

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038925.D
 Acq On : 14 Apr 2022 19:25
 Operator : SY/AP
 Sample : MDL 0.1 NAPHT.
 Misc : 400mL/MSVOA L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 15 08:07:33 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1066533	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	2507346	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2142783	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1868705	11.50	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	115.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	26712	0.177 ppbv	# 82
3) Chlorodifluoromethane	3.00	51	17311	0.133 ppbv	# 85
4) Chloromethane	3.14	50	3642	0.054 ppbv	# 63
5) Vinyl Chloride	3.27	62	6558	0.105 ppbv	# 84
6) Bromomethane	3.48	94	1629	0.054 ppbv	# 51
7) Chloroethane	3.57	64	2123	0.102 ppbv	# 78
8) Dichlorotetrafluoroethane	3.20	85	15187	0.107 ppbv	# 90
9) Propene	3.02	41	4547	0.066 ppbv	# 16
10) Heptane	8.13	43	8535	0.049 ppbv	# 16
11) Trichlorofluoromethane	3.96	101	15975	0.131 ppbv	# 98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5347	0.057 ppbv	# 12
13) Ethanol	3.61	45	276	0.066 ppbv	# 100
14) Bromoethene	3.75	108	4552	0.111 ppbv	# 75
16) 1,3-Butadiene	3.34	39	3884	0.064 ppbv	# 12
17) tert-Butyl alcohol	4.32	59	3137	0.033 ppbv	# 60
18) 1,1-Dichloroethene	4.29	96	2608	0.061 ppbv	# 74
20) Methylene Chloride	4.36	84	2437	0.063 ppbv	# 18
21) Allyl Chloride	4.42	41	3206	0.040 ppbv	# 23
22) trans-1,2-Dichloroethene	4.89	96	2720	0.063 ppbv	# 43
24) 1,1-Dichloroethane	5.01	63	6964	0.075 ppbv	# 60
25) Ethyl Acetate	5.70	43	13687	0.051 ppbv	# 76
26) Hexane	5.70	57	6018	0.049 ppbv	# 1
27) Carbon Disulfide	4.56	76	3564	0.032 ppbv	# 62
29) Chloroform	5.76	83	9694	0.056 ppbv	# 88
31) cis-1,2-Dichloroethene	5.55	61	4503	0.040 ppbv	# 86
32) 1,1,1-Trichloroethane	6.53	97	6690	0.039 ppbv	# 1
35) Carbon Tetrachloride	7.02	117	9393	0.062 ppbv	# 87
36) Benzene	6.90	78	20137	0.088 ppbv	# 91
37) 1,2-Dichloroethane	6.31	62	15570	0.149 ppbv	# 88
38) Trichloroethene	7.83	130	3160	0.034 ppbv	# 95
39) 1,2-Dichloropropane	7.18	63	720439	8.258 ppbv	# 27
42) Bromodichloromethane	7.80	83	9844	0.060 ppbv	# 91
44) 2,2,4-Trimethylpentane	7.88	57	35221	0.091 ppbv	# 85
52) Tetrachloroethene	11.24	164	4856	0.061 ppbv	# 58
53) Toluene	9.81	91	15294	0.058 ppbv	# 49
54) 1,2-Dibromoethane	10.61	107	4511	0.036 ppbv	# 89
56) 1,1,1,2-Tetrachloroethane	12.14	131	5577	0.059 ppbv	# 17
57) Chlorobenzene	12.15	112	10080	0.057 ppbv	# 44
59) m/p-Xylene	13.01	91	12416	0.046 ppbv	# 1
60) o-Xylene	13.70	91	9812	0.039 ppbv	# 29
62) Isopropylbenzene	14.68	105	19274	0.051 ppbv	# 48

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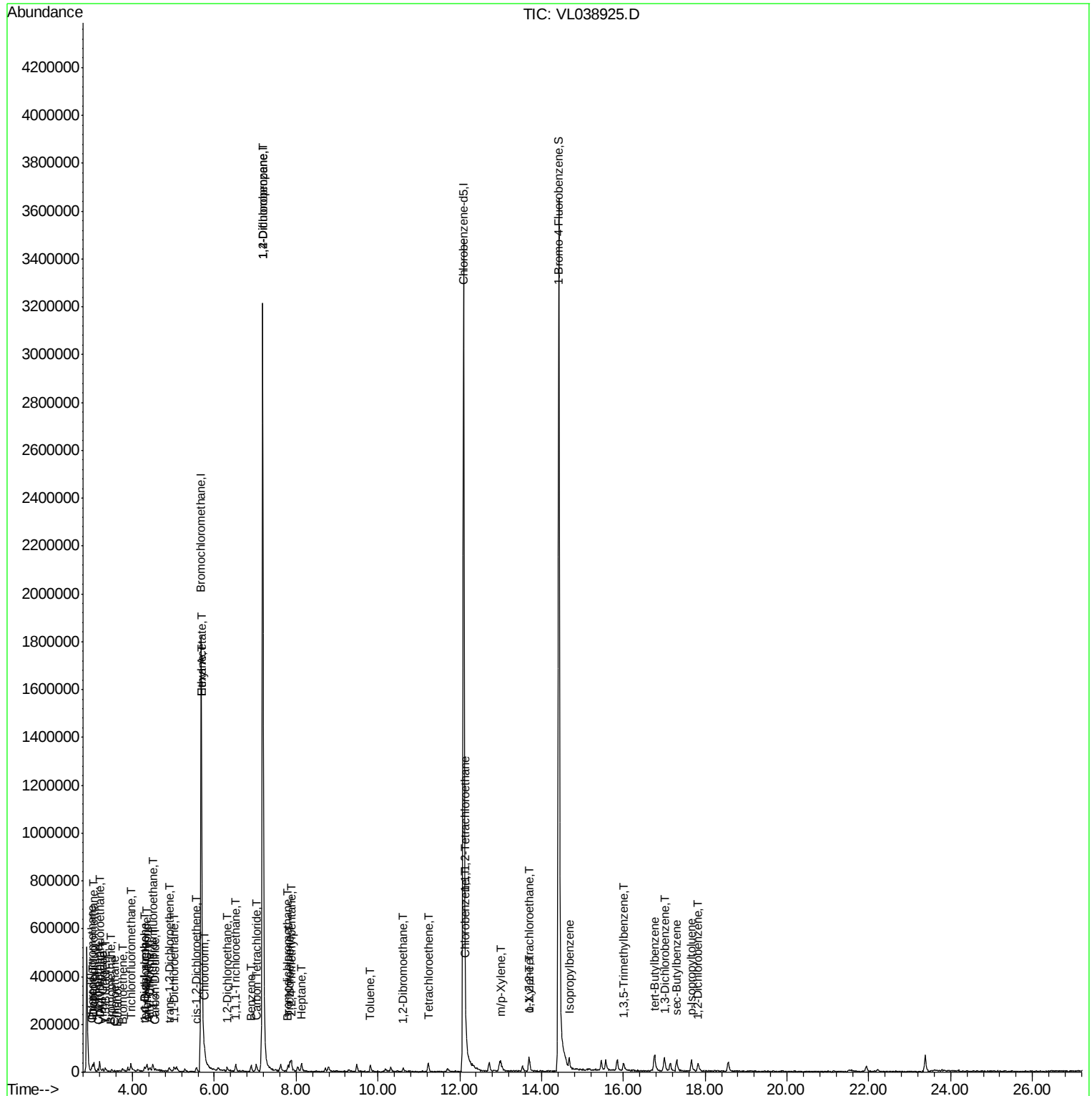
Quant Time: Apr 15 08:07:33 2022
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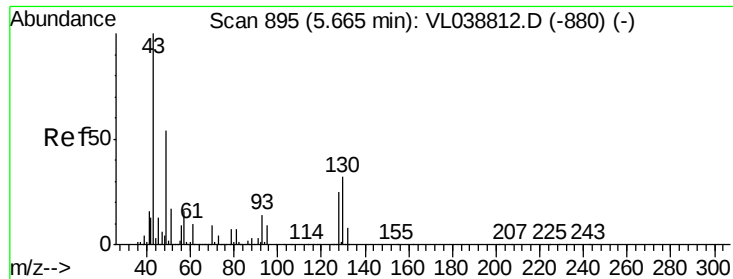
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,1,2,2-Tetrachloroethane	13.68	83	7490	0.047	ppbv #	23
65) tert-Butylbenzene	16.75	119	16088	0.048	ppbv #	20
67) sec-Butylbenzene	17.30	105	17783	0.038	ppbv #	40
69) p-Isopropyltoluene	17.66	119	30613	0.079	ppbv #	88
73) 1,3,5-Trimethylbenzene	16.01	105	8166	0.030	ppbv #	76
75) 1,3-Dichlorobenzene	17.00	146	7854	0.047	ppbv #	15
77) 1,2-Dichlorobenzene	17.83	146	8129	0.050	ppbv #	4

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

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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 14 Apr 2022 19:25

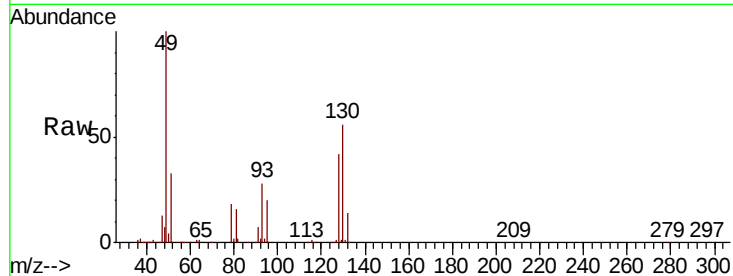
Tot Ion: 49 Resp: 1066533

Ion Ratio Lower Upper

49 100

128 45.9 24.1 72.3

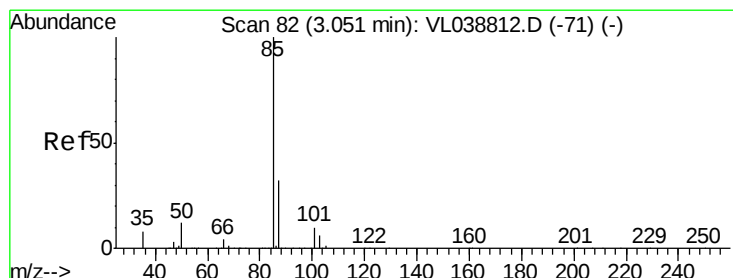
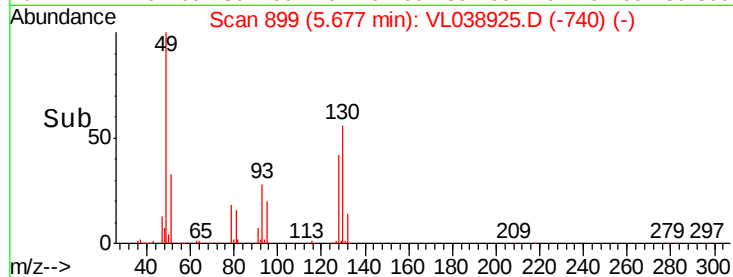
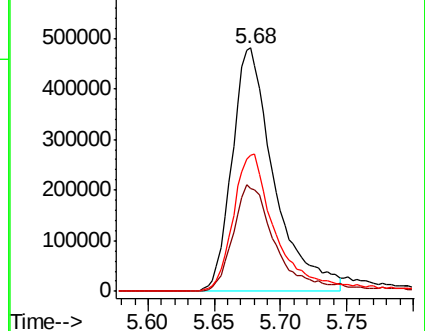
130 60.1 30.9 92.8



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: 0.177 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL038925.D

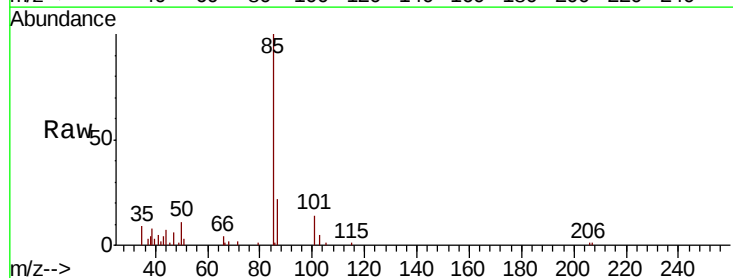
Acq: 14 Apr 2022 19:25

Tgt Ion: 85 Resp: 26712

Ion Ratio Lower Upper

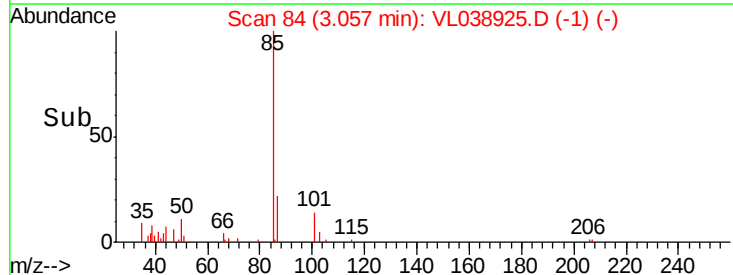
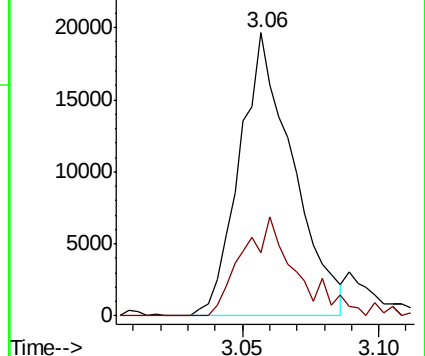
85 100

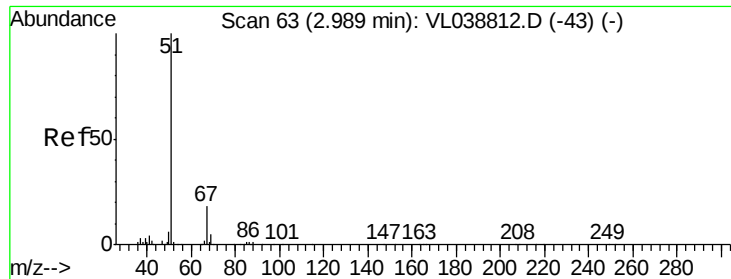
87 22.5 25.9 38.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.133 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

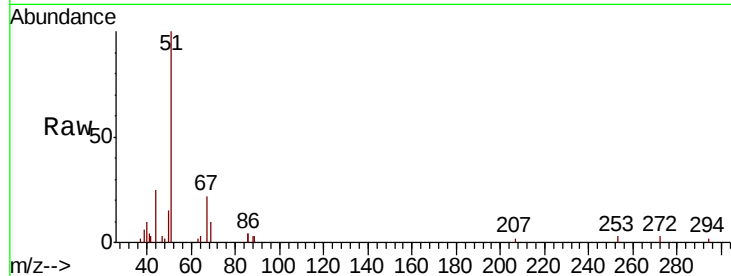
Acq: 14 Apr 2022 19:25

Tot Ion: 51 Resp: 17311

Ion Ratio Lower Upper

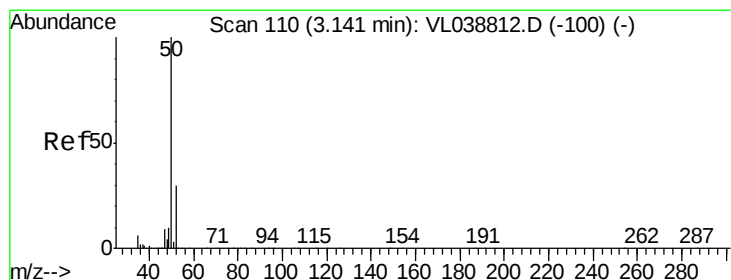
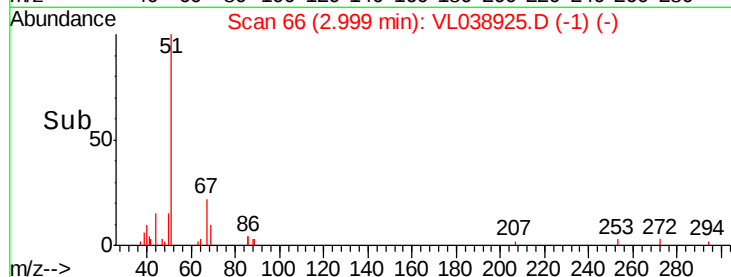
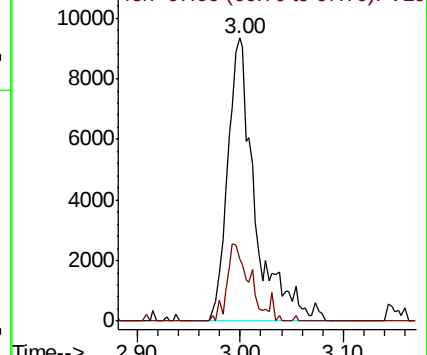
51 100

67 23.1 13.4 20.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.054 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL038925.D

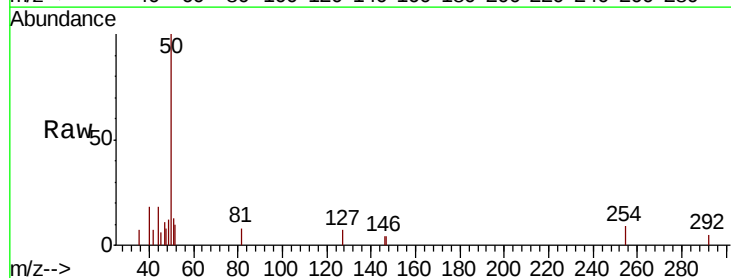
Acq: 14 Apr 2022 19:25

Tgt Ion: 50 Resp: 3642

Ion Ratio Lower Upper

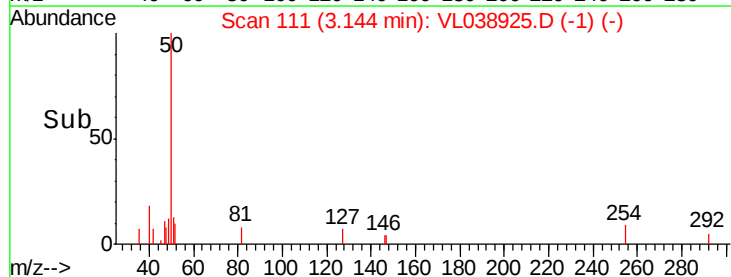
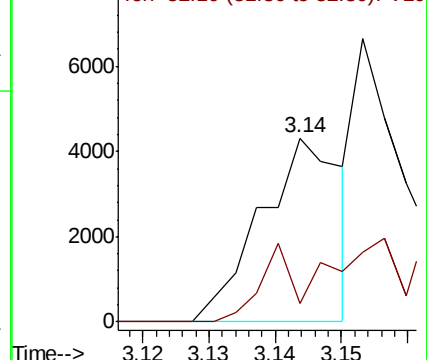
50 100

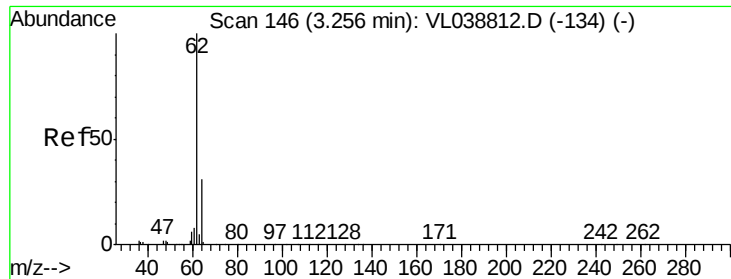
52 10.0 24.3 36.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.105 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_1

