

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041322\
 Data File : VL038912.D
 Acq On : 13 Apr 2022 20:48
 Operator : SY/AP
 Sample : MDL 0.1 NAPHT.
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 MDL 0.1 NAPHT.

Quant Time: Apr 14 08:25:48 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	5.67	49	1096324	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2564232	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2234708	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1883641	11.11	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	25640	0.165 ppbv	93
3) Chlorodifluoromethane	3.00	51	16188	0.121 ppbv	92
4) Chloromethane	3.15	50	4046	0.058 ppbv #	72
5) Vinyl Chloride	3.27	62	3577	0.056 ppbv	99
6) Bromomethane	3.48	94	1846	0.060 ppbv #	47
7) Chloroethane	3.56	64	1354	0.063 ppbv #	81
8) Dichlorotetrafluoroethane	3.20	85	17790	0.122 ppbv	94
9) Propene	3.02	41	4291	0.061 ppbv #	1
10) Heptane	8.13	43	8931	0.050 ppbv #	48
11) Trichlorofluoromethane	3.96	101	9973	0.080 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	9878	0.103 ppbv	85
14) Bromoethene	3.75	108	3891	0.092 ppbv #	75
16) 1,3-Butadiene	3.33	39	2259	0.036 ppbv #	1
18) 1,1-Dichloroethene	4.29	96	2998	0.069 ppbv #	48
20) Methylene Chloride	4.36	84	8038	0.203 ppbv	89
21) Allyl Chloride	4.41	41	2921	0.036 ppbv #	20
22) trans-1,2-Dichloroethene	4.89	96	2787	0.063 ppbv #	31
24) 1,1-Dichloroethane	5.02	63	5748	0.060 ppbv #	90
25) Ethyl Acetate	5.70	43	15010	0.054 ppbv #	82
26) Hexane	5.70	57	9607	0.076 ppbv #	1
27) Carbon Disulfide	4.56	76	7073	0.061 ppbv #	32
29) Chloroform	5.76	83	17256	0.098 ppbv	93
30) Cyclohexane	7.14	84	4382	0.039 ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	7702	0.066 ppbv	94
32) 1,1,1-Trichloroethane	6.52	97	8033	0.045 ppbv #	4
35) Carbon Tetrachloride	7.03	117	15797	0.103 ppbv #	91
36) Benzene	6.90	78	17379	0.075 ppbv #	89
37) 1,2-Dichloroethane	6.32	62	8503	0.080 ppbv #	79
38) Trichloroethene	7.84	130	8173	0.085 ppbv #	76
39) 1,2-Dichloropropane	7.18	63	712380	7.984 ppbv	27
42) Bromodichloromethane	7.80	83	5906	0.035 ppbv #	57
44) 2,2,4-Trimethylpentane	7.88	57	22334	0.057 ppbv #	41
46) cis-1,3-Dichloropropene	8.71	75	4177	0.034 ppbv #	64
53) Toluene	9.82	91	11531	0.043 ppbv #	20
56) 1,1,1,2-Tetrachloroethane	12.14	131	4525	0.046 ppbv #	1
57) Chlorobenzene	12.15	112	9468	0.052 ppbv #	55
59) m/p-Xylene	13.00	91	11765	0.042 ppbv #	1
61) Styrene	13.53	104	7859	0.049 ppbv #	48
62) Isopropylbenzene	14.68	105	21627	0.055 ppbv #	48
63) 1,1,2,2-Tetrachloroethane	13.69	83	12291	0.074 ppbv #	66
67) sec-Butylbenzene	17.30	105	41956	0.086 ppbv	98

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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

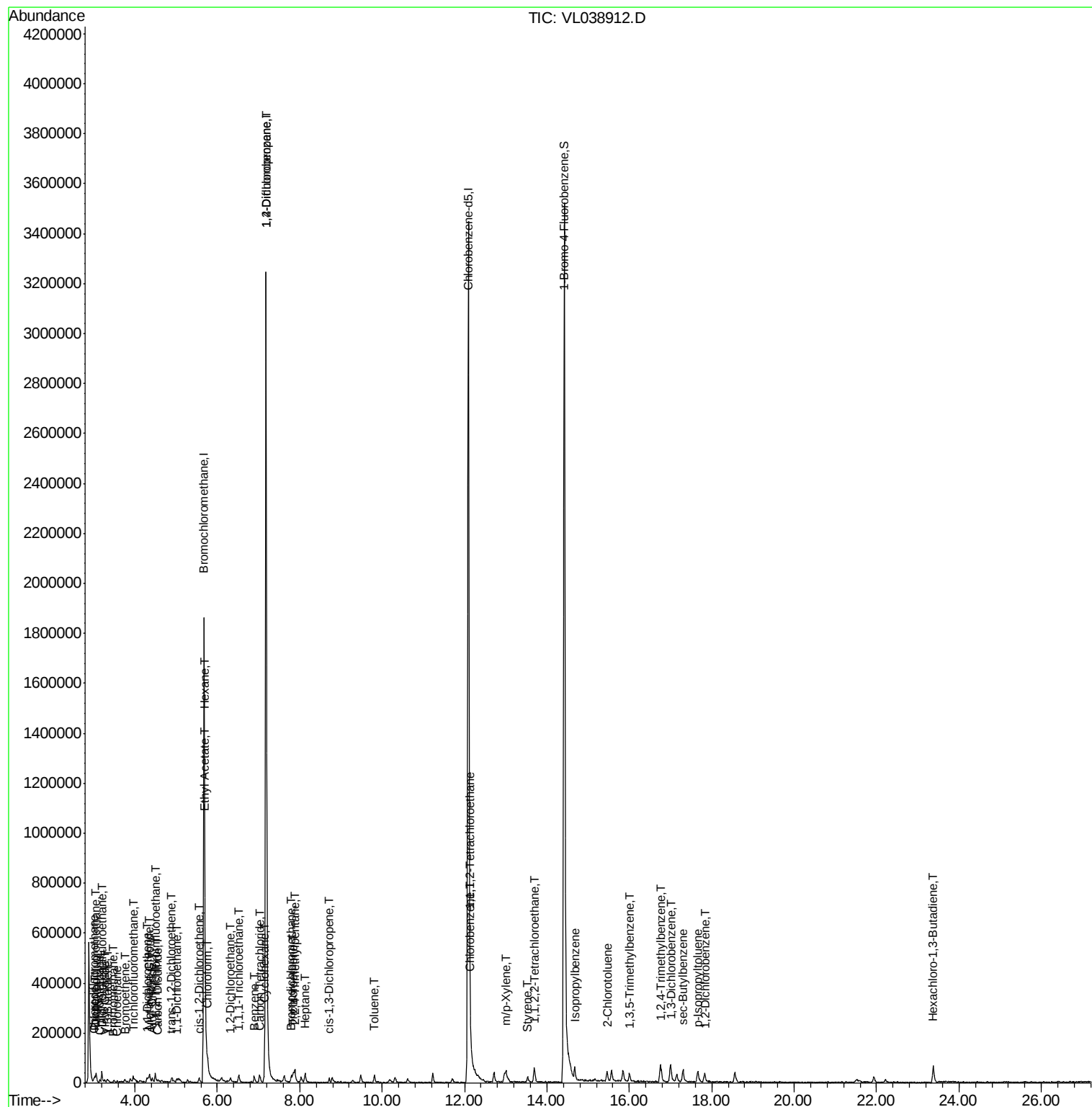
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	17.66	119	19976	0.050	ppbv #	48
71) 2-Chlorotoluene	15.46	91	9901	0.033	ppbv #	1
73) 1,3,5-Trimethylbenzene	16.00	105	10145	0.036	ppbv #	63
74) 1,2,4-Trimethylbenzene	16.77	105	9636	0.032	ppbv #	57
75) 1,3-Dichlorobenzene	17.00	146	9508	0.055	ppbv #	32
77) 1,2-Dichlorobenzene	17.83	146	5662	0.033	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.38	225	6613	0.049	ppbv #	1

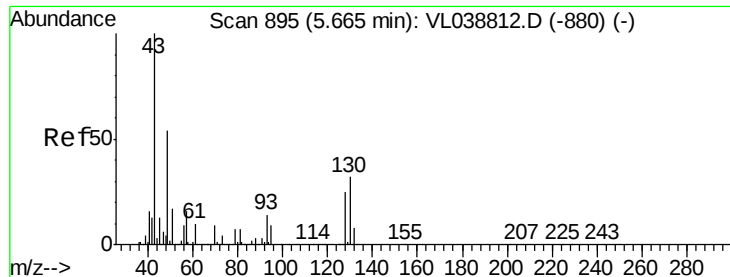
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: MDL 0.1 NAPHT.

Acq: 13 Apr 2022 20:48

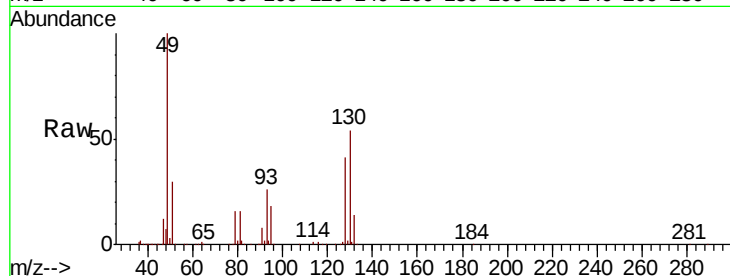
Tot Ion: 49 Resp: 1096324

Ion Ratio Lower Upper

49 100

128 45.9 24.1 72.3

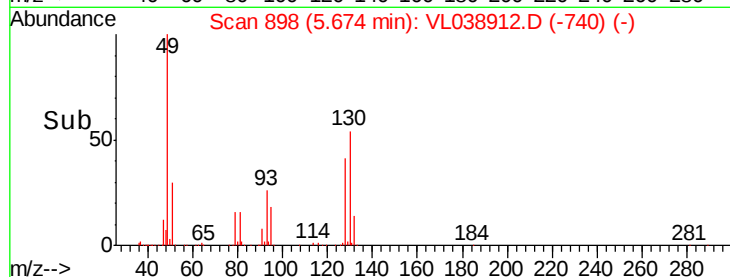
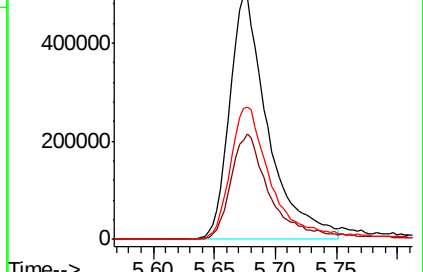
130 60.0 30.9 92.8



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: 0.165 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL038912.D

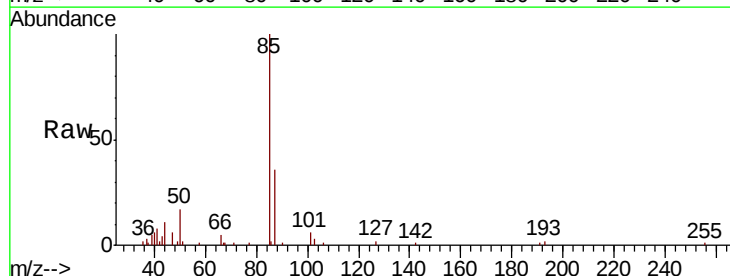
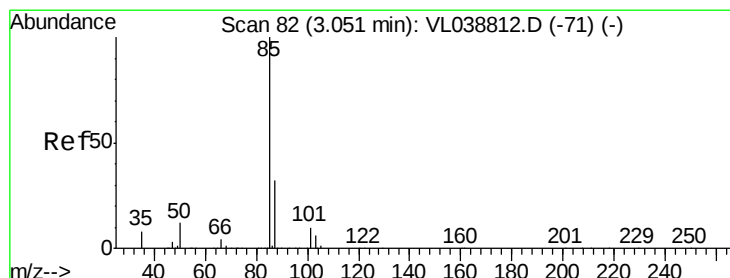
Acq: 13 Apr 2022 20:48

Tgt Ion: 85 Resp: 25640

Ion Ratio Lower Upper

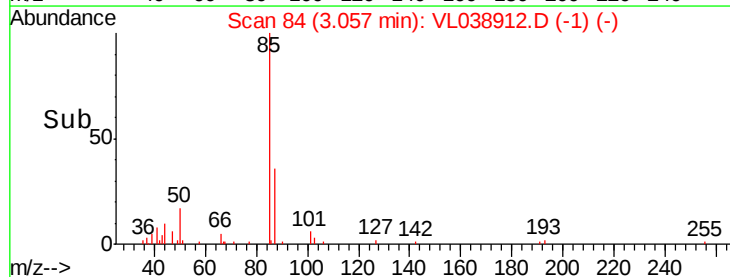
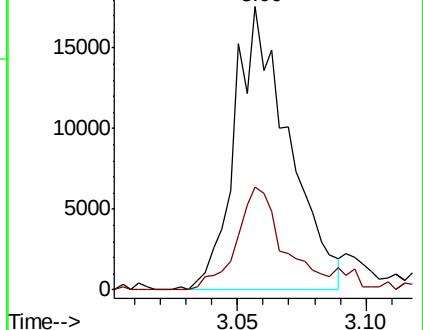
85 100

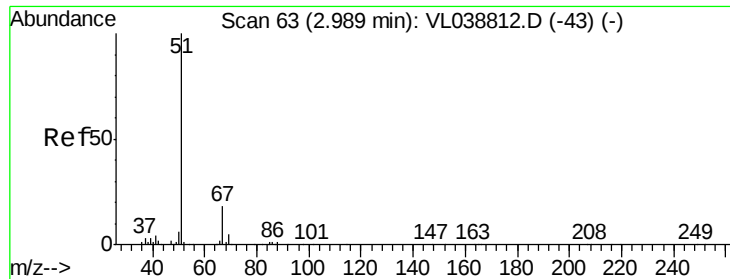
87 36.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.121 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

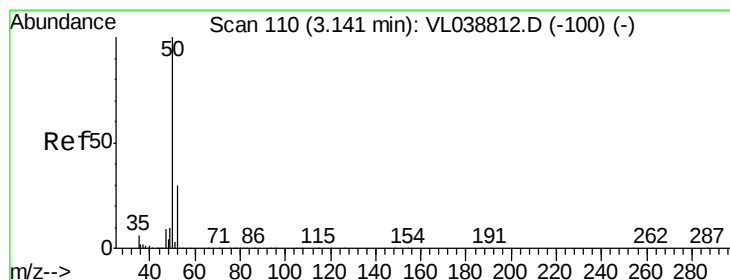
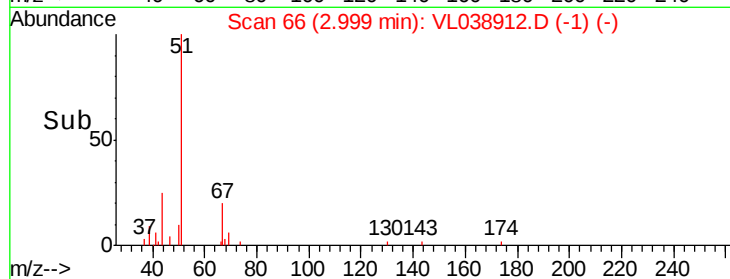
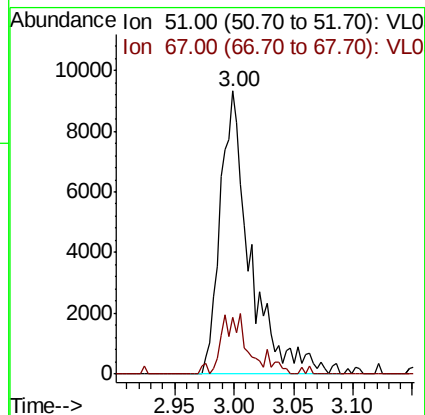
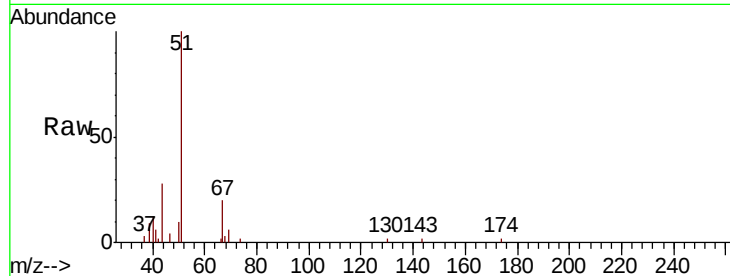
Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

Tot Ion: 51 Resp: 16188

Ion Ratio Lower Upper

51 100

67 20.0 13.4 20.0



#4

Chloromethane

Concen: 0.058 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL038912.D

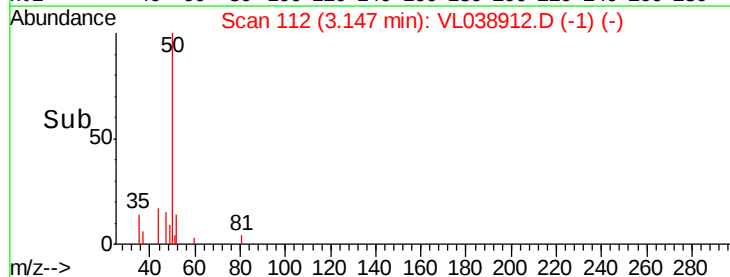
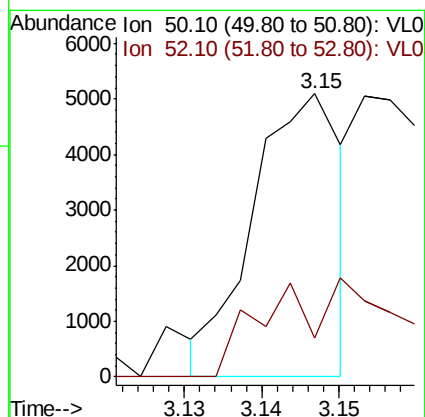
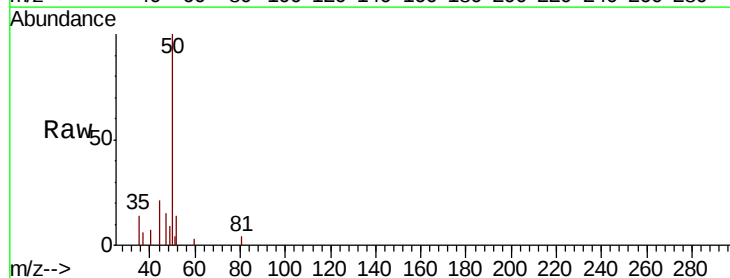
Acq: 13 Apr 2022 20:48

