

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041222\
 Data File : VL038897.D
 Acq On : 12 Apr 2022 18:26
 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 13 01:17:35 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	5.66	49	1117098	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2739988	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2368967	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1840071	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	26482	0.167 ppbv	99
3) Chlorodifluoromethane	2.99	51	17143	0.126 ppbv	98
4) Chloromethane	3.14	50	4163	0.059 ppbv #	83
5) Vinyl Chloride	3.26	62	5957	0.091 ppbv	99
6) Bromomethane	3.47	94	2149	0.068 ppbv #	74
7) Chloroethane	3.56	64	865	0.040 ppbv #	61
8) Dichlorotetrafluoroethane	3.19	85	19021	0.129 ppbv	94
9) Propene	3.02	41	12178	0.169 ppbv	95
10) Heptane	8.12	43	10865	0.060 ppbv #	45
11) Trichlorofluoromethane	3.95	101	15851	0.124 ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.48	101	11479	0.118 ppbv	97
13) Ethanol	3.61	45	214	0.049 ppbv #	100
14) Bromoethene	3.74	108	2845	0.066 ppbv #	28
16) 1,3-Butadiene	3.32	39	2541	0.040 ppbv #	1
18) 1,1-Dichloroethene	4.28	96	3183	0.072 ppbv	79
20) Methylene Chloride	4.34	84	5413	0.134 ppbv #	86
21) Allyl Chloride	4.41	41	2541	0.031 ppbv #	1
22) trans-1,2-Dichloroethene	4.88	96	3555	0.079 ppbv	88
23) Vinyl Acetate	5.08	43	4536	0.042 ppbv #	80
24) 1,1-Dichloroethane	5.01	63	7856	0.080 ppbv #	96
25) Ethyl Acetate	5.69	43	14294	0.051 ppbv #	70
26) Hexane	5.69	57	6124	0.048 ppbv #	1
27) Carbon Disulfide	4.55	76	5629	0.048 ppbv #	62
29) Chloroform	5.75	83	18612	0.104 ppbv #	77
30) Cyclohexane	7.13	84	6985	0.062 ppbv #	2
31) cis-1,2-Dichloroethene	5.54	61	6936	0.059 ppbv #	81
32) 1,1,1-Trichloroethane	6.50	97	19011	0.105 ppbv	94
36) Benzene	6.88	78	8464	0.034 ppbv #	67
37) 1,2-Dichloroethane	6.29	62	5917	0.052 ppbv #	79
38) Trichloroethene	7.83	130	5139	0.050 ppbv	92
39) 1,2-Dichloropropane	7.17	63	717129	7.522 ppbv #	28
42) Bromodichloromethane	7.78	83	18983	0.105 ppbv #	79
44) 2,2,4-Trimethylpentane	7.86	57	31599	0.075 ppbv #	65
49) Bromoform	13.03	173	4230	0.035 ppbv #	13
52) Tetrachloroethene	11.21	164	2884	0.033 ppbv #	58
53) Toluene	9.80	91	25350	0.088 ppbv	86
54) 1,2-Dibromoethane	10.60	107	7704	0.057 ppbv	81
56) 1,1,1,2-Tetrachloroethane	12.12	131	5690	0.055 ppbv #	15
57) Chlorobenzene	12.13	112	13420	0.069 ppbv #	43
58) Ethyl Benzene	12.70	91	20309	0.057 ppbv	94
60) o-Xylene	13.67	91	12571	0.045 ppbv #	29

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041222\
 Data File : VL038897.D
 Acq On : 12 Apr 2022 18:26
 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 13 01:17:35 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)

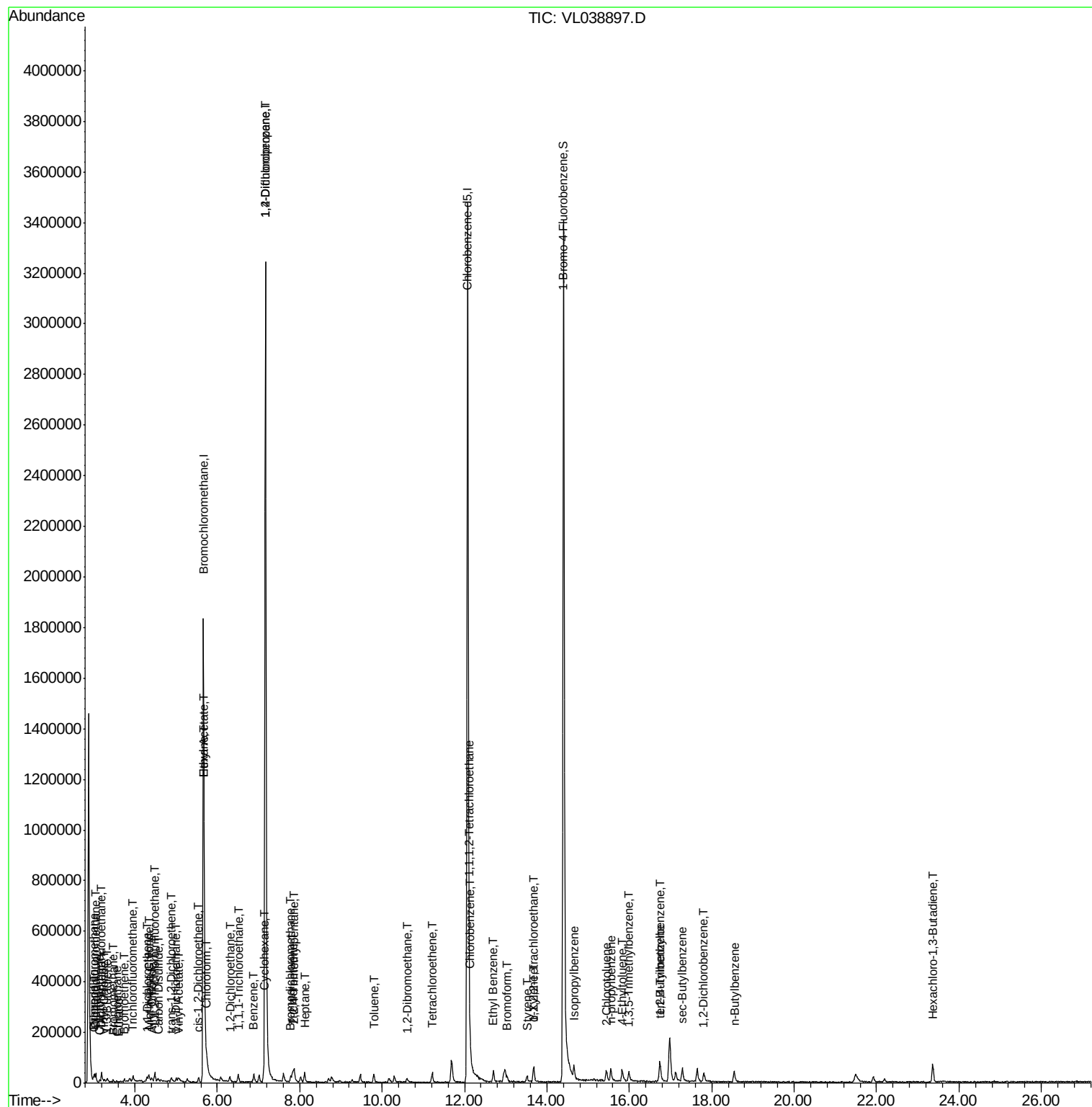
61) Styrene	13.52	104	8001	0.047	ppbv #	34
62) Isopropylbenzene	14.66	105	25597	0.061	ppbv #	64
63) 1,1,2,2-Tetrachloroethane	13.68	83	11480	0.065	ppbv #	44
64) n-propylbenzene	15.55	120	7158	0.066	ppbv #	1
65) tert-Butylbenzene	16.73	119	13193	0.036	ppbv #	1
67) sec-Butylbenzene	17.28	105	22079	0.042	ppbv #	44
70) n-Butylbenzene	18.54	91	17527	0.041	ppbv #	21
71) 2-Chlorotoluene	15.45	91	16191	0.052	ppbv #	42
72) 4-Ethyltoluene	15.82	105	16336	0.049	ppbv #	52
73) 1,3,5-Trimethylbenzene	15.99	105	15450	0.052	ppbv #	79
74) 1,2,4-Trimethylbenzene	16.74	105	11200	0.035	ppbv	89
77) 1,2-Dichlorobenzene	17.80	146	5660	0.031	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.36	225	12700	0.089	ppbv #	64

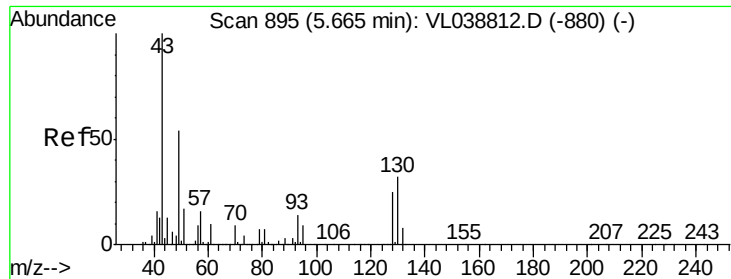
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041222\
Data File : VL038897.D
Acq On : 12 Apr 2022 18:26
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 13 01:17:35 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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: 5.66 Instrument: MSVOA_1

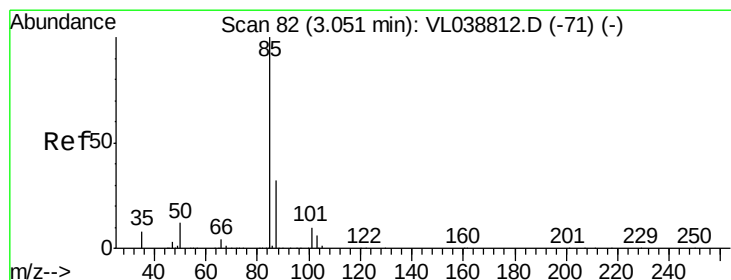
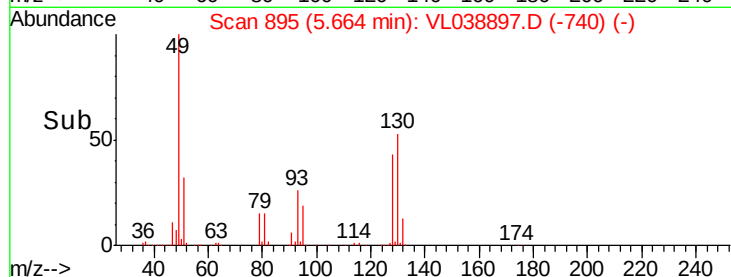
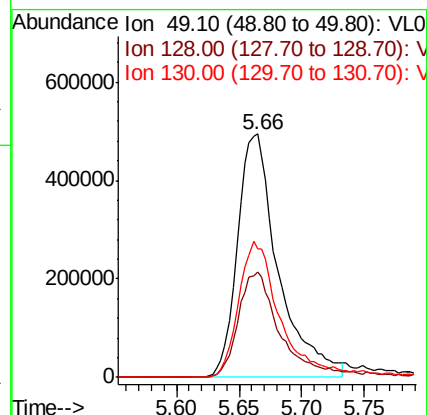
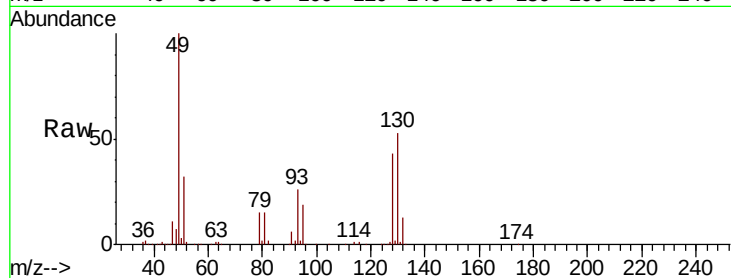
Delta R.T. ClientSampleId:

Lab File: MDL 0.1 NAPHT.

Acq: 12 Apr 2022 18:26

Tot Ion: 49 Resp: 1117098

Ion	Ratio	Lower	Upper
49	100		
128	46.3	24.1	72.3
130	60.3	30.9	92.8



#2

Dichlorodifluoromethane

Concen: 0.167 ppbv

RT: 3.05 min Scan# 82

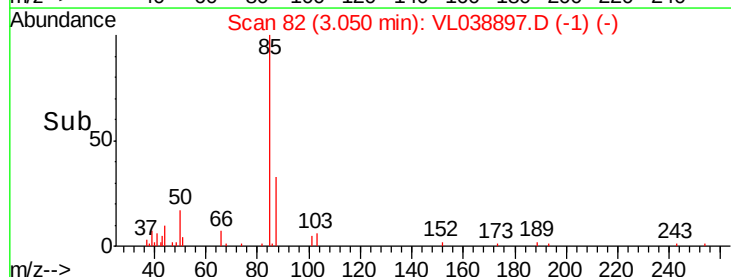
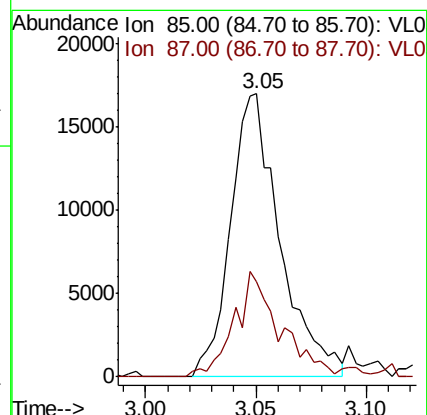
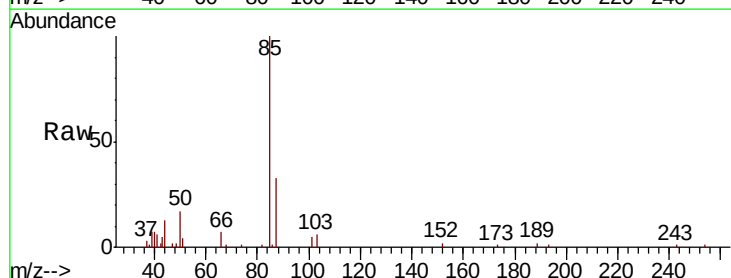
Delta R.T. -0.00 min

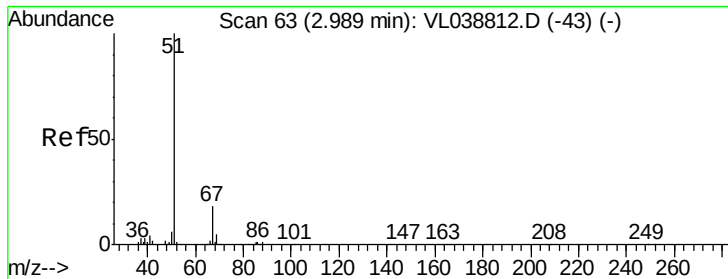
Lab File: VL038897.D

Acq: 12 Apr 2022 18:26

Tgt Ion: 85 Resp: 26482

Ion	Ratio	Lower	Upper
85	100		
87	31.6	25.9	38.9





#3

Chlorodifluoromethane

Concen: 0.126 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

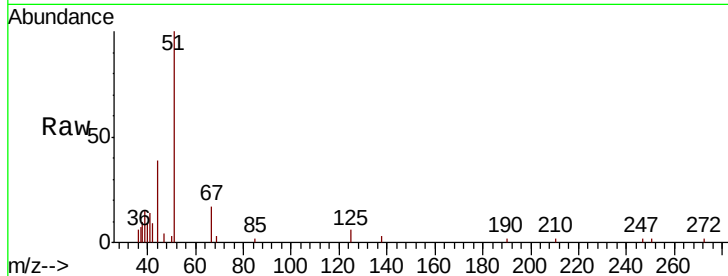
Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