Lab File:

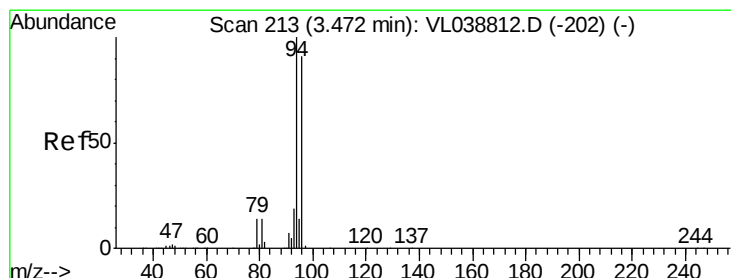
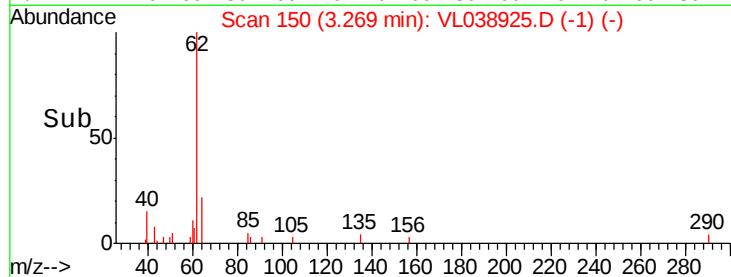
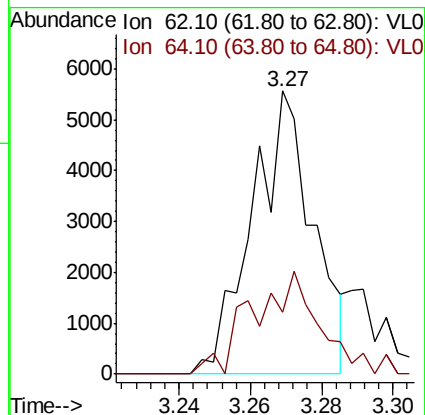
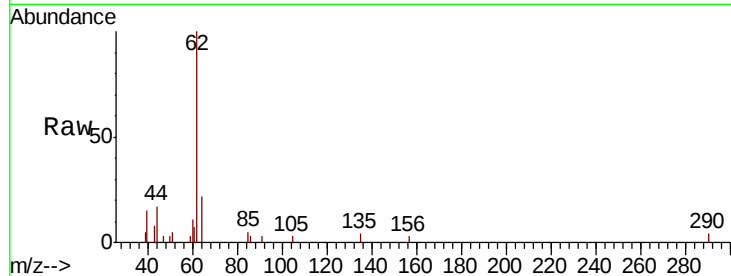
Acq: 14 Apr 2022 19:25

Tot Ion: 62 Resp: 6558

Ion Ratio Lower Upper

62 100

64 21.8 24.6 37.0#



#6

Bromomethane

Concen: 0.054 ppbv

RT: 3.48 min Scan# 217

Delta R.T. 0.01 min

Lab File: VL038925.D

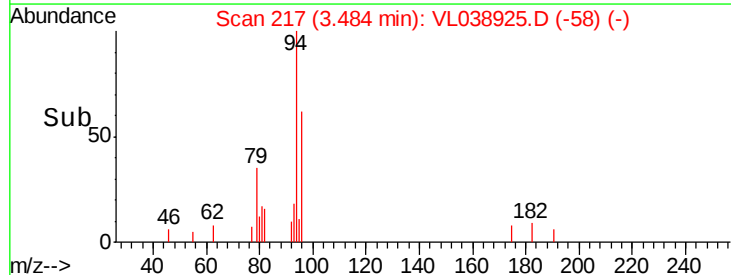
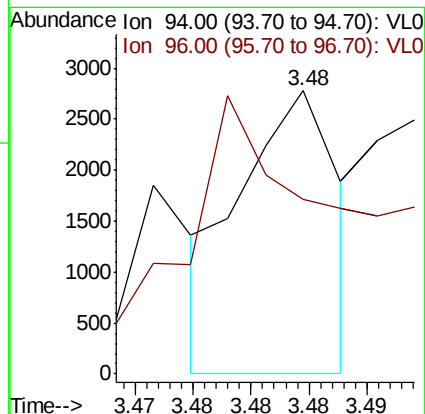
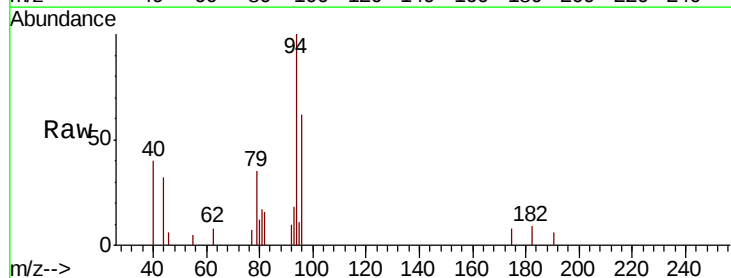
Acq: 14 Apr 2022 19:25

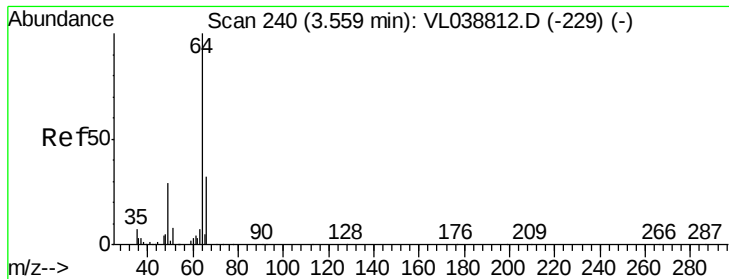
Tgt Ion: 94 Resp: 1629

Ion Ratio Lower Upper

94 100

96 45.1 73.2 109.8#





#7

Chloroethane

Concen: 0.102 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

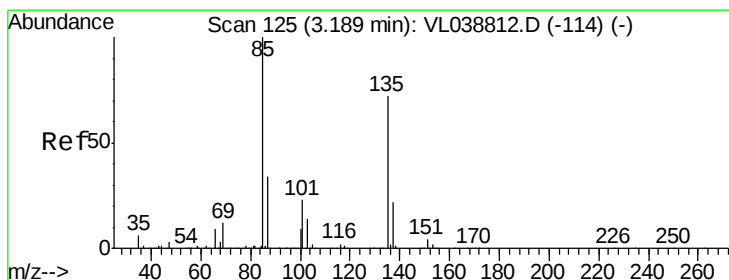
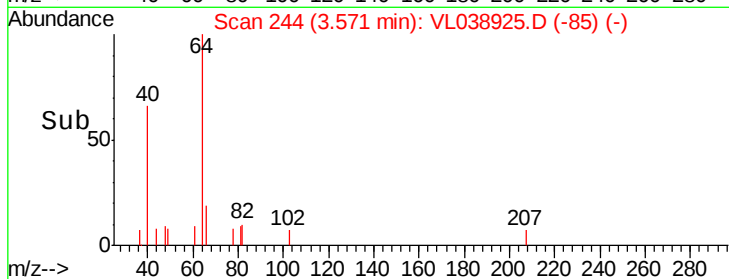
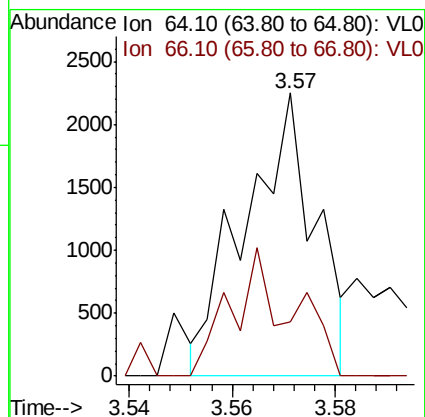
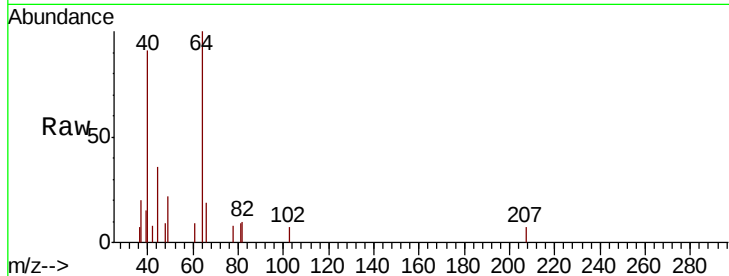
Acq: 14 Apr 2022 19:25

Tot Ion: 64 Resp: 2123

Ion Ratio Lower Upper

64 100

66 19.4 25.4 38.2#



#8

Dichlorotetrafluoroethane

Concen: 0.107 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.01 min

Lab File: VL038925.D

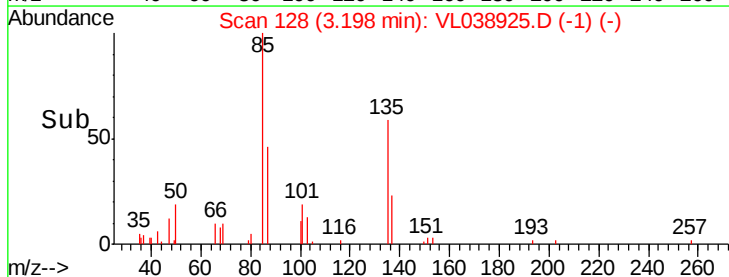
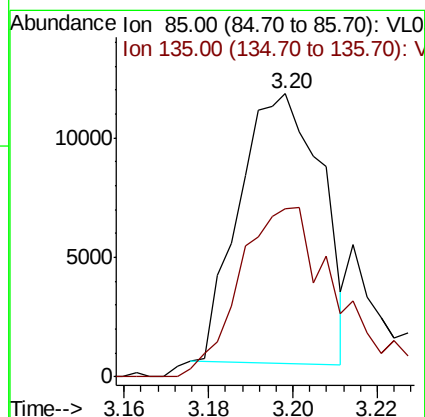
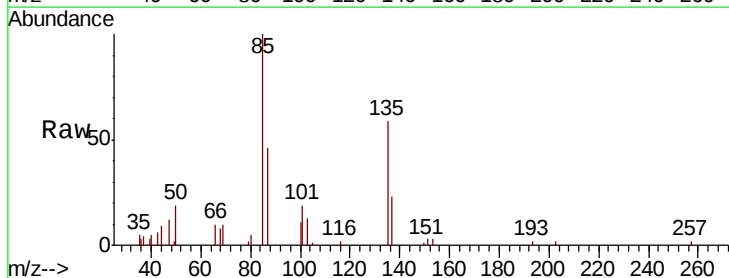
Acq: 14 Apr 2022 19:25

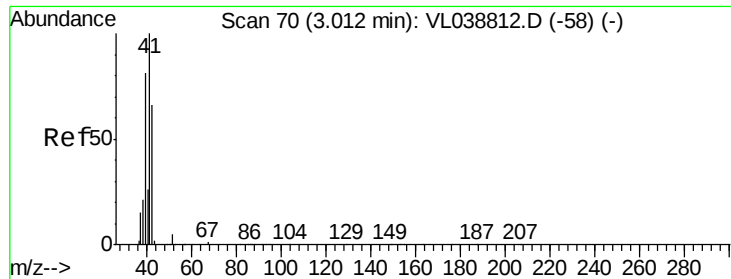
Tgt Ion: 85 Resp: 15187

Ion Ratio Lower Upper

85 100

135 79.6 57.0 85.6





#9

Propene

Concen: 0.066 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

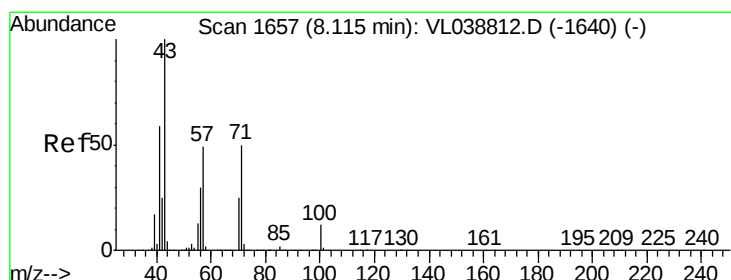
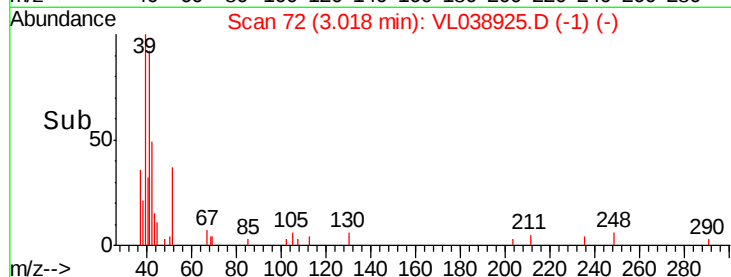
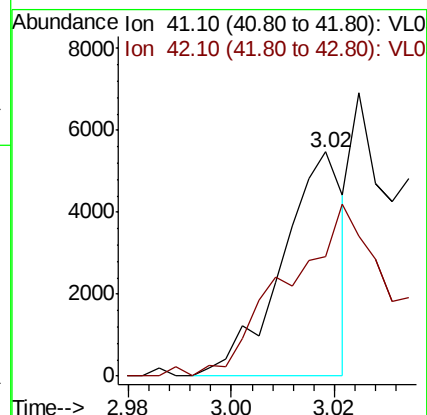
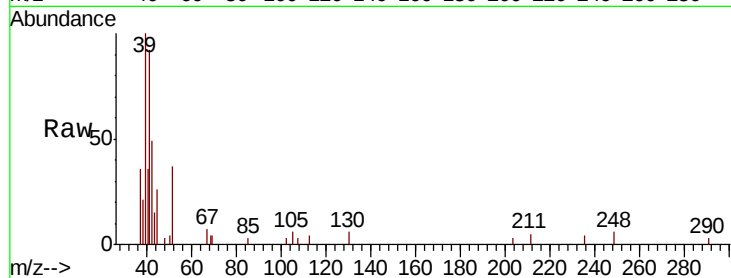
Acq: 14 Apr 2022 19:25

Tot Ion: 41 Resp: 4547

Ion Ratio Lower Upper

41 100

42 0.0 54.2 81.4#



#10

Heptane

Concen: 0.049 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.02 min

Lab File: VL038925.D

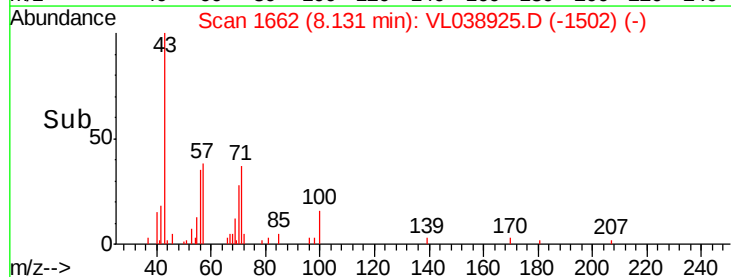
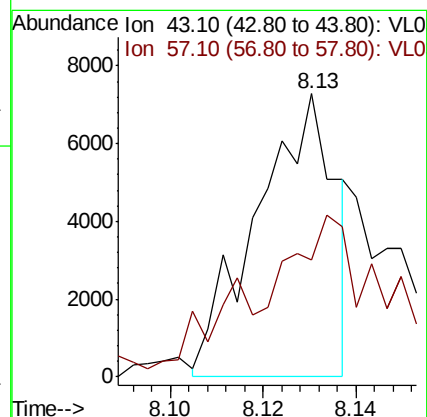
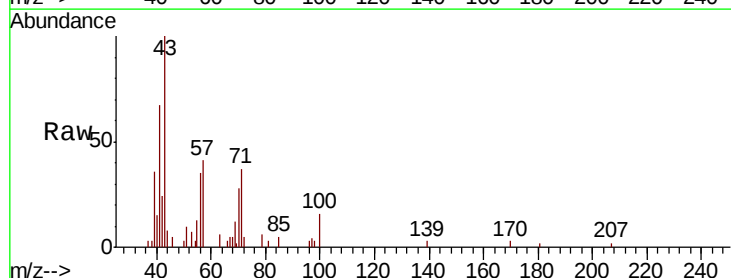
Acq: 14 Apr 2022 19:25

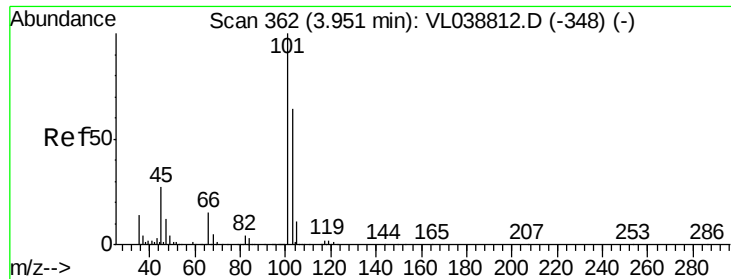
Tgt Ion: 43 Resp: 8535

Ion Ratio Lower Upper

43 100

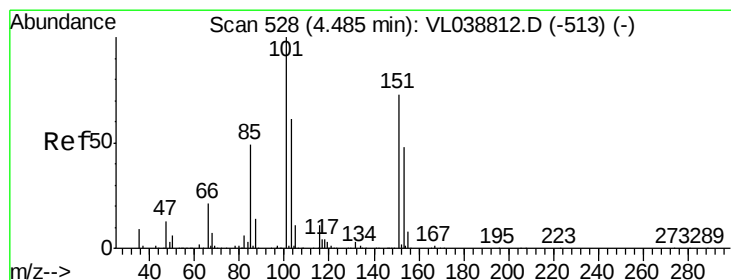
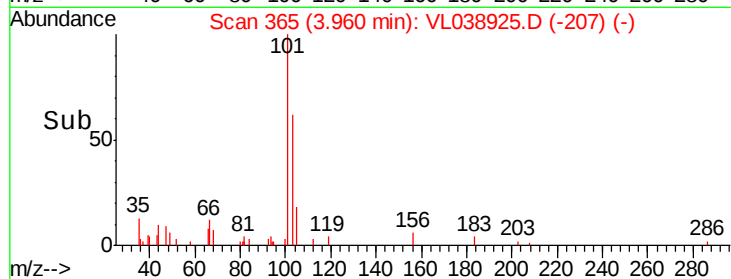
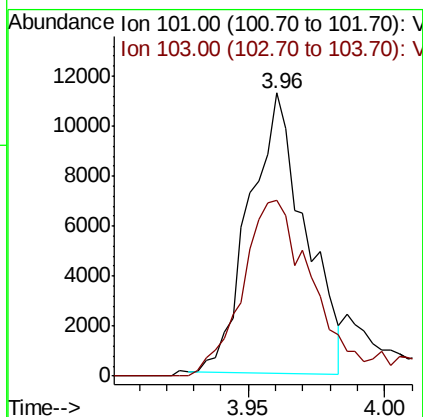
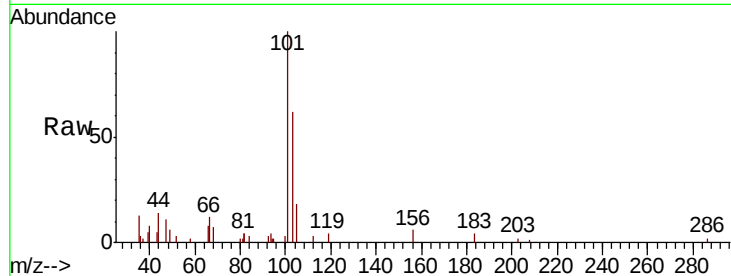
57 106.4 39.3 58.9#