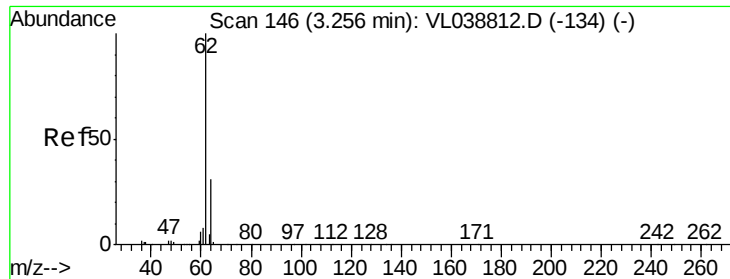
Tgt Ion: 50 Resp: 4046

Ion Ratio Lower Upper

50 100

52 15.2 24.3 36.5#





#5

Vinyl Chloride

Concen: 0.056 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

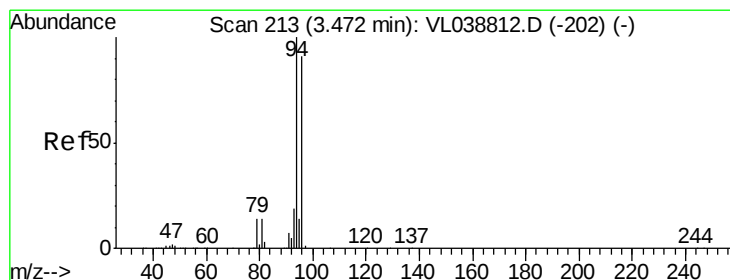
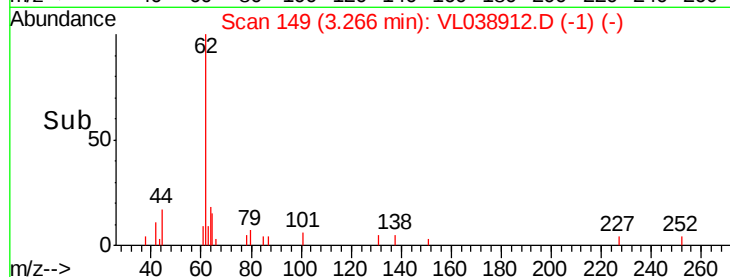
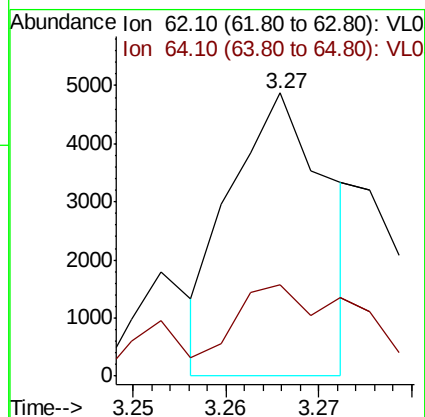
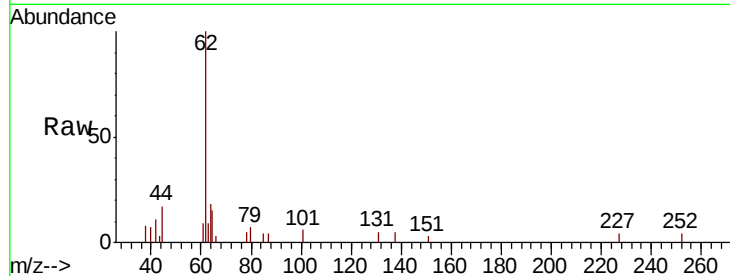
Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

Tot Ion: 62 Resp: 3577

Ion Ratio Lower Upper

62 100

64 31.2 24.6 37.0



#6

Bromomethane

Concen: 0.060 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.01 min

Lab File: VL038912.D

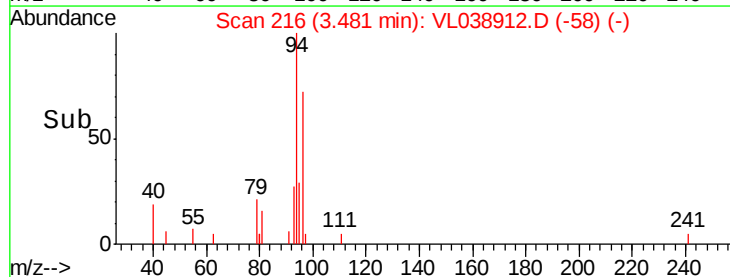
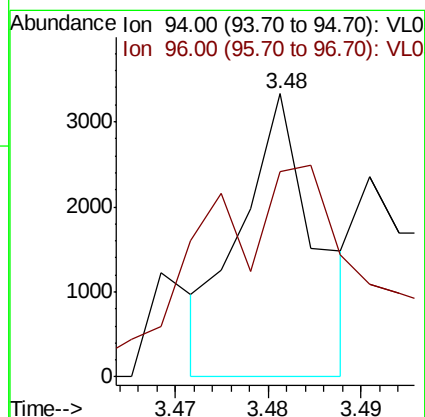
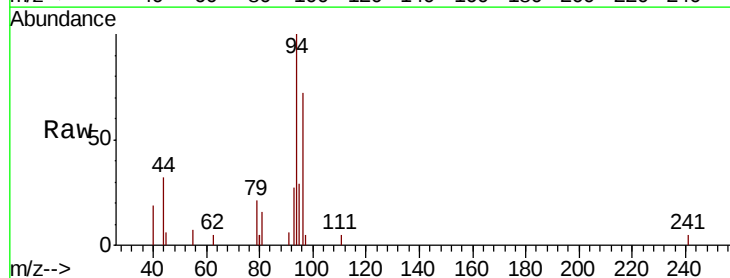
Acq: 13 Apr 2022 20:48

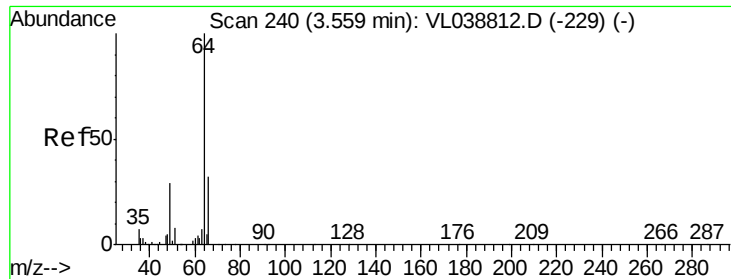
Tgt Ion: 94 Resp: 1846

Ion Ratio Lower Upper

94 100

96 41.3 73.2 109.8#





#7

Chloroethane

Concen: 0.063 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

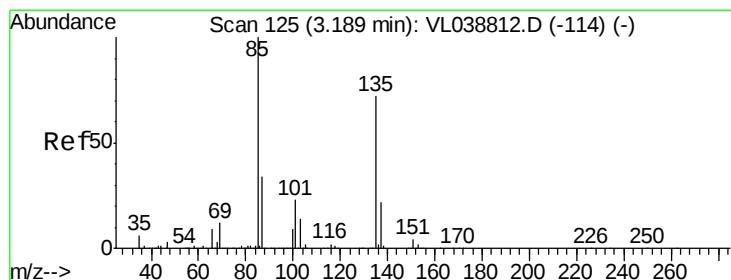
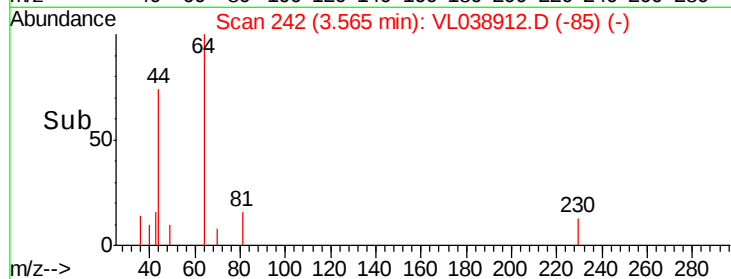
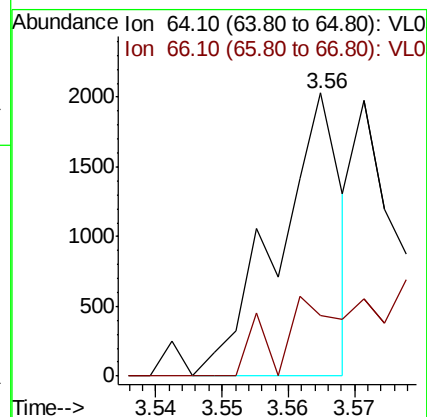
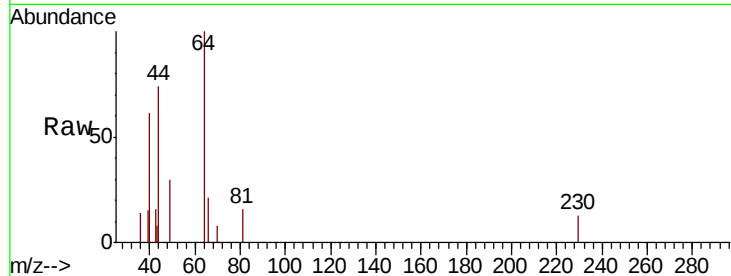
Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

Tot Ion: 64 Resp: 1354

Ion Ratio Lower Upper

64 100

66 21.5 25.4 38.2#



#8

Dichlorotetrafluoroethane

Concen: 0.122 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.01 min

Lab File: VL038912.D

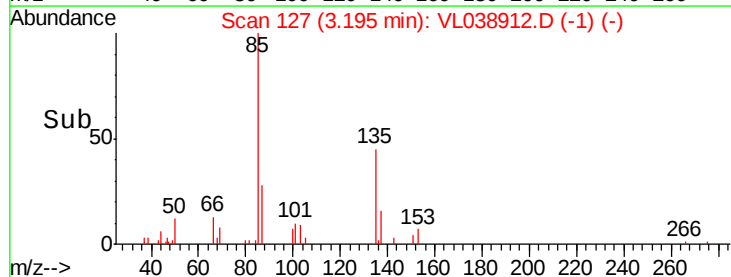
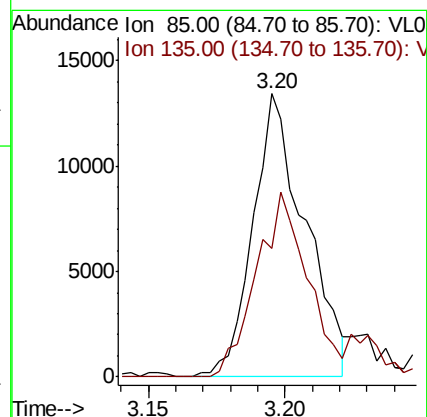
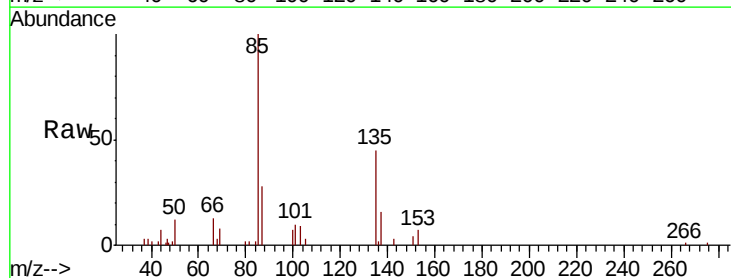
Acq: 13 Apr 2022 20:48

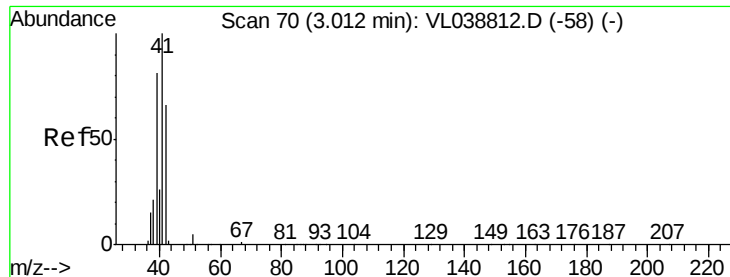
Tgt Ion: 85 Resp: 17790

Ion Ratio Lower Upper

85 100

135 76.5 57.0 85.6





#9

Propene

Concen: 0.061 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

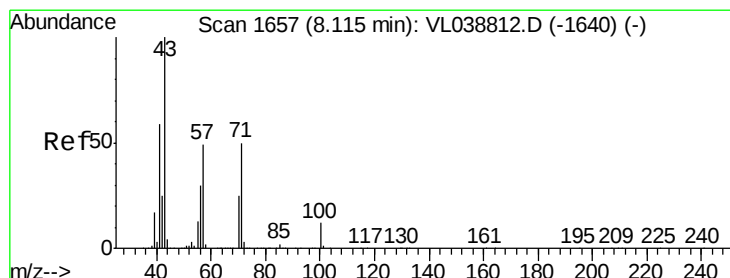
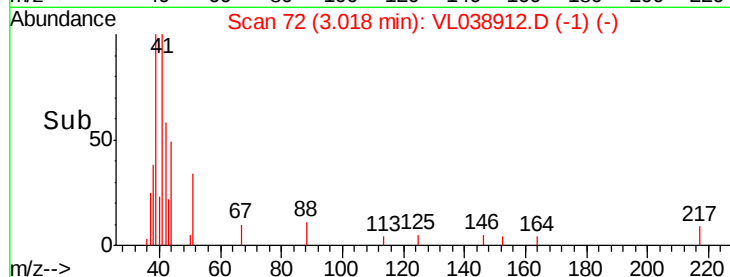
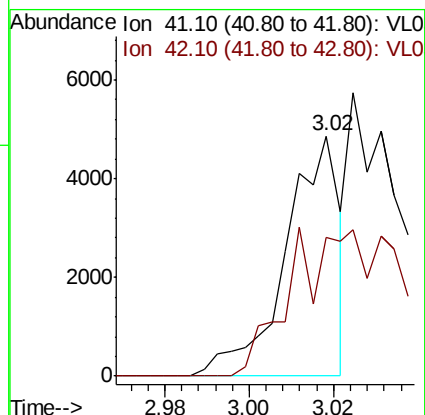
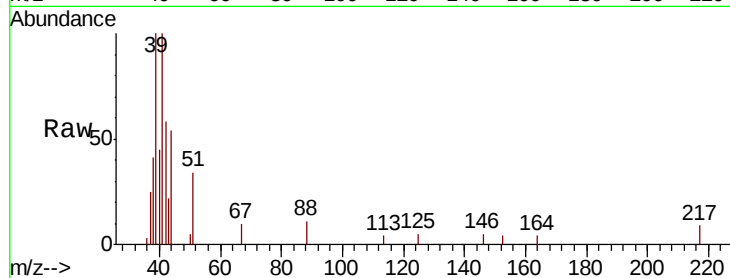
Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

Tot Ion: 41 Resp: 4291

Ion Ratio Lower Upper

41 100

42 158.5 54.2 81.4#



#10

Heptane

Concen: 0.050 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.01 min

Lab File: VL038912.D

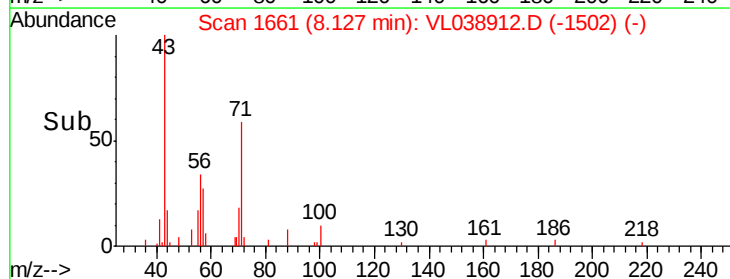
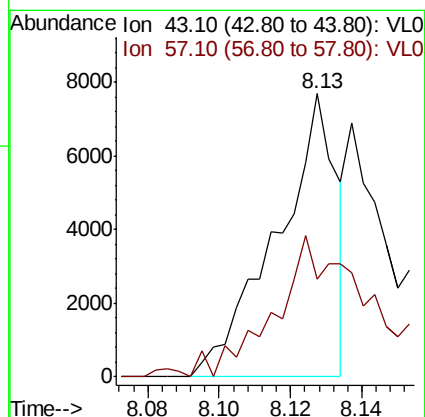
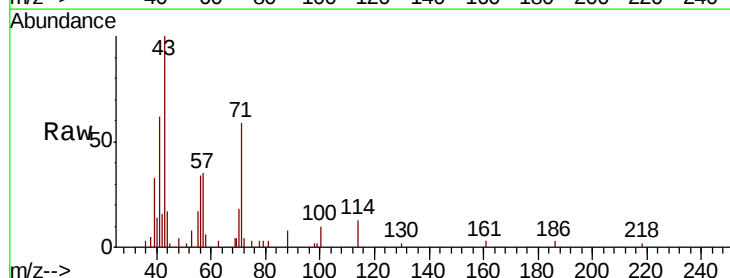
Acq: 13 Apr 2022 20:48

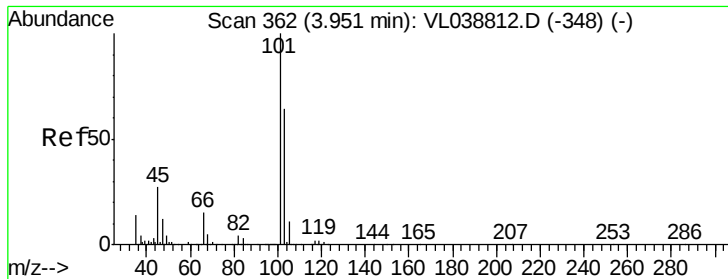
Tgt Ion: 43 Resp: 8931

Ion Ratio Lower Upper

43 100

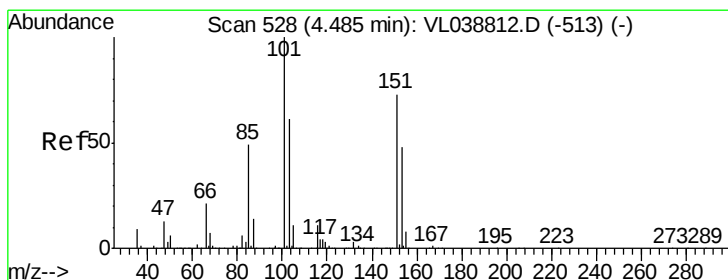
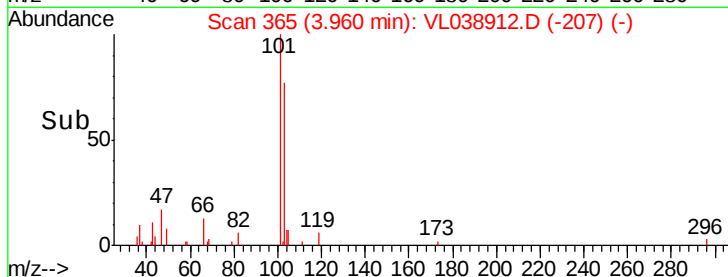
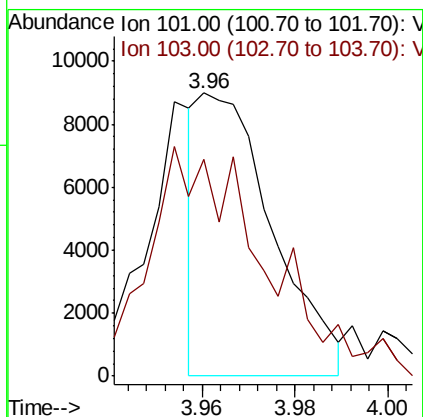
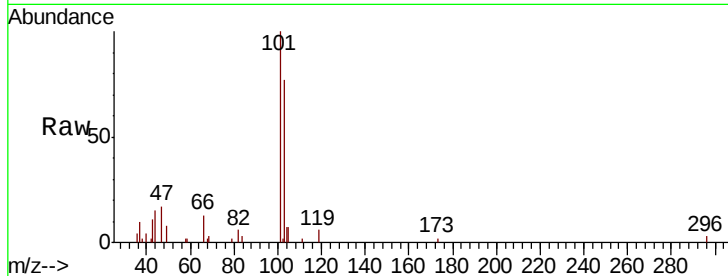
57 84.9 39.3 58.9#





