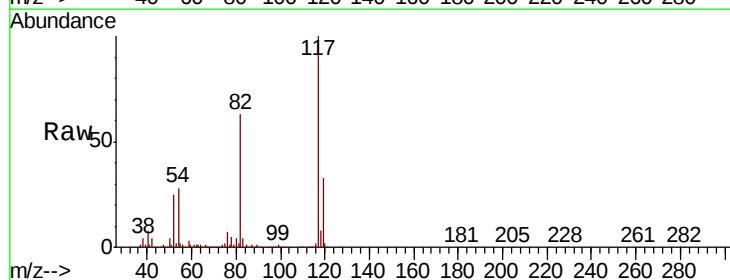
Tgt Ion: 117 Resp: 3215461

Ion Ratio Lower Upper

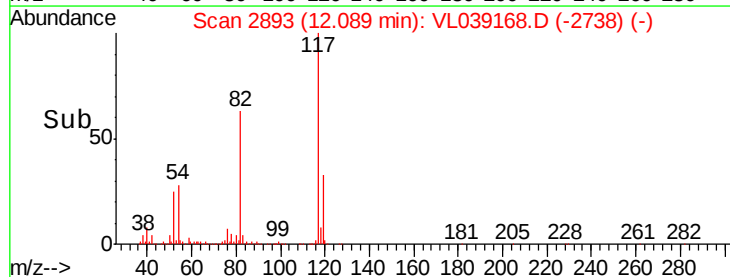
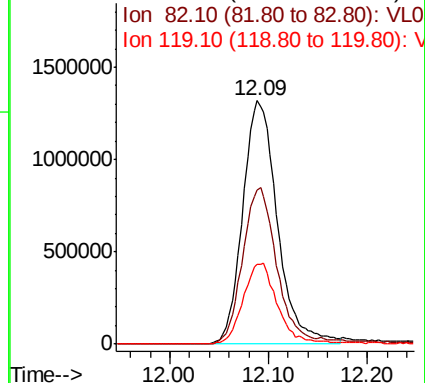
117 100