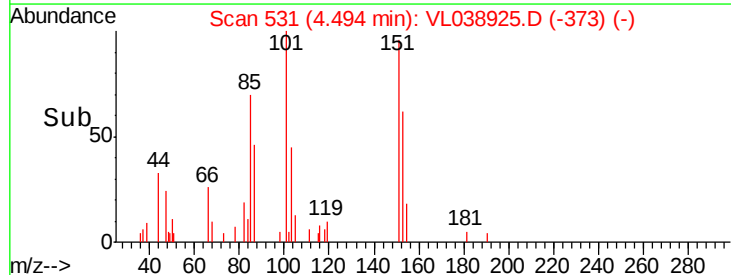
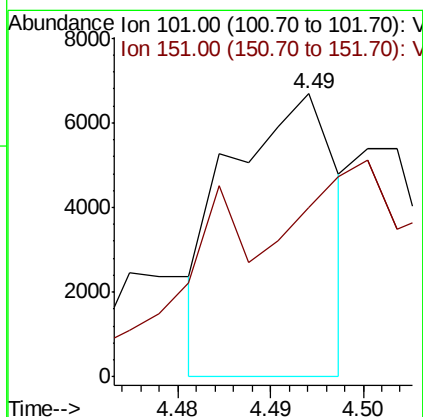
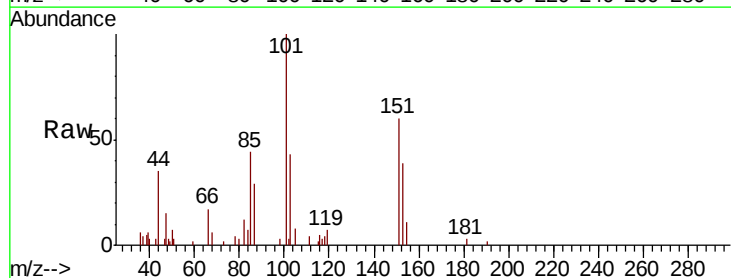
#11
 Trichlorofluoromethane
 Concen: 0.131 ppbv
 RT: 3.96 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 19:25

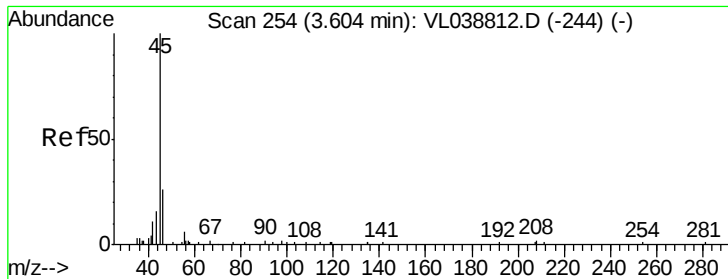
Tot Ion:101 Resp: 15975
 Ion Ratio Lower Upper
 101 100
 103 62.9 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.057 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VL038925.D
 Acq: 14 Apr 2022 19:25

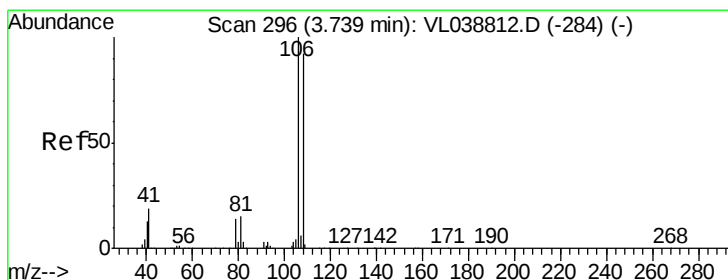
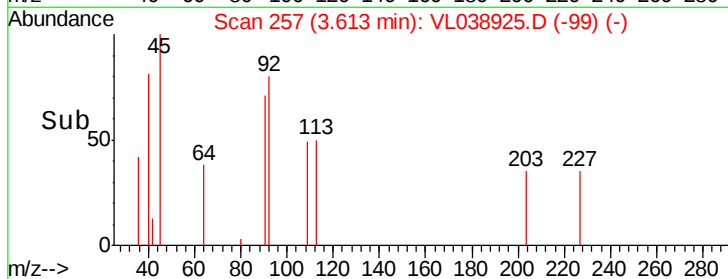
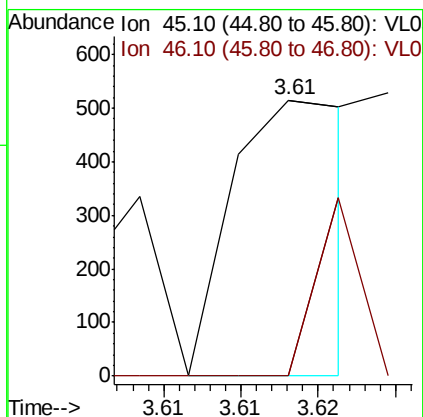
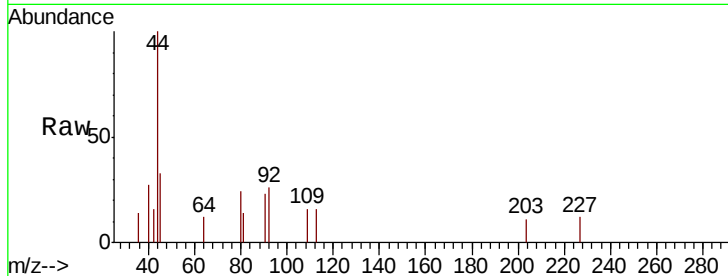
Tgt Ion:101 Resp: 5347
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.9 89.9#





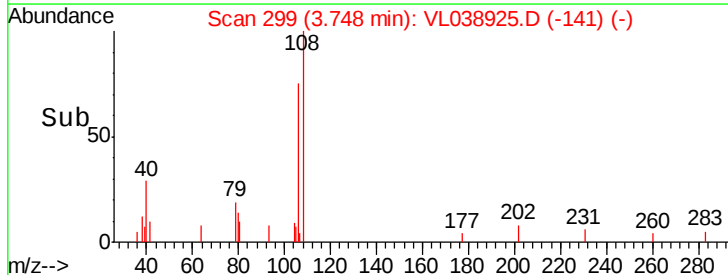
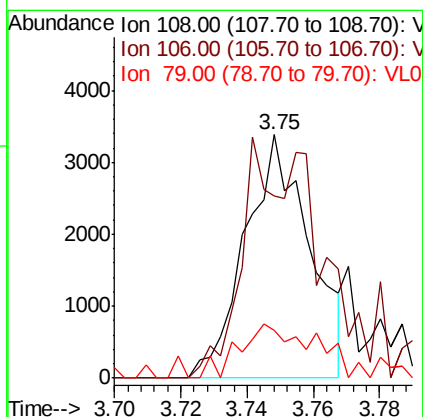
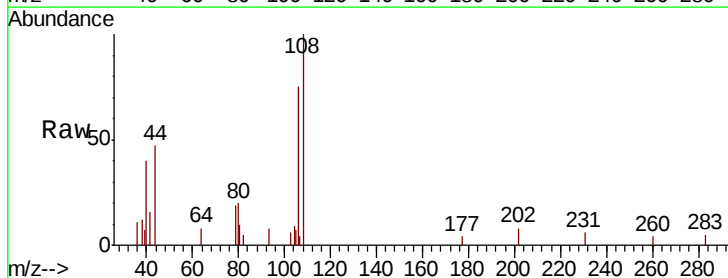
#13
Ethanol
Concen: 0.066 ppbv
RT: 3.61 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Apr 2022 19:25

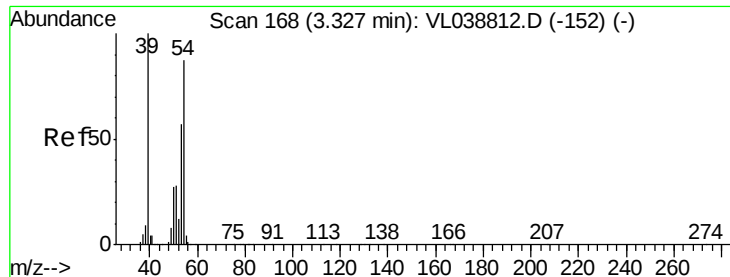
Tot Ion	45	46	Ratio	Lower	Upper
Resp:	276				
Ion	100	0.0		0.0	0.0



#14
Bromoethene
Concen: 0.111 ppbv
RT: 3.75 min Scan# 299
Delta R.T. 0.01 min
Lab File: VL038925.D
Acq: 14 Apr 2022 19:25

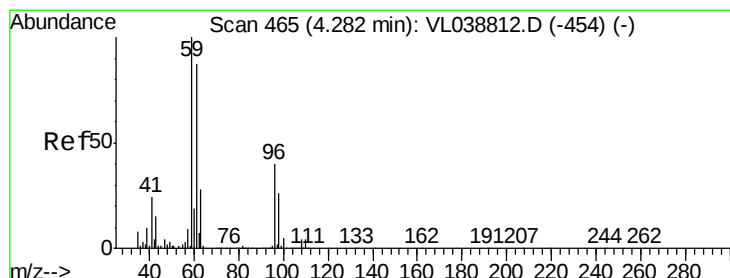
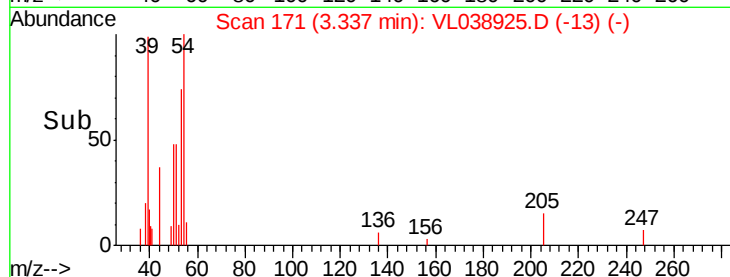
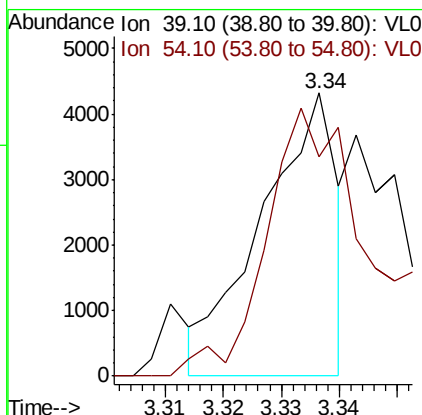
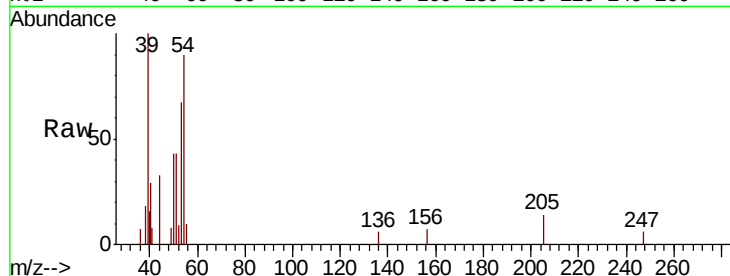
Tgt Ion	108	106	79	Ratio	Lower	Upper
Resp:	4552					
Ion	100	137.8	36.6		91.5	137.3#
					13.7	20.5#





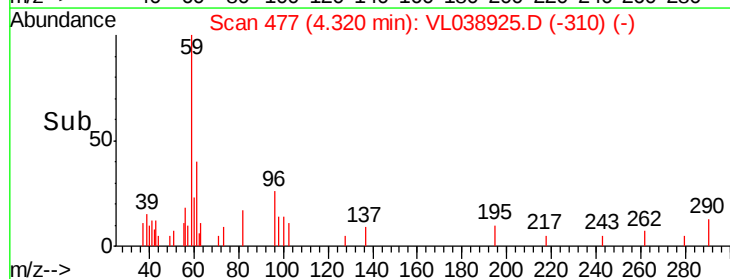
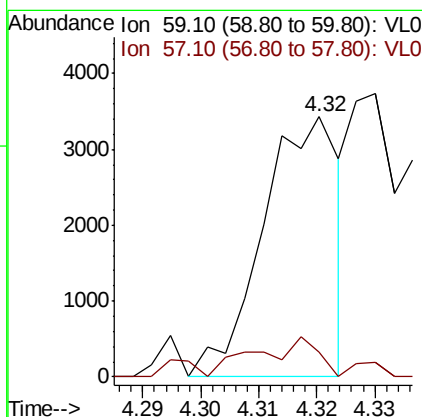
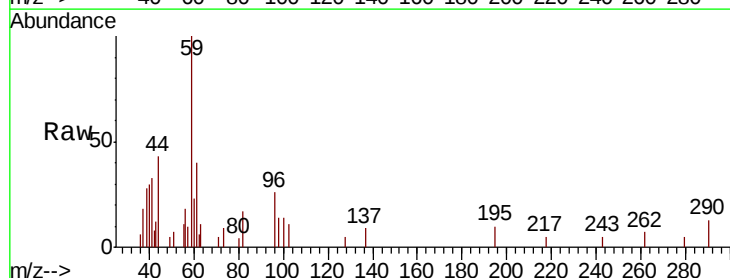
#16
 1,3-Butadiene
 Concen: 0.064 ppbv
 RT: 3.34 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 19:25

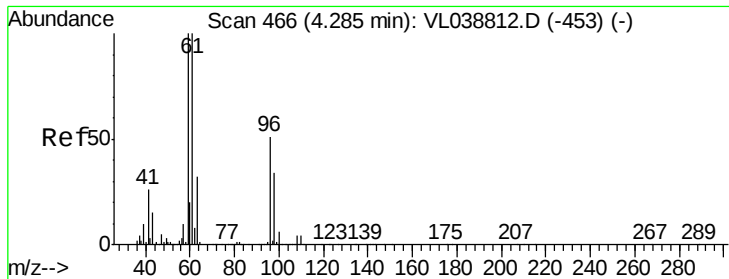
Tot Ion: 39 Resp: 3884
 Ion Ratio Lower Upper
 39 100
 54 159.2 64.8 97.2#



#17
 tert-Butyl alcohol
 Concen: 0.033 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. 0.04 min
 Lab File: VL038925.D
 Acq: 14 Apr 2022 19:25

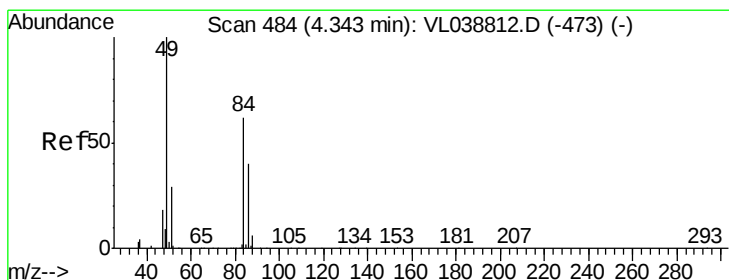
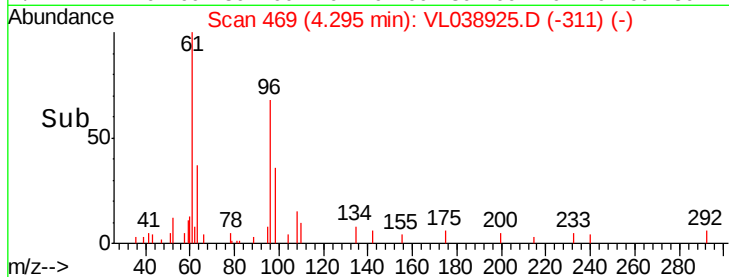
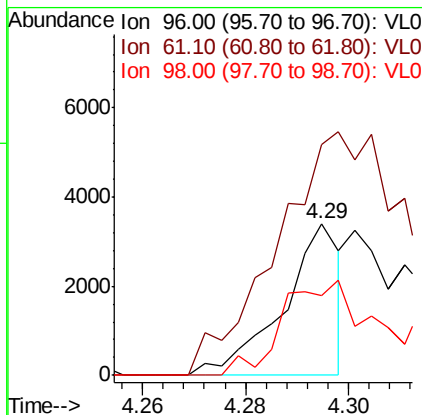
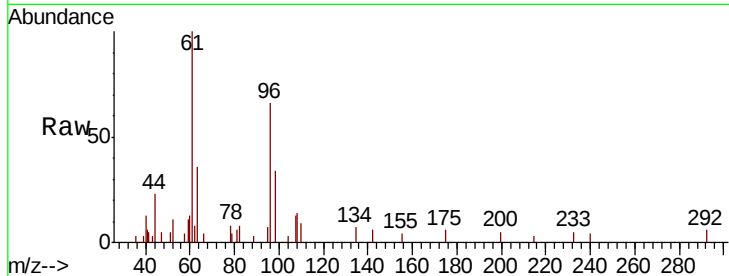
Tgt Ion: 59 Resp: 3137
 Ion Ratio Lower Upper
 59 100
 57 25.7 8.5 12.7#





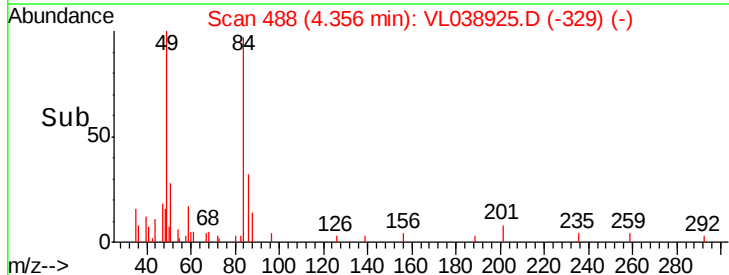
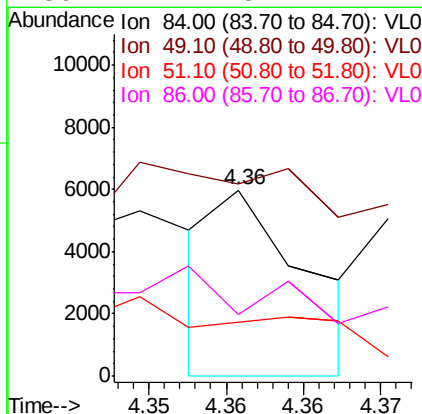
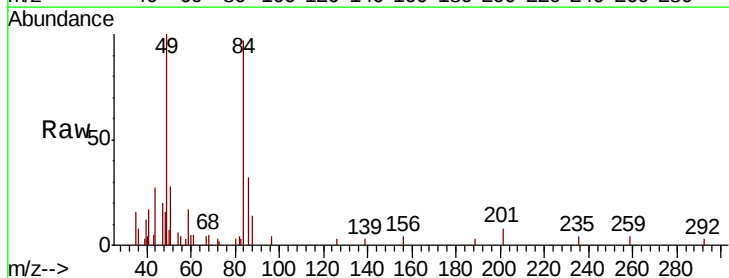
#18
 1,1-Dichloroethene
 Concen: 0.061 ppbv
 RT: 4.29
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Apr 2022 19:25