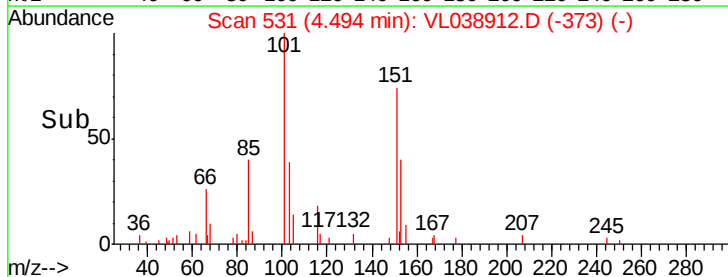
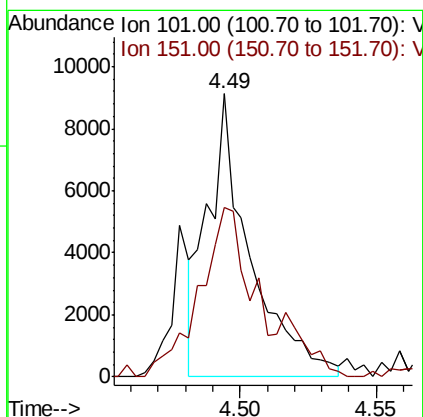
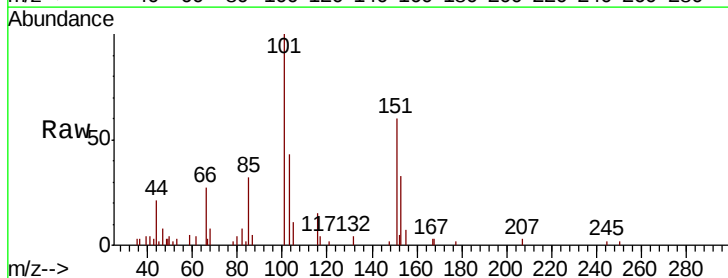
#11
 Trichlorofluoromethane
 Concen: 0.080 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

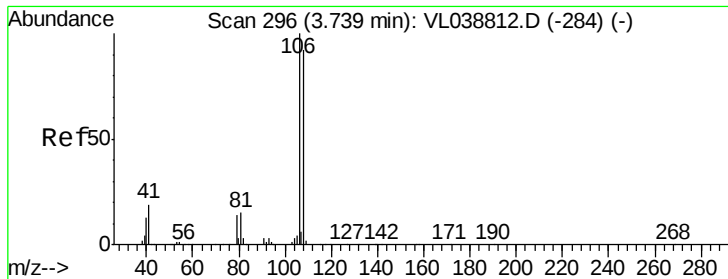
Tot Ion:101 Resp: 9973
 Ion Ratio Lower Upper
 101 100
 103 66.0 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.103 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T.: 0.01 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

Tgt Ion:101 Resp: 9878
 Ion Ratio Lower Upper
 101 100
 151 87.7 59.9 89.9





#14

Bromoethene

Concen: 0.092 ppbv

RT: 3.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

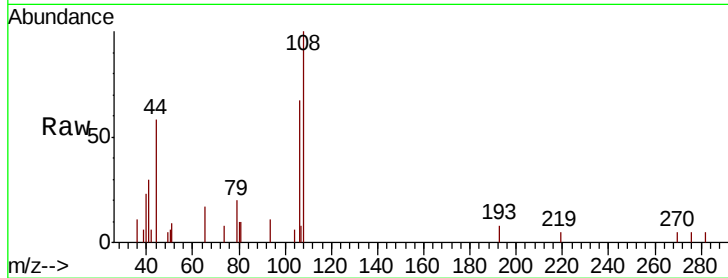
Tot Ion: 108 Resp: 3891

Ion Ratio Lower Upper

108 100

106 135.6 91.5 137.3

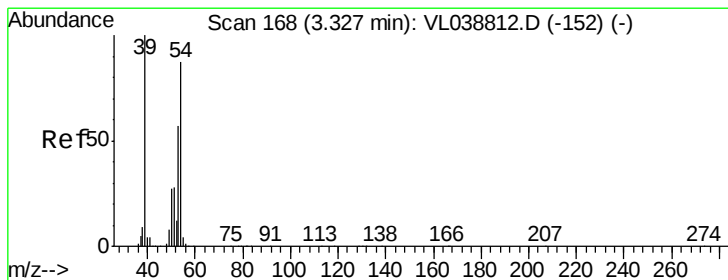
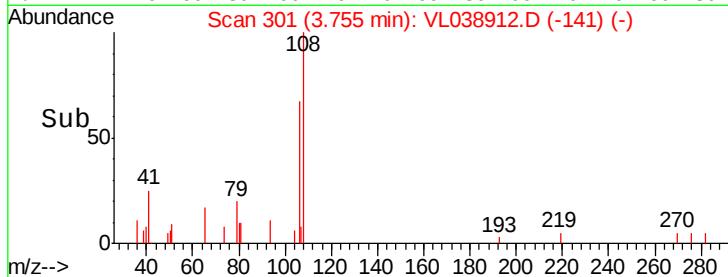
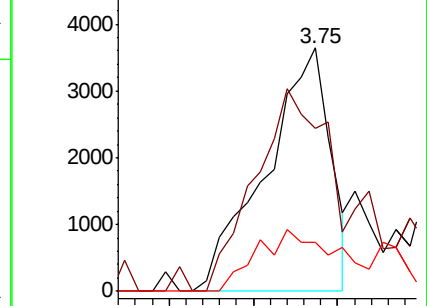
79 43.9 13.7 20.5#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VLO



#16

1,3-Butadiene

Concen: 0.036 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL038912.D

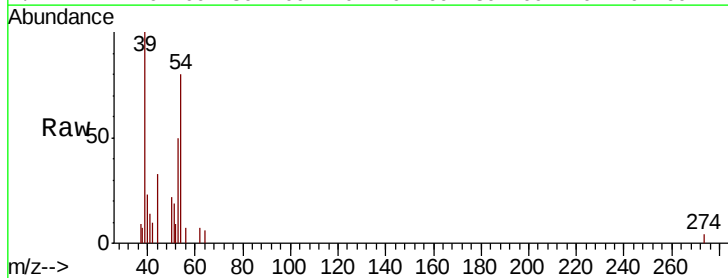
Acq: 13 Apr 2022 20:48

Tgt Ion: 39 Resp: 2259

Ion Ratio Lower Upper

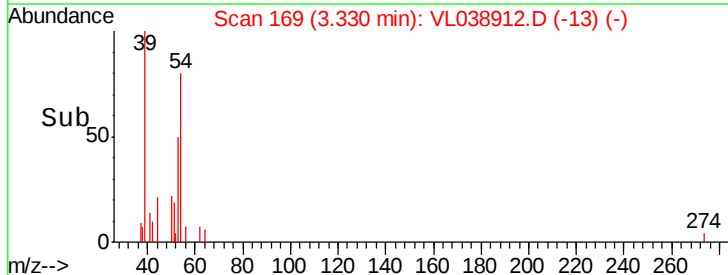
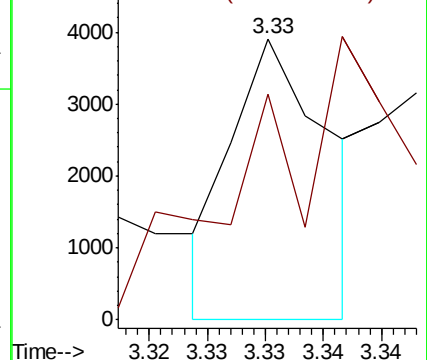
39 100

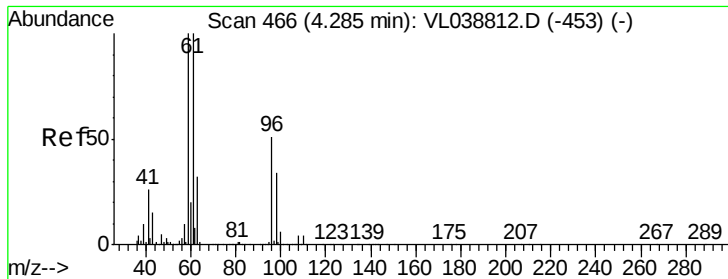
54 271.3 64.8 97.2#



Abundance Ion 39.10 (38.80 to 39.80): VLO

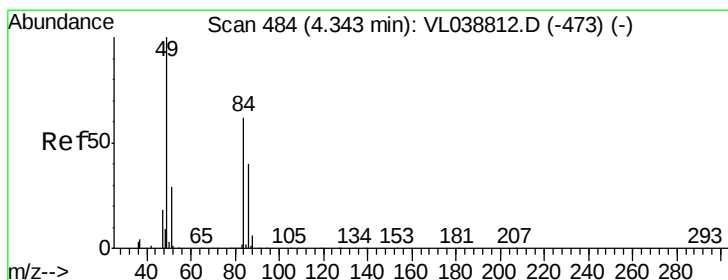
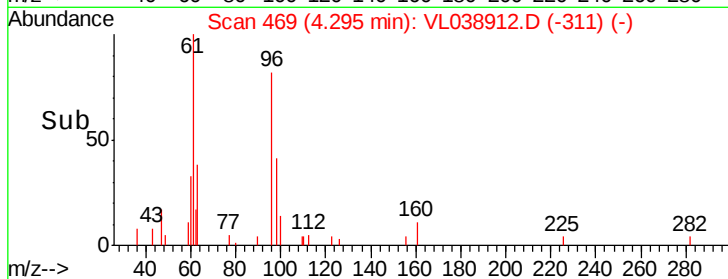
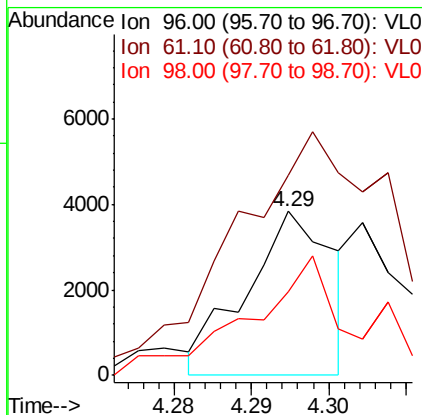
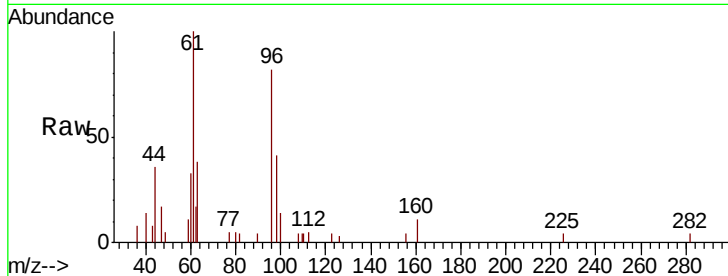
Ion 54.10 (53.80 to 54.80): VLO





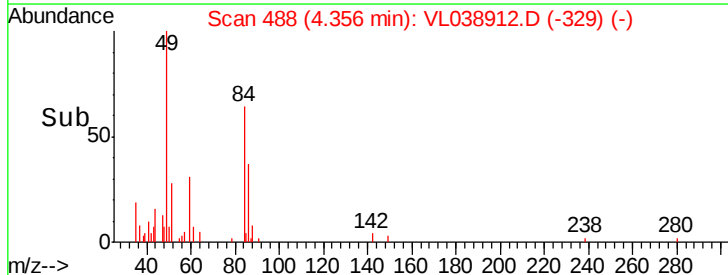
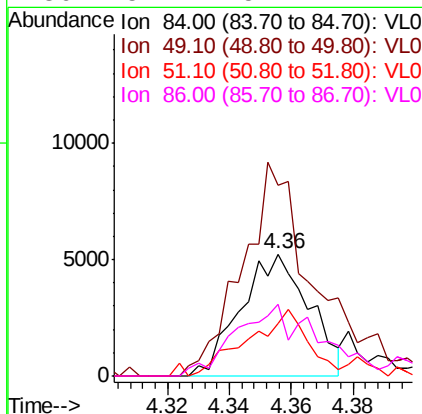
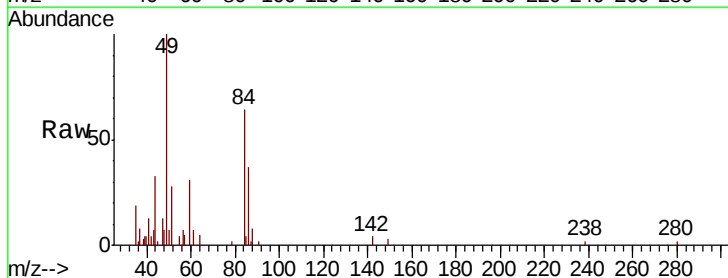
#18
 1,1-Dichloroethene
 Concen: 0.069 ppbv
 RT: 4.29
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

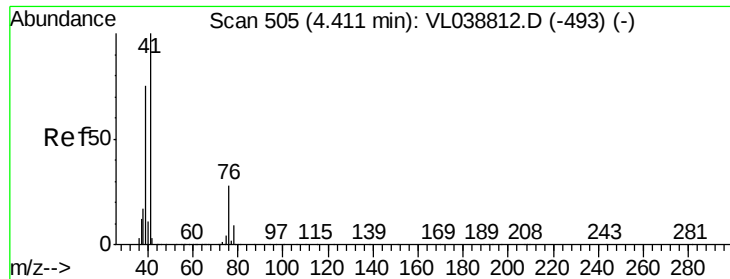
Tot Ion: 96 Resp: 2998
 Ion Ratio Lower Upper
 96 100
 61 104.4 156.1 234.1#
 98 45.3 53.0 79.6#



#20
 Methylene Chloride
 Concen: 0.203 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.01 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

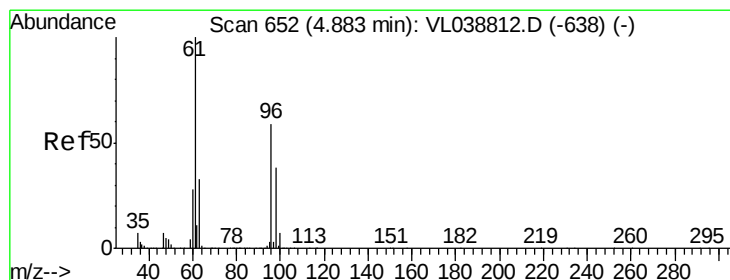
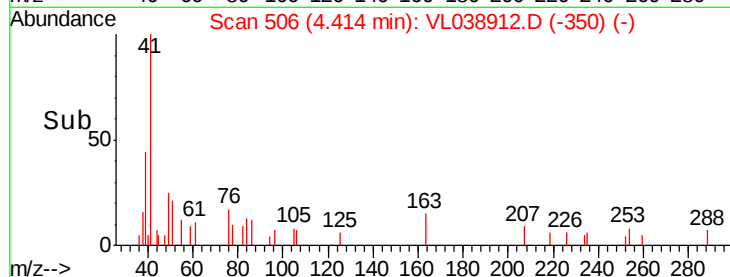
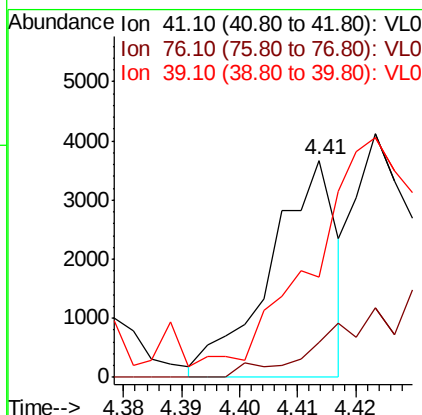
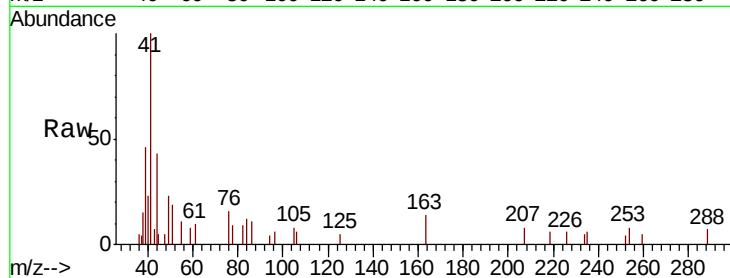
Tgt Ion: 84 Resp: 8038
 Ion Ratio Lower Upper
 84 100
 49 147.7 129.4 194.0
 51 43.1 37.4 56.2
 86 51.7 51.4 77.2





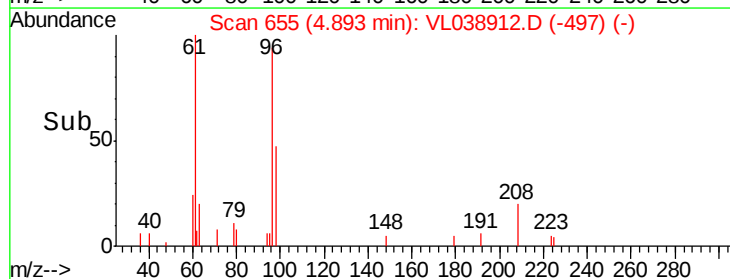
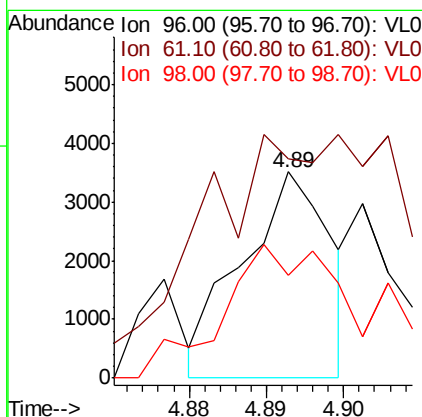
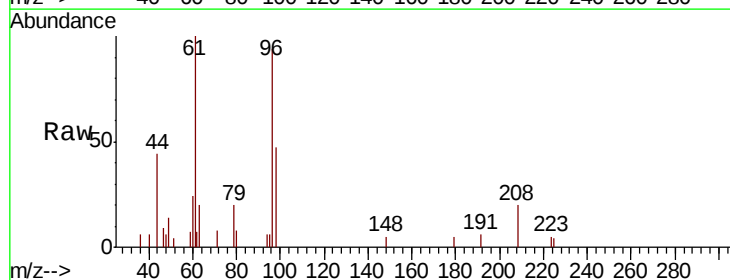
#21
 Allvl Chloride
 Concen: 0.036 ppbv
 RT: 4.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