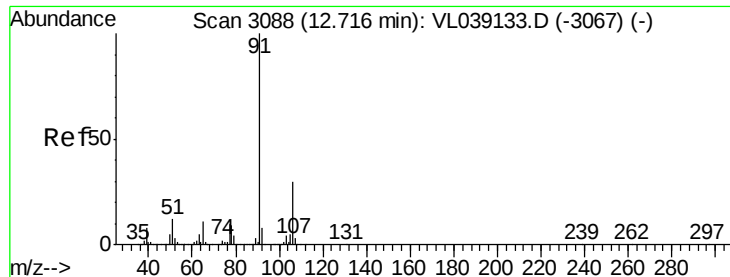
82 66.4 55.1 82.7

119 33.4 24.7 37.1



Abundance Ion 117.10 (116.80 to 117.80): V





#58

Ethyl Benzene

Concen: 0.044 ppbv

RT: 12.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

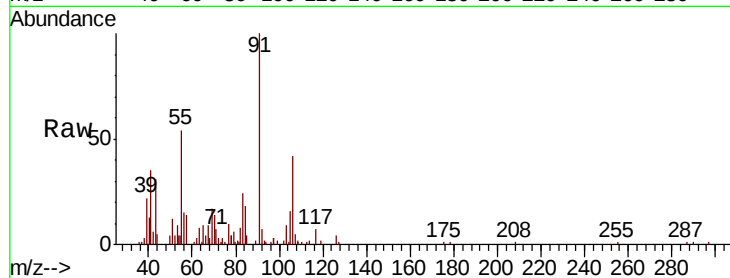
Acq: 4 Jun 2022 1:14

Tot Ion: 91 Resp: 19569

Ion Ratio Lower Upper

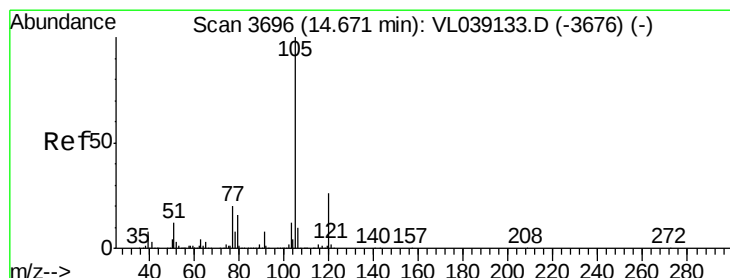
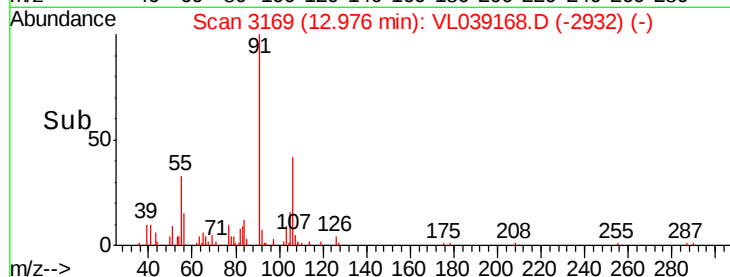
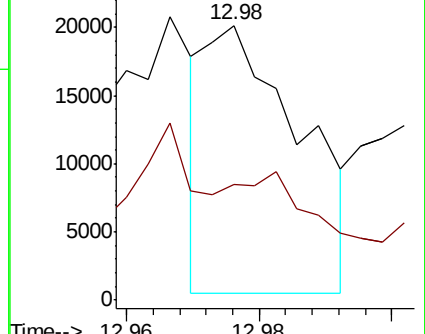
91 100

106 34.1 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#62

Isopropylbenzene

Concen: 0.098 ppbv

RT: 14.67 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VL039168.D

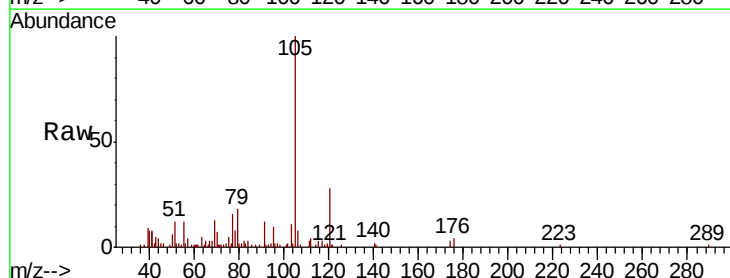
Acq: 4 Jun 2022 1:14

Tgt Ion: 105 Resp: 53203

Ion Ratio Lower Upper

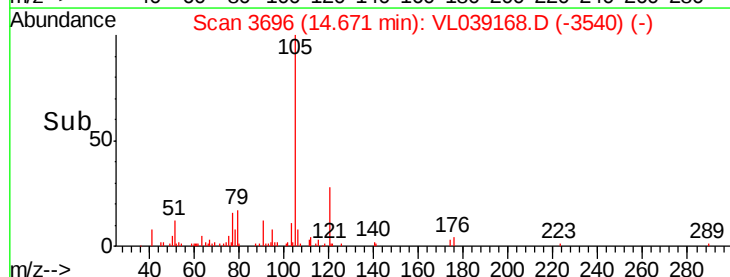
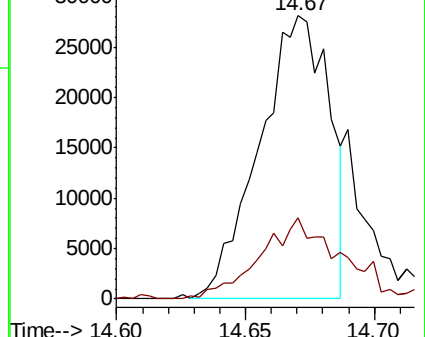
105 100

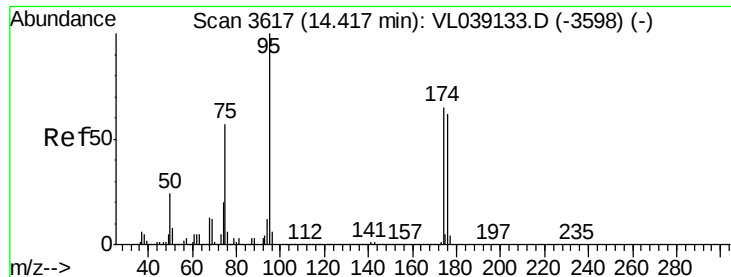
120 34.4 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): V