Tot Ion: 51 Resp: 17143

Ion Ratio Lower Upper

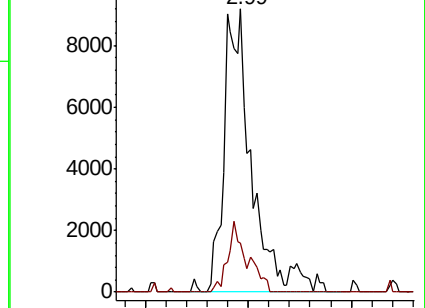
51 100

67 17.5 13.4 20.0

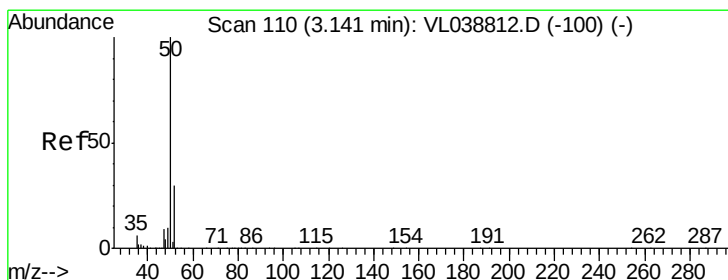
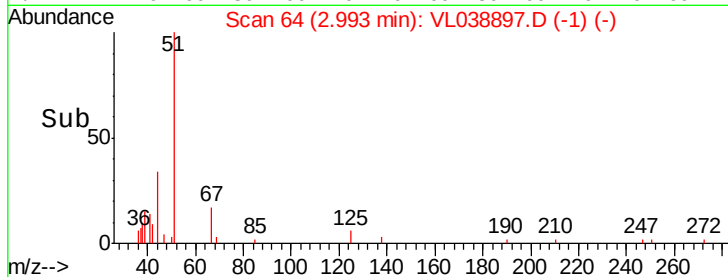


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.059 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL038897.D

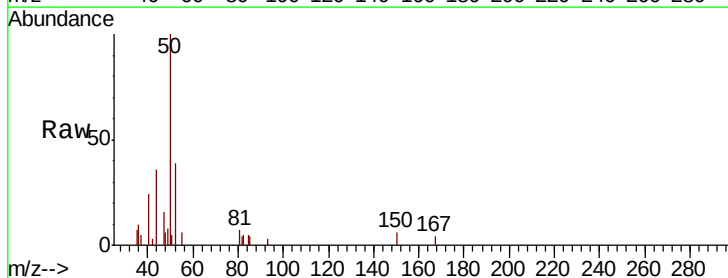
Acq: 12 Apr 2022 18:26

Tgt Ion: 50 Resp: 4163

Ion Ratio Lower Upper

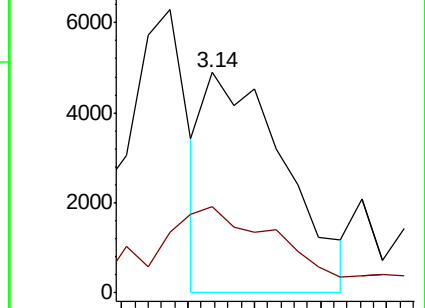
50 100

52 39.4 24.3 36.5#

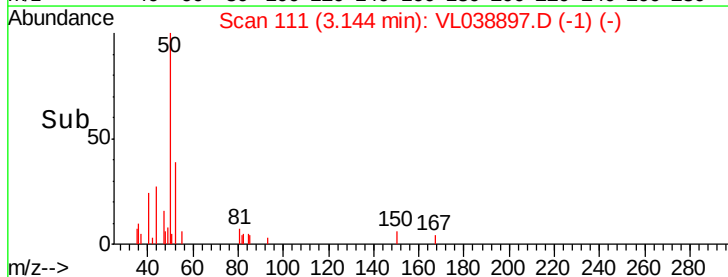


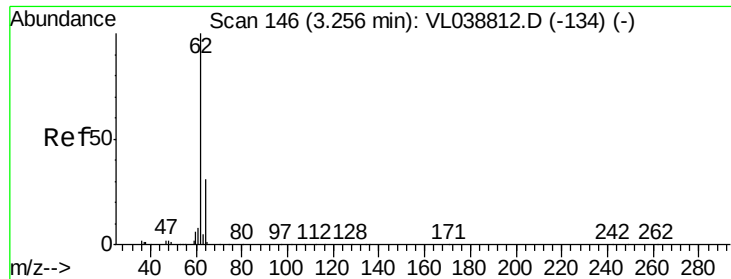
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 0.091 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

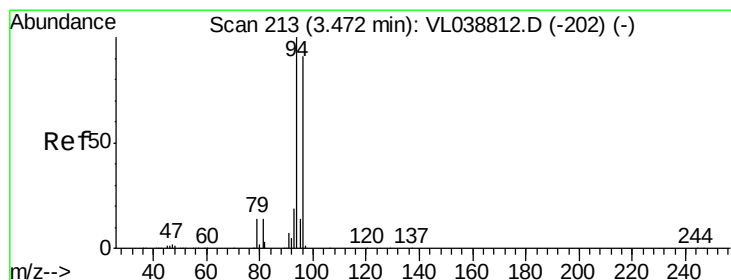
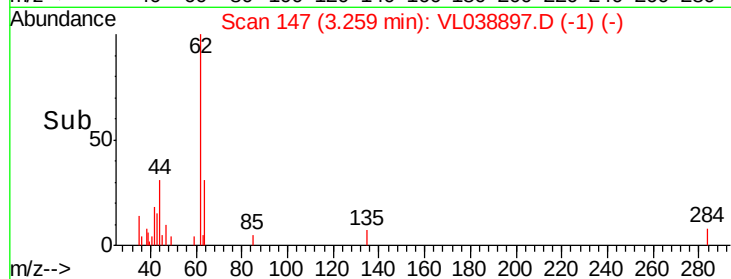
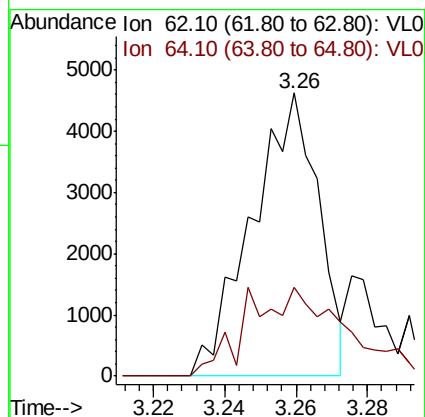
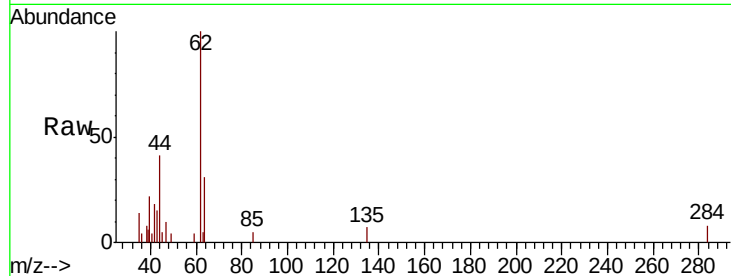
Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

Tot Ion: 62 Resp: 5957

Ion Ratio Lower Upper

62 100

64 31.3 24.6 37.0



#6

Bromomethane

Concen: 0.068 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL038897.D

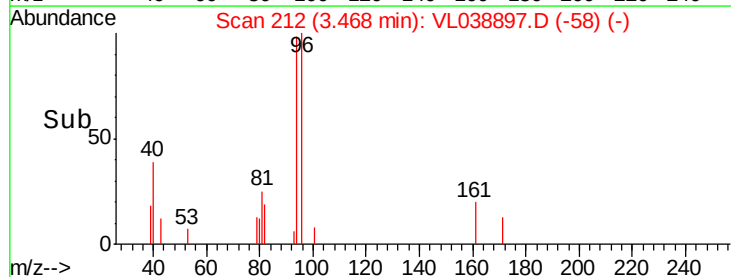
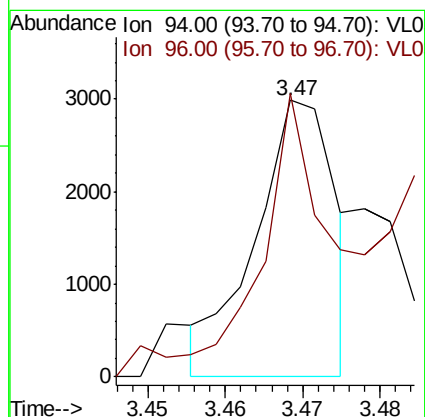
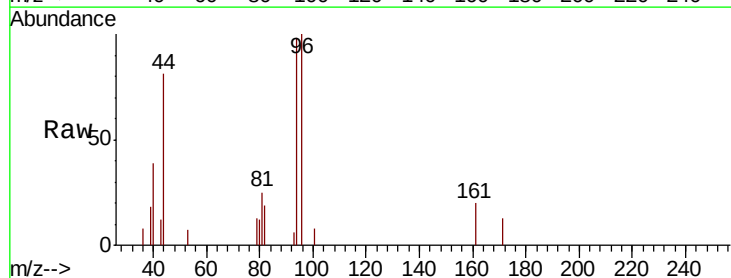
Acq: 12 Apr 2022 18:26

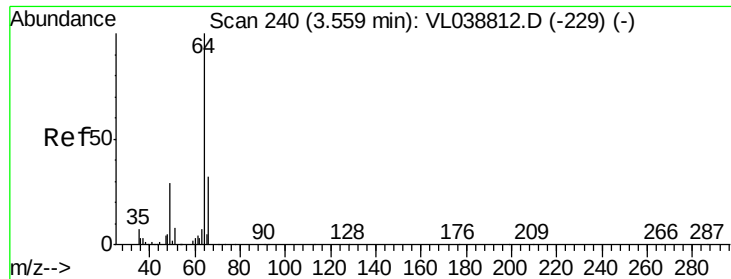
Tgt Ion: 94 Resp: 2149

Ion Ratio Lower Upper

94 100

96 115.9 73.2 109.8#





#7

Chloroethane

Concen: 0.040 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

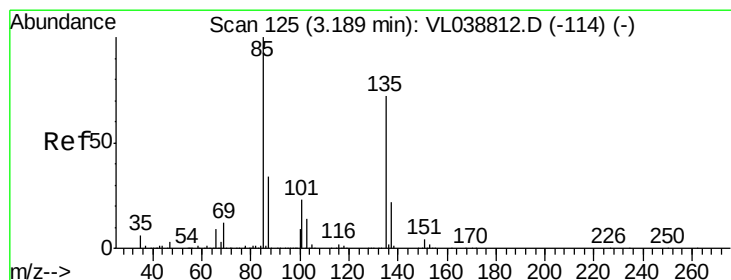
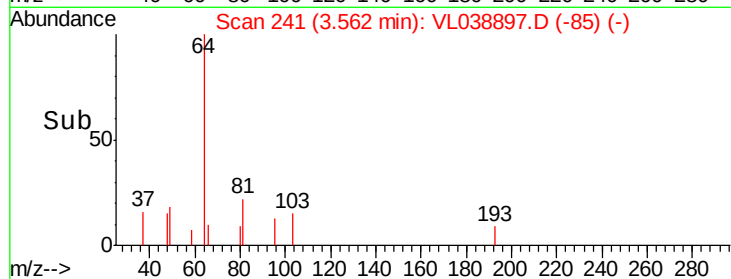
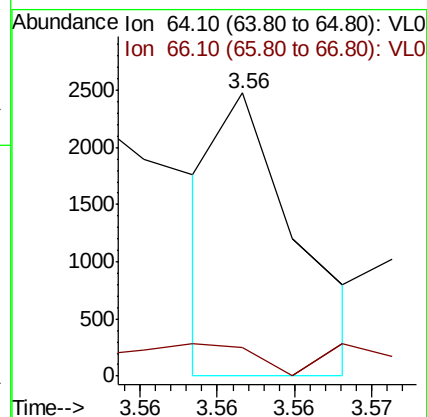
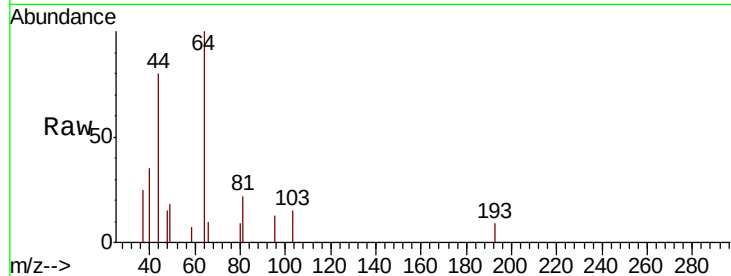
Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

Tot Ion: 64 Resp: 865

Ion Ratio Lower Upper

64 100

66 10.3 25.4 38.2#



#8

Dichlorotetrafluoroethane

Concen: 0.129 ppbv

RT: 3.19 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL038897.D

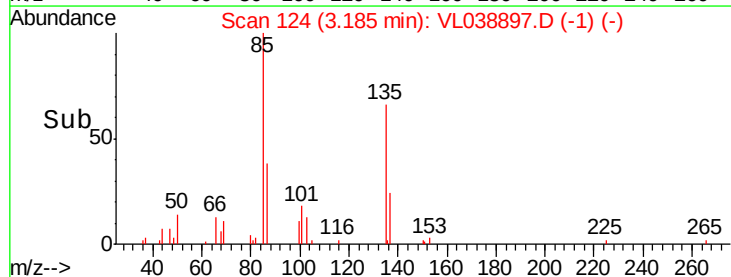
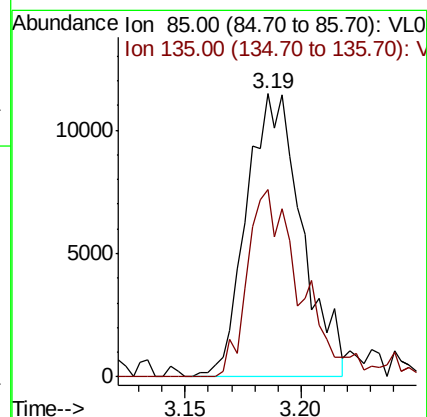
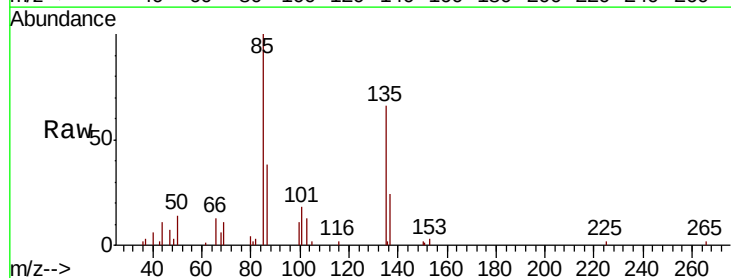
Acq: 12 Apr 2022 18:26