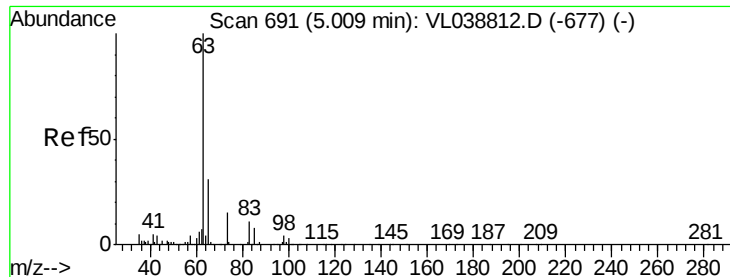
Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.7	35.5#
39	0.0	62.0	93.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.063 ppbv
 RT: 4.89 min Scan# 655
 Delta R.T. 0.01 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

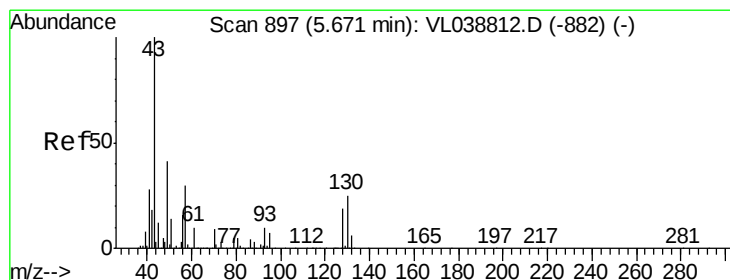
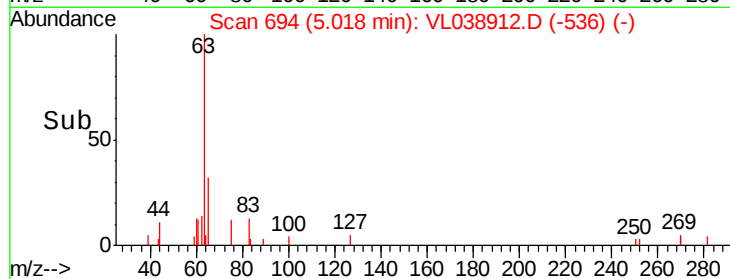
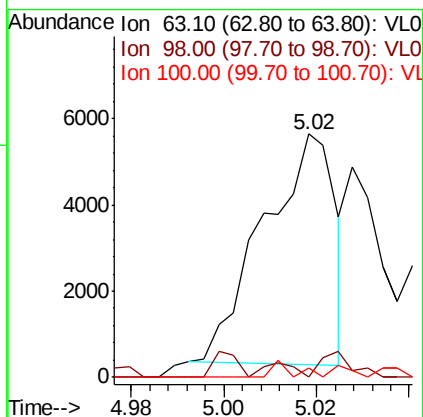
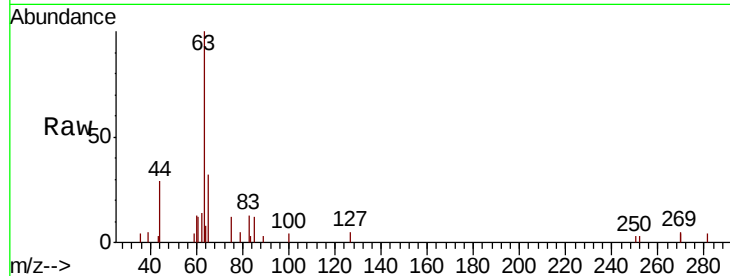
Tgt Ion	Ratio	Lower	Upper
96	100		
61	54.7	134.8	202.2#
98	40.5	51.9	77.9#





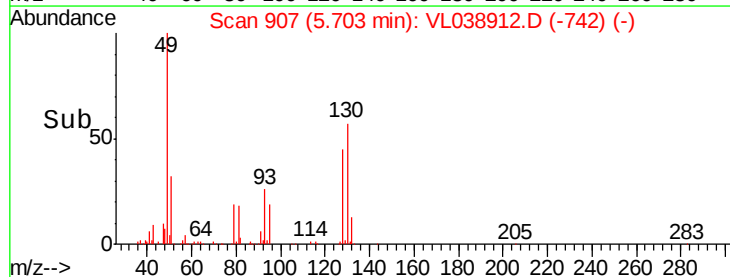
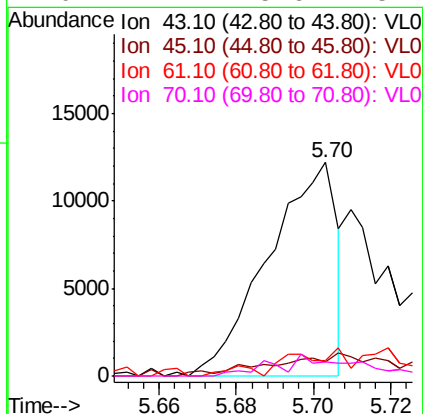
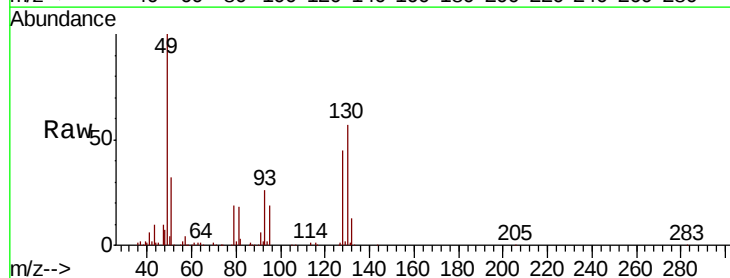
#24
 1,1-Dichloroethane
 Concen: 0.060 ppbv
 RT: 5.02 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

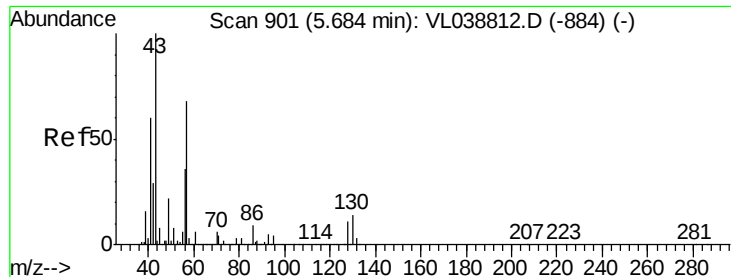
Tot Ion:	63	Resp:	5748
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.2	6.6#
100	4.2	1.4	4.0#



#25
 Ethyl Acetate
 Concen: 0.054 ppbv
 RT: 5.70 min Scan# 907
 Delta R.T. 0.03 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

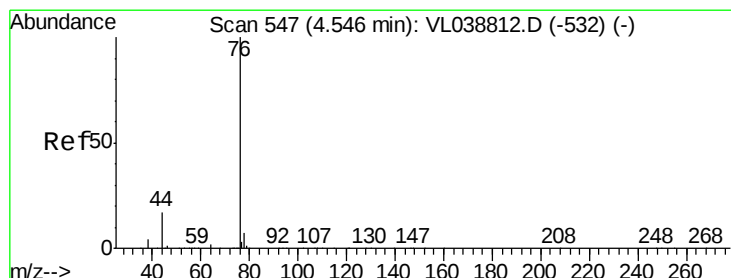
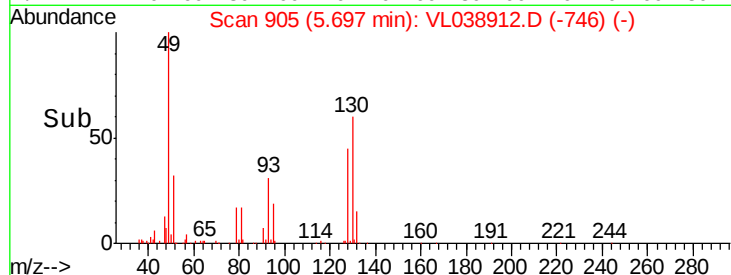
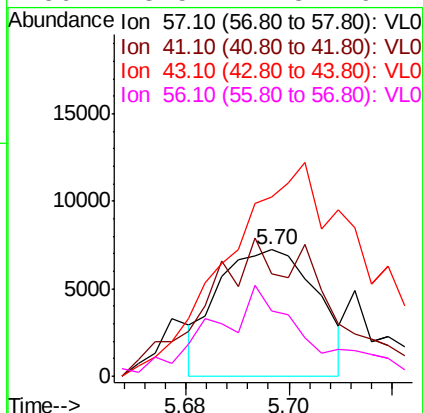
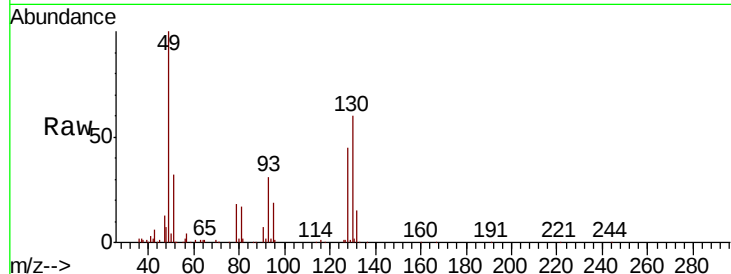
Tgt Ion:	43	Resp:	15010
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.4	12.6#
61	6.1	7.9	11.9#
70	12.2	5.6	8.4#





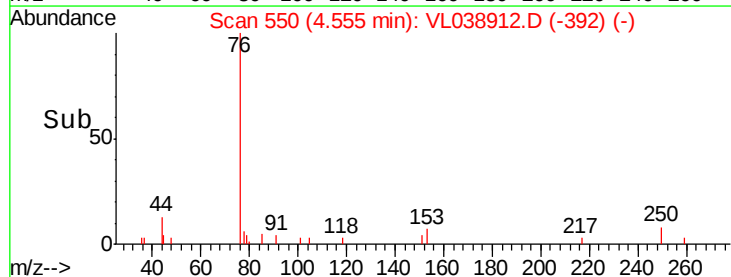
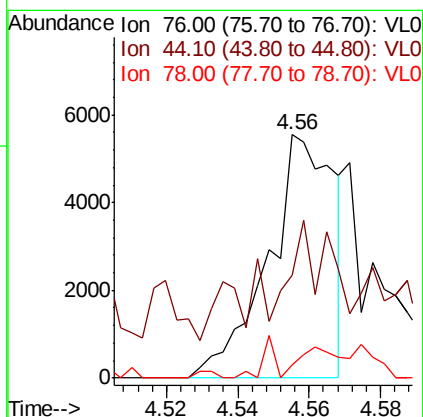
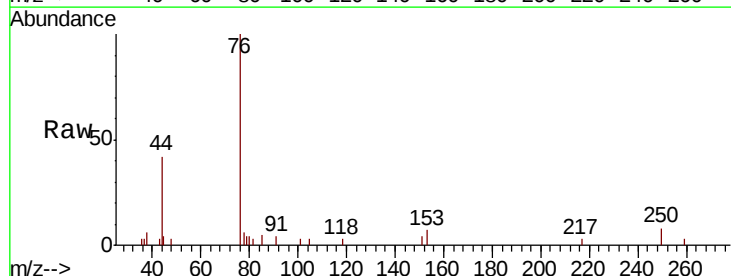
#26
Hexane
Concen: 0.076 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 13 Apr 2022 20:48

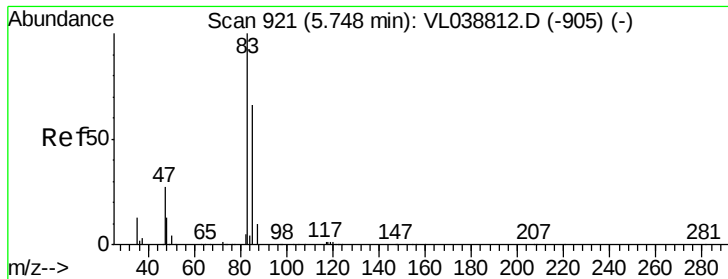
Tot Ion: 57 Resp: 9607
Ion Ratio Lower Upper
57 100
41 150.6 72.0 108.0#
43 0.0 186.6 280.0#
56 73.5 42.8 64.2#



#27
Carbon Disulfide
Concen: 0.061 ppbv
RT: 4.56 min Scan# 550
Delta R.T. 0.01 min
Lab File: VL038912.D
Acq: 13 Apr 2022 20:48

Tgt Ion: 76 Resp: 7073
Ion Ratio Lower Upper
76 100
44 62.3 15.7 23.5#
78 15.8 7.8 11.8#





#29

Chloroform

Concen: 0.098 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

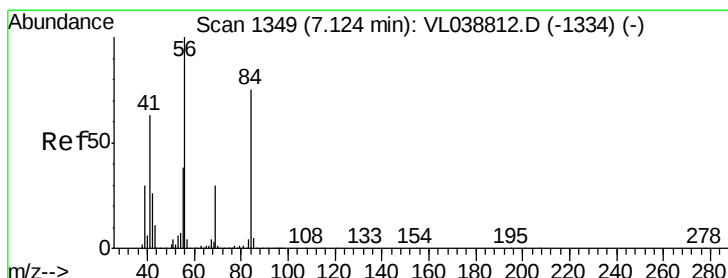
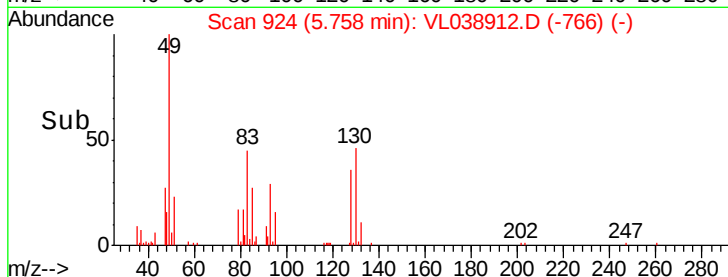
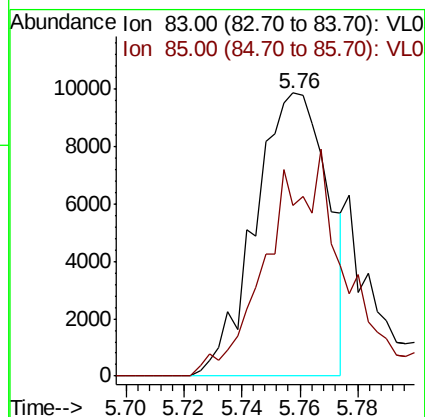
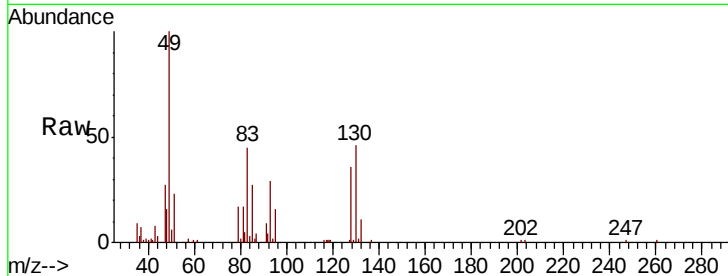
Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

Tot Ion: 83 Resp: 17256

Ion Ratio Lower Upper

83 100

85 60.4 52.5 78.7



#30

Cyclohexane

Concen: 0.039 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.02 min

Lab File: VL038912.D

Acq: 13 Apr 2022 20:48

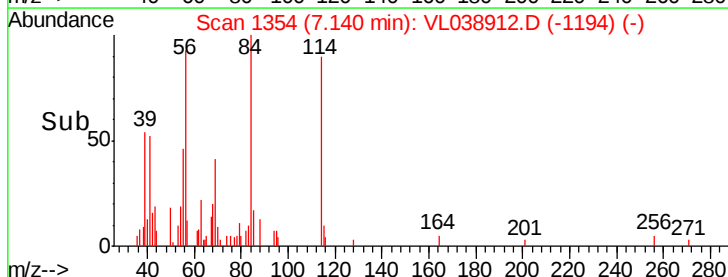
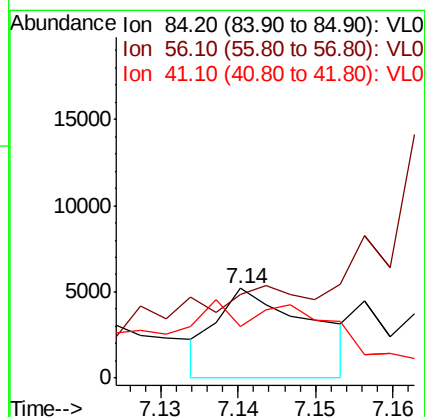
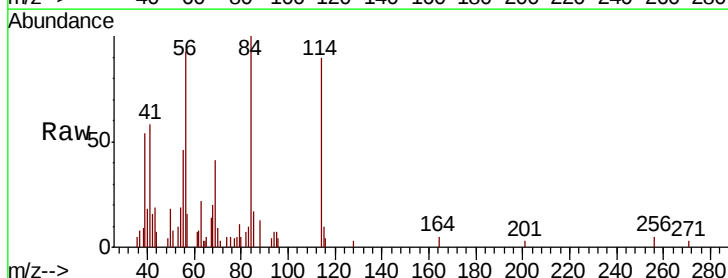
Tgt Ion: 84 Resp: 4382