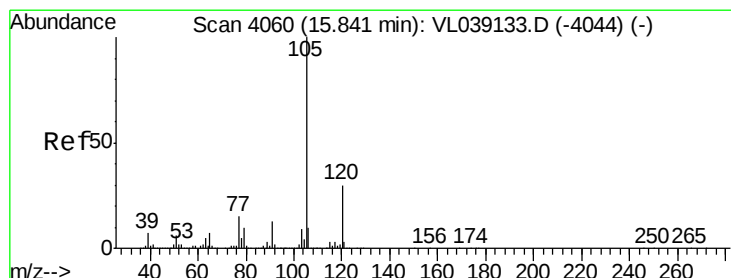
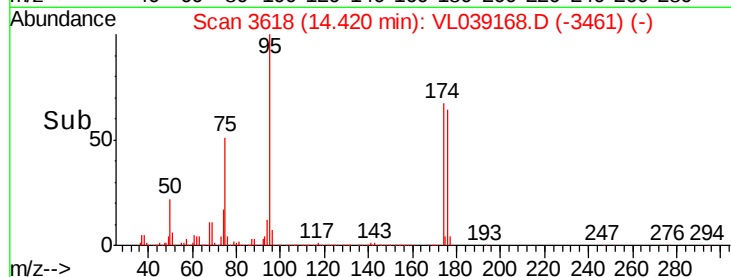
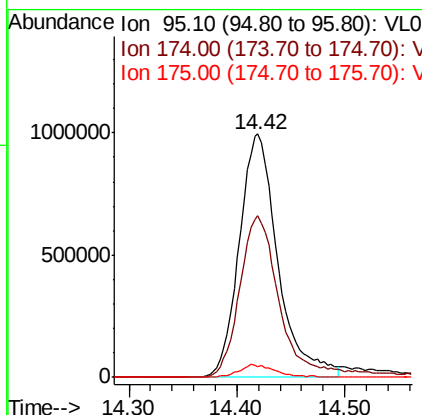
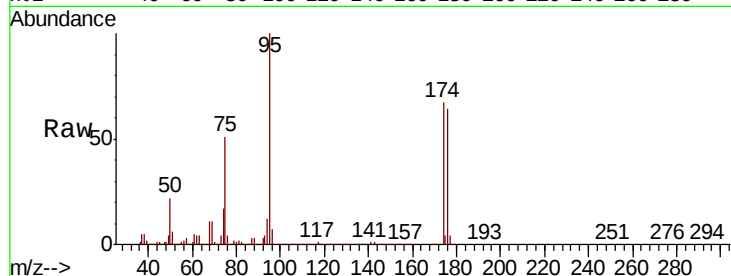
Ion 120.20 (119.90 to 120.90): V





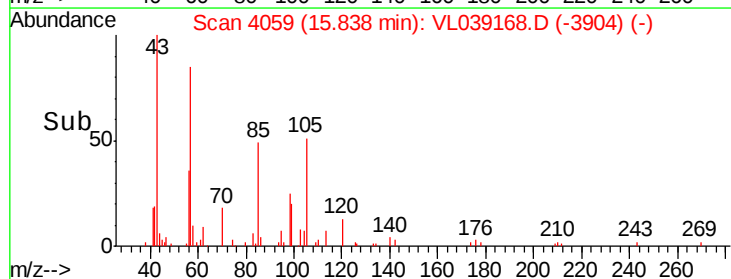
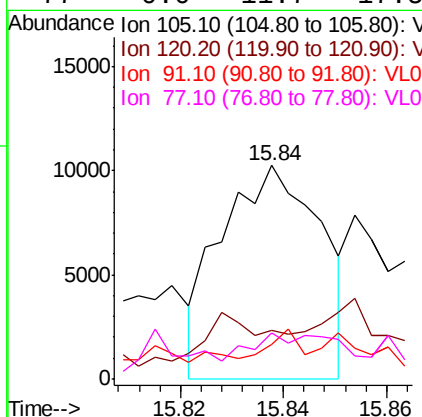
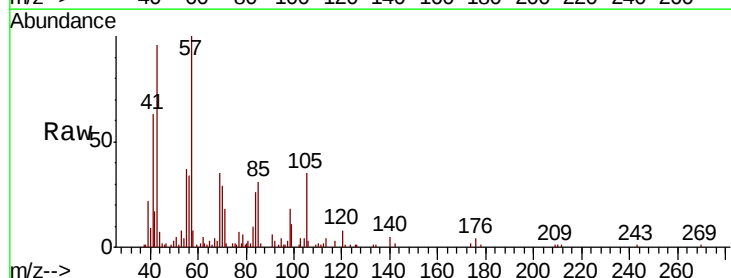
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.355 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 SV3DUP
 Acq: 4 Jun 2022 1:14