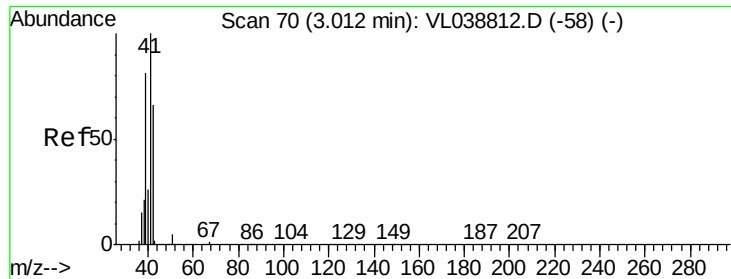
Tgt Ion: 85 Resp: 19021

Ion Ratio Lower Upper

85 100

135 66.4 57.0 85.6





#9

Propene

Concen: 0.169 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

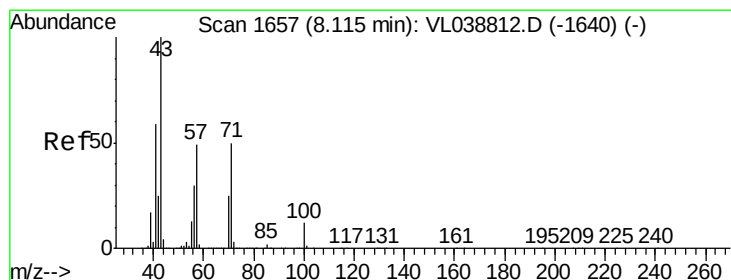
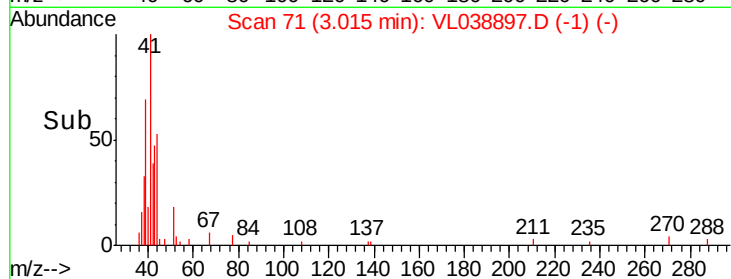
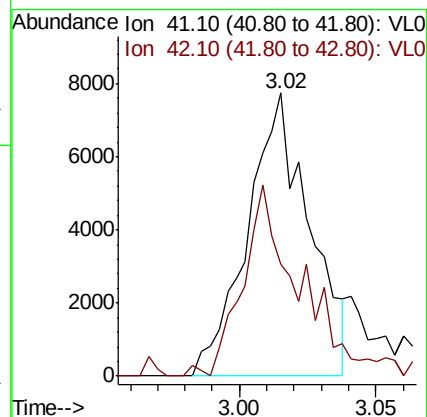
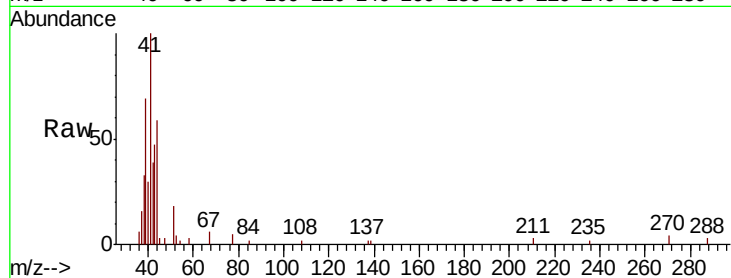
Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

Tot Ion: 41 Resp: 12178

Ion Ratio Lower Upper

41 100

42 64.1 54.2 81.4



#10

Heptane

Concen: 0.060 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL038897.D

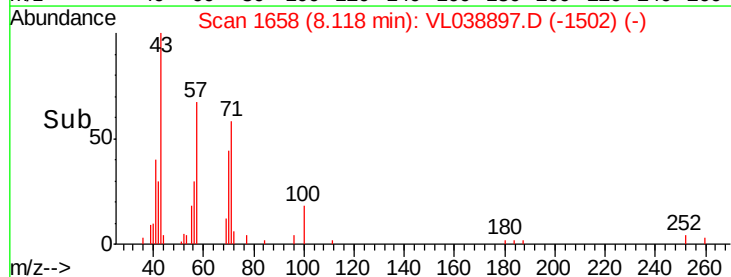
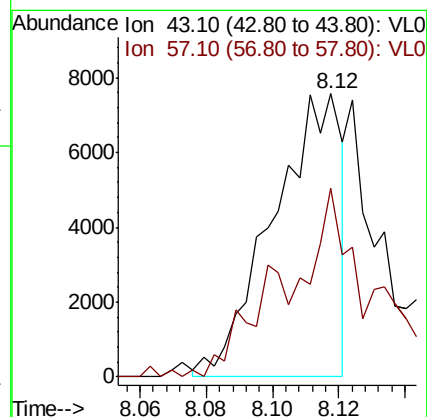
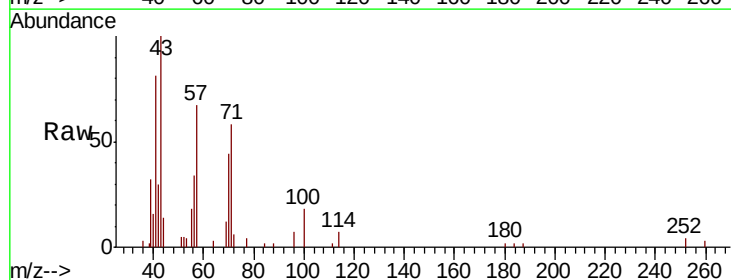
Acq: 12 Apr 2022 18:26

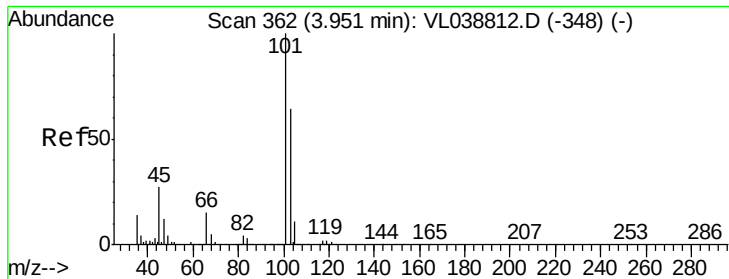
Tgt Ion: 43 Resp: 10865

Ion Ratio Lower Upper

43 100

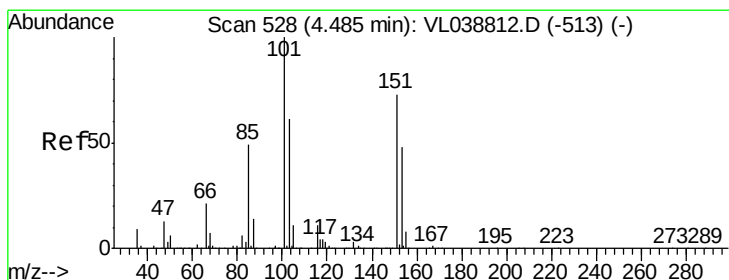
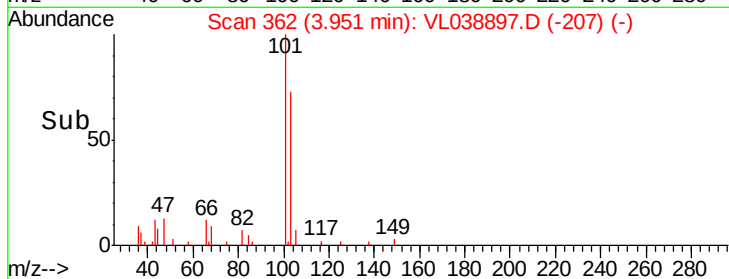
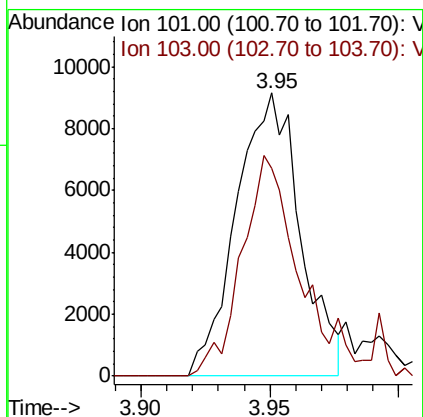
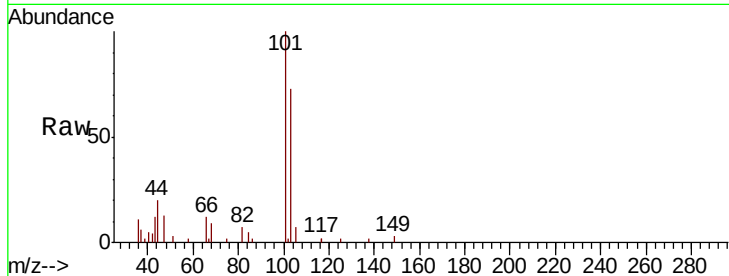
57 86.5 39.3 58.9#





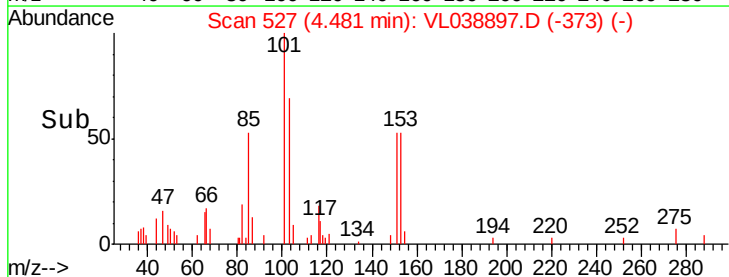
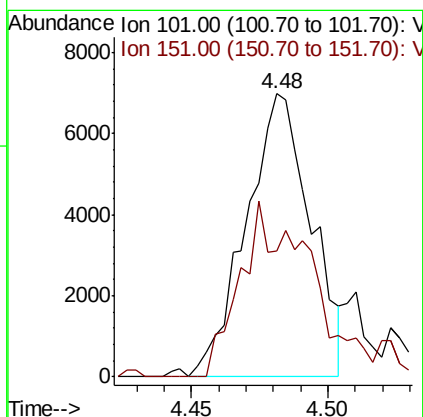
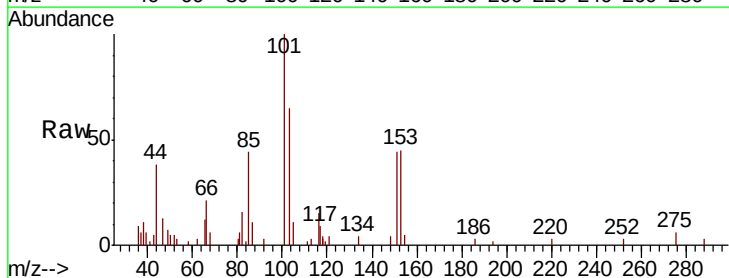
#11
 Trichlorofluoromethane
 Concen: 0.124 ppbv
 RT: 3.95
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 12 Apr 2022 18:26

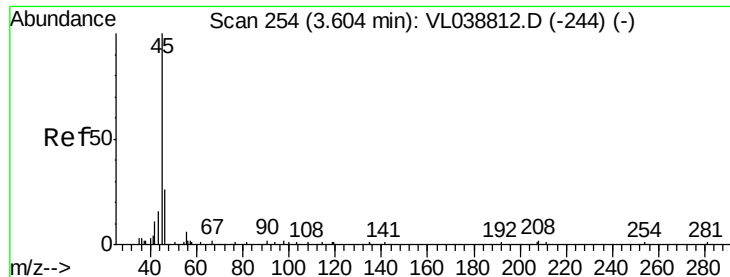
Tot Ion:101 Resp: 15851
 Ion Ratio Lower Upper
 101 100
 103 73.5 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.118 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL038897.D
 Acq: 12 Apr 2022 18:26

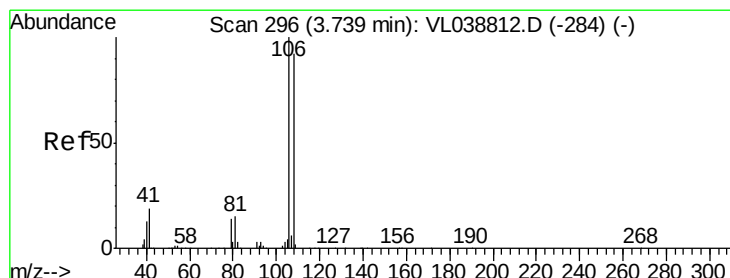
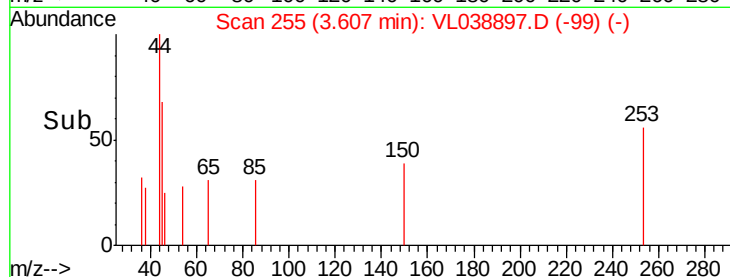
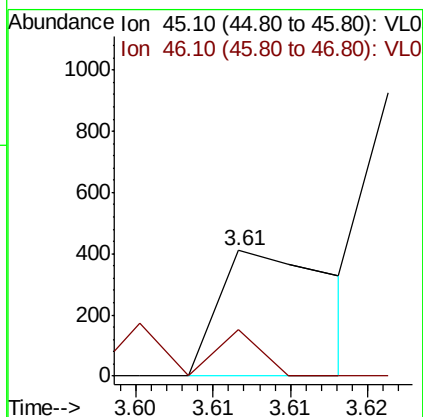
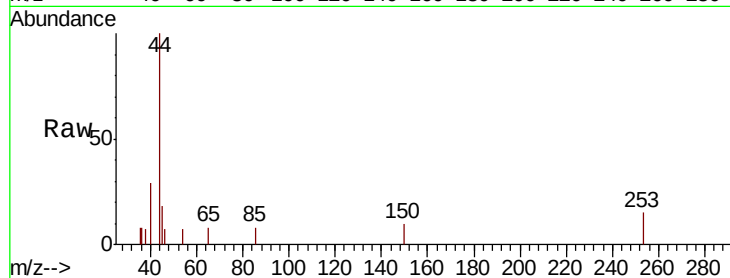
Tgt Ion:101 Resp: 11479
 Ion Ratio Lower Upper
 101 100
 151 72.8 59.9 89.9