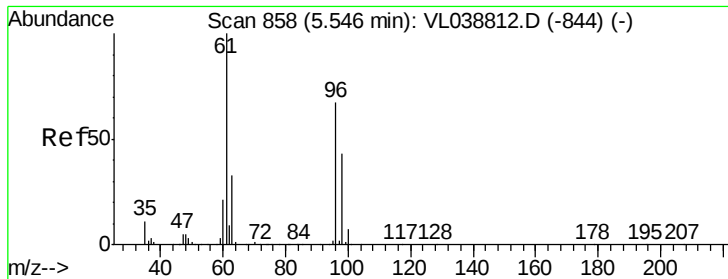
Ion Ratio Lower Upper

84 100

56 0.0 114.4 171.6#

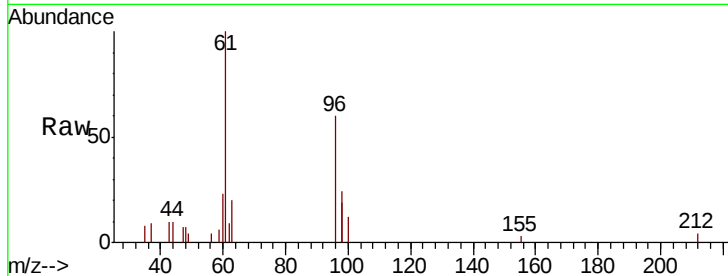
41 200.7 69.0 103.4#



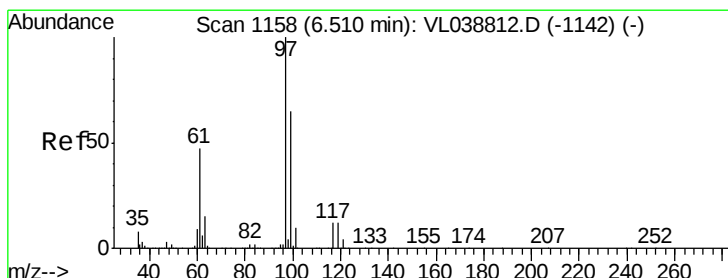
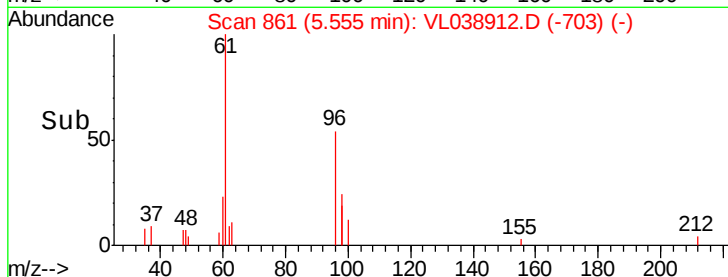
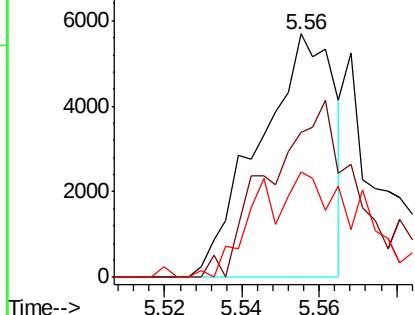


#31
 cis-1,2-Dichloroethene
 Concen: 0.066 ppbv
 RT: 5.56
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

Tot Ion: 61 Resp: 7702
 Ion Ratio Lower Upper
 61 100
 96 59.6 53.4 80.0
 98 43.4 34.2 51.4

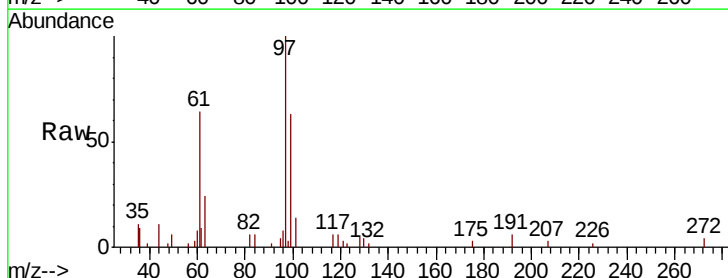


Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0

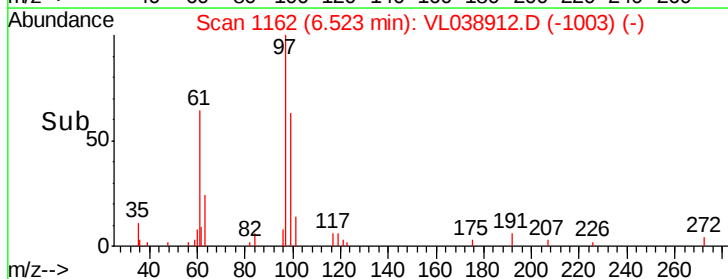
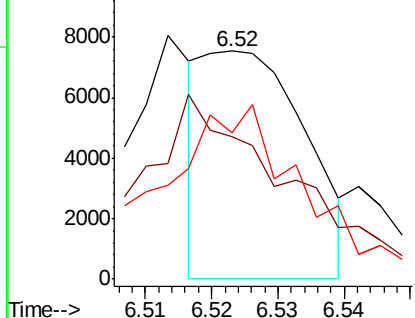


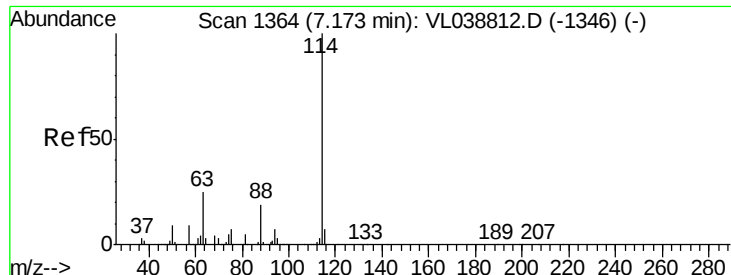
#32
 1,1,1-Trichloroethane
 Concen: 0.045 ppbv
 RT: 6.52 min Scan# 1162
 Delta R.T. 0.01 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

Tgt Ion: 97 Resp: 8033
 Ion Ratio Lower Upper
 97 100
 99 0.0 52.4 78.6#
 61 125.8 38.6 57.8#



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

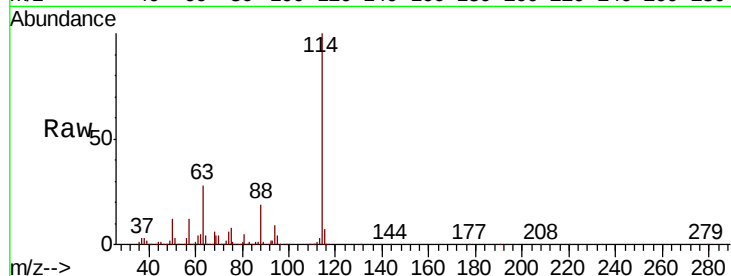




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

Tot Ion:114 Resp: 2564232

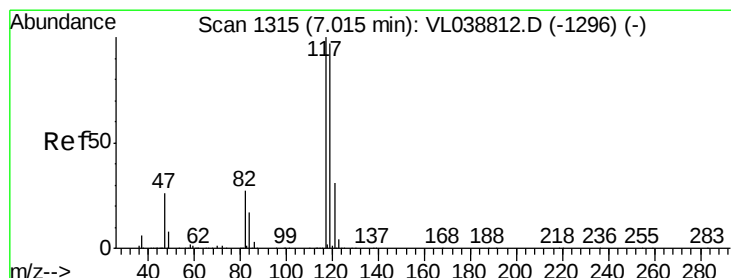
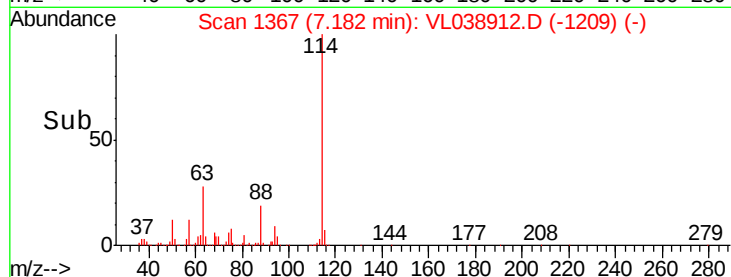
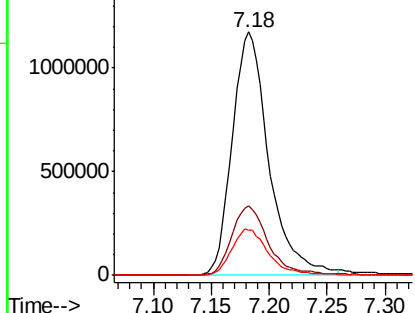
Ion	Ratio	Lower	Upper
114	100		
63	28.9	19.8	29.8
88	19.5	14.2	21.4



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

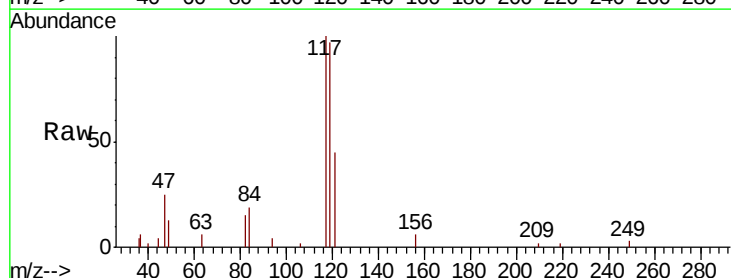
Ion 88.10 (87.80 to 88.80): VL0



#35
 Carbon Tetrachloride
 Concen: 0.103 ppbv
 RT: 7.03 min Scan# 1319
 Delta R.T. 0.01 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

Tgt Ion:117 Resp: 15797

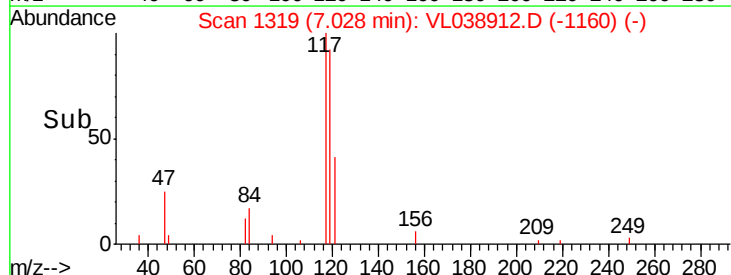
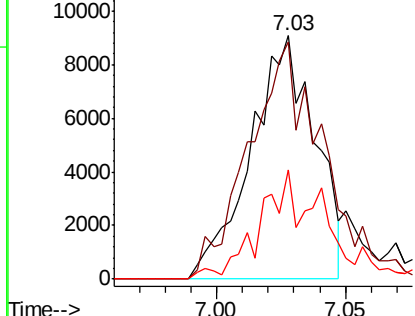
Ion	Ratio	Lower	Upper
117	100		
119	100.1	77.7	116.5
121	46.3	24.5	36.7#

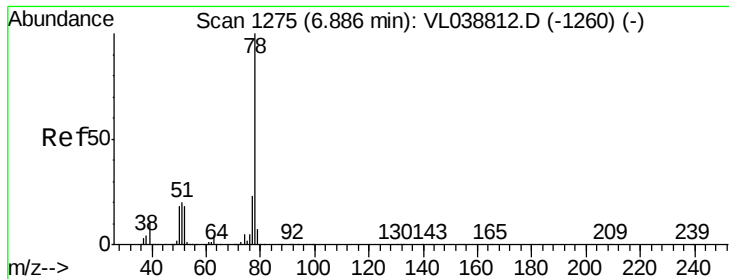


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.075 ppbv

RT: 6.90 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

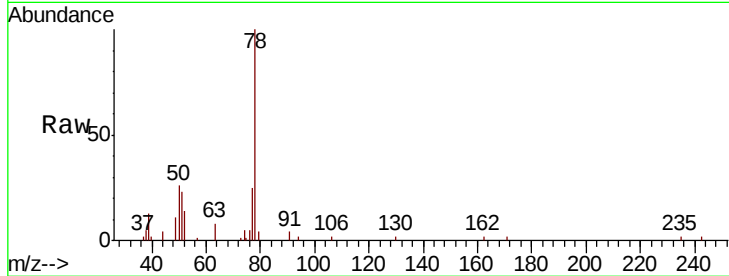
Tot Ion: 78 Resp: 17379

Ion Ratio Lower Upper

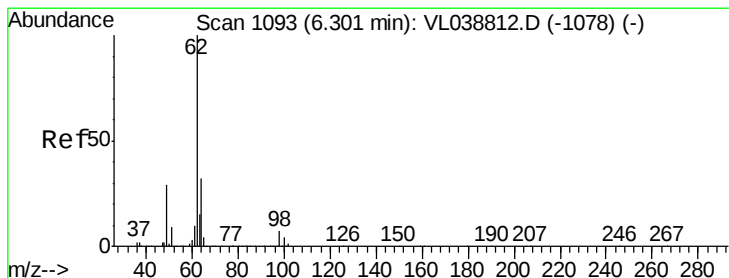
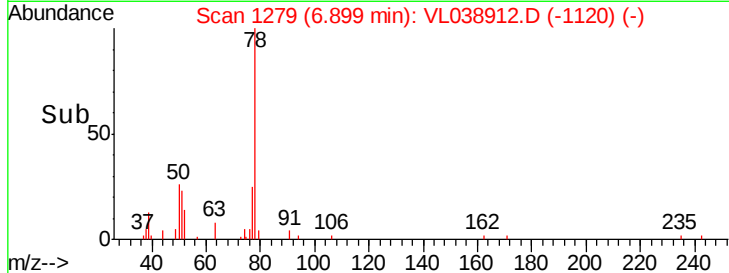
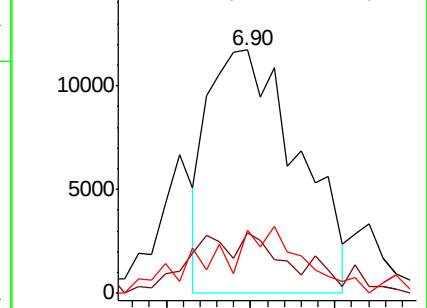
78 100

77 28.1 18.2 27.2#

50 22.7 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: 0.080 ppbv

RT: 6.32 min Scan# 1098

Delta R.T. 0.02 min

Lab File: VL038912.D

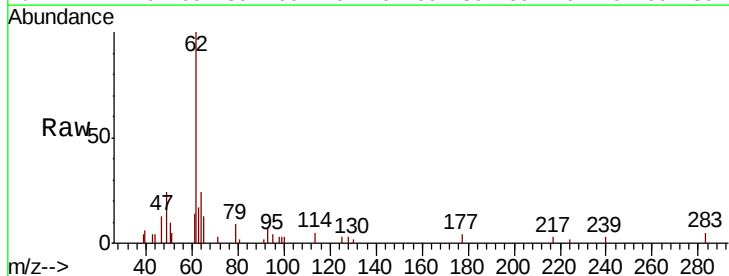
Acq: 13 Apr 2022 20:48

Tgt Ion: 62 Resp: 8503

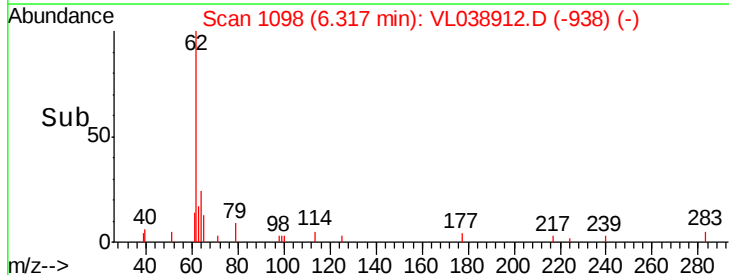
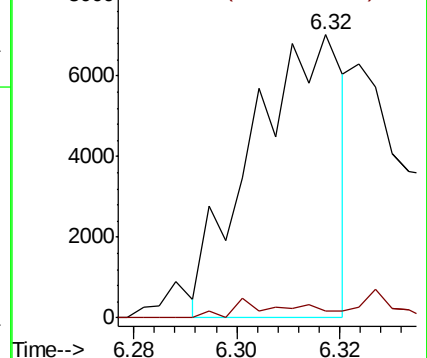
Ion Ratio Lower Upper

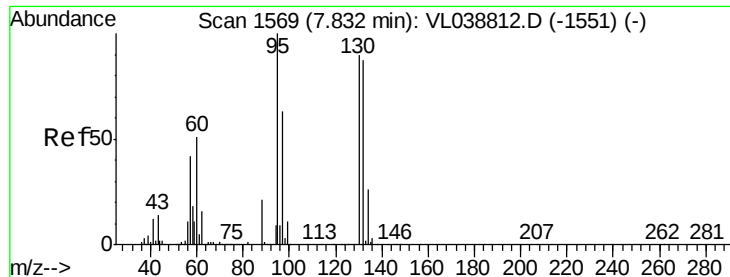
62 100

98 0.0 5.9 8.9#



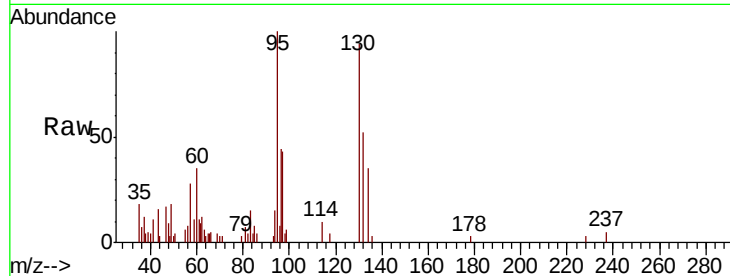
Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



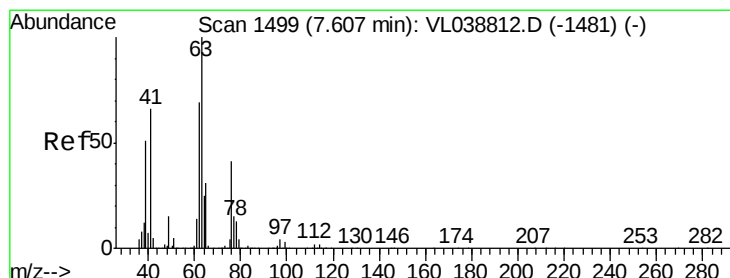
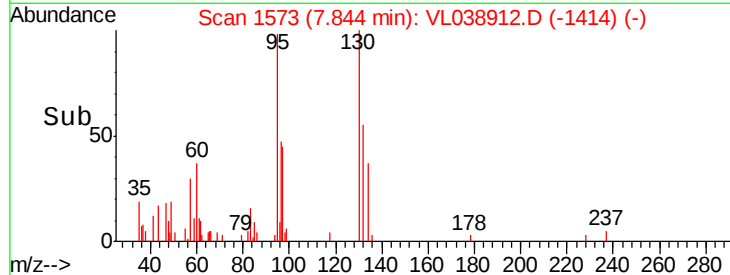
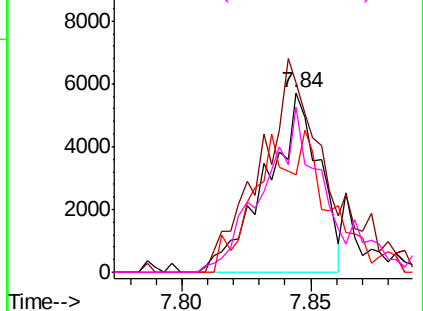


#38
 Trichloroethene
 Concen: 0.085 ppbv
 RT: 7.84
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

Tot Ion: 130 Resp: 8173
 Ion Ratio Lower Upper
 130 100
 95 105.9 89.4 134.0
 132 54.6 77.7 116.5#
 97 92.3 56.0 84.0#