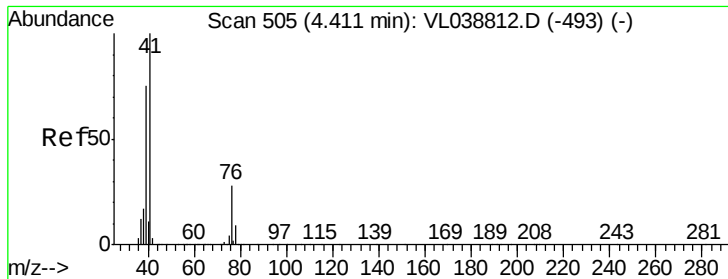
Tot Ion: 96 Resp: 2608
 Ion Ratio Lower Upper
 96 100
 61 151.9 156.1 234.1#
 98 52.3 53.0 79.6#



#20
 Methylene Chloride
 Concen: 0.063 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.01 min
 Lab File: VL038925.D
 Acq: 14 Apr 2022 19:25

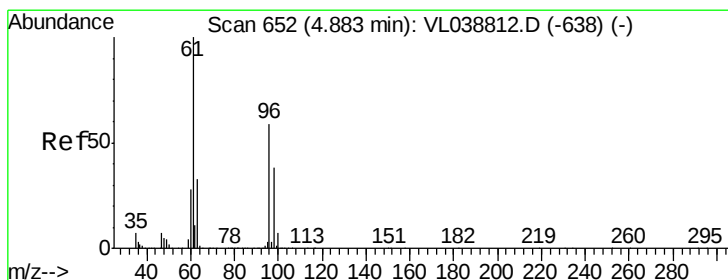
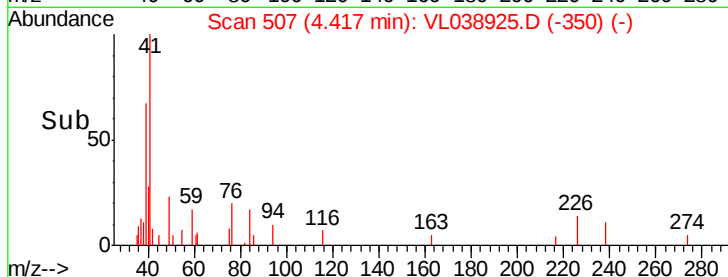
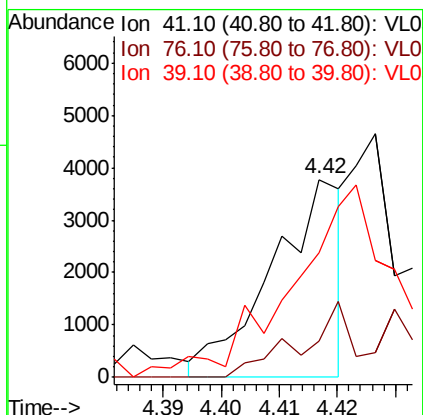
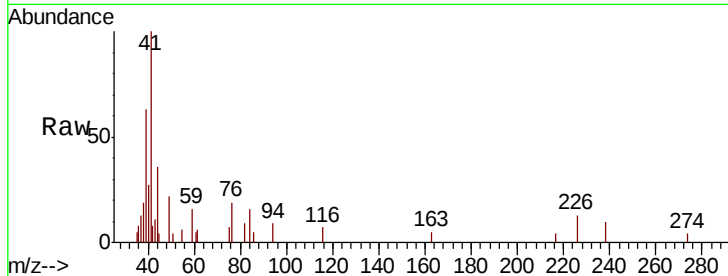
Tgt Ion: 84 Resp: 2437
 Ion Ratio Lower Upper
 84 100
 49 38.0 129.4 194.0#
 51 6.4 37.4 56.2#
 86 11.2 51.4 77.2#





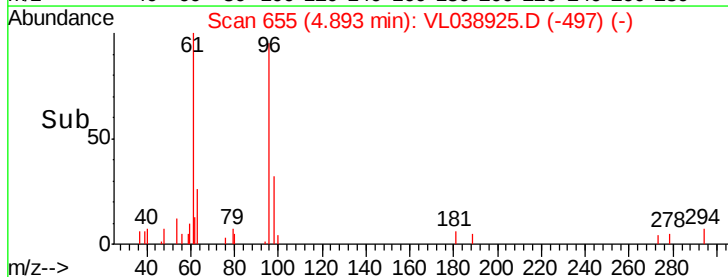
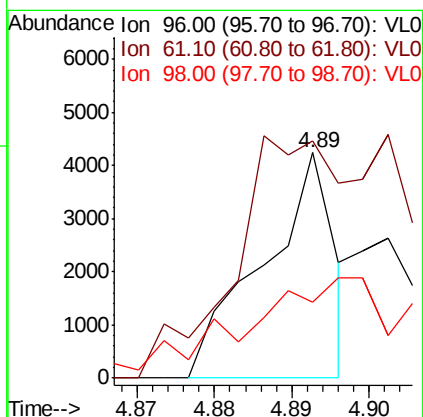
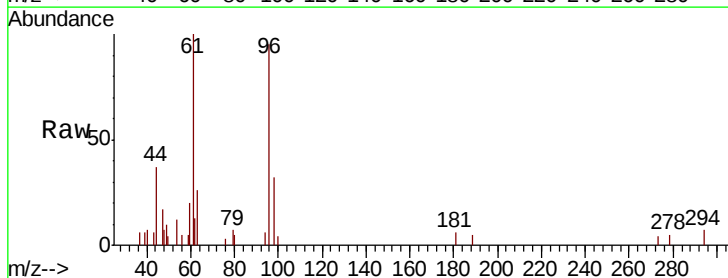
#21
 Allvl Chloride
 Concen: 0.040 ppbv
 RT: 4.42 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 19:25

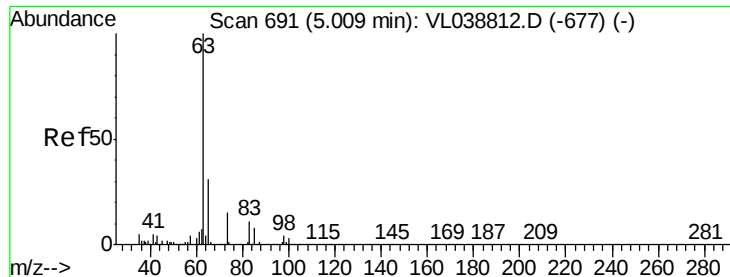
Tot Ion	Ratio	Lower	Upper
41	100		
76	53.9	23.7	35.5#
39	0.0	62.0	93.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.063 ppbv
 RT: 4.89 min Scan# 655
 Delta R.T. 0.01 min
 Lab File: VL038925.D
 Acq: 14 Apr 2022 19:25

Tgt Ion	Ratio	Lower	Upper
96	100		
61	87.4	134.8	202.2#
98	25.3	51.9	77.9#





#24

1,1-Dichloroethane

Concen: 0.075 ppbv

RT: 5.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 19:25

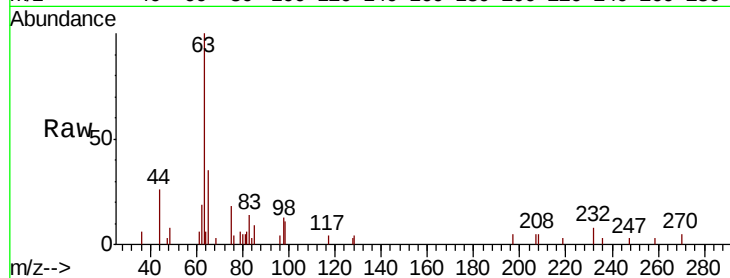
Tot Ion: 63 Resp: 6964

Ion Ratio Lower Upper

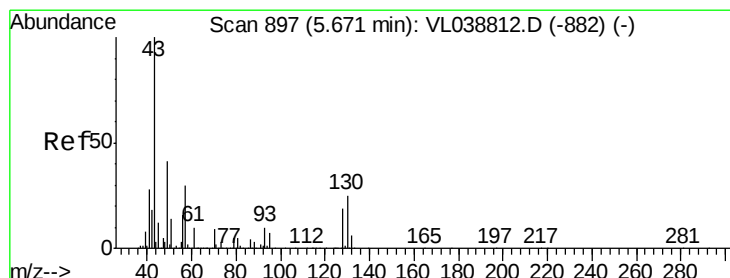
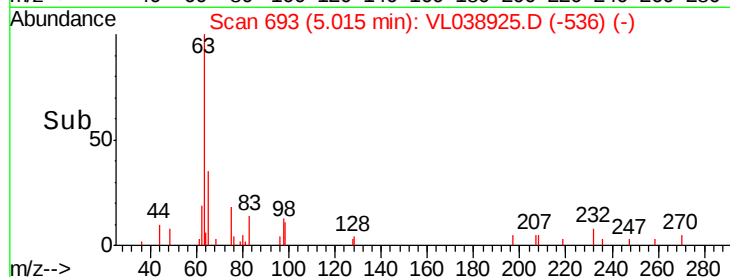
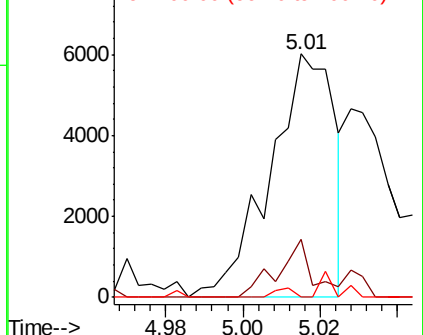
63 100

98 23.9 2.2 6.6#

100 0.0 1.4 4.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.051 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.03 min

Lab File: VL038925.D

Acq: 14 Apr 2022 19:25

Tgt Ion: 43 Resp: 13687

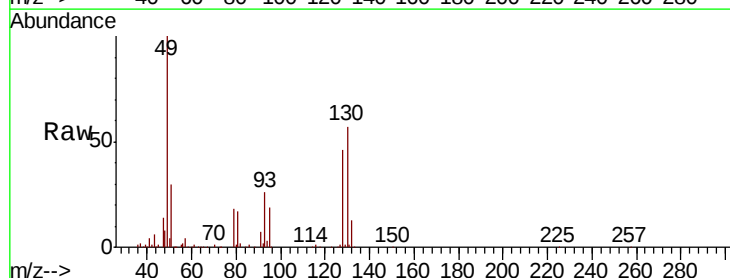
Ion Ratio Lower Upper

43 100

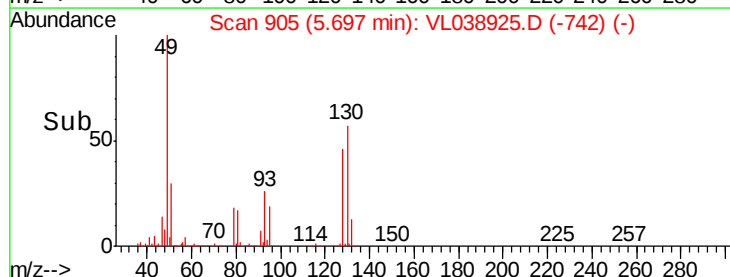
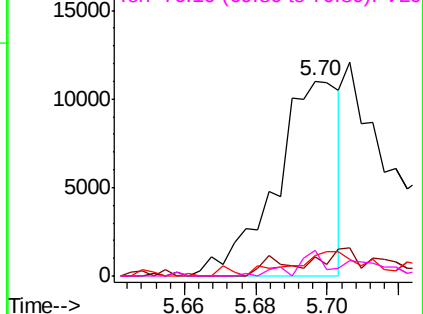
45 1.3 8.4 12.6#

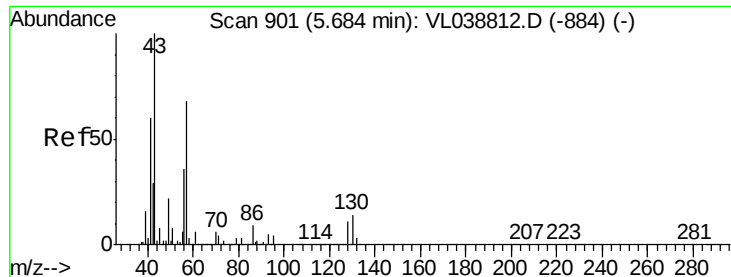
61 20.7 7.9 11.9#

70 12.5 5.6 8.4#



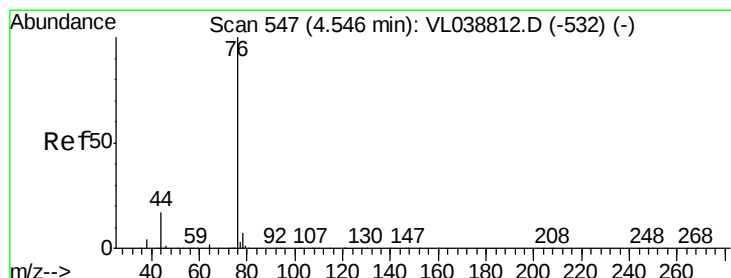
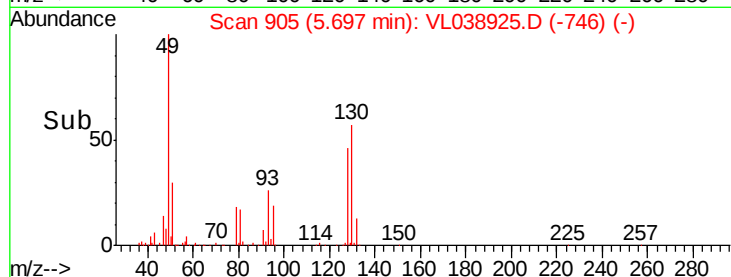
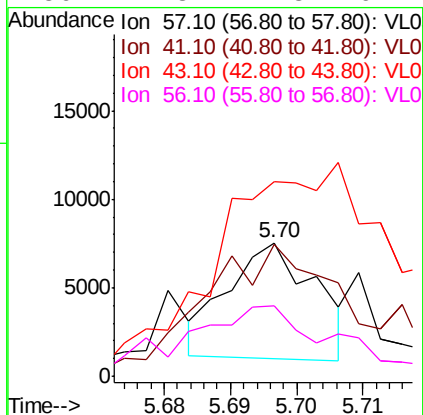
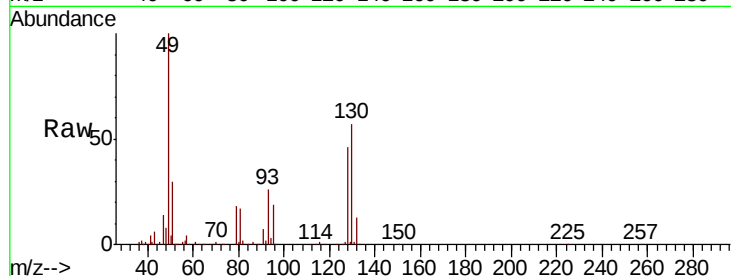
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





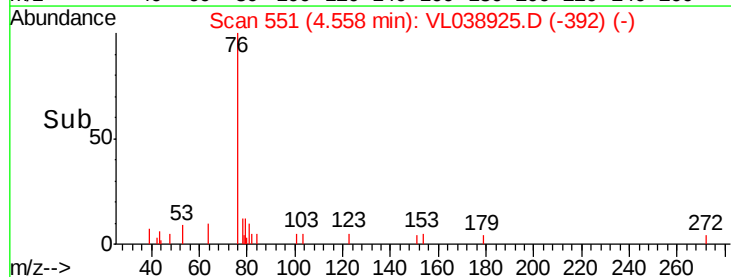
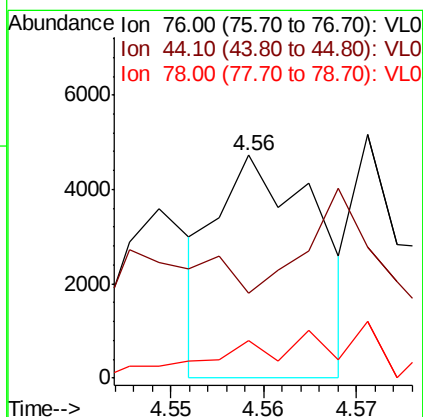
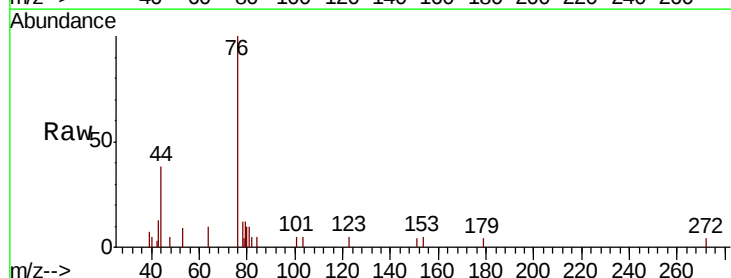
#26
Hexane
Concen: 0.049 ppbv
RT: 5.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Apr 2022 19:25

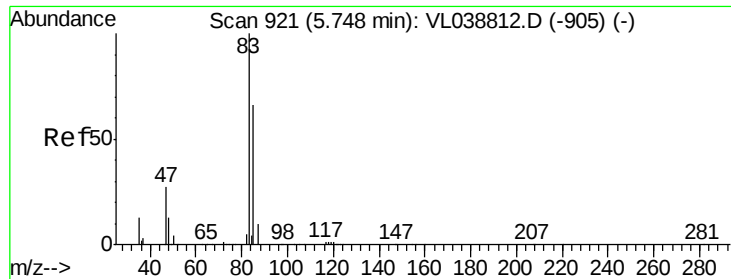
Tot Ion	Ratio	Lower	Upper
57	100		
41	233.1	72.0	108.0#
43	0.0	186.6	280.0#
56	117.3	42.8	64.2#



#27
Carbon Disulfide
Concen: 0.032 ppbv
RT: 4.56 min Scan# 551
Delta R.T. 0.01 min
Lab File: VL038925.D
Acq: 14 Apr 2022 19:25

Tgt Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.7	23.5#
78	0.0	7.8	11.8#