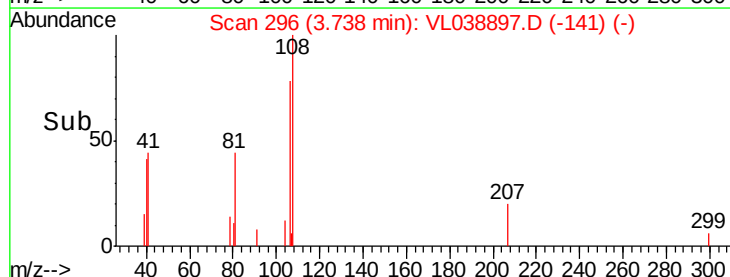
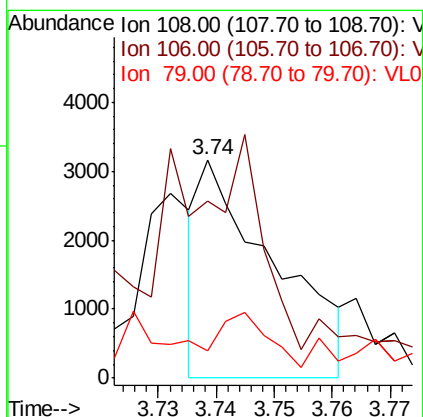
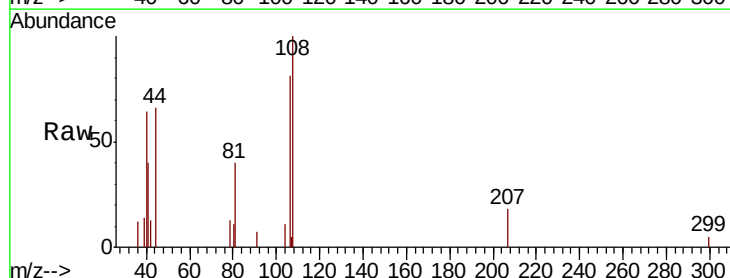
#13
Ethanol
Concen: 0.049 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Apr 2022 18:26

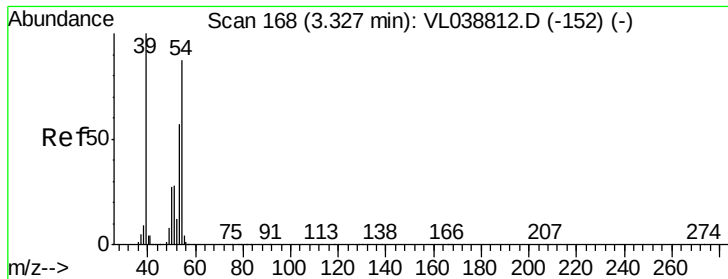
Tot Ion: 45 Resp: 214
Ion Ratio Lower Upper
45 100
46 0.0 0.0 0.0



#14
Bromoethene
Concen: 0.066 ppbv
RT: 3.74 min Scan# 296
Delta R.T. -0.00 min
Lab File: VL038897.D
Acq: 12 Apr 2022 18:26

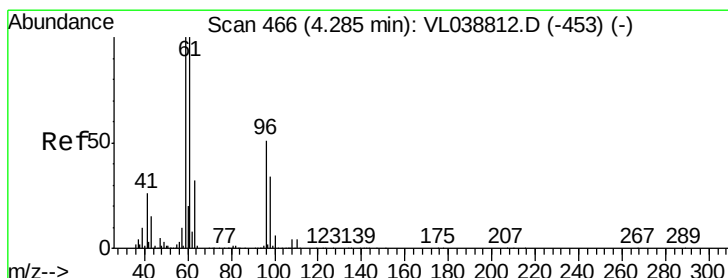
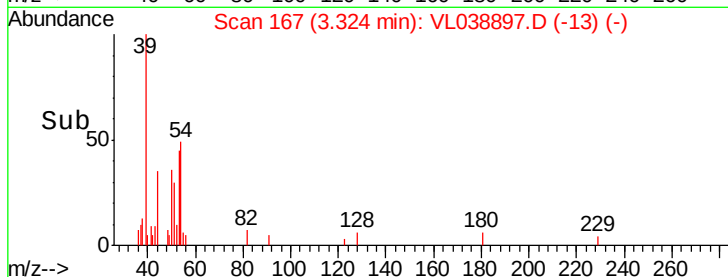
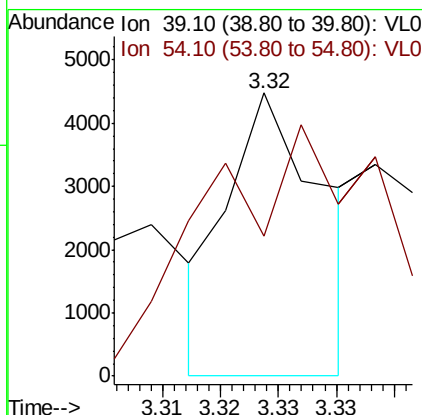
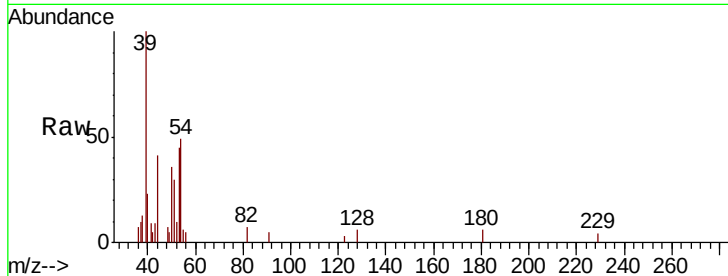
Tgt Ion: 108 Resp: 2845
Ion Ratio Lower Upper
108 100
106 197.0 91.5 137.3#
79 0.0 13.7 20.5#





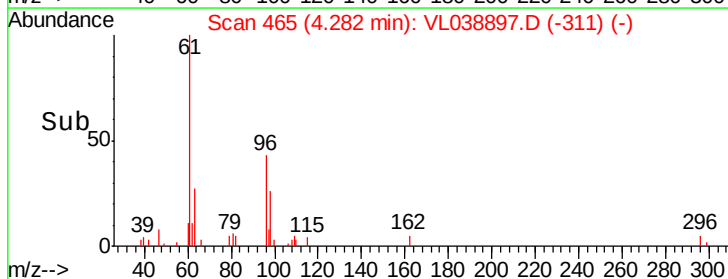
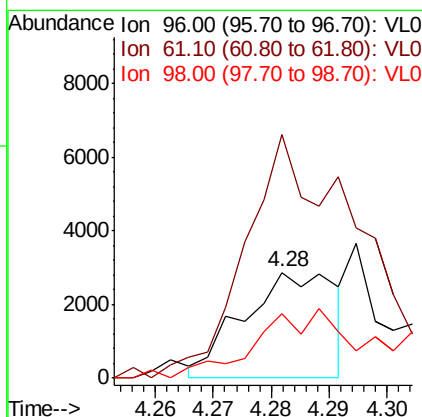
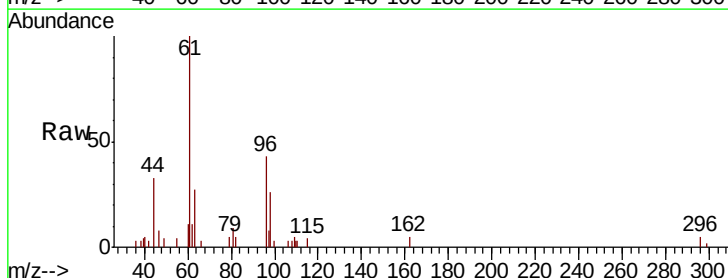
#16
 1,3-Butadiene
 Concen: 0.040 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Apr 2022 18:26

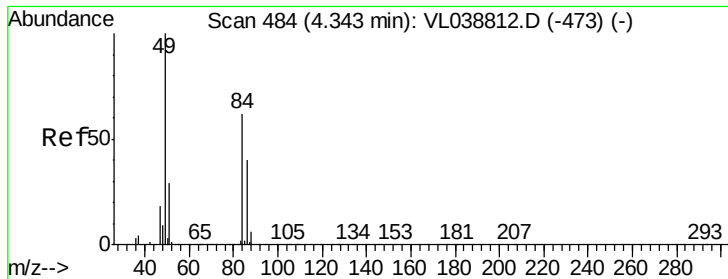
Tot Ion: 39 Resp: 2541
 Ion Ratio Lower Upper
 39 100
 54 242.0 64.8 97.2#



#18
 1,1-Dichloroethene
 Concen: 0.072 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. -0.00 min
 Lab File: VL038897.D
 Acq: 12 Apr 2022 18:26

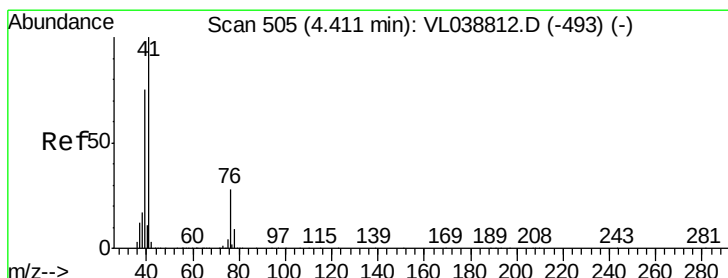
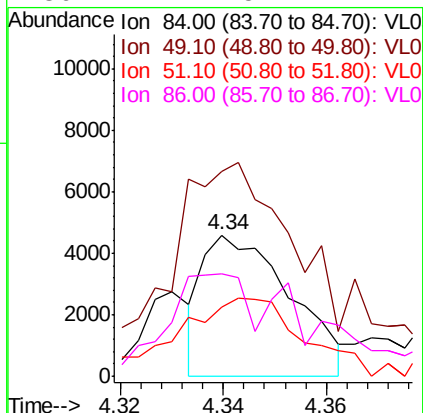
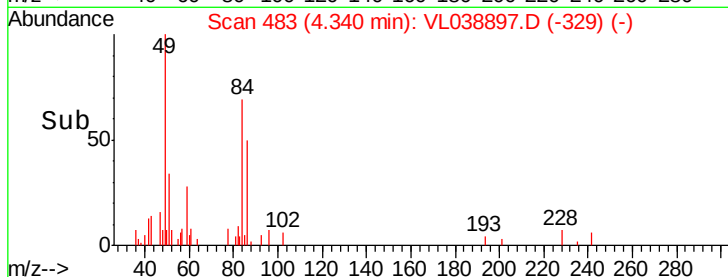
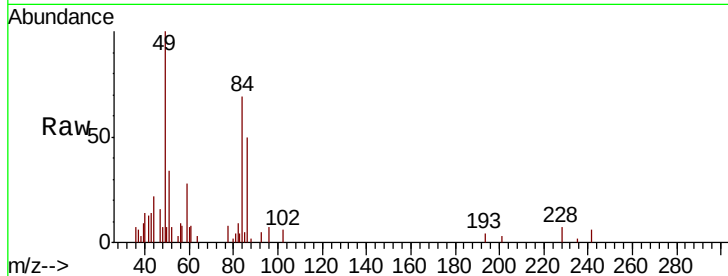
Tgt Ion: 96 Resp: 3183
 Ion Ratio Lower Upper
 96 100
 61 231.1 156.1 234.1
 98 57.2 53.0 79.6





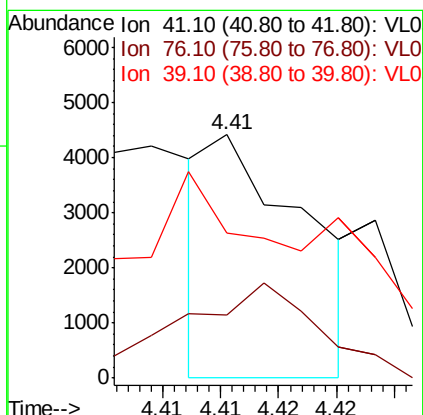
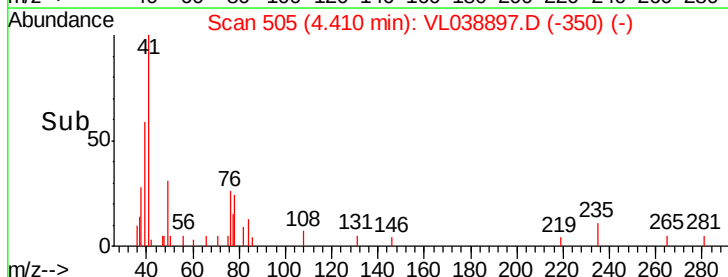
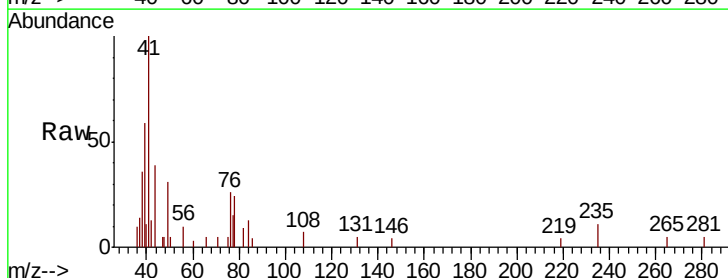
#20
Methylene Chloride
Concen: 0.134 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 12 Apr 2022 18:26

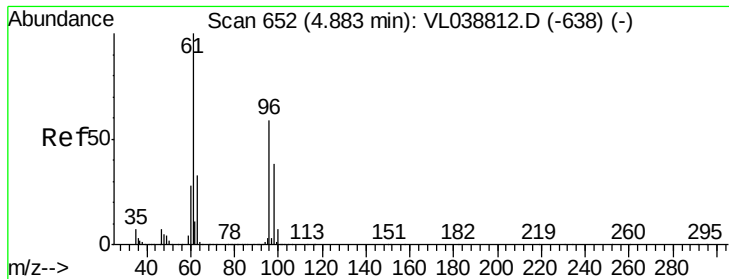
Tot Ion: 84 Resp: 5413
Ion Ratio Lower Upper
84 100
49 145.8 129.4 194.0
51 40.3 37.4 56.2
86 47.4 51.4 77.2#



#21
Allyl Chloride
Concen: 0.031 ppbv
RT: 4.41 min Scan# 505
Delta R.T.: -0.00 min
Lab File: VL038897.D
Acq: 12 Apr 2022 18:26

Tgt Ion: 41 Resp: 2541
Ion Ratio Lower Upper
41 100
76 68.8 23.7 35.5#
39 284.3 62.0 93.0#