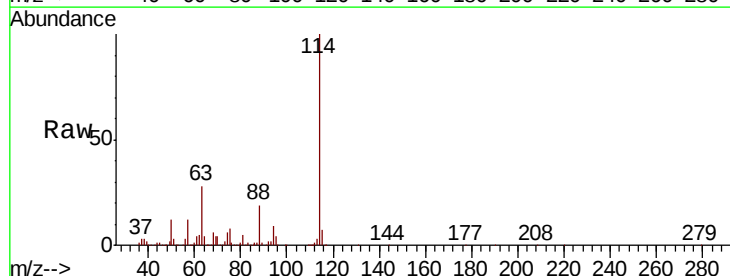


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

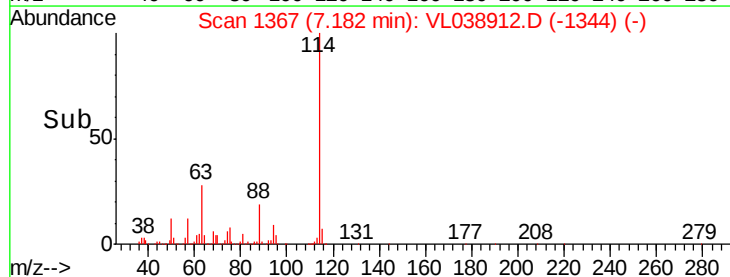
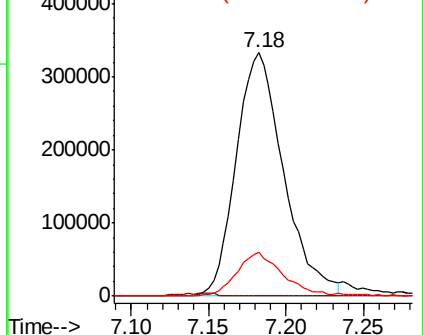


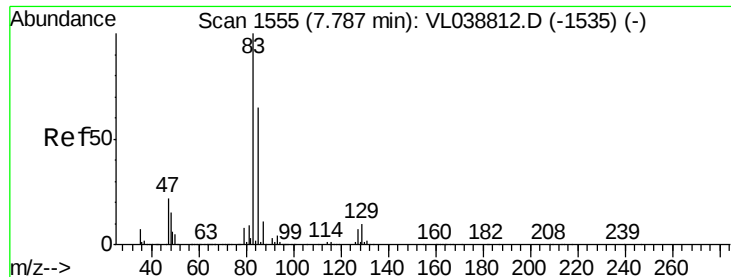
#39
 1,2-Dichloropropane
 Concen: 7.984 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.42 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

Tgt Ion: 63 Resp: 712380
 Ion Ratio Lower Upper
 63 100
 41 0.0 53.0 79.6#
 62 17.9 55.0 82.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.035 ppbv

RT: 7.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

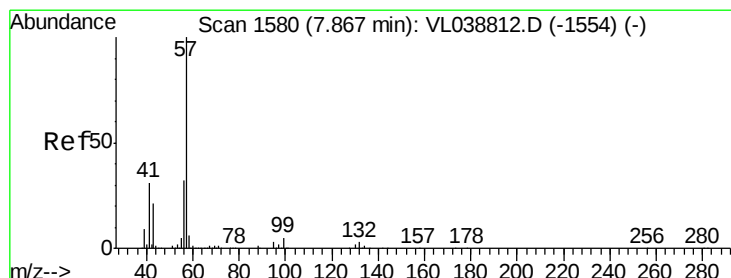
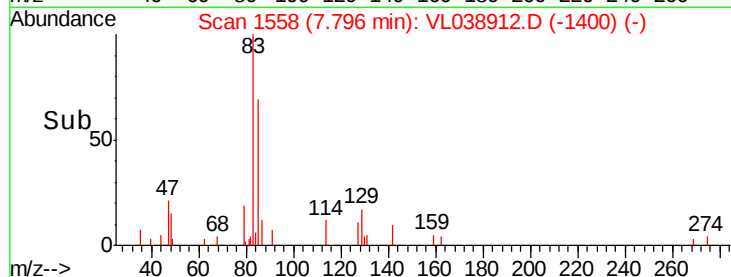
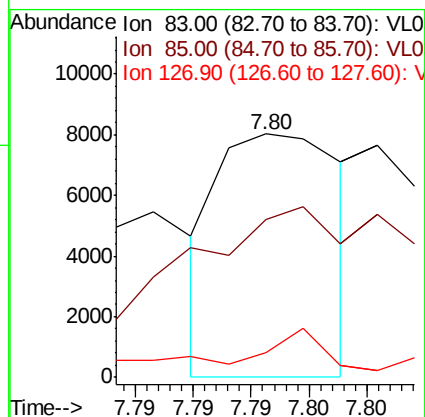
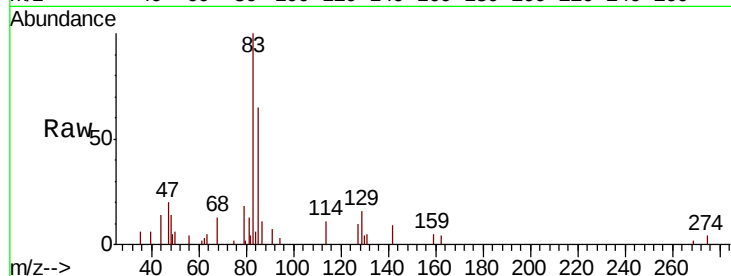
Tot Ion: 83 Resp: 5906

Ion Ratio Lower Upper

83 100

85 27.9 51.7 77.5#

127 11.8 5.9 8.9#



#44

2,2,4-Trimethylpentane

Concen: 0.057 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.01 min

Lab File: VL038912.D

Acq: 13 Apr 2022 20:48

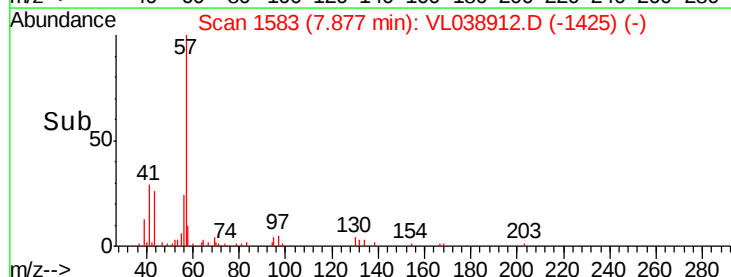
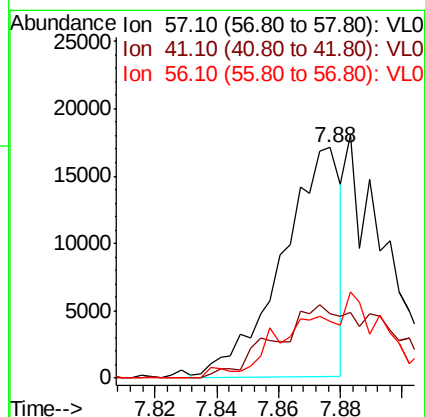
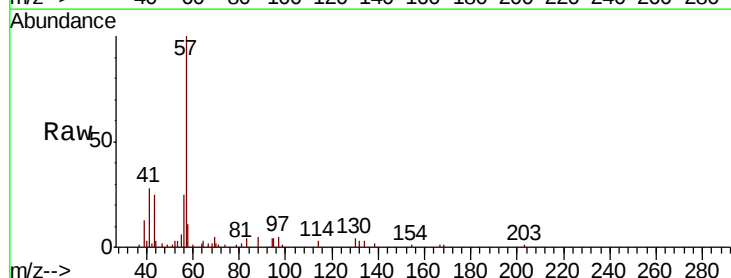
Tgt Ion: 57 Resp: 22334

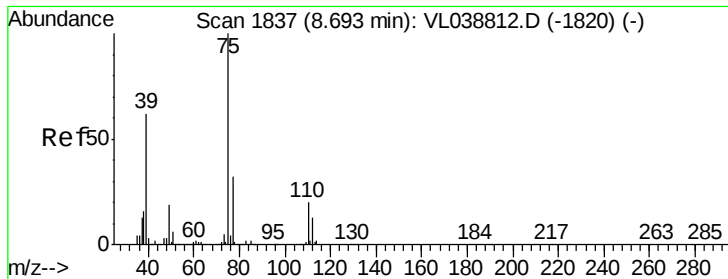
Ion Ratio Lower Upper

57 100

41 64.9 25.0 37.4#

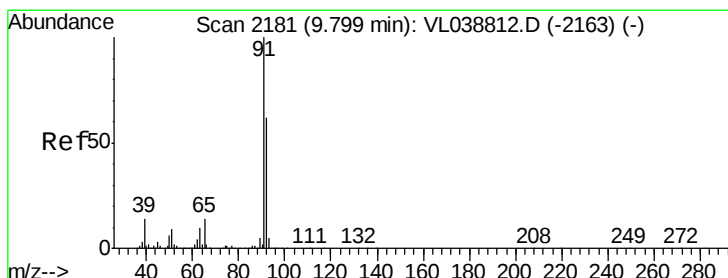
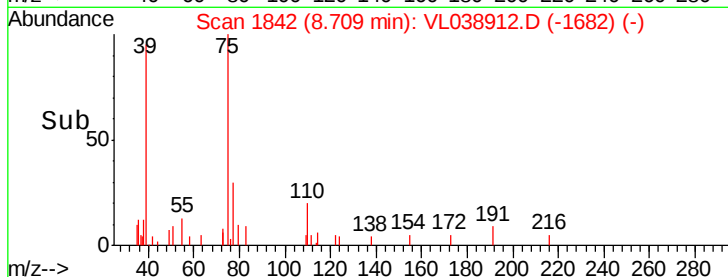
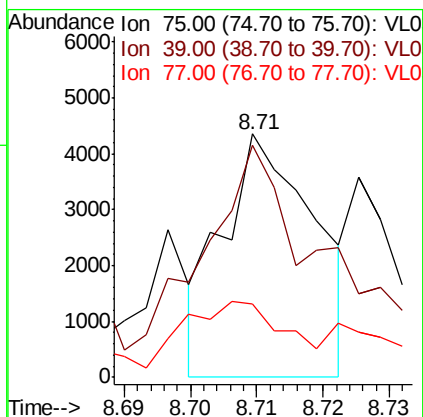
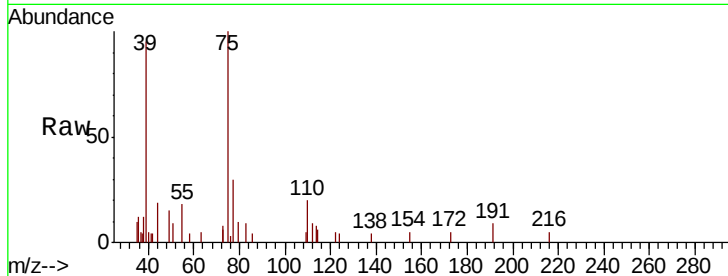
56 0.0 25.3 37.9#





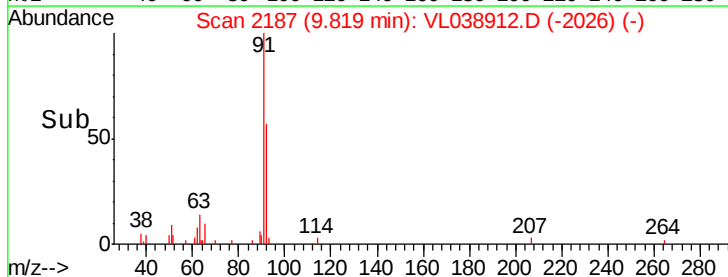
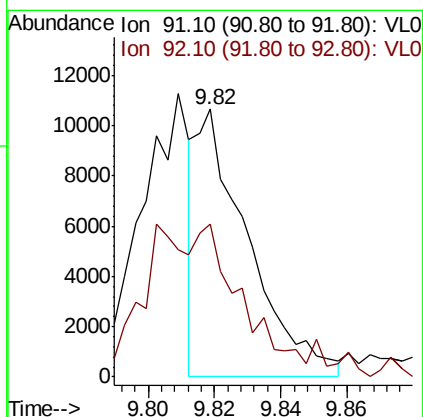
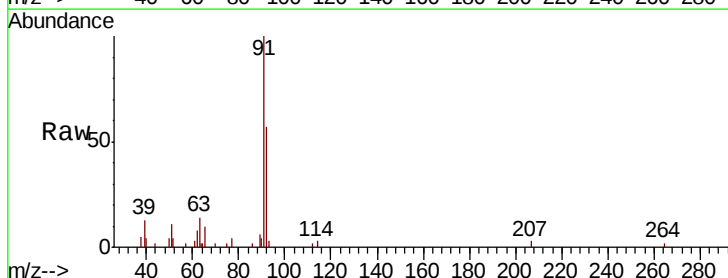
#46
 cis-1,3-Dichloropropene
 Concen: 0.034 ppbv
 RT: 8.71 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

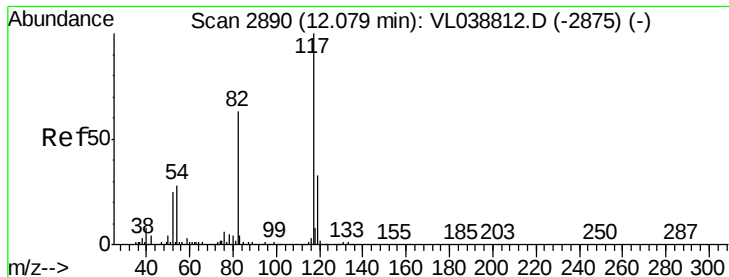
Tot Ion	Ratio	Lower	Upper
75	100		
39	90.2	49.7	74.5#
77	12.7	25.6	38.4#



#53
 Toluene
 Concen: 0.043 ppbv
 RT: 9.82 min Scan# 2187
 Delta R.T. 0.02 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	49.2	73.8#

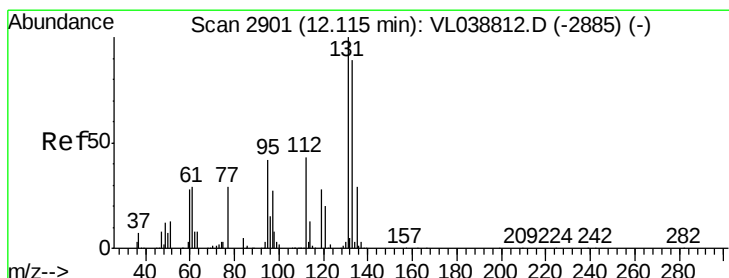
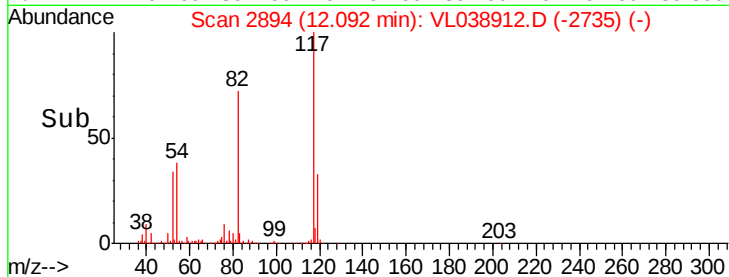
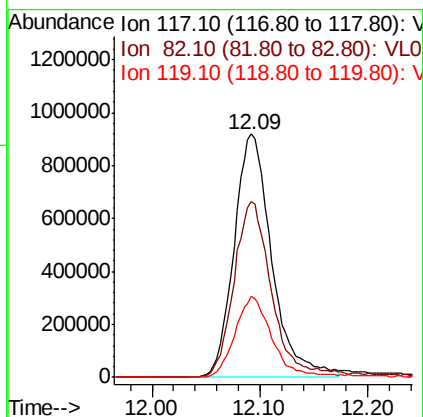
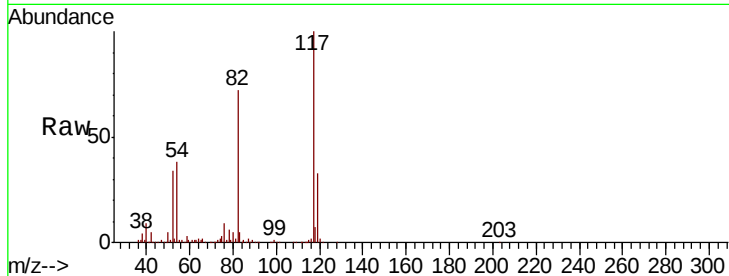




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

Tot Ion:117 Resp: 2234708

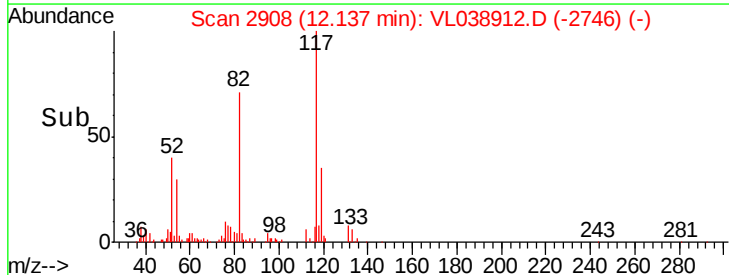
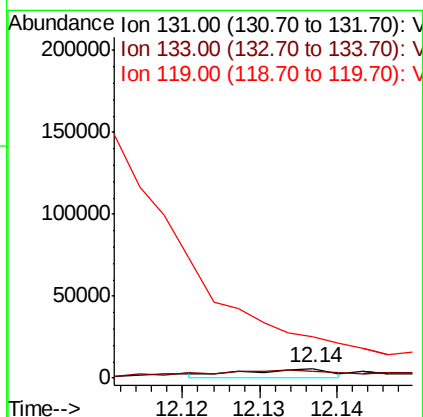
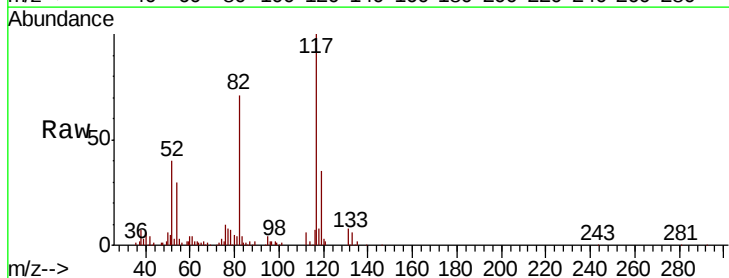
Ion	Ratio	Lower	Upper
117	100		
82	75.8	53.0	79.6
119	33.9	24.9	37.3

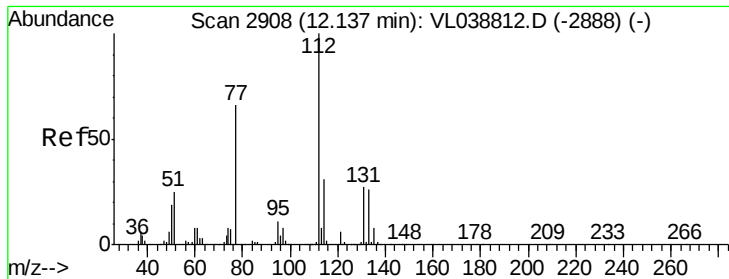


#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.046 ppbv
 RT: 12.14 min Scan# 2908
 Delta R.T.: 0.02 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