#29

Chloroform

Concen: 0.056 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

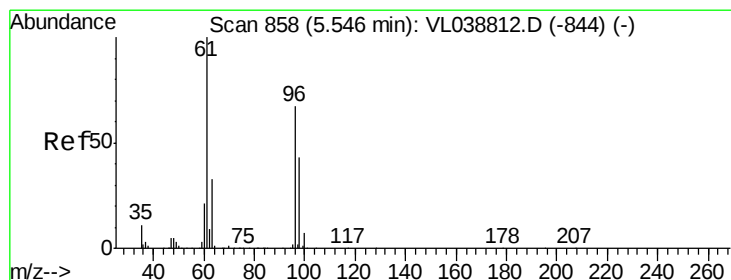
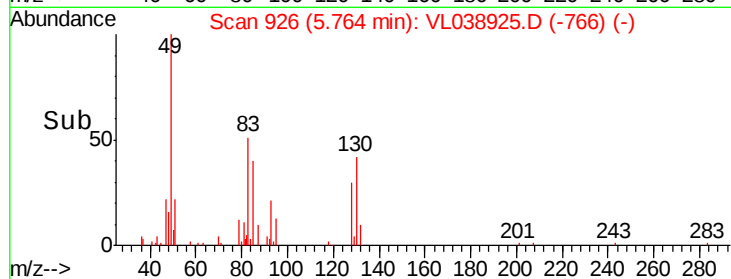
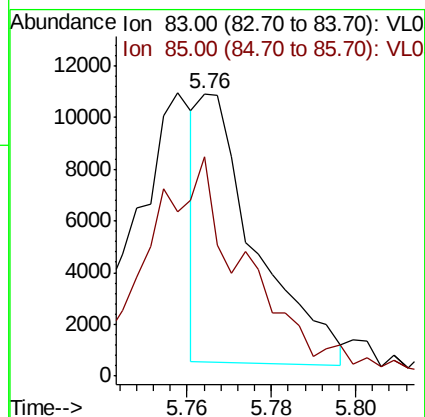
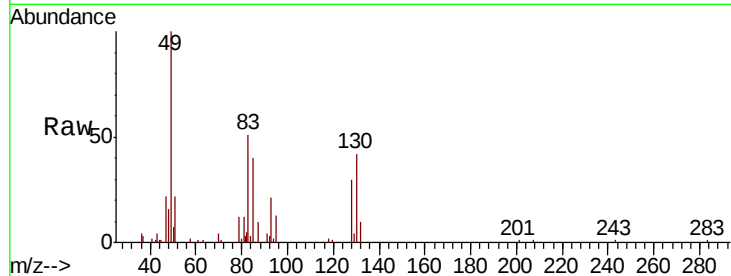
Acq: 14 Apr 2022 19:25

Tot Ion: 83 Resp: 9694

Ion Ratio Lower Upper

83 100

85 74.9 52.5 78.7



#31

cis-1,2-Dichloroethene

Concen: 0.040 ppbv

RT: 5.55 min Scan# 860

Delta R.T. 0.01 min

Lab File: VL038925.D

Acq: 14 Apr 2022 19:25

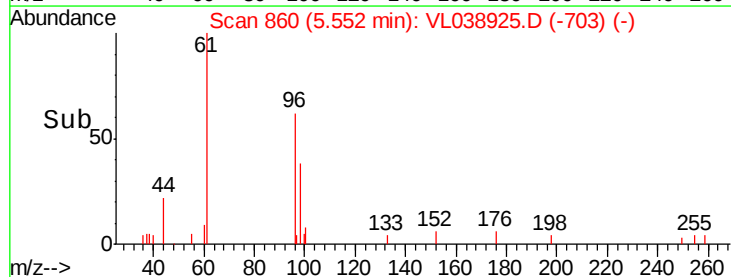
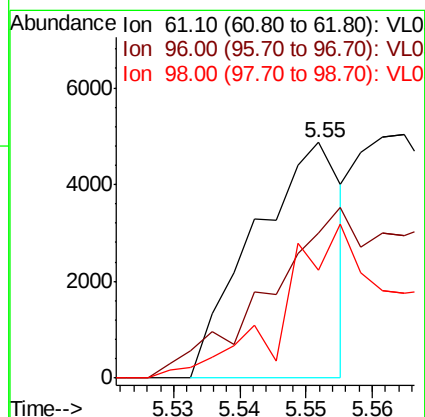
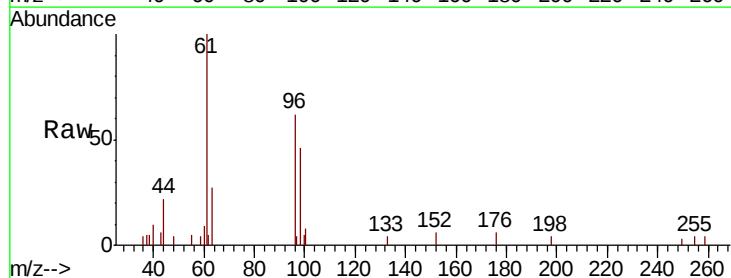
Tgt Ion: 61 Resp: 4503

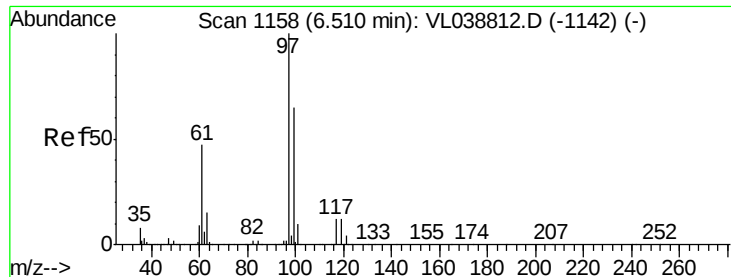
Ion Ratio Lower Upper

61 100

96 50.0 53.4 80.0#

98 41.1 34.2 51.4





#32

1,1,1-Trichloroethane

Concen: 0.039 ppbv

RT: 6.53 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 19:25

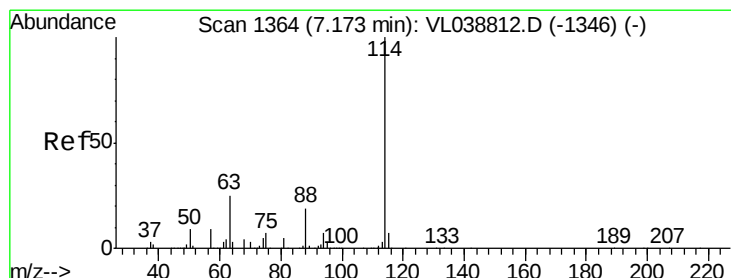
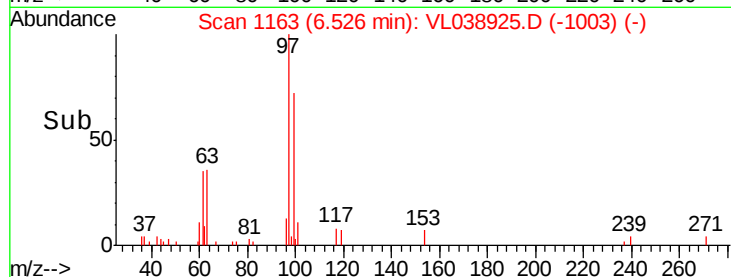
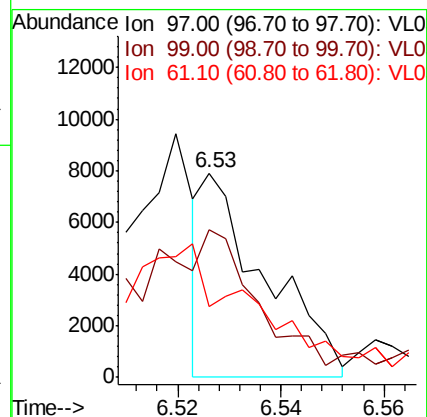
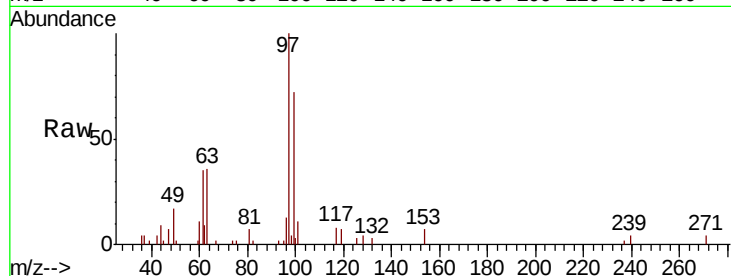
Tot Ion: 97 Resp: 6690

Ion Ratio Lower Upper

97 100

99 163.8 52.4 78.6#

61 161.2 38.6 57.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.01 min

Lab File: VL038925.D

Acq: 14 Apr 2022 19:25

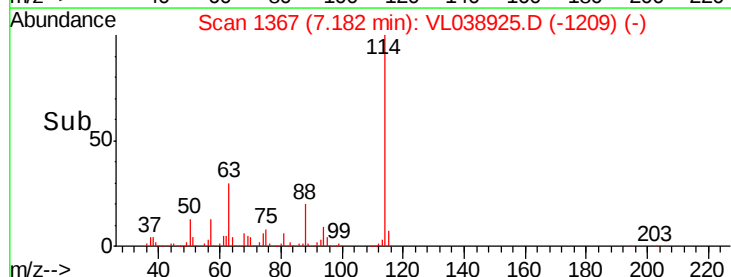
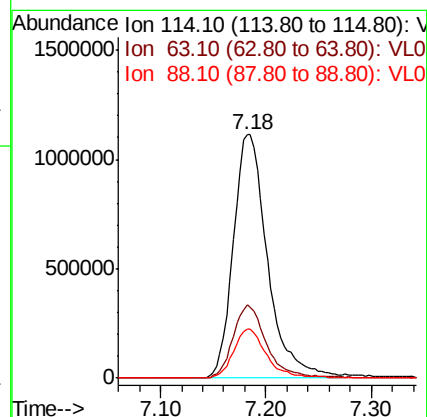
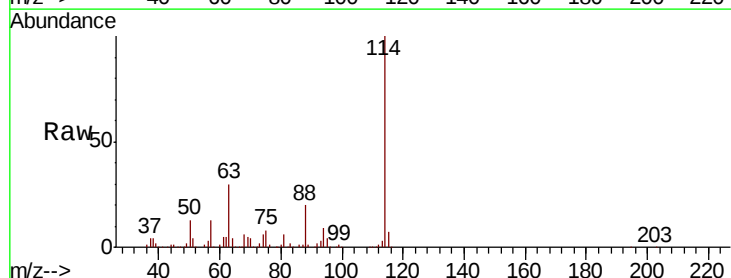
Tgt Ion: 114 Resp: 2507346

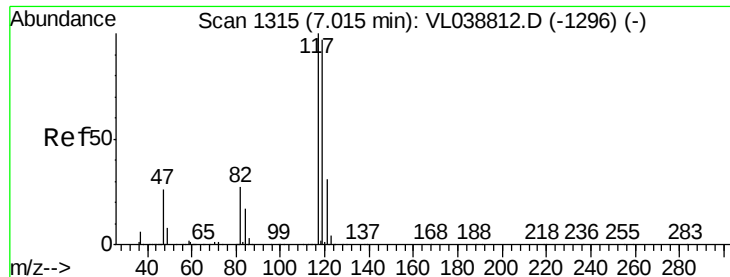
Ion Ratio Lower Upper

114 100

63 29.9 19.8 29.8#

88 19.6 14.2 21.4





#35

Carbon Tetrachloride

Concen: 0.062 ppbv

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 19:25

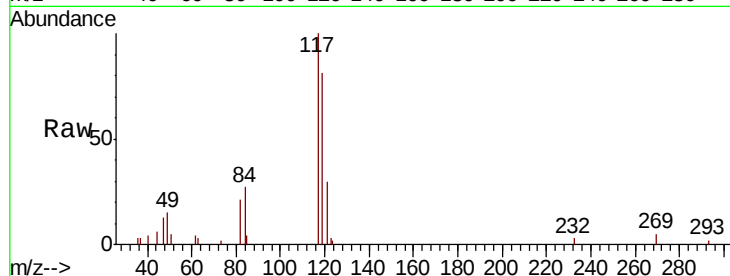
Tot Ion:117 Resp: 9393

Ion Ratio Lower Upper

117 100

119 80.6 77.7 116.5

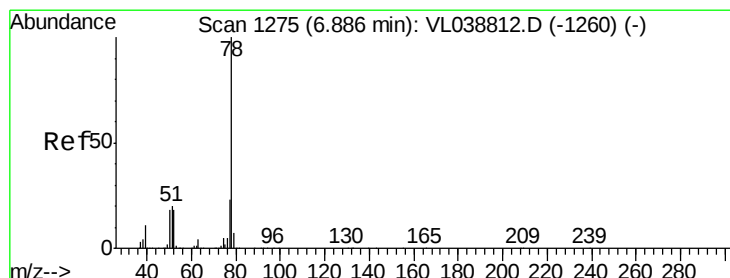
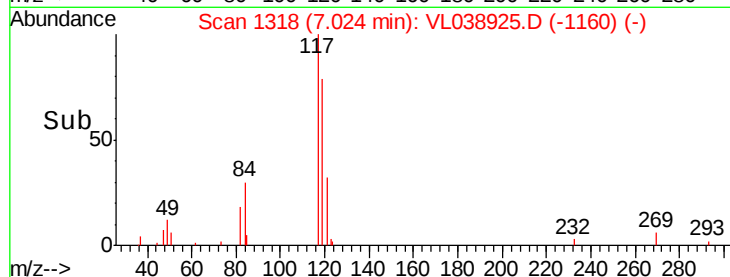
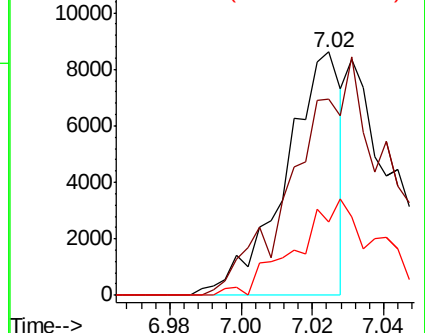
121 30.4 24.5 36.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.088 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.01 min

Lab File: VL038925.D

Acq: 14 Apr 2022 19:25

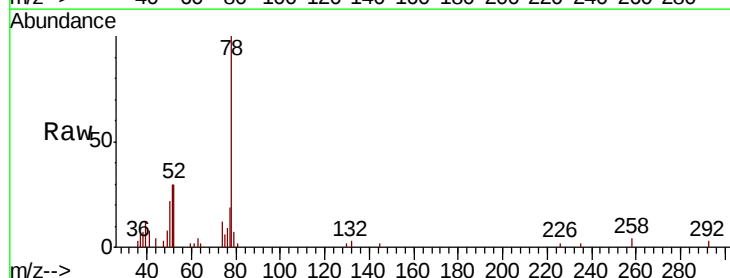
Tgt Ion: 78 Resp: 20137

Ion Ratio Lower Upper

78 100

77 18.7 18.2 27.2

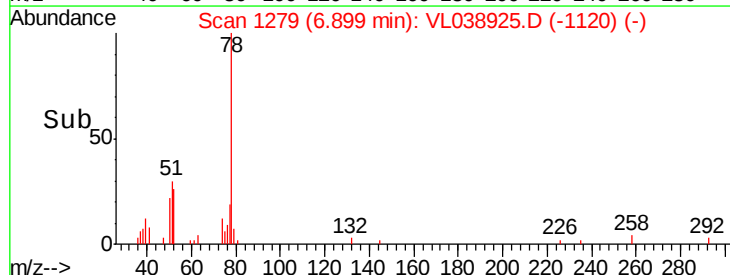
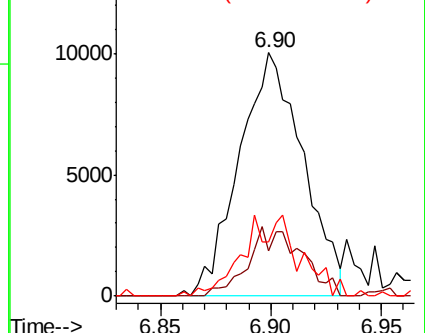
50 22.1 14.0 21.0#

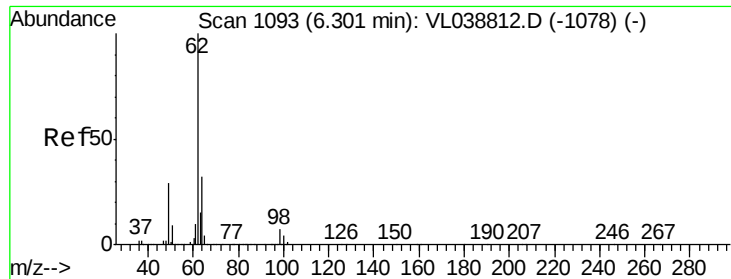


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

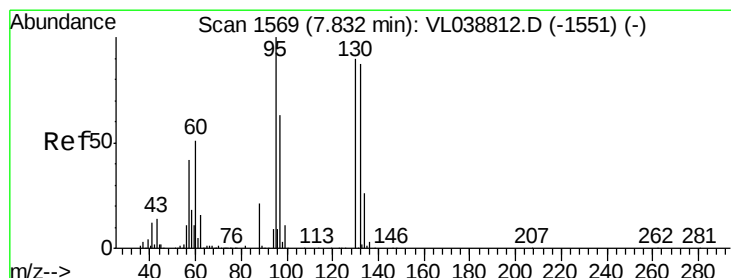
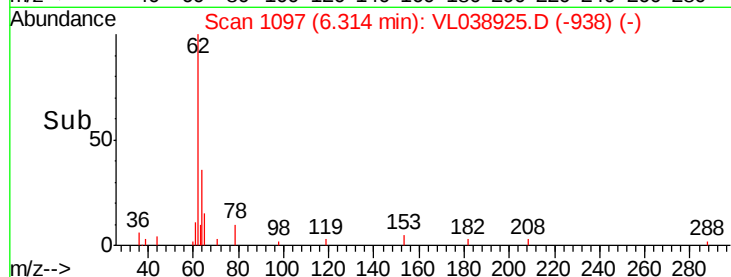
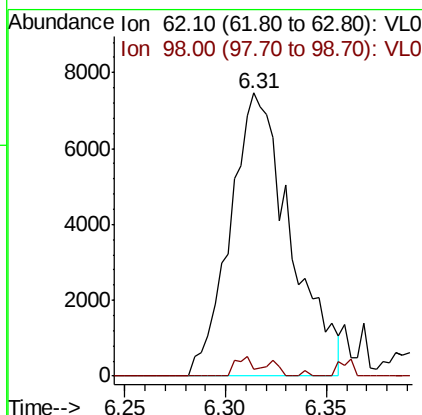
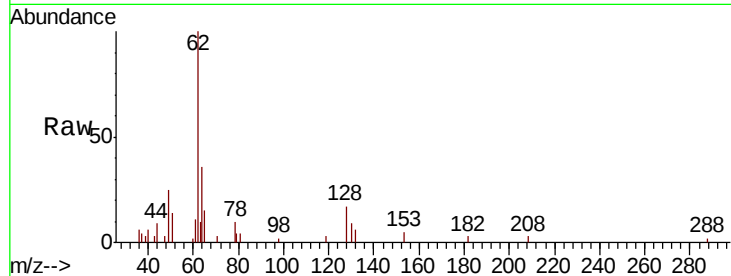
Ion 50.10 (49.80 to 50.80): VL0