#22

trans-1,2-Dichloroethene

Concen: 0.079 ppbv

RT: 4.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

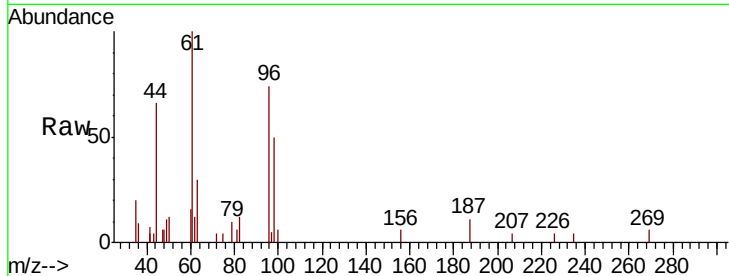
Tot Ion: 96 Resp: 3555

Ion Ratio Lower Upper

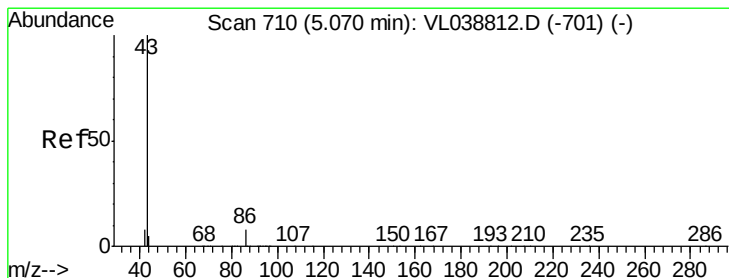
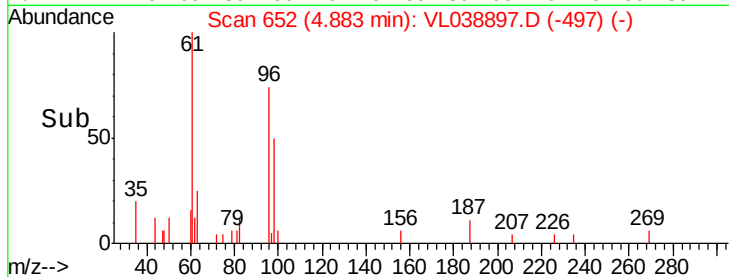
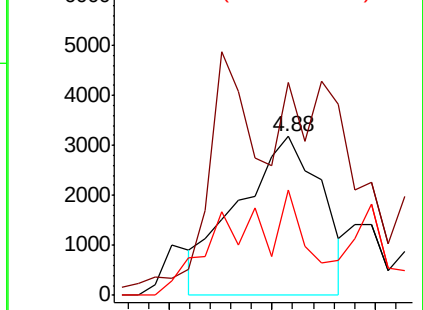
96 100

61 150.8 134.8 202.2

98 57.3 51.9 77.9



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



#23

Vinyl Acetate

Concen: 0.042 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.01 min

Lab File: VL038897.D

Acq: 12 Apr 2022 18:26

Tgt Ion: 43 Resp: 4536

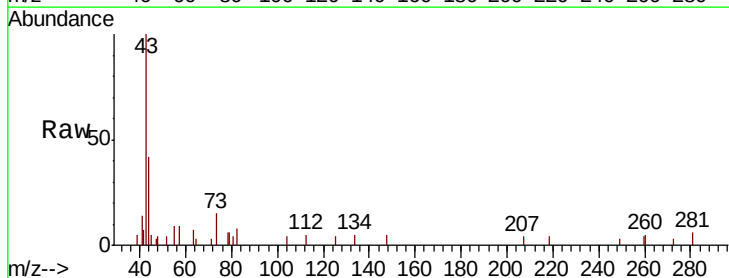
Ion Ratio Lower Upper

43 100

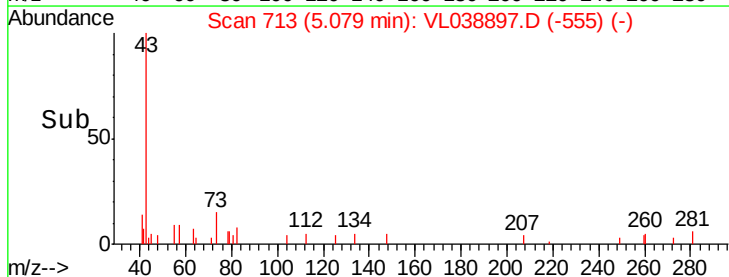
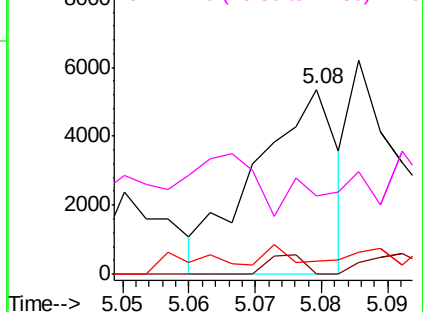
86 0.0 5.8 8.6#

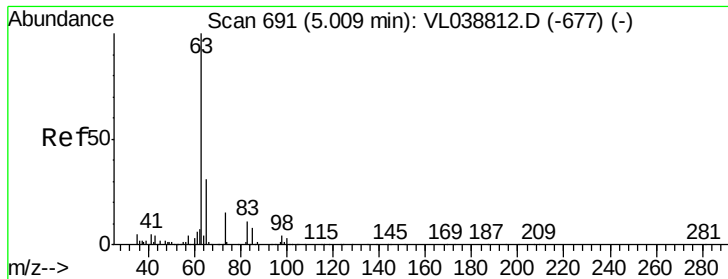
42 1.3 7.8 11.6#

44 0.0 3.6 5.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.080 ppbv

RT: 5.01 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

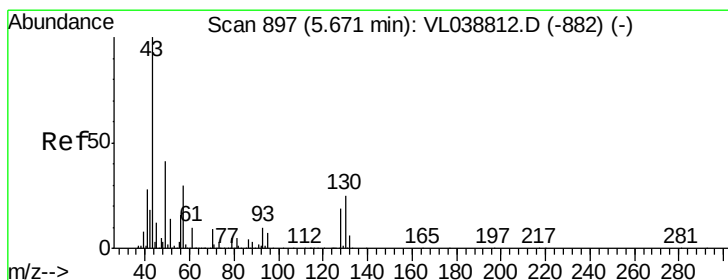
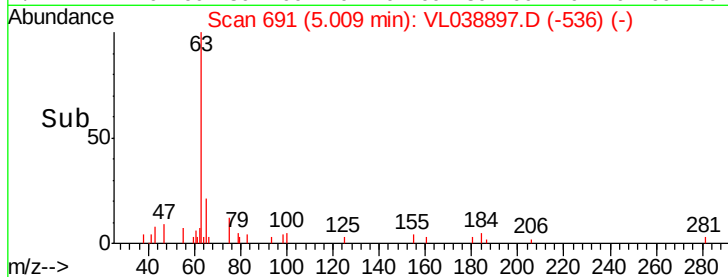
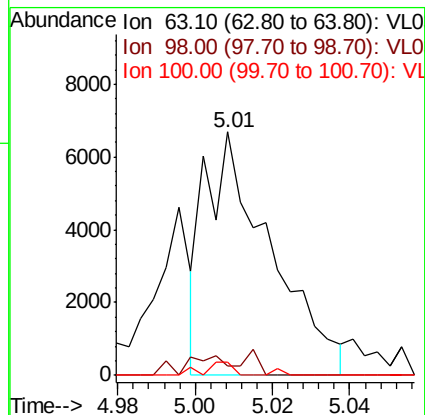
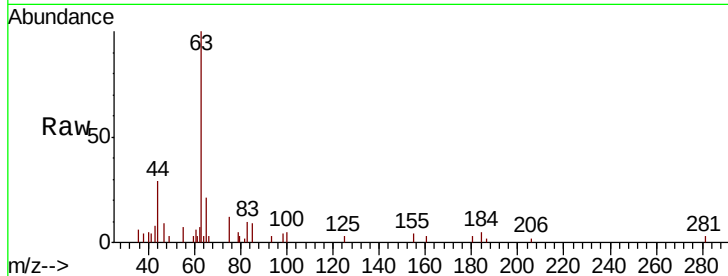
Tot Ion: 63 Resp: 7856

Ion Ratio Lower Upper

63 100

98 4.2 2.2 6.6

100 6.0 1.4 4.0#



#25

Ethyl Acetate

Concen: 0.051 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL038897.D

Acq: 12 Apr 2022 18:26

Tgt Ion: 43 Resp: 14294

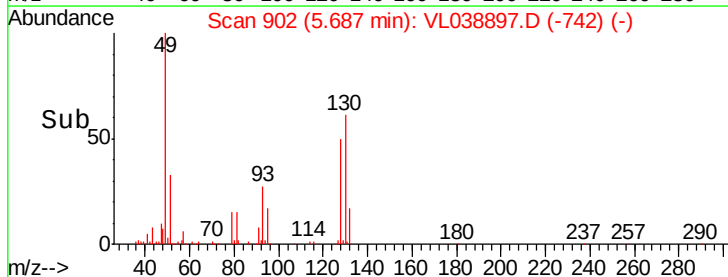
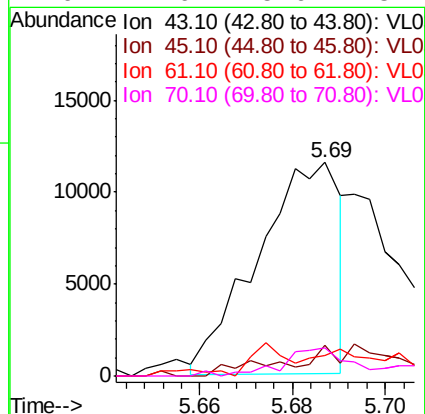
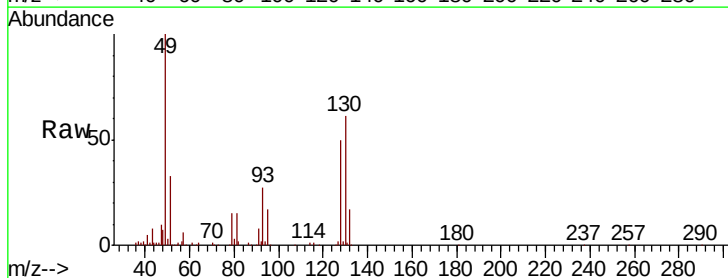
Ion Ratio Lower Upper

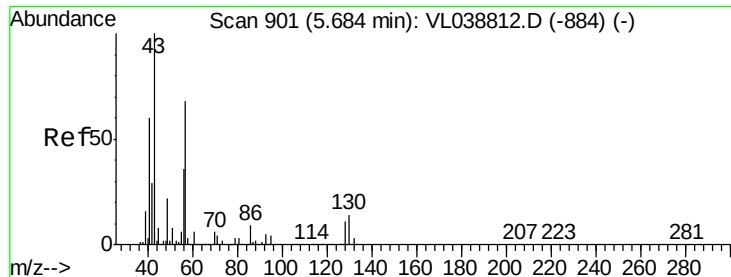
43 100

45 0.0 8.4 12.6#

61 25.1 7.9 11.9#

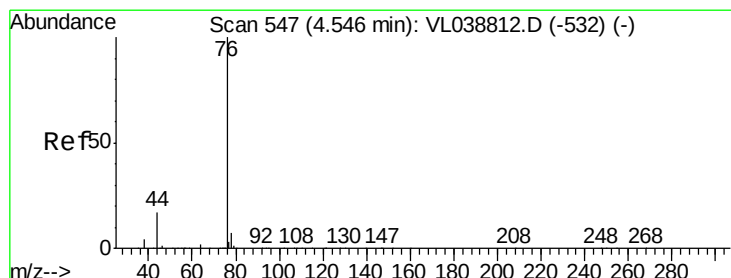
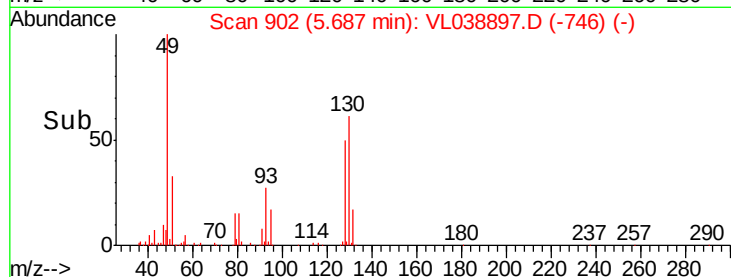
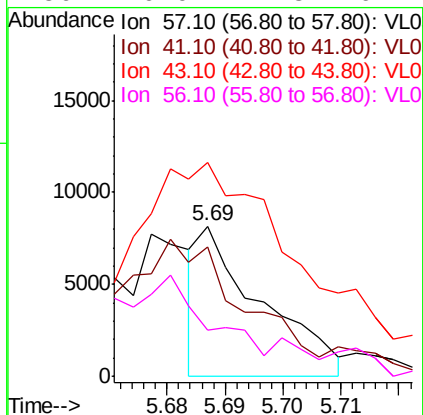
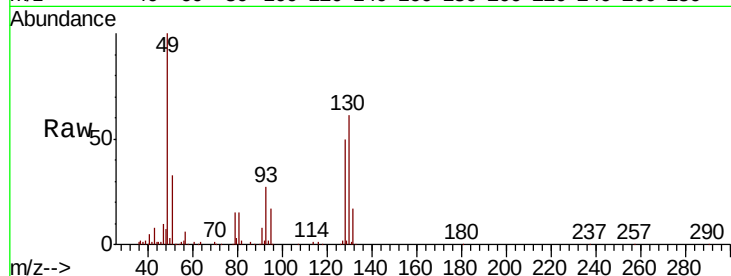
70 12.6 5.6 8.4#





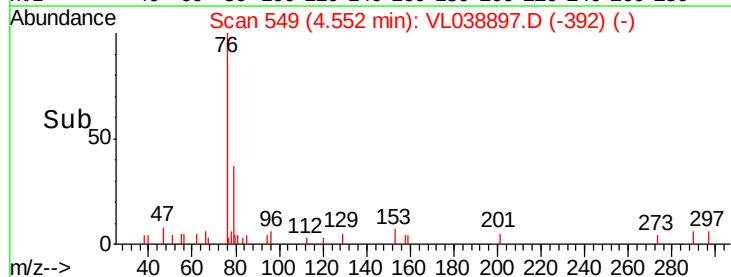
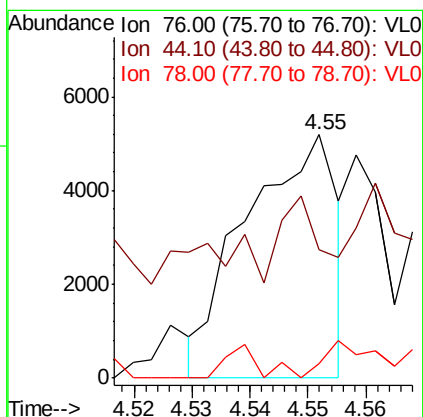
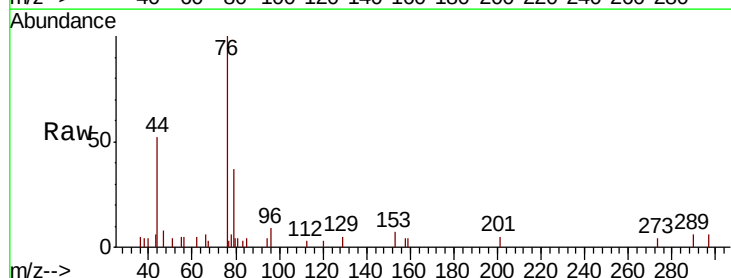
#26
Hexane
Concen: 0.048 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Apr 2022 18:26