Tgt Ion:131 Resp: 4525

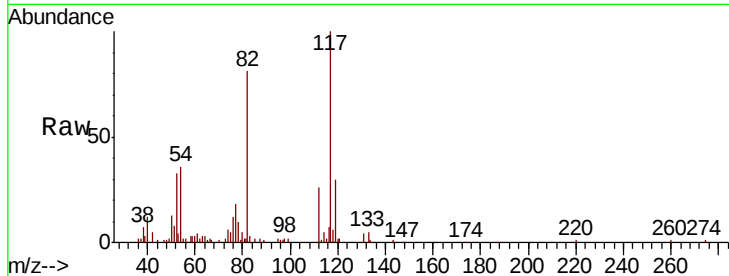
Ion	Ratio	Lower	Upper
131	100		
133	227.3	78.2	117.4#
119	0.0	58.6	87.8#



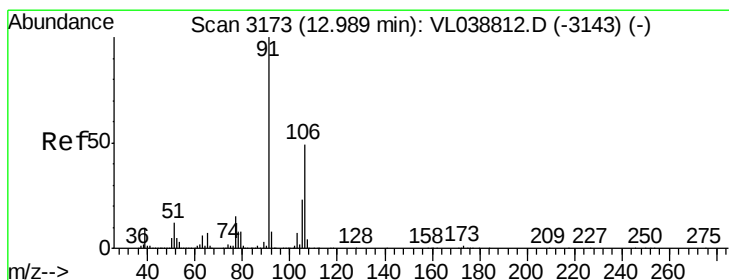
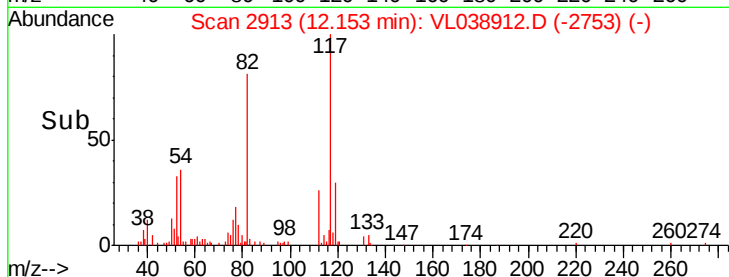
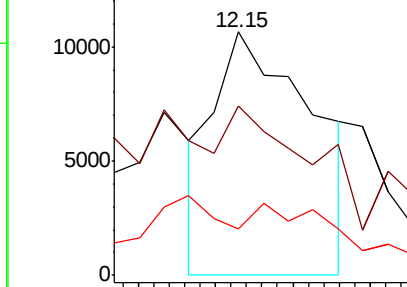


#57
Chlorobenzene
Concen: 0.052 ppbv
RT: 12.15 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
MDL 0.1 NAPHT.
Acq: 13 Apr 2022 20:48

Tot Ion: 112 Resp: 9468
Ion Ratio Lower Upper
112 100
77 34.7 52.4 78.6#
114 0.0 28.1 34.3#

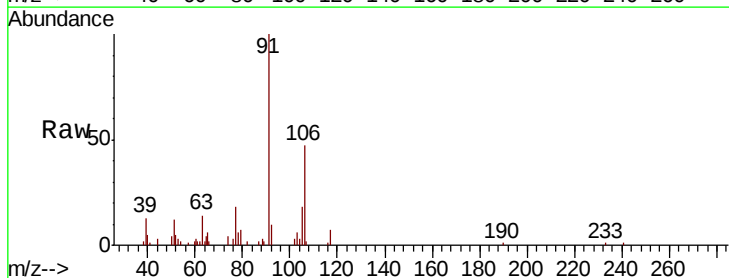


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

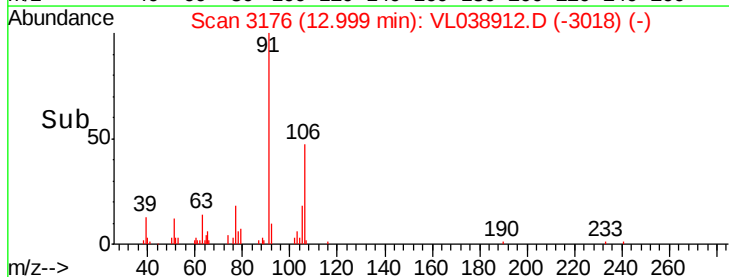
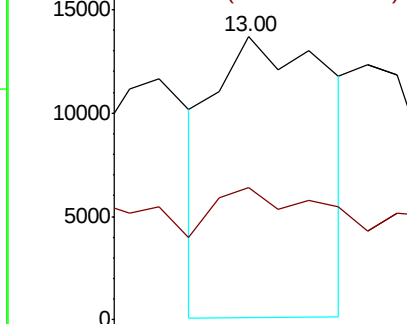


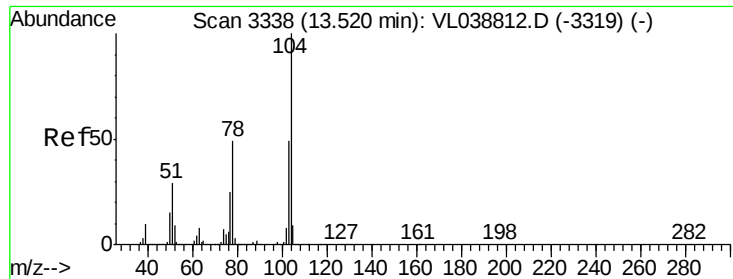
#59
m/p-Xylene
Concen: 0.042 ppbv
RT: 13.00 min Scan# 3176
Delta R.T. 0.01 min
Lab File: VL038912.D
Acq: 13 Apr 2022 20:48

Tgt Ion: 91 Resp: 11765
Ion Ratio Lower Upper
91 100
106 141.7 37.1 55.7#



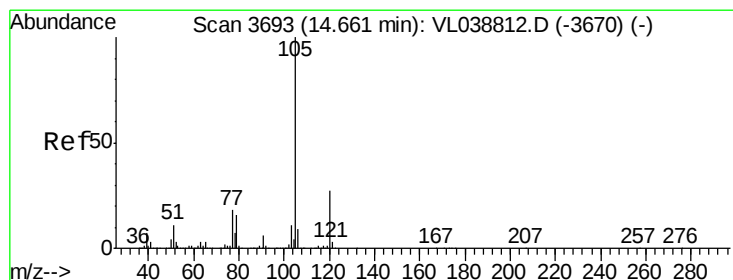
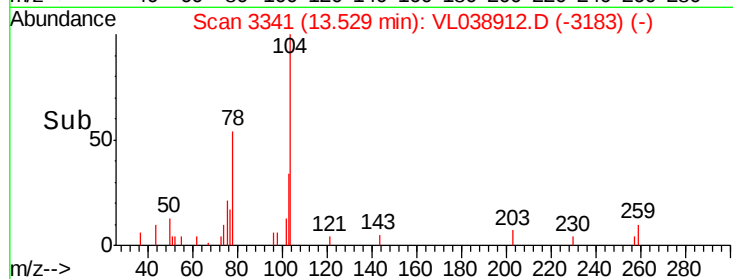
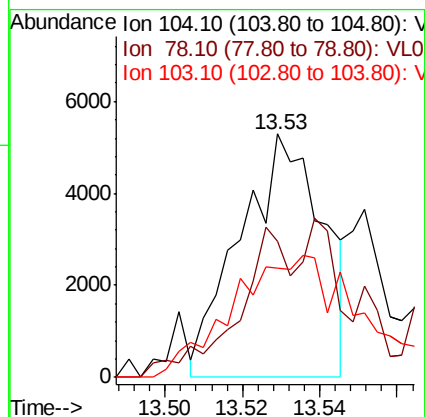
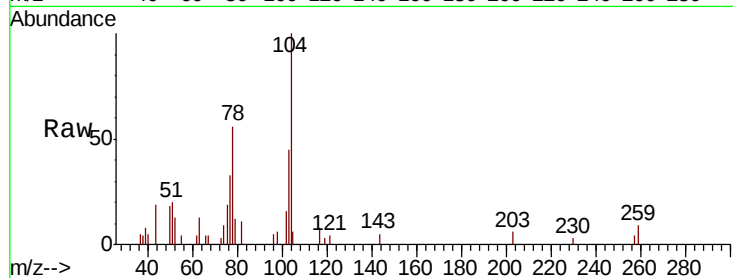
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





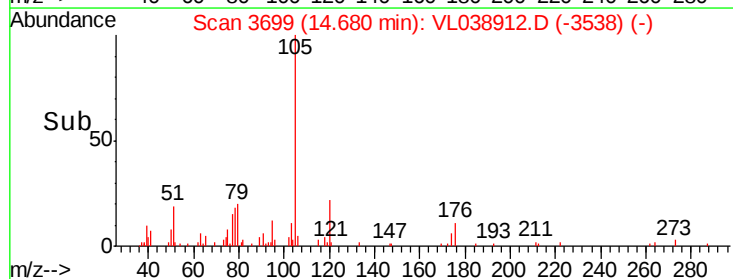
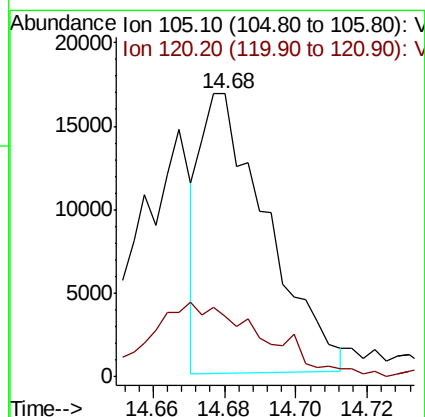
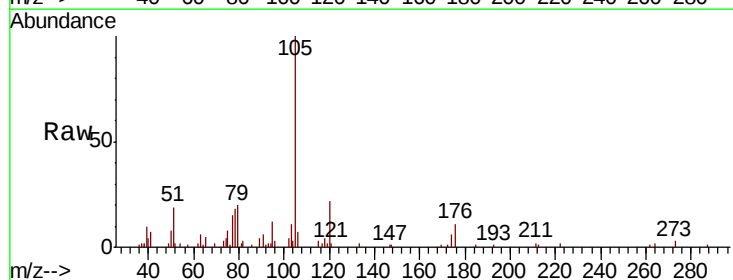
#61
Stvrene
Concen: 0.049 ppbv
RT: 13.53 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 13 Apr 2022 20:48

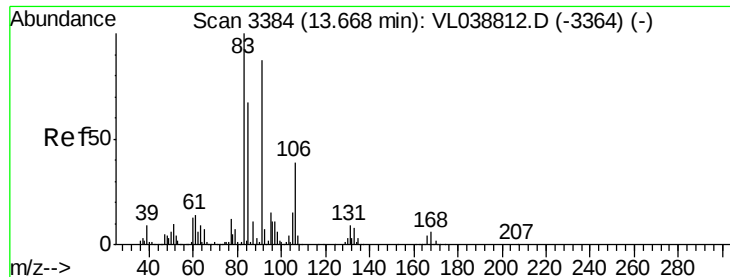
Tot Ion:104 Resp: 7859
Ion Ratio Lower Upper
104 100
78 91.8 40.5 60.7#
103 78.2 39.0 58.4#



#62
Isopropylbenzene
Concen: 0.055 ppbv
RT: 14.68 min Scan# 3699
Delta R.T.: 0.02 min
Lab File: VL038912.D
Acq: 13 Apr 2022 20:48

Tgt Ion:105 Resp: 21627
Ion Ratio Lower Upper
105 100
120 0.0 21.8 32.8#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.074 ppbv

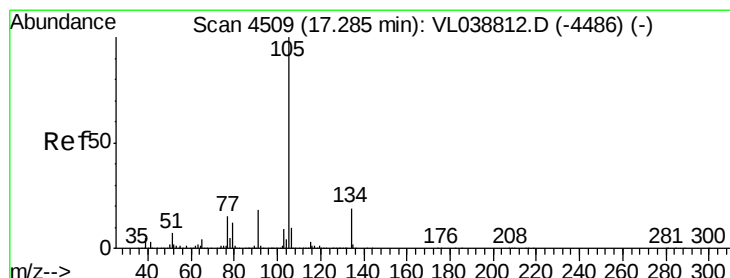
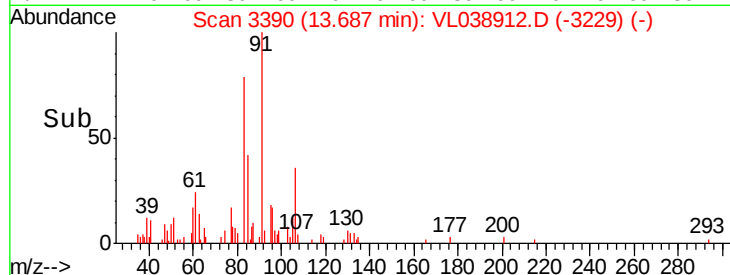
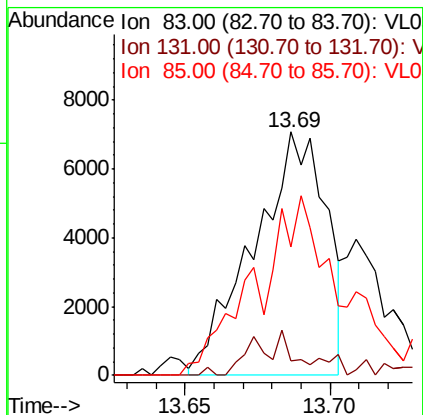
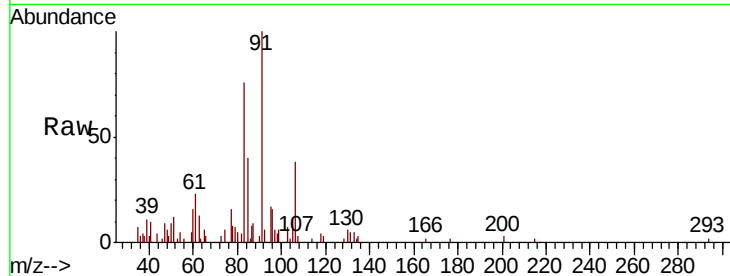
RT: 13.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

Tot Ion:	83	Resp:	12291
Ion	Ratio	Lower	Upper
83	100		
131	14.1	4.6	13.8#
85	95.2	33.0	99.0



#67

sec-Butylbenzene

Concen: 0.086 ppbv

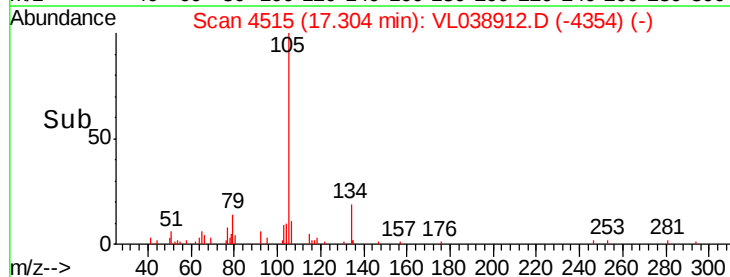
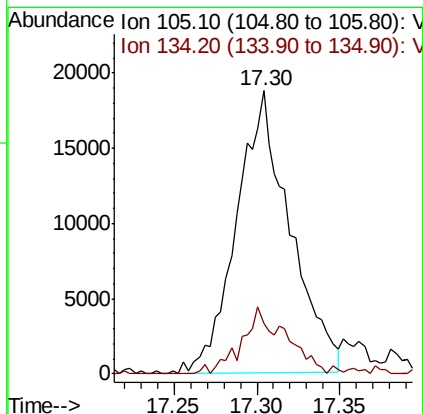
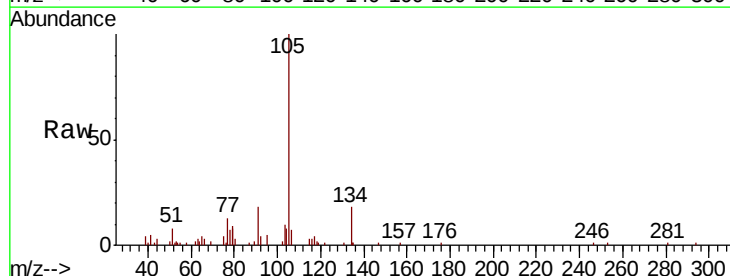
RT: 17.30 min Scan# 4515

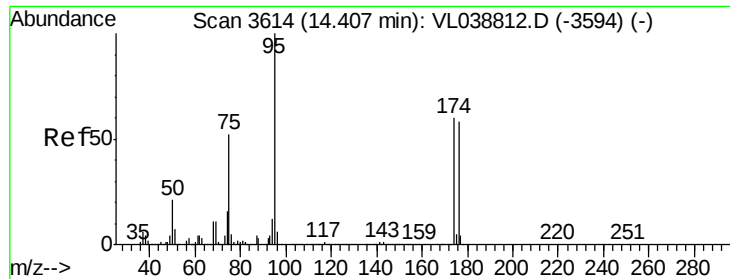
Delta R.T. 0.02 min

Lab File: VL038912.D

Acq: 13 Apr 2022 20:48

Tgt Ion:	105	Resp:	41956
Ion	Ratio	Lower	Upper
105	100		
134	19.9	15.1	22.7





#68

1-Bromo-4-Fluorobenzene

Concen: 11.112 ppbv

RT: 14.42 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

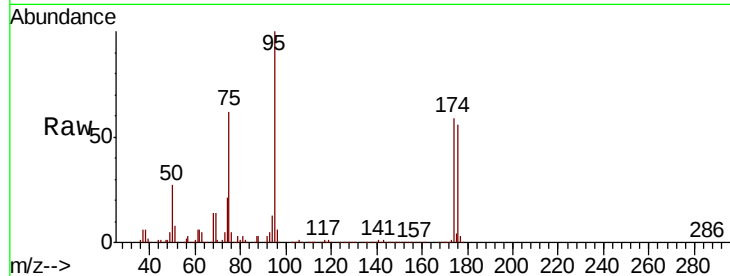
Tot Ion: 95 Resp: 1883641

Ion Ratio Lower Upper

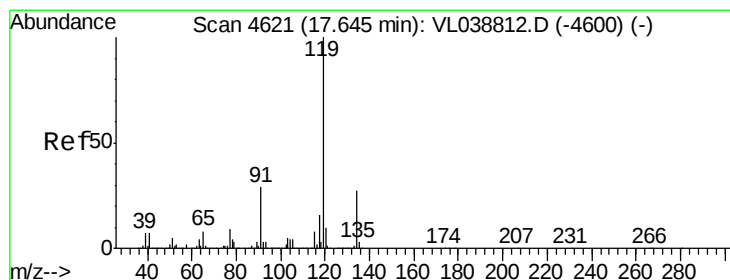
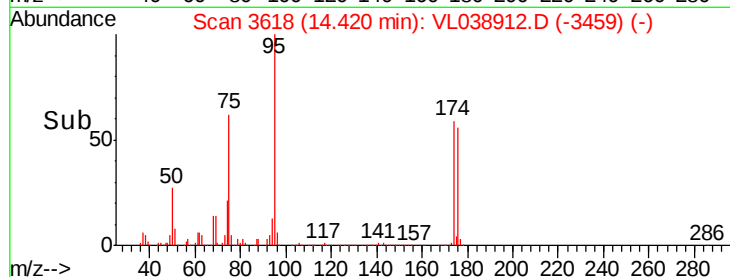
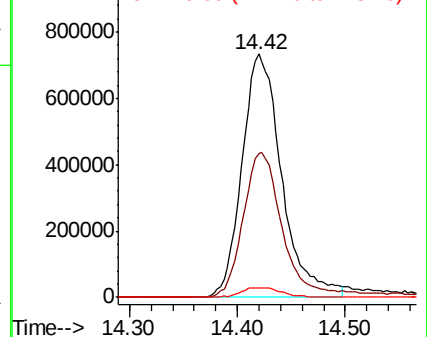
95 100