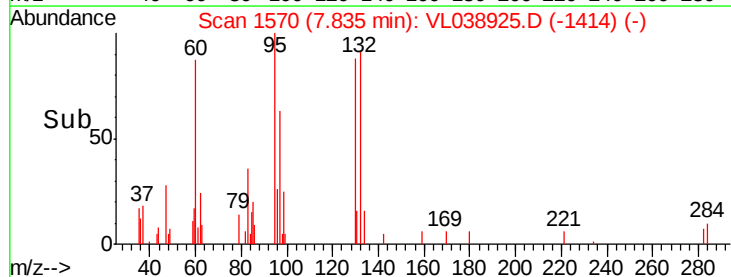
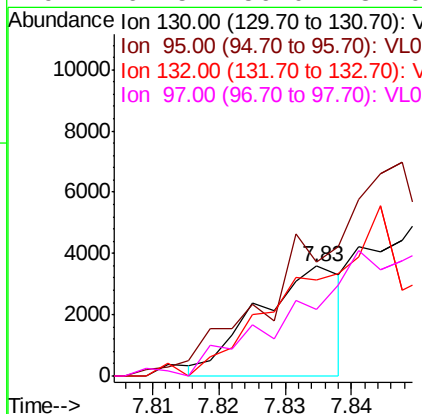
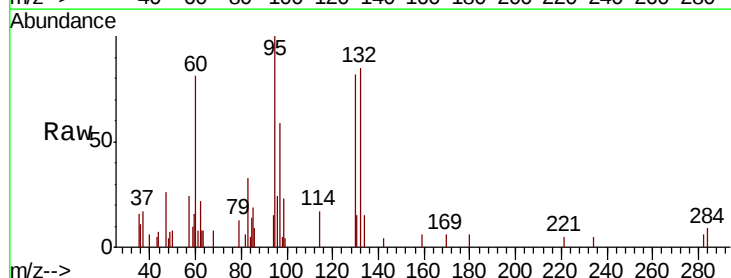
#37
 1,2-Dichloroethane
 Concen: 0.149 ppbv
 RT: 6.31 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Apr 2022 19:25

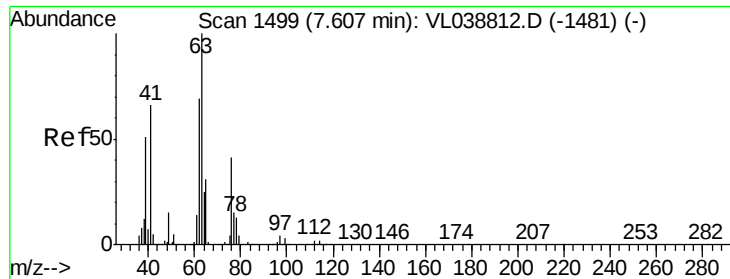
Tot Ion: 62 Resp: 15570
 Ion Ratio Lower Upper
 62 100
 98 3.3 5.9 8.9#



#38
 Trichloroethene
 Concen: 0.034 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T.: 0.00 min
 Lab File: VL038925.D
 Acq: 14 Apr 2022 19:25

Tgt Ion: 130 Resp: 3160
 Ion Ratio Lower Upper
 130 100
 95 99.7 89.4 134.0
 132 97.2 77.7 116.5
 97 67.5 56.0 84.0





#39

1,2-Dichloropropane

Concen: 8.258 ppbv

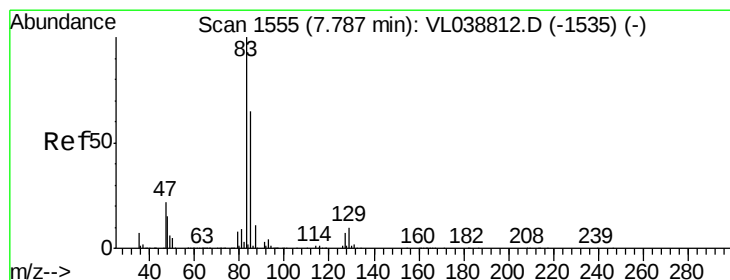
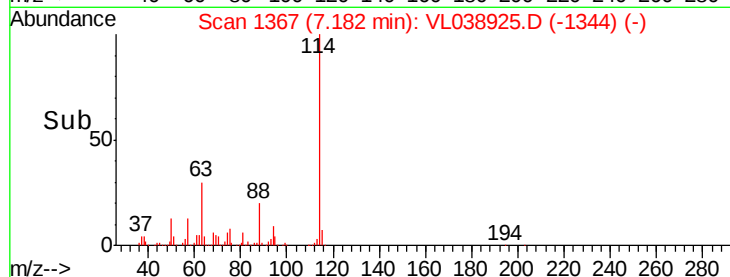
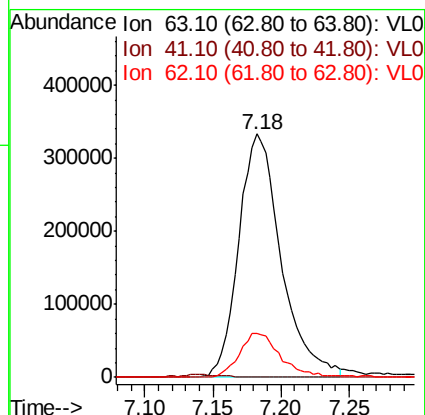
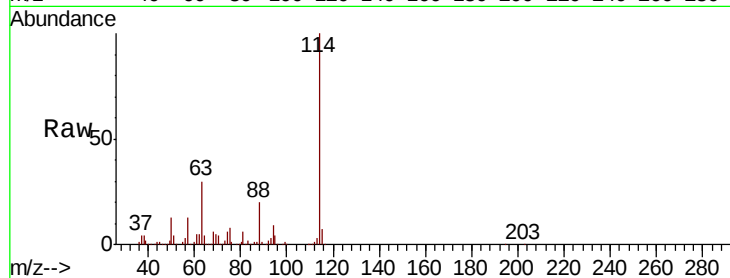
RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 19:25

Tot Ion:	63	Resp:	720439
Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	18.0	55.0	82.4#



#42

Bromodichloromethane

Concen: 0.060 ppbv

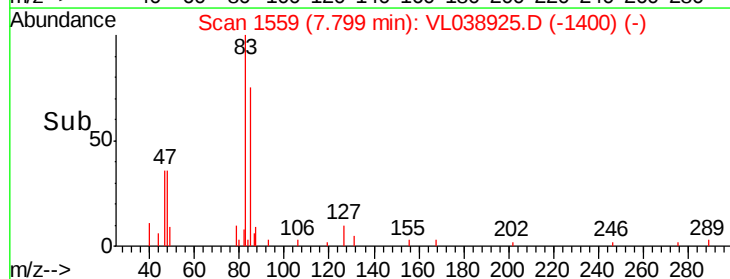
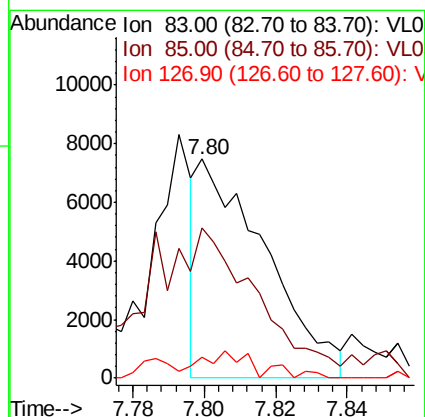
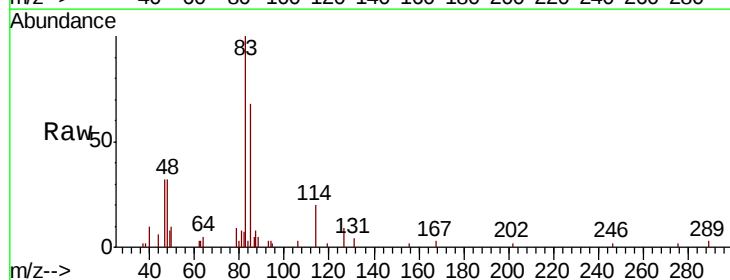
RT: 7.80 min Scan# 1559

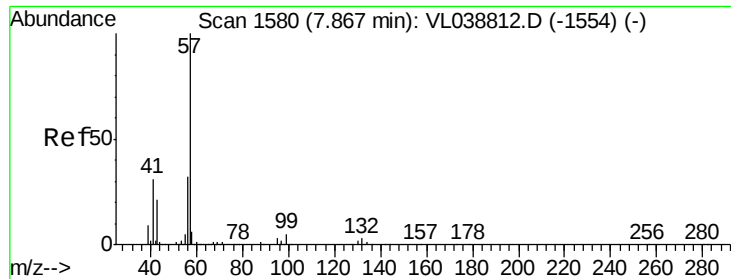
Delta R.T. 0.01 min

Lab File: VL038925.D

Acq: 14 Apr 2022 19:25

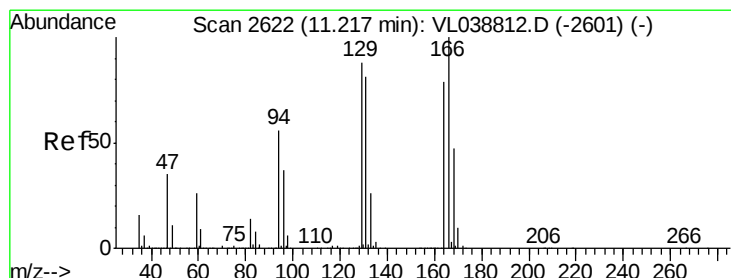
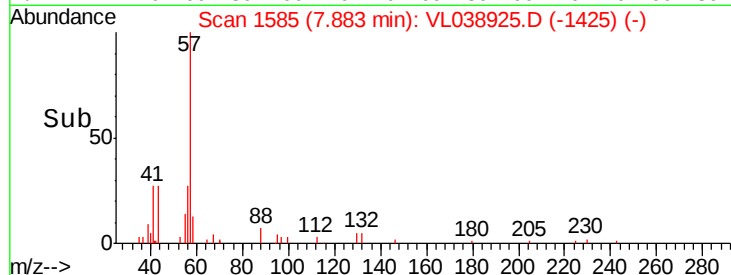
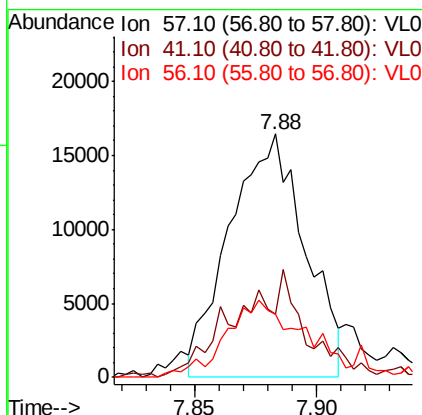
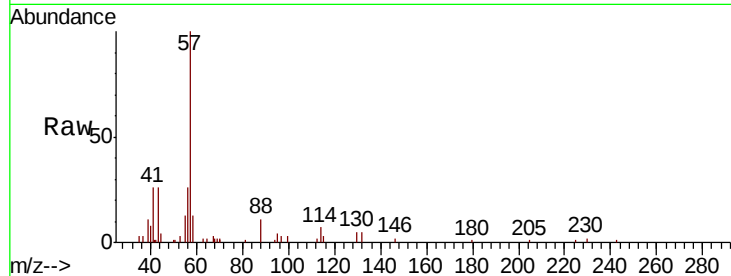
Tgt Ion:	83	Resp:	9844
Ion	Ratio	Lower	Upper
83	100		
85	71.5	51.7	77.5
127	10.7	5.9	8.9#





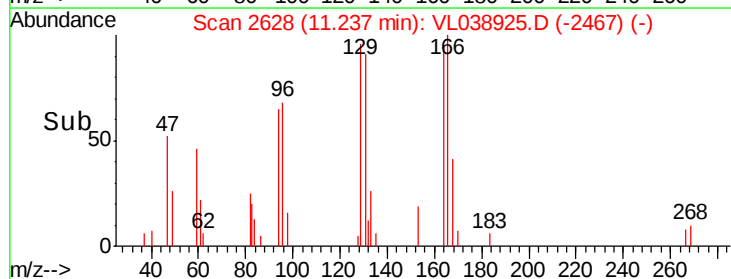
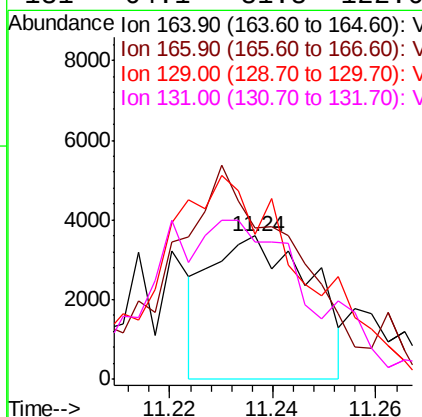
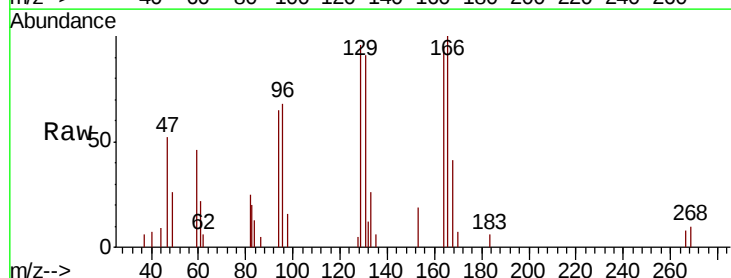
#44
 2,2,4-Trimethylpentane
 Concen: 0.091 ppbv
 RT: 7.88 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 19:25

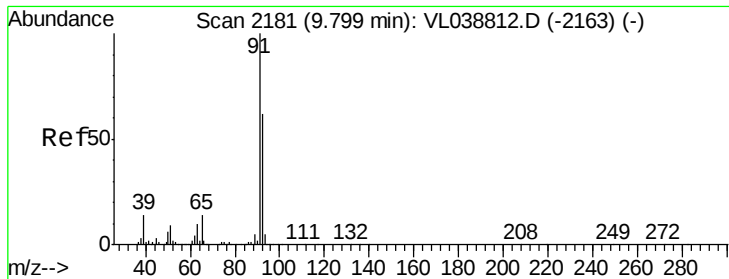
Tot Ion: 57 Resp: 35221
 Ion Ratio Lower Upper
 57 100
 41 43.4 25.0 37.4#
 56 36.0 25.3 37.9



#52
 Tetrachloroethene
 Concen: 0.061 ppbv
 RT: 11.24 min Scan# 2628
 Delta R.T. 0.02 min
 Lab File: VL038925.D
 Acq: 14 Apr 2022 19:25

Tgt Ion:164 Resp: 4856
 Ion Ratio Lower Upper
 164 100
 166 93.3 101.0 151.6#
 129 46.4 88.7 133.1#
 131 64.1 81.8 122.6#





#53

Toluene

Concen: 0.058 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

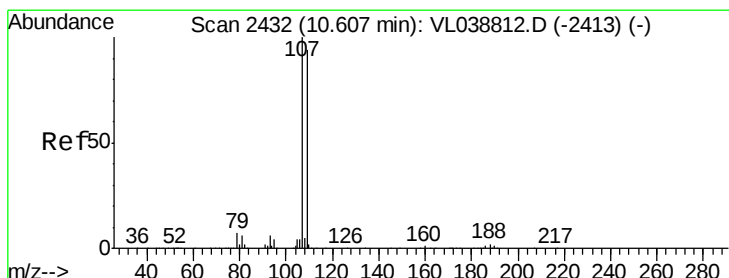
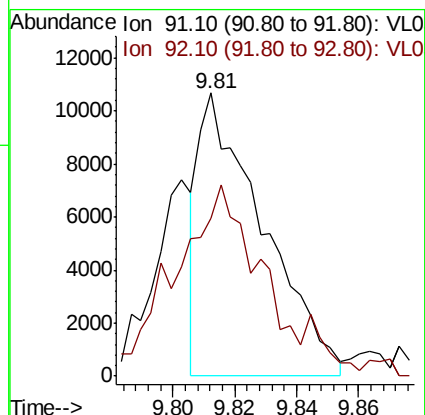
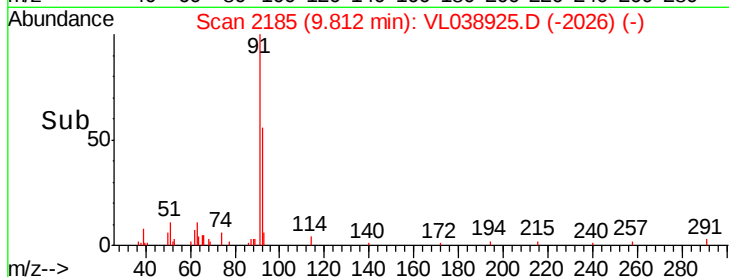
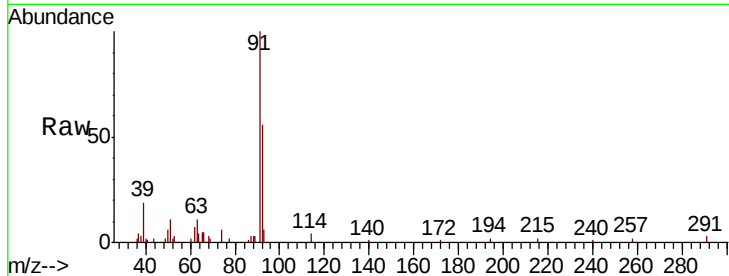
Acq: 14 Apr 2022 19:25

Tot Ion: 91 Resp: 15294

Ion Ratio Lower Upper

91 100

92 100.9 49.2 73.8#



#54

1,2-Dibromoethane

Concen: 0.036 ppbv

RT: 10.61 min Scan# 2434

Delta R.T. 0.01 min

Lab File: VL038925.D

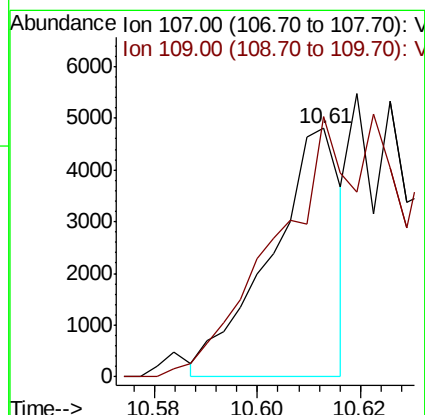
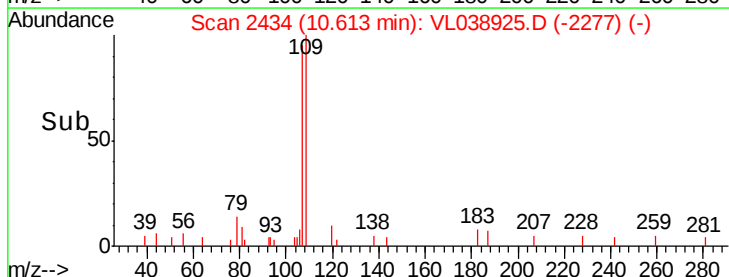
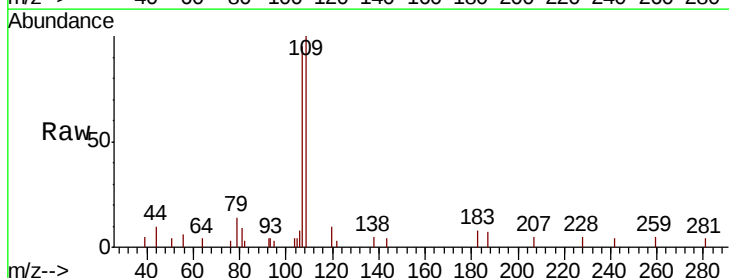
Acq: 14 Apr 2022 19:25