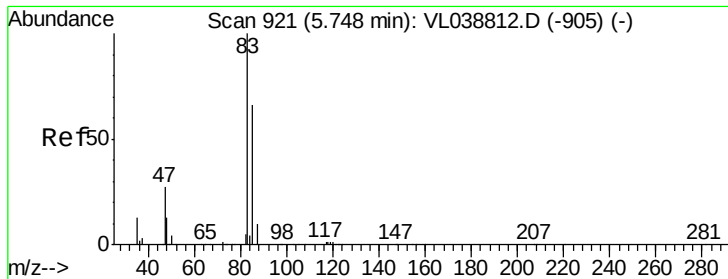
Tot Ion:	57	Resp:	6124
Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.0	108.0#
43	521.4	186.6	280.0#
56	0.0	42.8	64.2#



#27
Carbon Disulfide
Concen: 0.048 ppbv
RT: 4.55 min Scan# 549
Delta R.T. 0.01 min
Lab File: VL038897.D
Acq: 12 Apr 2022 18:26

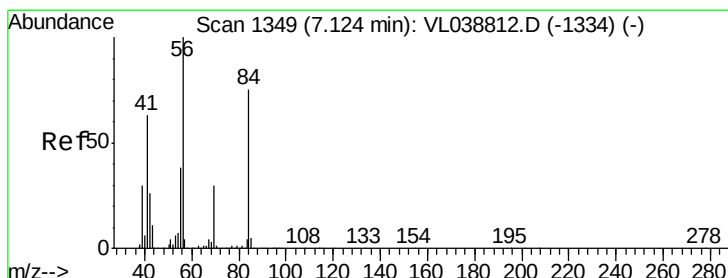
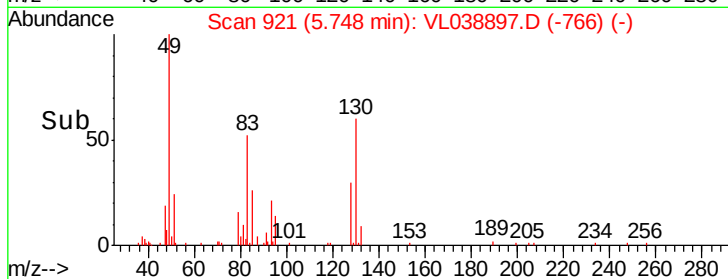
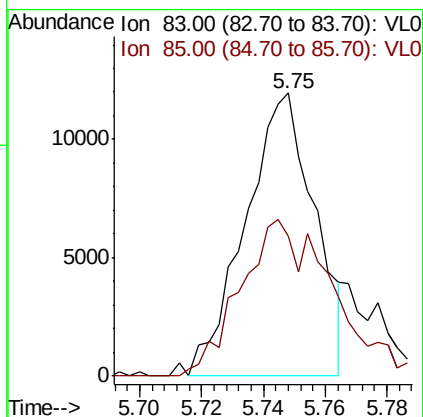
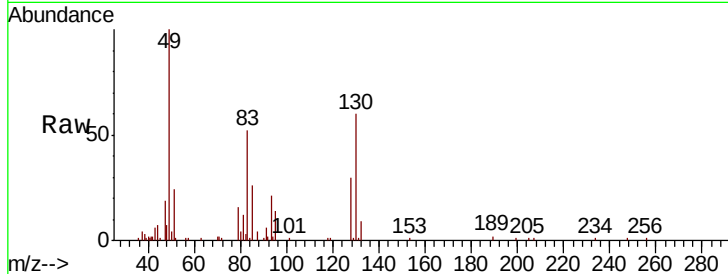
Tgt Ion:	76	Resp:	5629
Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.7	23.5#
78	0.0	7.8	11.8#





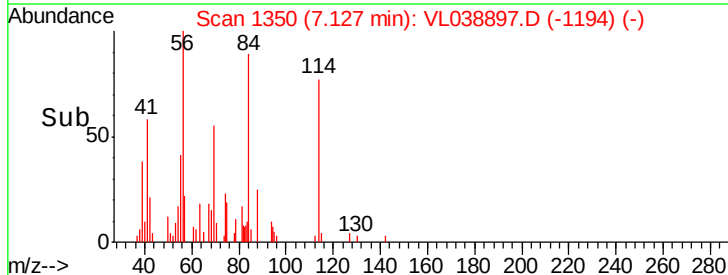
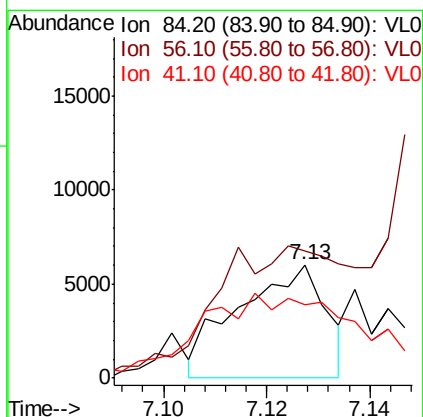
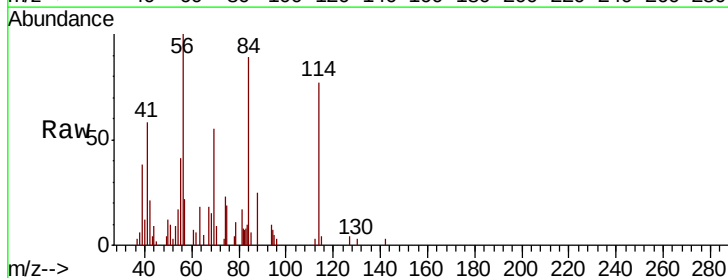
#29
Chloroform
Concen: 0.104 ppbv
RT: 5.75 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 12 Apr 2022 18:26

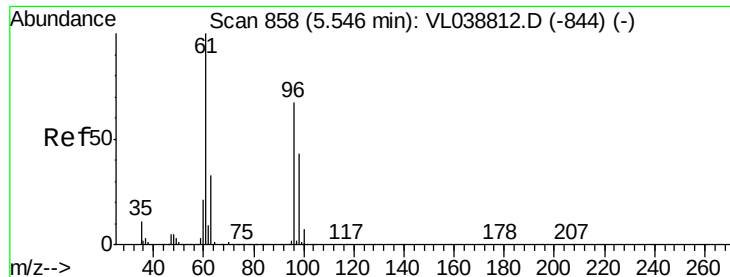
Tot Ion: 83 Resp: 18612
Ion Ratio Lower Upper
83 100
85 47.1 52.5 78.7#



#30
Cyclohexane
Concen: 0.062 ppbv
RT: 7.13 min Scan# 1350
Delta R.T.: 0.00 min
Lab File: VL038897.D
Acq: 12 Apr 2022 18:26

Tgt Ion: 84 Resp: 6985
Ion Ratio Lower Upper
84 100
56 0.0 114.4 171.6#
41 148.6 69.0 103.4#





#31

cis-1,2-Dichloroethene

Concen: 0.059 ppbv

RT: 5.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

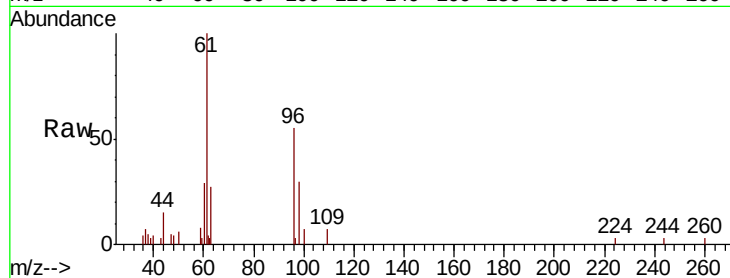
Tot Ion: 61 Resp: 6936

Ion Ratio Lower Upper

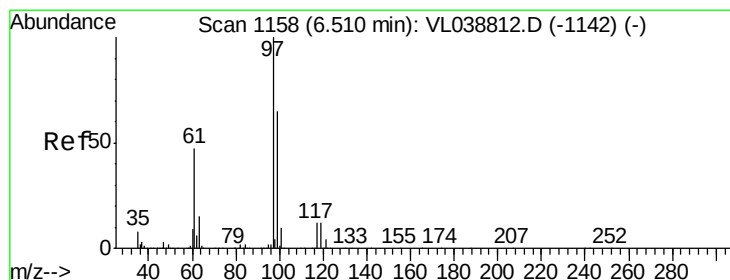
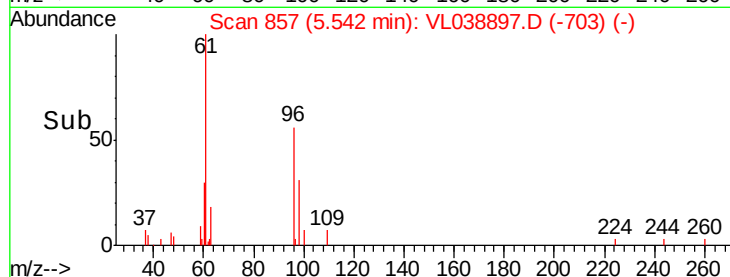
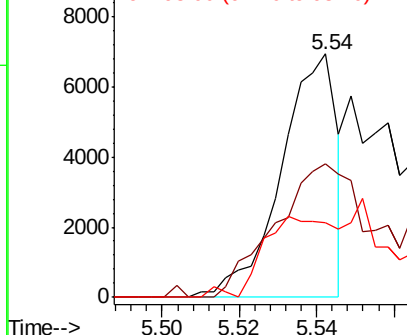
61 100

96 52.4 53.4 80.0#

98 29.1 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: 0.105 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VL038897.D

Acq: 12 Apr 2022 18:26

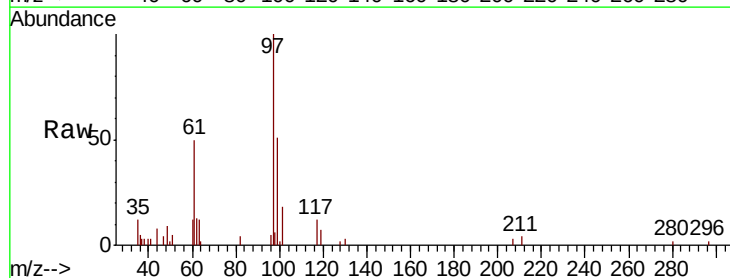
Tgt Ion: 97 Resp: 19011

Ion Ratio Lower Upper

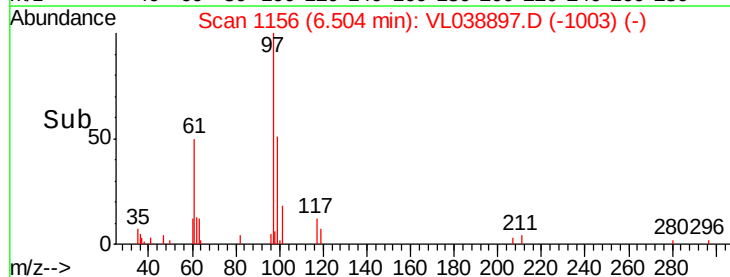
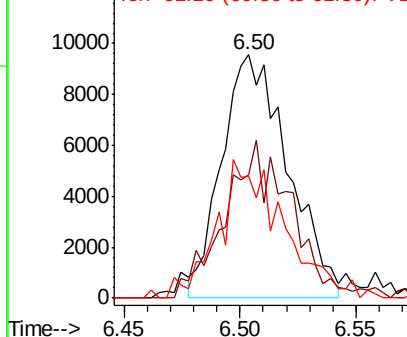
97 100

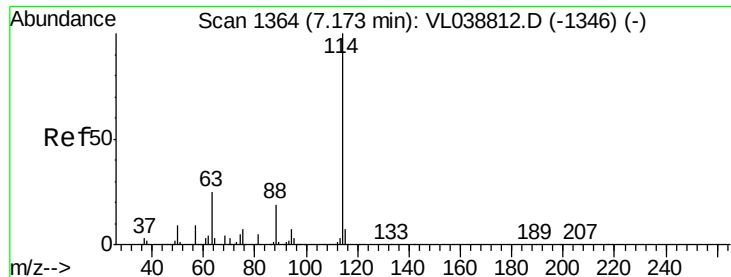
99 66.4 52.4 78.6

61 57.2 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

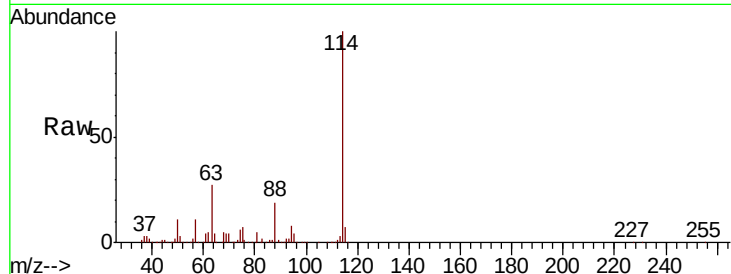




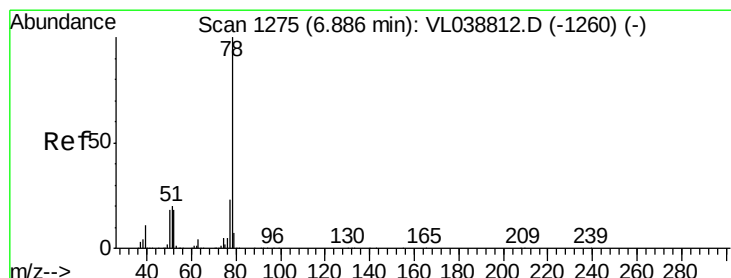
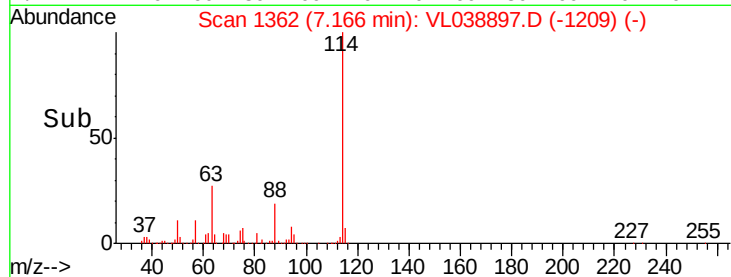
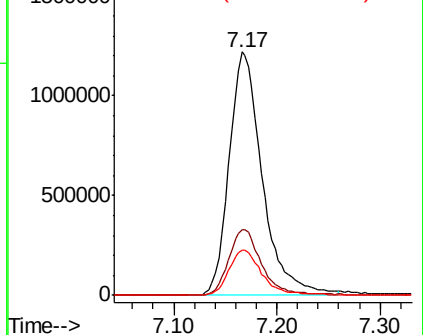
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 12 Apr 2022 18:26

Tot Ion:114 Resp: 2739988

Ion	Ratio	Lower	Upper
114	100		
63	27.3	19.8	29.8
88	19.0	14.2	21.4



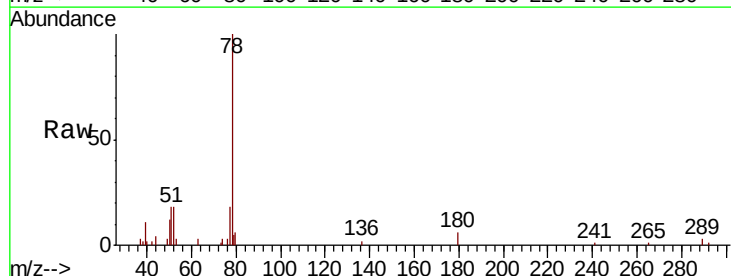
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