174 62.0 52.0 78.0

175 4.3 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: 0.050 ppbv

RT: 17.66 min Scan# 4625

Delta R.T. 0.01 min

Lab File: VL038912.D

Acq: 13 Apr 2022 20:48

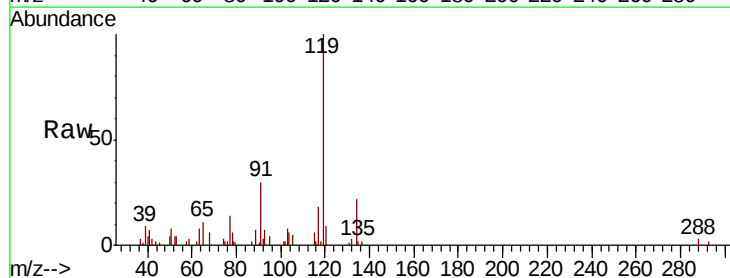
Tgt Ion: 119 Resp: 19976

Ion Ratio Lower Upper

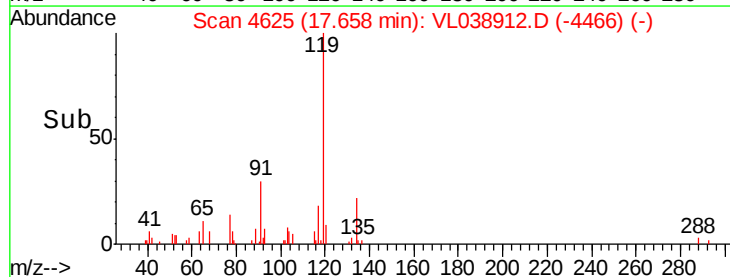
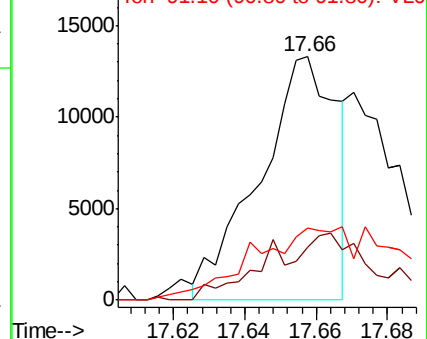
119 100

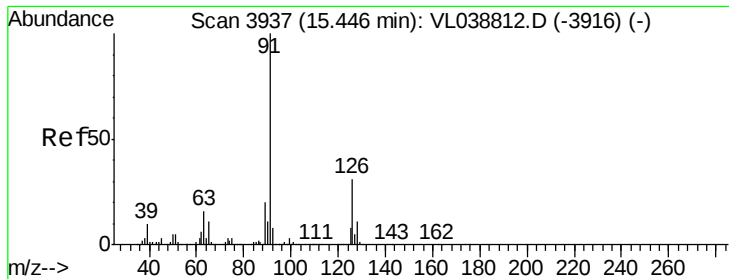
134 0.0 20.8 31.2#

91 0.0 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): VL0





#71

2-Chlorotoluene

Concen: 0.033 ppbv

RT: 15.46

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

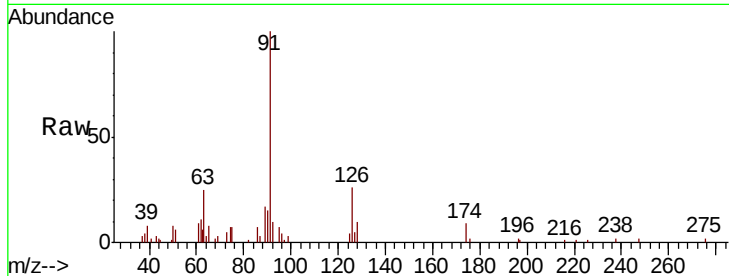
Acq: 13 Apr 2022 20:48 MDL 0.1 NAPHT.

Tot Ion: 91 Resp: 9901

Ion Ratio Lower Upper

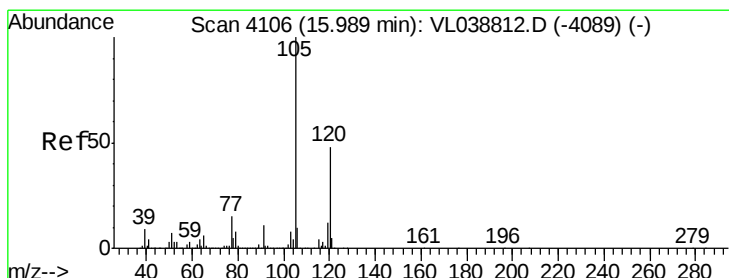
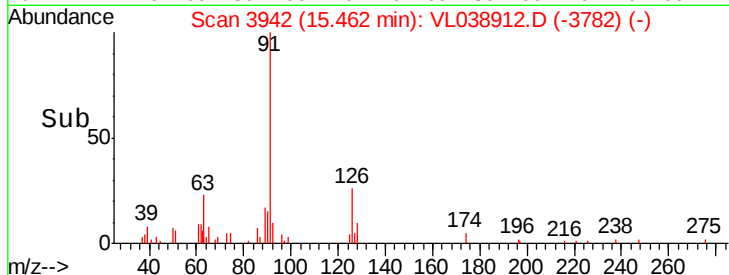
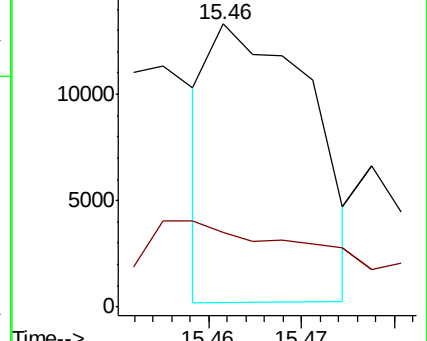
91 100

126 93.6 13.0 51.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#73

1,3,5-Trimethylbenzene

Concen: 0.036 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. 0.01 min

Lab File: VL038912.D

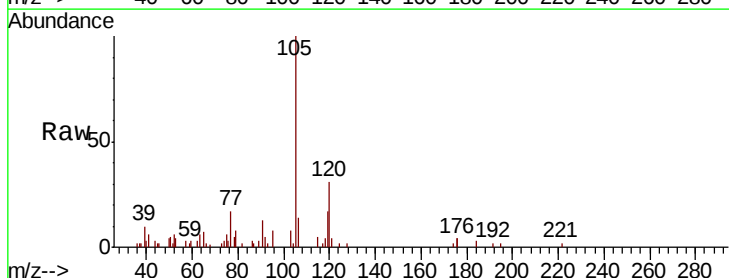
Acq: 13 Apr 2022 20:48

Tgt Ion:105 Resp: 10145

Ion Ratio Lower Upper

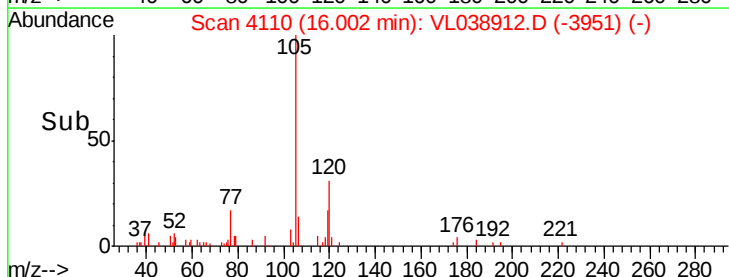
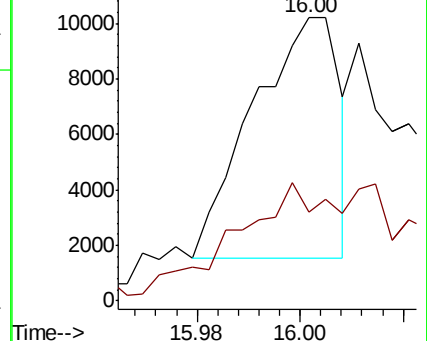
105 100

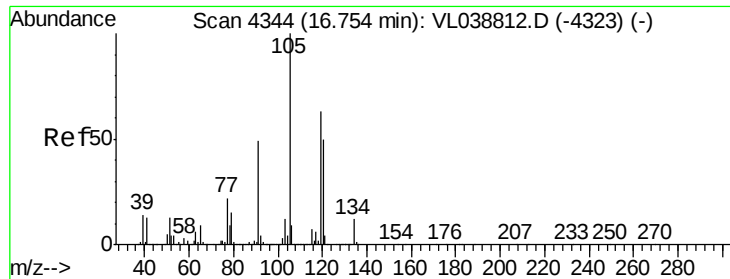
120 23.2 38.7 58.1#



Abundance Ion 105.10 (104.80 to 105.80): V

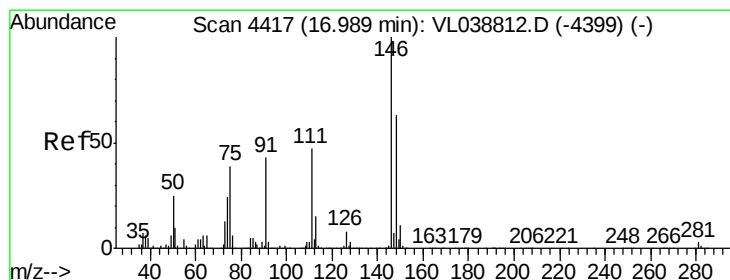
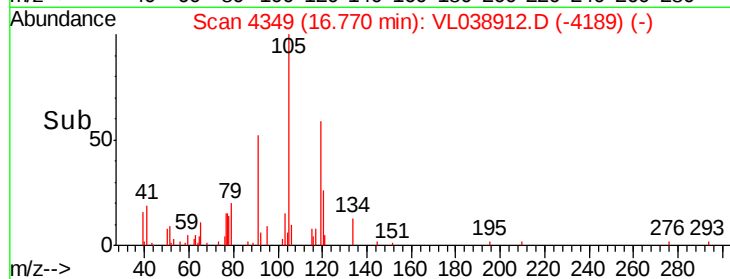
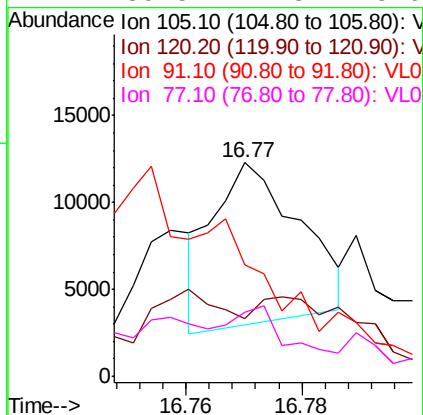
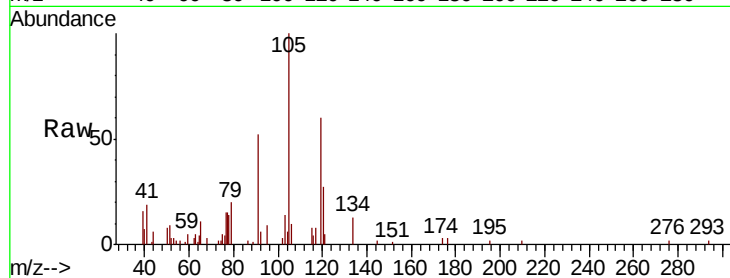
Ion 120.20 (119.90 to 120.90): V





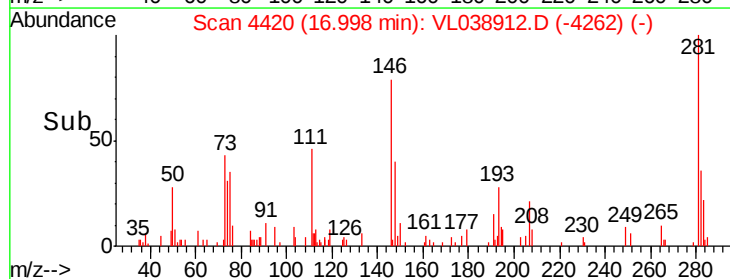
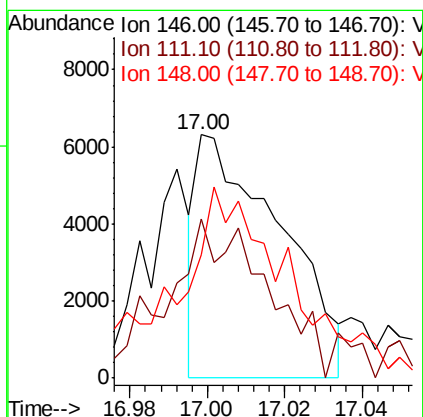
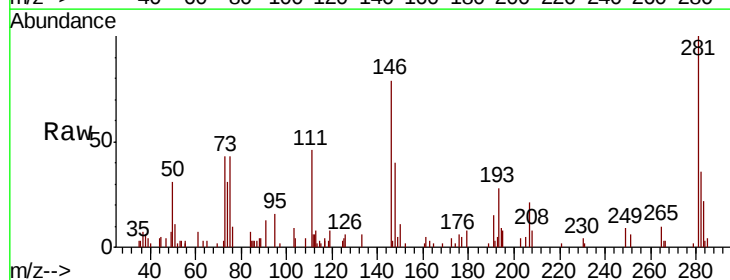
#74
 1,2,4-Trimethylbenzene
 Concen: 0.032 ppbv
 RT: 16.77 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

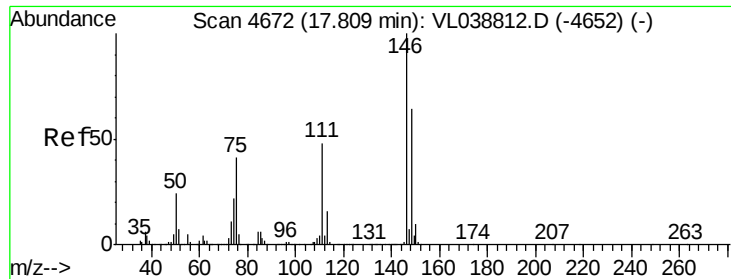
Tot Ion:	105	Resp:	9636
Ion	Ratio	Lower	Upper
105	100		
120	0.0	39.8	59.8#
91	38.2	39.4	59.0#
77	39.5	17.3	25.9#



#75
 1,3-Dichlorobenzene
 Concen: 0.055 ppbv
 RT: 17.00 min Scan# 4420
 Delta R.T. 0.01 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

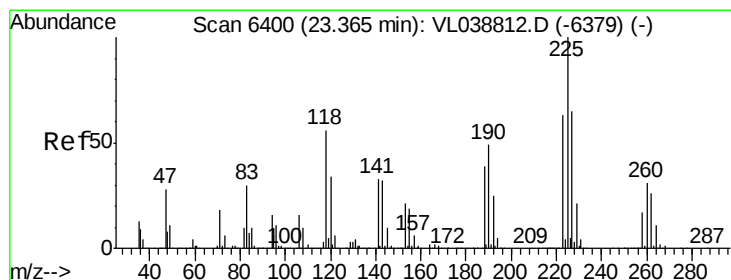
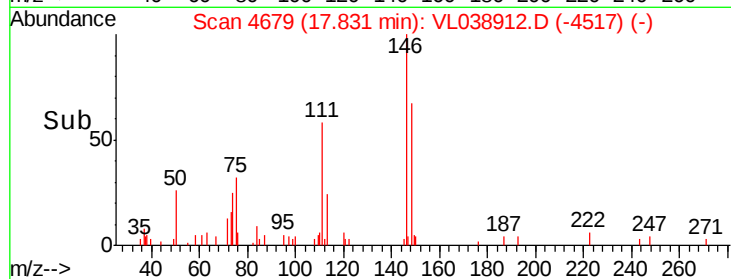
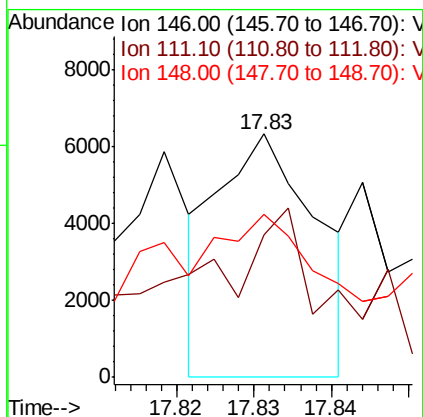
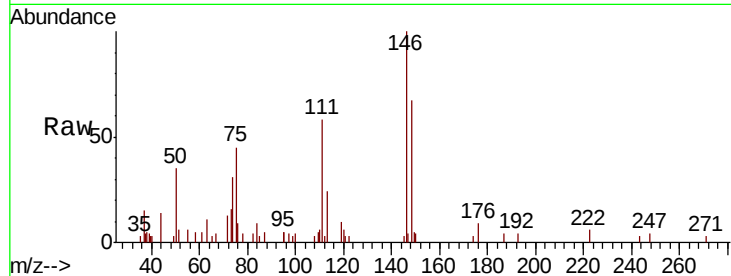
Tgt Ion:	146	Resp:	9508
Ion	Ratio	Lower	Upper
146	100		
111	97.9	23.8	71.2#
148	112.5	31.8	95.4#





#77
 1,2-Dichlorobenzene
 Concen: 0.033 ppbv
 RT: 17.83 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:48

Tot Ion:146 Resp: 5662
 Ion Ratio Lower Upper
 146 100
 111 156.1 24.8 74.3#
 148 168.8 31.9 95.7#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.049 ppbv
 RT: 23.38 min Scan# 6405
 Delta R.T. 0.02 min
 Lab File: VL038912.D
 Acq: 13 Apr 2022 20:48

Tgt Ion:225 Resp: 6613
 Ion Ratio Lower Upper
 225 100
 223 149.0 51.6 77.4#
 227 138.3 52.3 78.5#