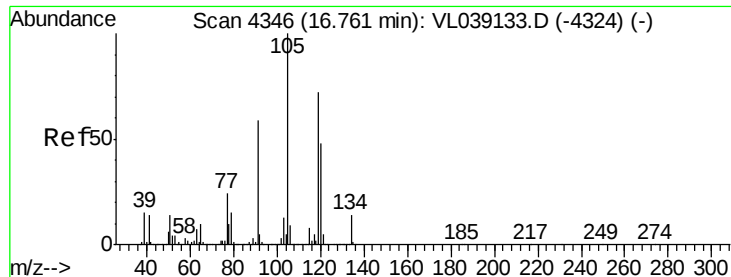
Tot Ion: 95 Resp: 2486891
 Ion Ratio Lower Upper
 95 100
 174 71.4 53.8 80.8
 175 5.1 4.1 6.1



#72
 4-Ethyltoluene
 Concen: 0.032 ppbv
 RT: 15.84 min Scan# 4059
 Delta R.T. -0.00 min
 Lab File: VL039168.D
 Acq: 4 Jun 2022 1:14

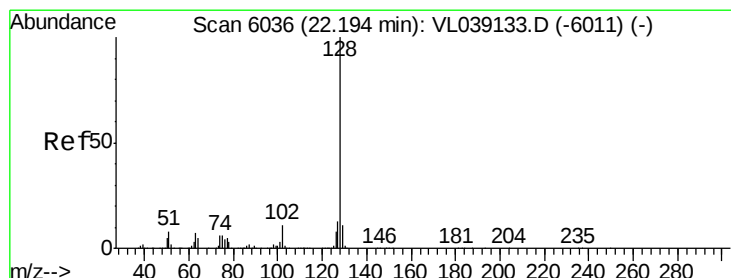
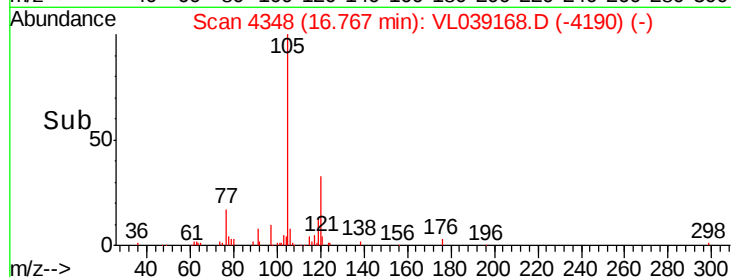
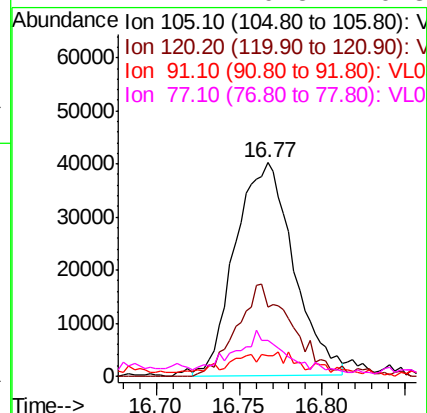
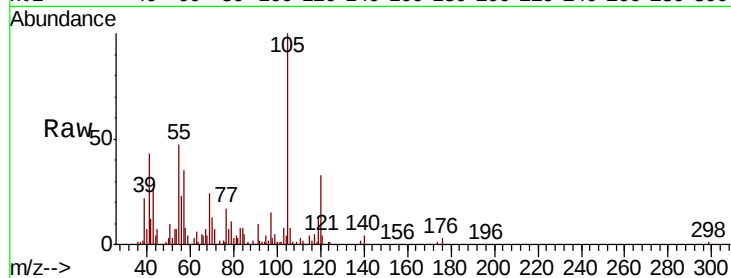
Tgt Ion: 105 Resp: 13747
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.9 35.9#
 91 23.4 10.6 16.0#
 77 0.0 11.7 17.5#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.227 ppbv
 RT: 16.77 min
 Delta R.T.: 0.00 min
 Lab File: VL039133.D
 Acq: 4 Jun 2022 1:14

Tot Ion:	105	Resp:	98138
Ion Ratio	Lower	Upper	
105	100		
120	33.3	38.1	57.1#
91	7.4	47.4	71.0#
77	14.4	19.5	29.3#



#79
 Naphthalene
 Concen: 0.040 ppbv
 RT: 22.20 min Scan# 6037
 Delta R.T.: 0.00 min
 Lab File: VL039168.D
 Acq: 4 Jun 2022 1:14

Tgt Ion:	128	Resp:	13286
Ion Ratio	Lower	Upper	
128	100		
127	21.1	10.4	15.6#
129	5.0	9.0	13.6#