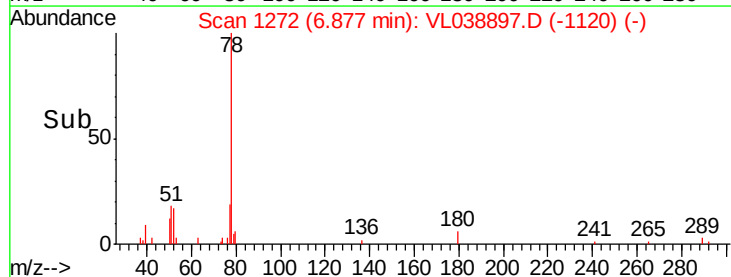
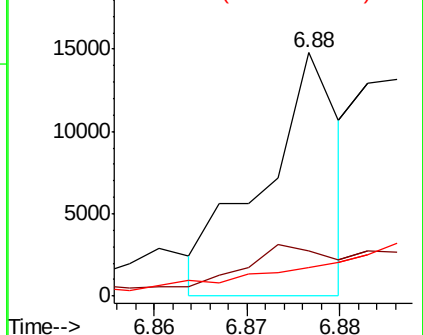
#36
 Benzene
 Concen: 0.034 ppbv
 RT: 6.88 min Scan# 1272
 Delta R.T. -0.01 min
 Lab File: VL038897.D
 Acq: 12 Apr 2022 18:26

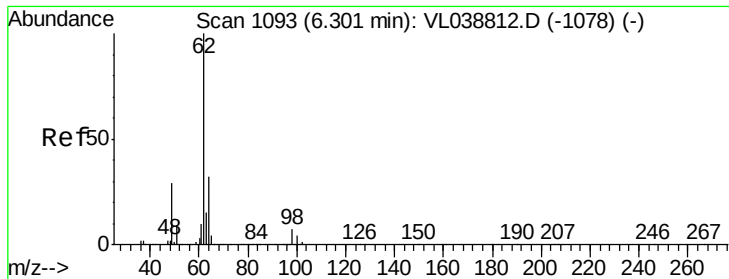
Tgt Ion: 78 Resp: 8464

Ion	Ratio	Lower	Upper
78	100		
77	4.4	18.2	27.2#
50	6.3	14.0	21.0#



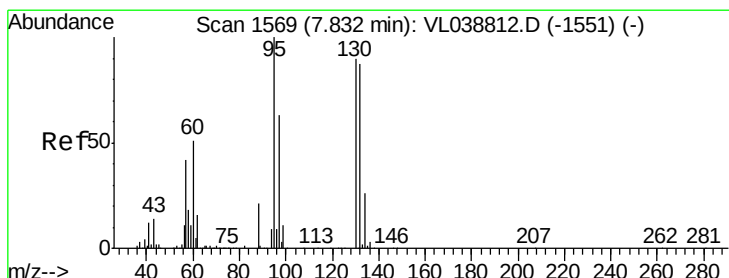
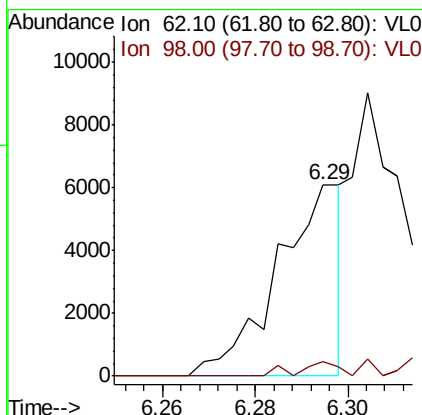
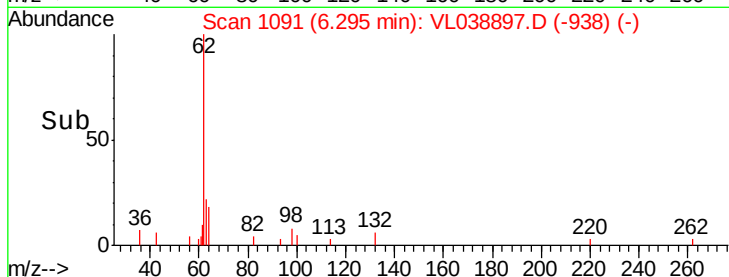
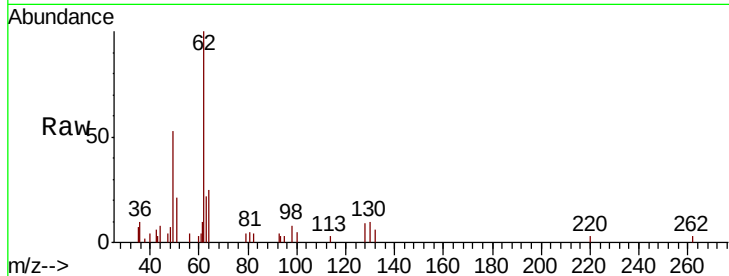
Abundance Ion 78.10 (77.80 to 78.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0





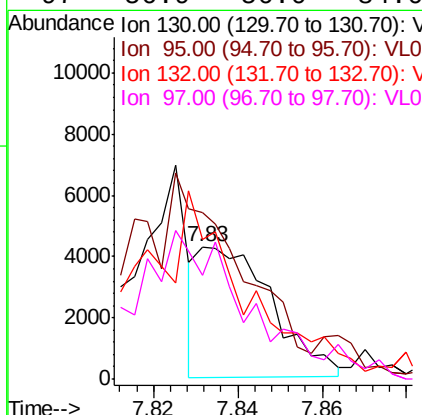
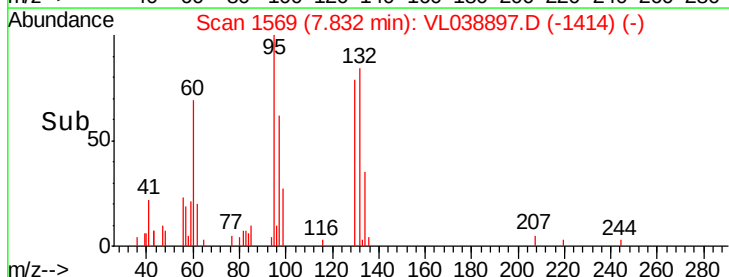
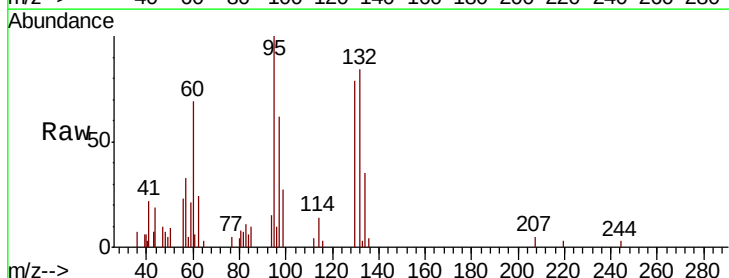
#37
 1,2-Dichloroethane
 Concen: 0.052 ppbv
 RT: 6.29
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 12 Apr 2022 18:26

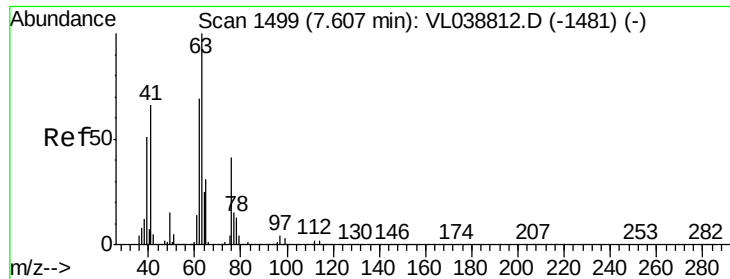
Tot Ion: 62 Resp: 5917
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.9 8.9#



#38
 Trichloroethene
 Concen: 0.050 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T.: -0.00 min
 Lab File: VL038897.D
 Acq: 12 Apr 2022 18:26

Tgt Ion: 130 Resp: 5139
 Ion Ratio Lower Upper
 130 100
 95 102.6 89.4 134.0
 132 94.8 77.7 116.5
 97 56.9 56.0 84.0





#39

1,2-Dichloropropane

Concen: 7.522 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

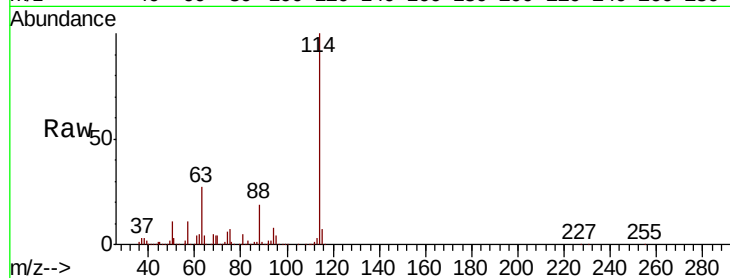
Tot Ion: 63 Resp: 717129

Ion Ratio Lower Upper

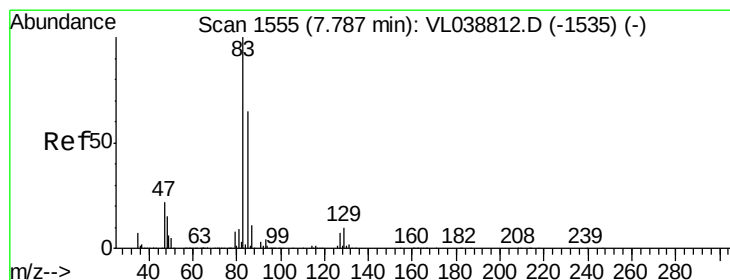
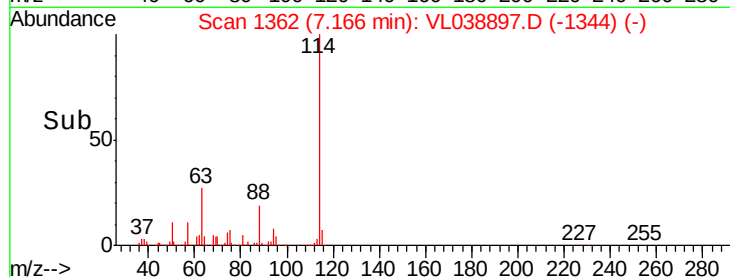
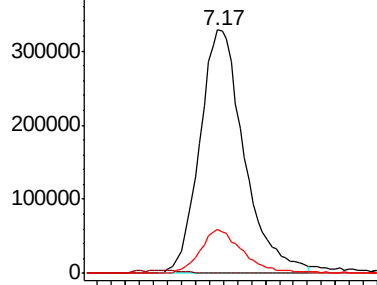
63 100

41 0.2 53.0 79.6#

62 18.0 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: 0.105 ppbv

RT: 7.78 min Scan# 1554

Delta R.T. -0.00 min

Lab File: VL038897.D

Acq: 12 Apr 2022 18:26

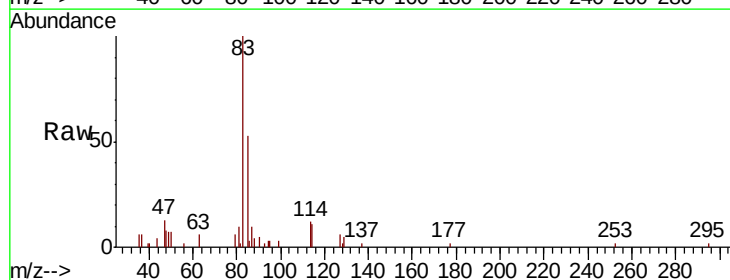
Tgt Ion: 83 Resp: 18983

Ion Ratio Lower Upper

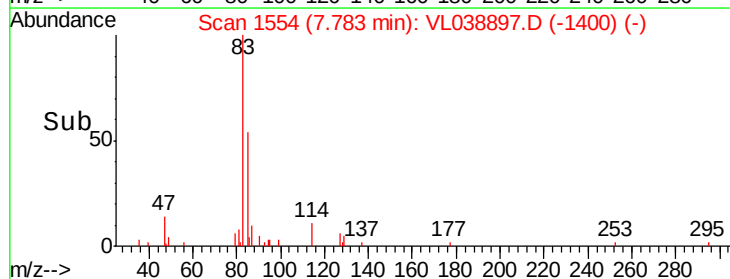
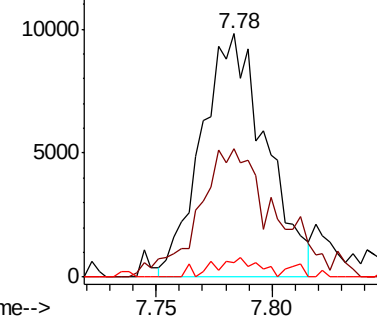
83 100

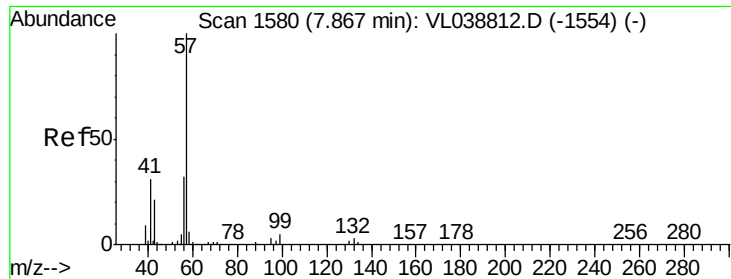
85 46.7 51.7 77.5#

127 6.4 5.9 8.9



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#44

2,2,4-Trimethylpentane

Concen: 0.075 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

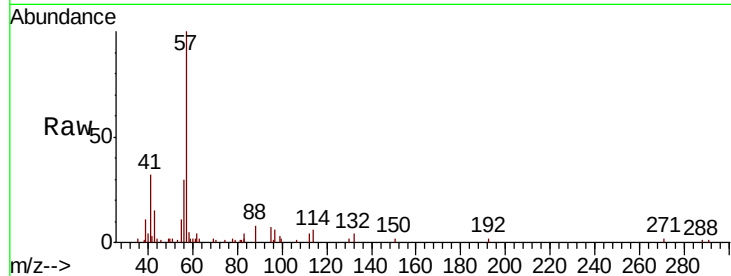
Tot Ion: 57 Resp: 31599

Ion Ratio Lower Upper

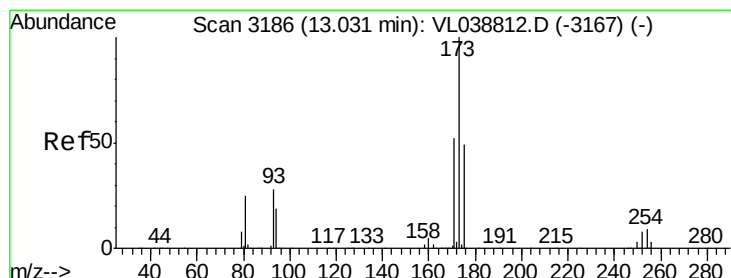
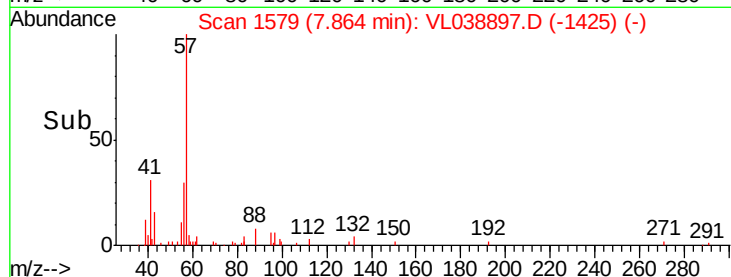
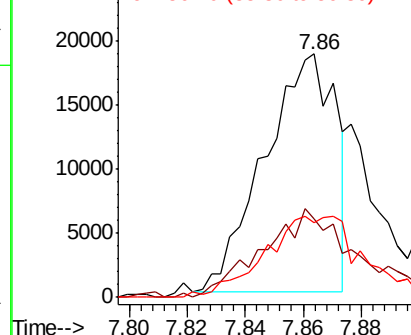
57 100