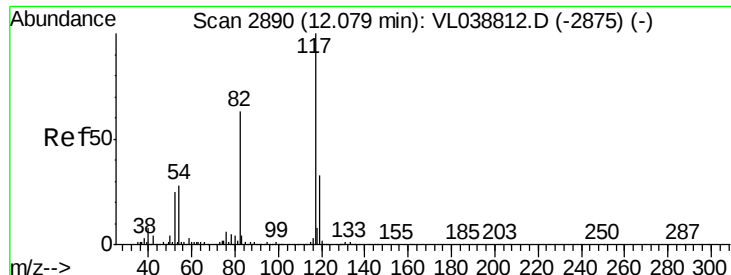
Tgt Ion: 107 Resp: 4511

Ion Ratio Lower Upper

107 100

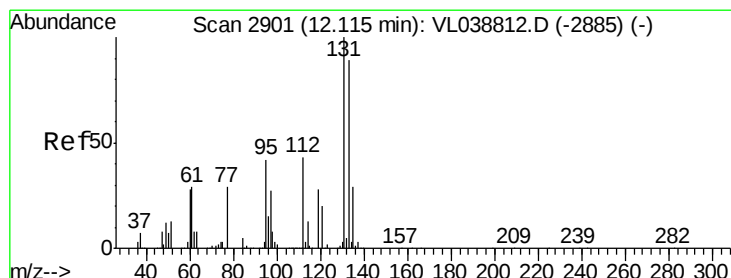
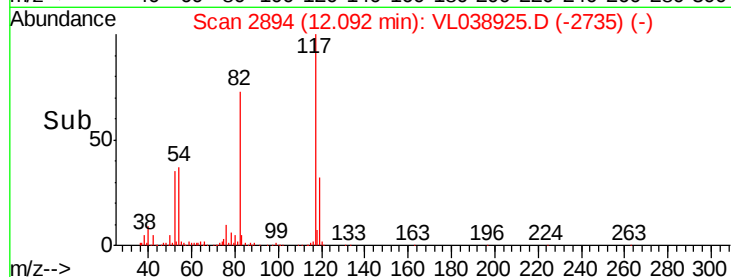
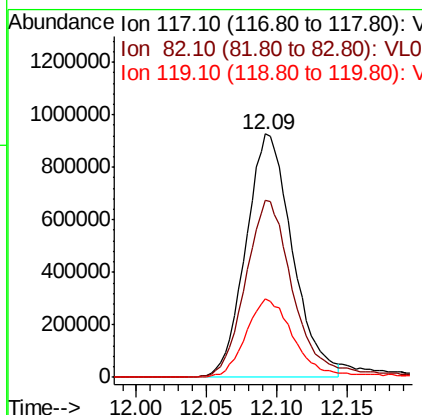
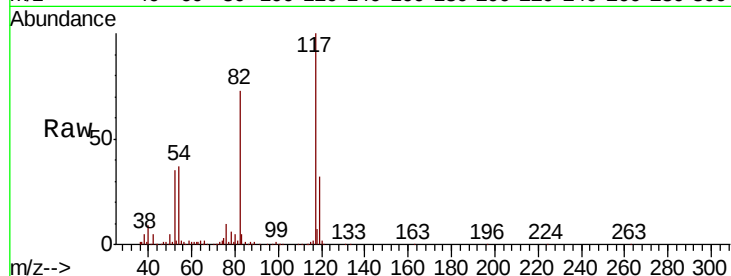
109 105.3 75.5 113.3





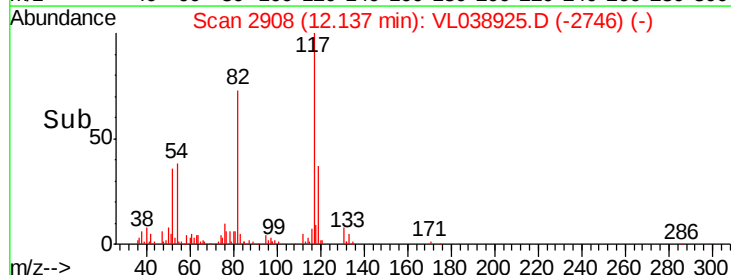
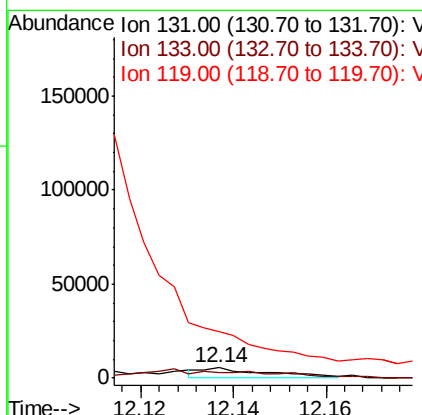
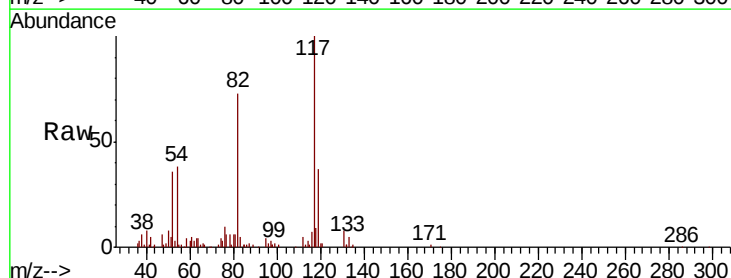
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Apr 2022 19:25

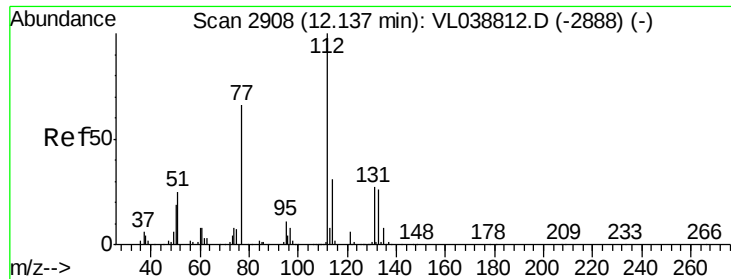
Tot Ion:117 Resp: 2142783
 Ion Ratio Lower Upper
 117 100
 82 77.2 53.0 79.6
 119 34.5 24.9 37.3



#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.059 ppbv
 RT: 12.14 min Scan# 2908
 Delta R.T.: 0.02 min
 Lab File: VL038925.D
 Acq: 14 Apr 2022 19:25

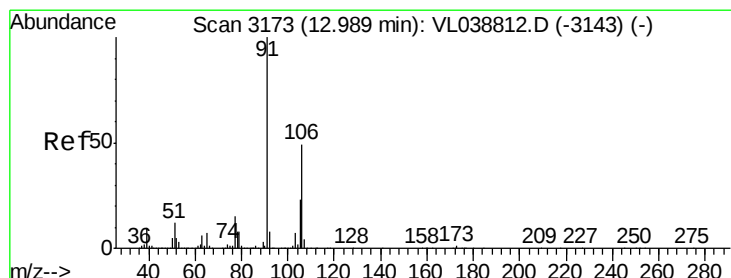
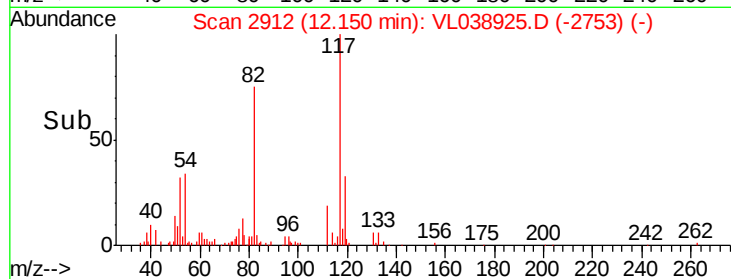
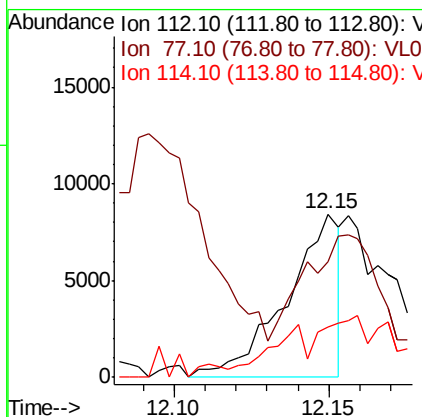
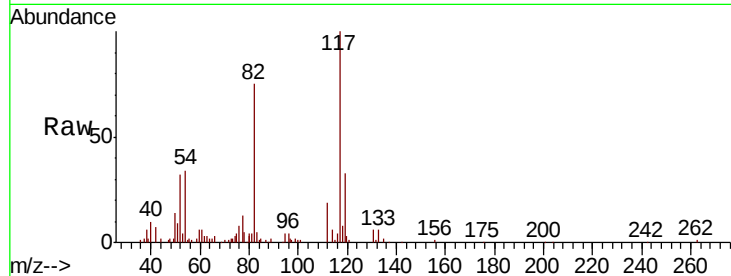
Tgt Ion:131 Resp: 5577
 Ion Ratio Lower Upper
 131 100
 133 175.9 78.2 117.4#
 119 0.0 58.6 87.8#





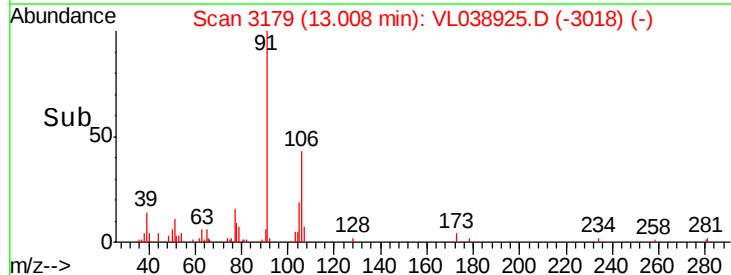
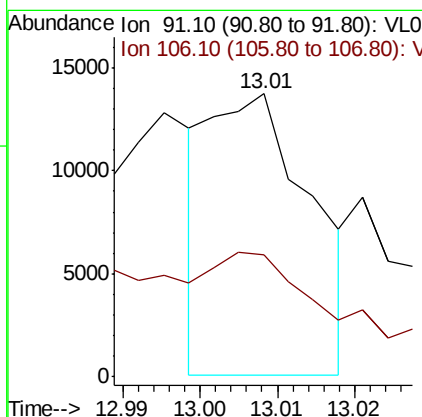
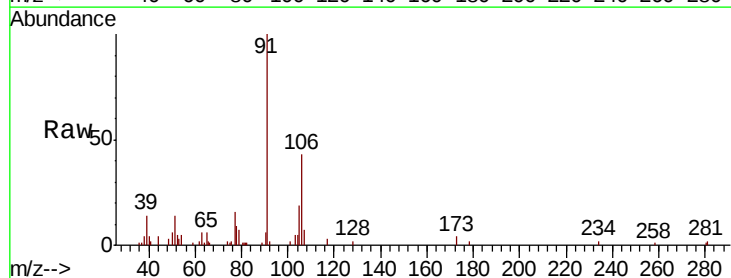
#57
Chlorobenzene
Concen: 0.057 ppbv
RT: 12.15 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Apr 2022 19:25

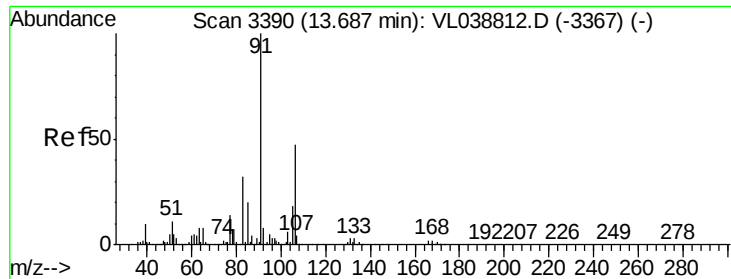
Tot Ion	Ratio	Lower	Upper
112	100		
77	0.0	52.4	78.6#
114	30.6	28.1	34.3



#59
m/p-Xylene
Concen: 0.046 ppbv
RT: 13.01 min Scan# 3179
Delta R.T.: 0.02 min
Lab File: VL038925.D
Acq: 14 Apr 2022 19:25

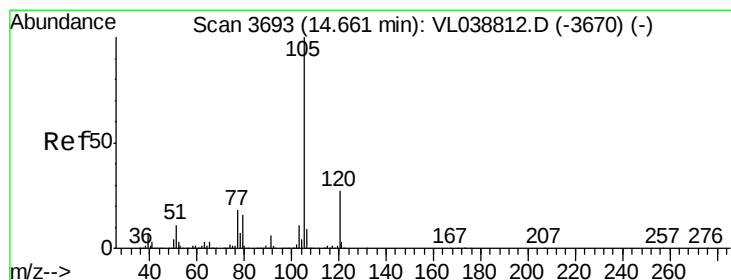
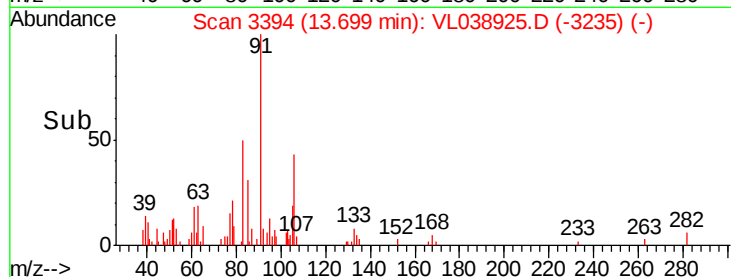
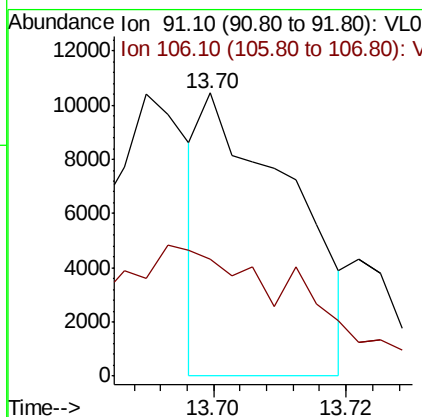
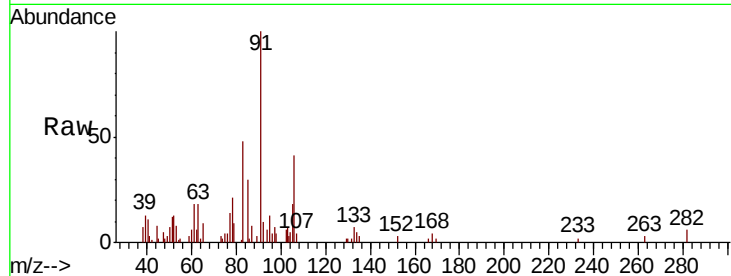
Tgt Ion	Ratio	Lower	Upper
91	100		
106	171.5	37.1	55.7#





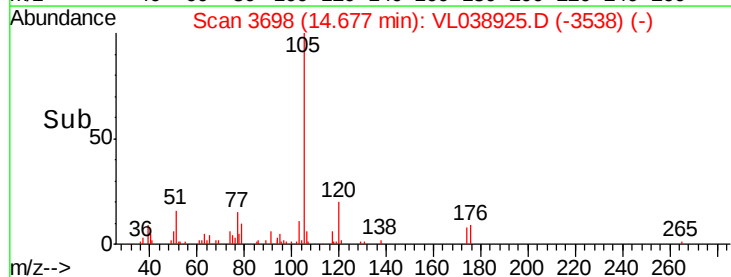
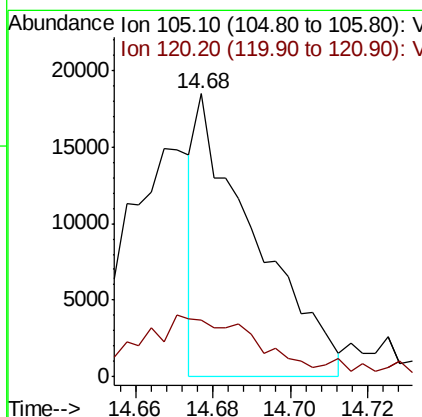
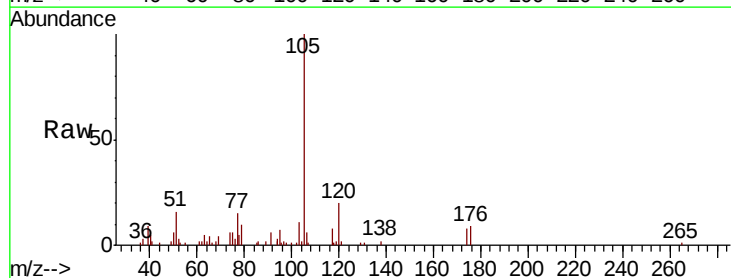
#60
o-Xylene
Concen: 0.039 ppbv
RT: 13.70 min
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 14 Apr 2022 19:25

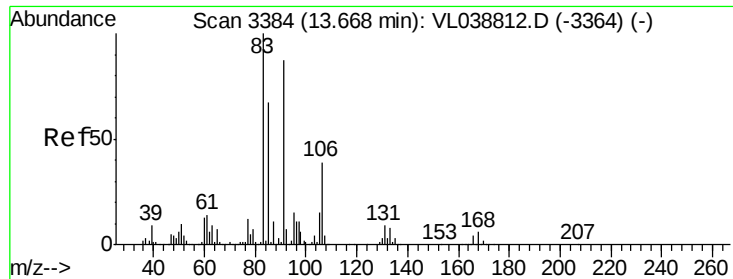
Tot Ion: 91 Resp: 9812
Ion Ratio Lower Upper
91 100
106 0.0 23.8 71.4#



#62
Isopropylbenzene
Concen: 0.051 ppbv
RT: 14.68 min Scan# 3698
Delta R.T. 0.02 min
Lab File: VL038925.D
Acq: 14 Apr 2022 19:25

Tgt Ion: 105 Resp: 19274
Ion Ratio Lower Upper
105 100
120 0.0 21.8 32.8#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.047 ppbv

RT: 13.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 19:25

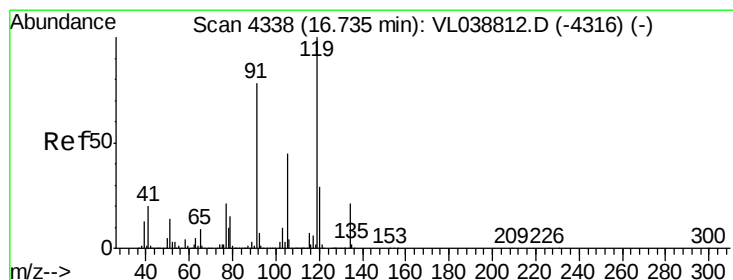
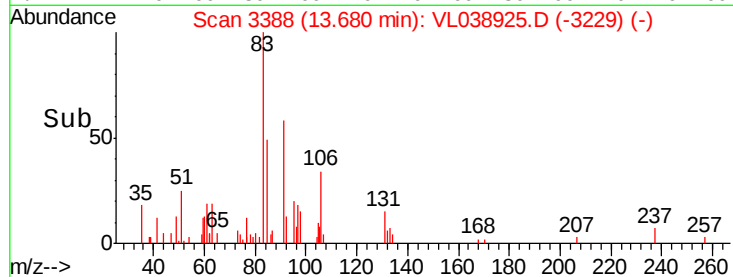
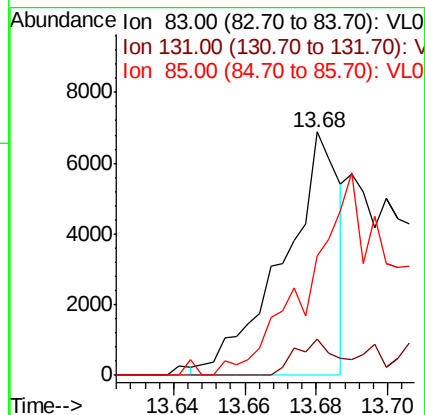
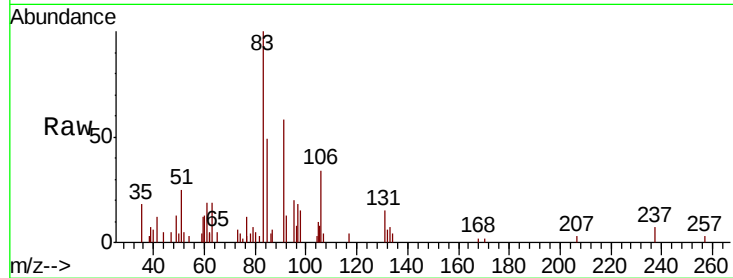
Tot Ion: 83 Resp: 7490

Ion Ratio Lower Upper

83 100

131 22.9 4.6 13.8#

85 0.0 33.0 99.0#



#65

tert-Butylbenzene

Concen: 0.048 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. 0.02 min

Lab File: VL038925.D

Acq: 14 Apr 2022 19:25

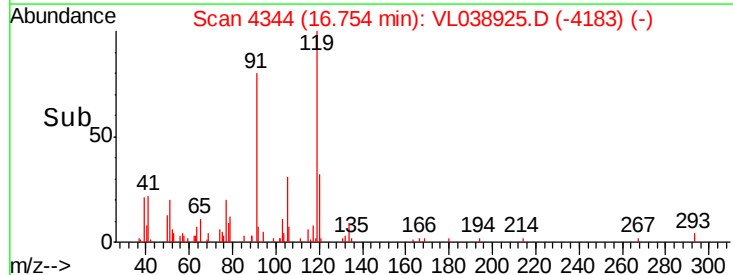
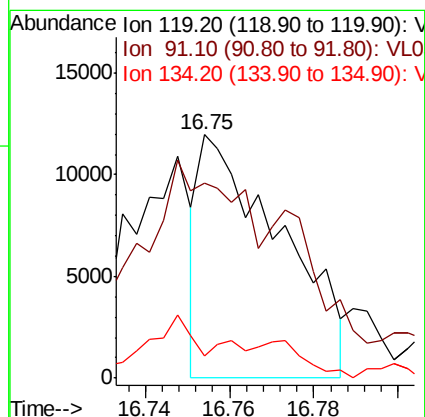
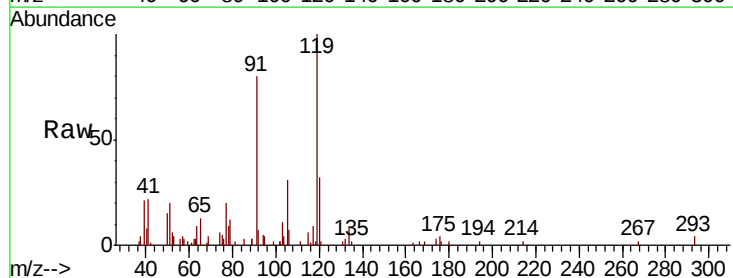
Tgt Ion: 119 Resp: 16088

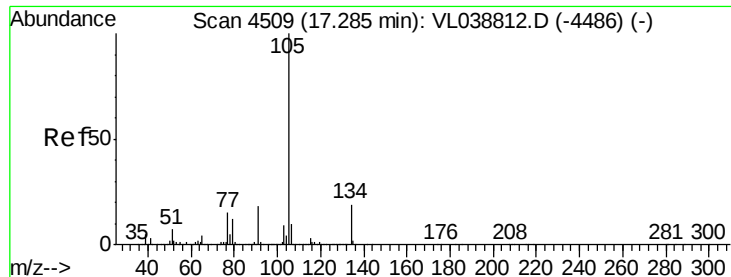
Ion Ratio Lower Upper

119 100

91 0.0 62.8 94.2#

134 0.0 16.2 24.4#





#67

sec-Butylbenzene

Concen: 0.038 ppbv

RT: 17.30

Delta R.T. MSVOA_L

Lab File:

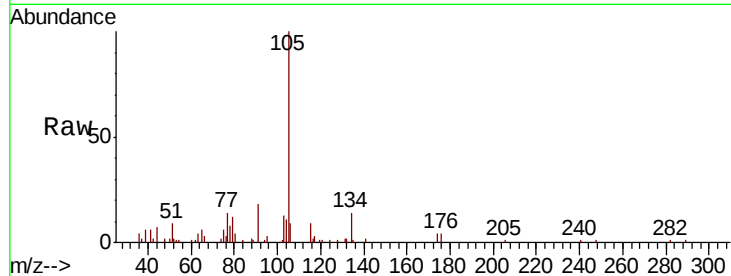
Acq: 14 Apr 2022 19:25

Tot Ion: 105 Resp: 17783

Ion Ratio Lower Upper

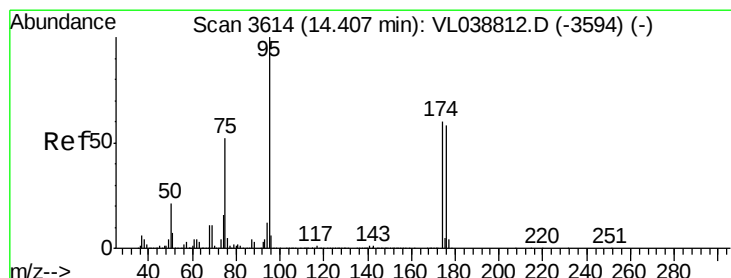
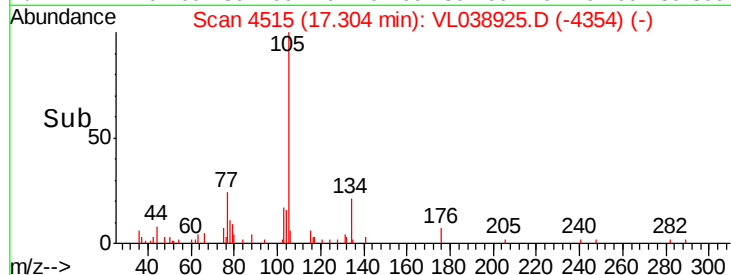
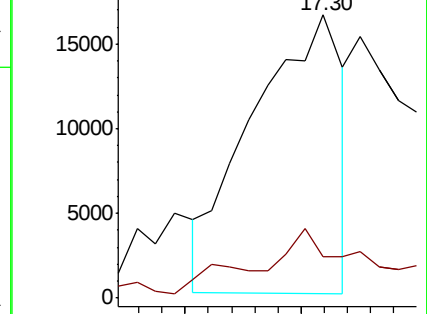
105 100

134 45.7 15.1 22.7#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 11.497 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.01 min

Lab File: VL038925.D

Acq: 14 Apr 2022 19:25

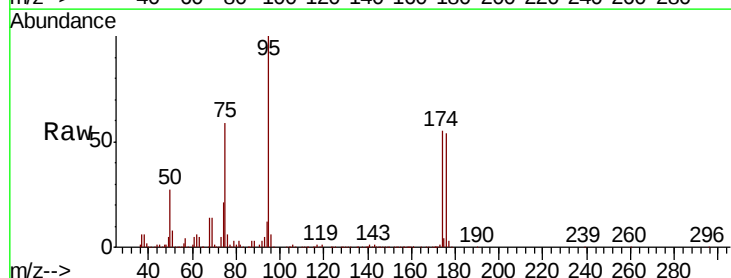
Tgt Ion: 95 Resp: 1868705

Ion Ratio Lower Upper

95 100

174 61.5 52.0 78.0

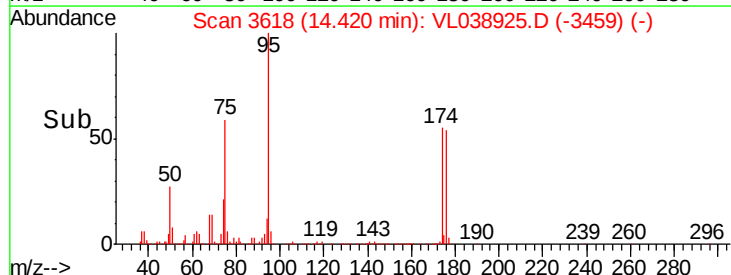
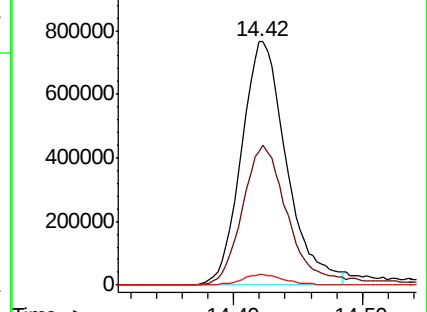
175 4.5 4.0 6.0

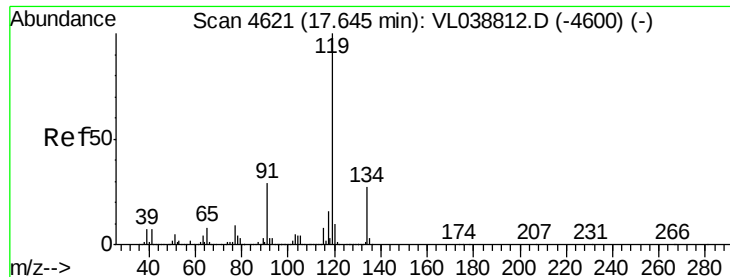


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

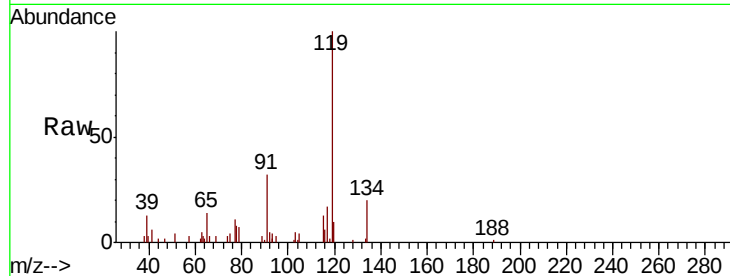
Ion 175.00 (174.70 to 175.70): V



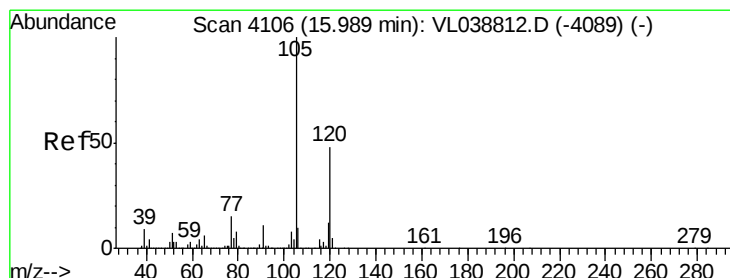
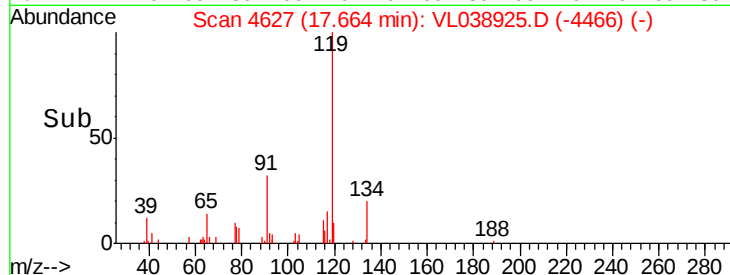
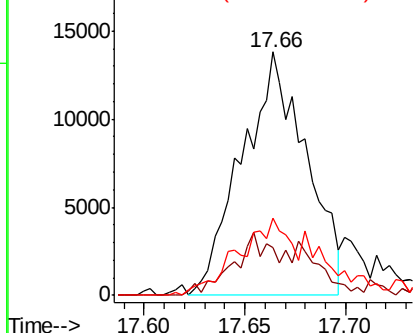


#69
 p-Isopropyltoluene
 Concen: 0.079 ppbv
 RT: 17.66 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 19:25

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.8	20.8	31.2
91	39.3	22.6	34.0

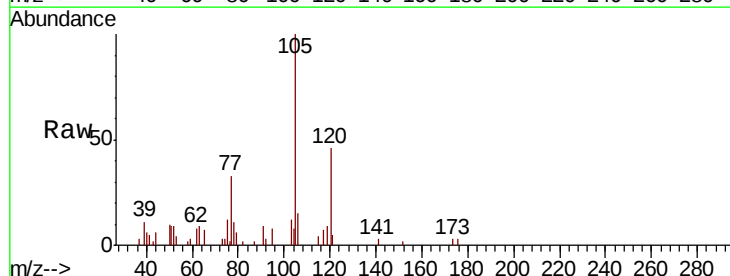


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

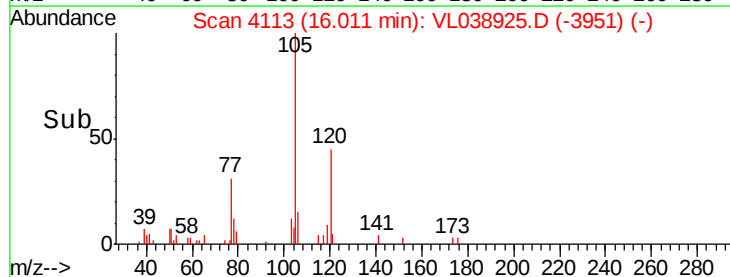
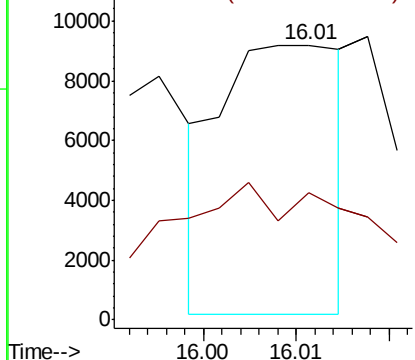


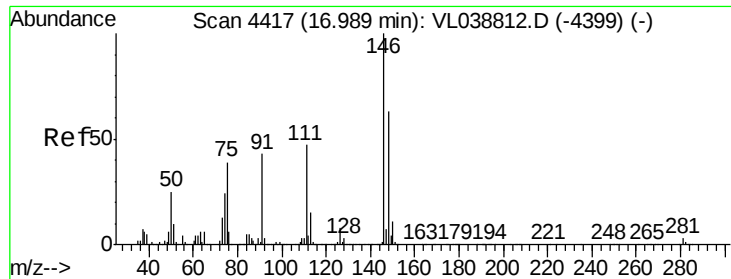
#73
 1,3,5-Trimethylbenzene
 Concen: 0.030 ppbv
 RT: 16.01 min Scan# 4113
 Delta R.T. 0.02 min
 Lab File: VL038925.D
 Acq: 14 Apr 2022 19:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.0	38.7	58.1



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V





#75

1,3-Dichlorobenzene

Concen: 0.047 ppbv

RT: 17.00

Delta R.T. MSVOA_L

Lab File:

ClientSampleId :

Acq: 14 Apr 2022 19:25

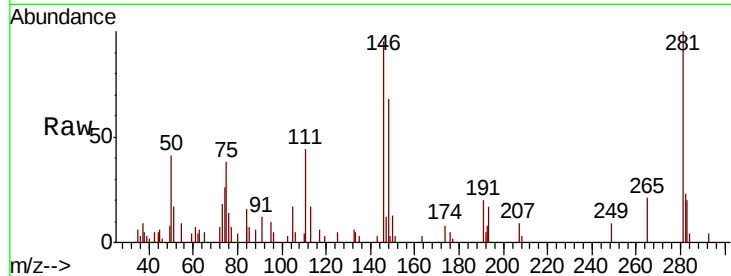
Tot Ion:146 Resp: 7854

Ion Ratio Lower Upper

146 100

111 0.0 23.8 71.2#

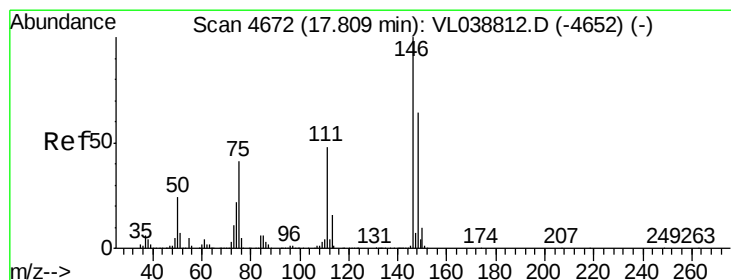
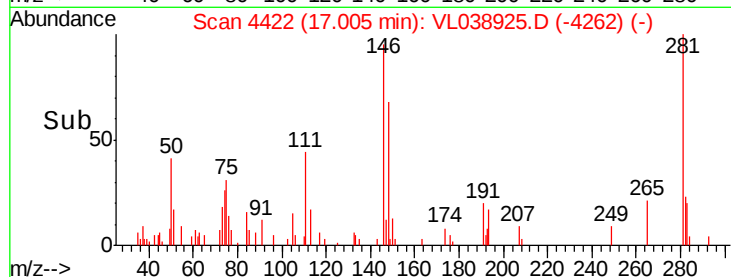
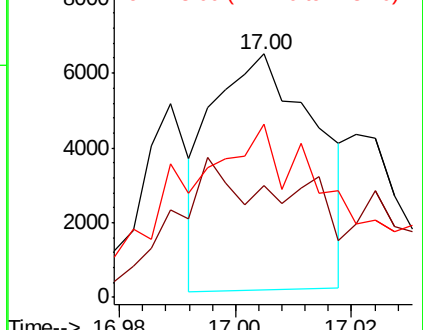
148 138.7 31.8 95.4#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 0.050 ppbv

RT: 17.83 min Scan# 4679

Delta R.T. 0.02 min

Lab File: VL038925.D

Acq: 14 Apr 2022 19:25

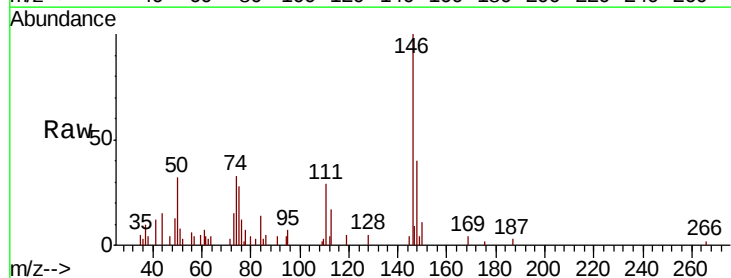
Tgt Ion:146 Resp: 8129

Ion Ratio Lower Upper

146 100

111 112.8 24.8 74.3#

148 140.5 31.9 95.7#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