41 52.5 25.0 37.4#

56 48.5 25.3 37.9#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#49

Bromoform

Concen: 0.035 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VL038897.D

Acq: 12 Apr 2022 18:26

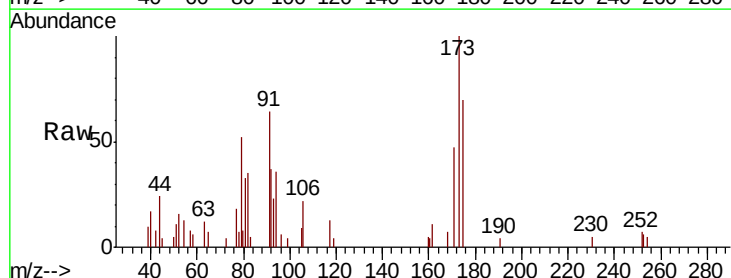
Tgt Ion: 173 Resp: 4230

Ion Ratio Lower Upper

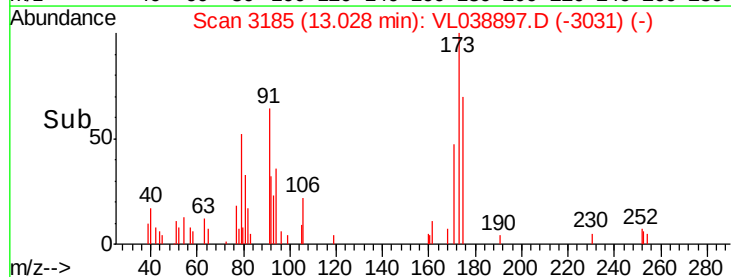
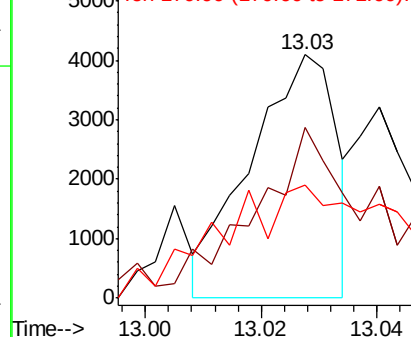
173 100

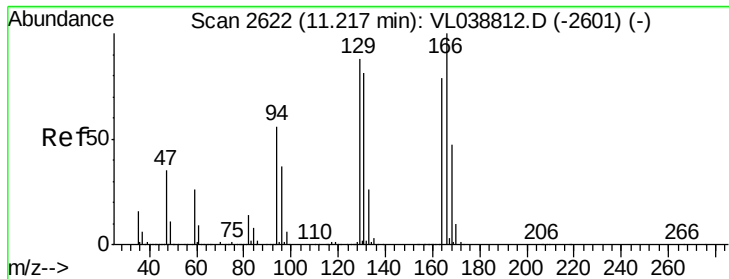
175 115.3 39.9 59.9#

171 111.7 43.4 65.0#



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V





#52

Tetrachloroethene

Concen: 0.033 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

Tot Ion:164 Resp: 2884

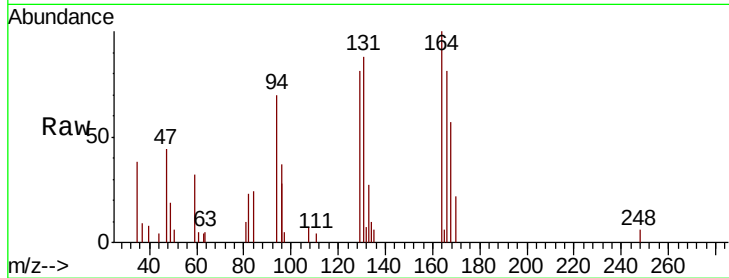
Ion Ratio Lower Upper

164 100

166 58.8 101.0 151.6#

129 62.6 88.7 133.1#

131 83.6 81.8 122.6

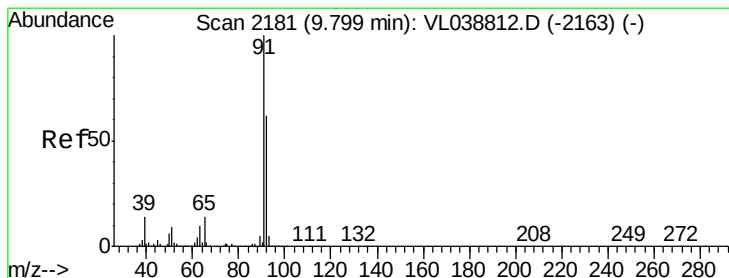
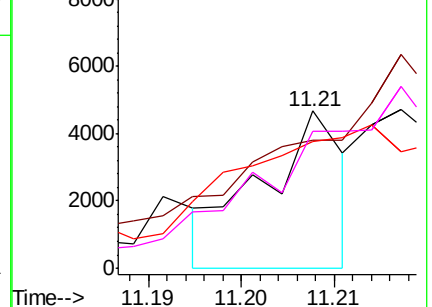
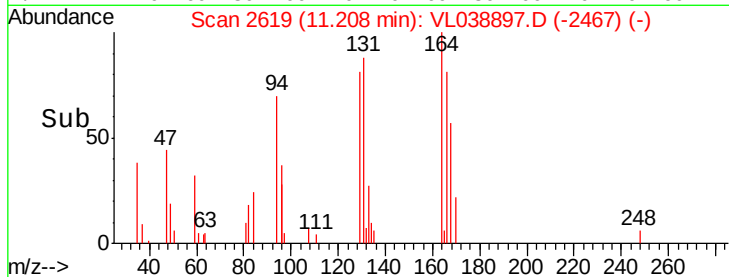


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.088 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL038897.D

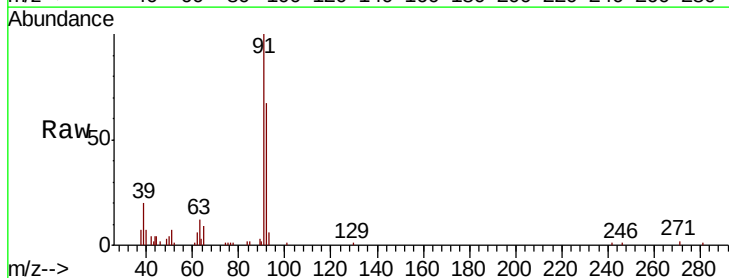
Acq: 12 Apr 2022 18:26

Tgt Ion: 91 Resp: 25350

Ion Ratio Lower Upper

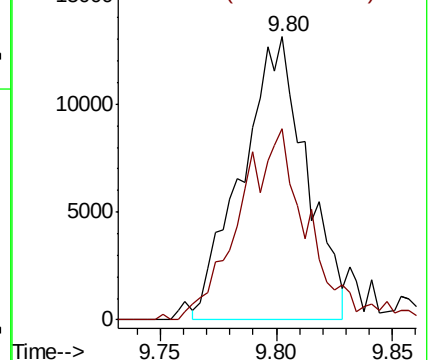
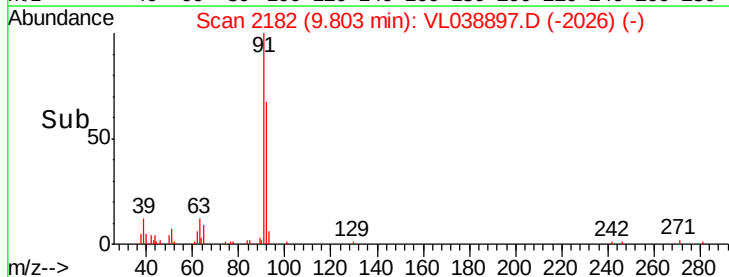
91 100

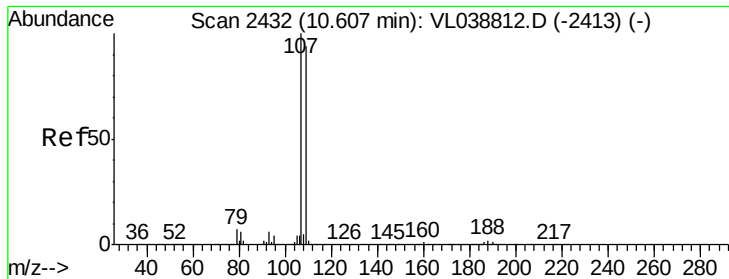
92 71.9 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

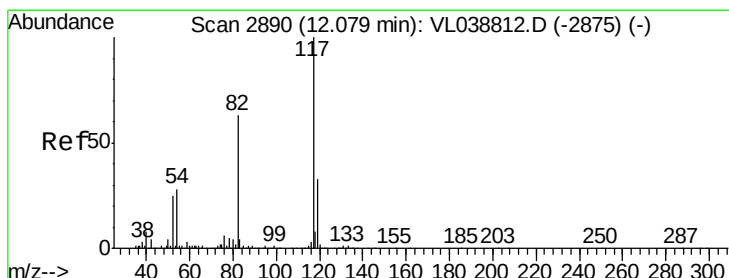
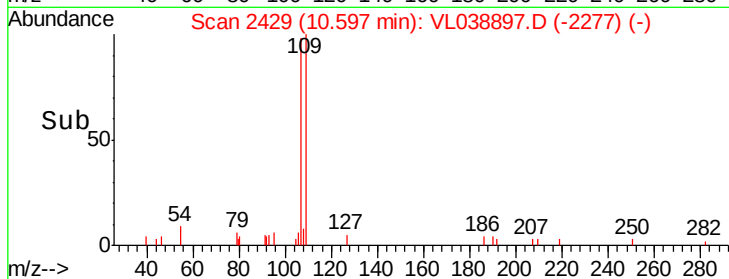
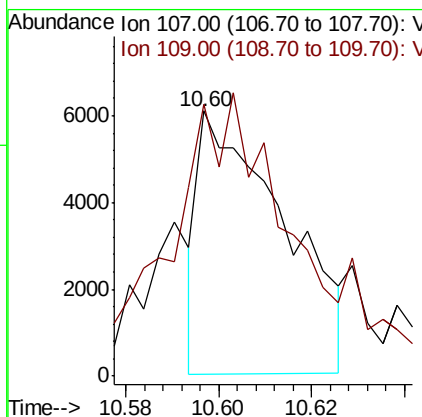
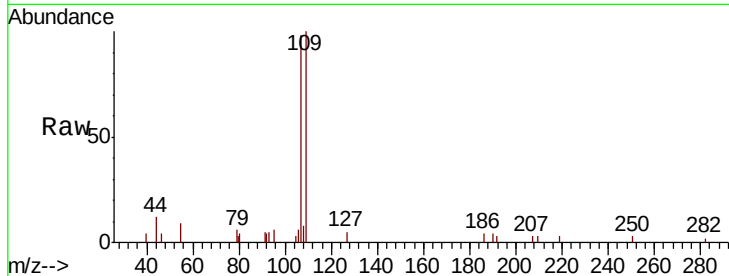
Ion 92.10 (91.80 to 92.80): VL0





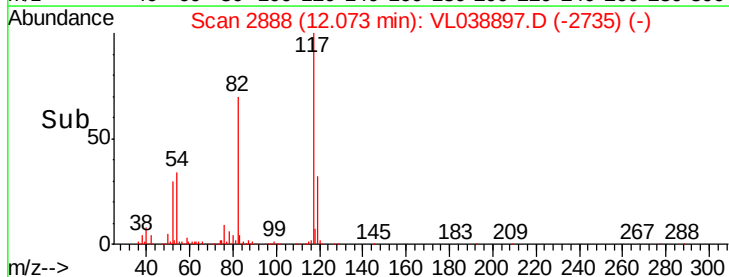
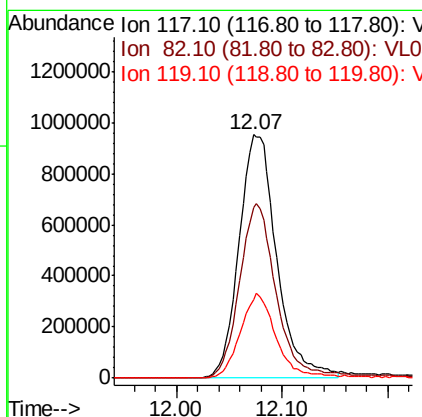
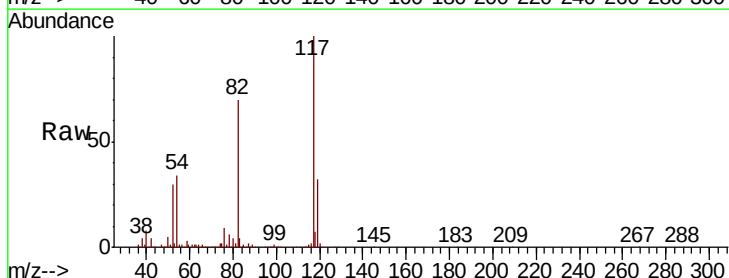
#54
 1,2-Dibromoethane
 Concen: 0.057 ppbv
 RT: 10.60 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 12 Apr 2022 18:26

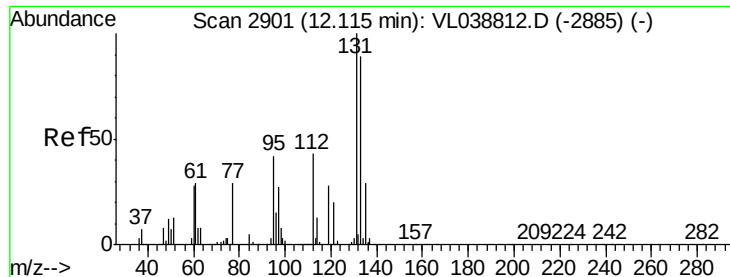
Tot Ion:107 Resp: 7704
 Ion Ratio Lower Upper
 107 100
 109 113.2 75.5 113.3



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min Scan# 2888
 Delta R.T. -0.01 min
 Lab File: VL038897.D
 Acq: 12 Apr 2022 18:26

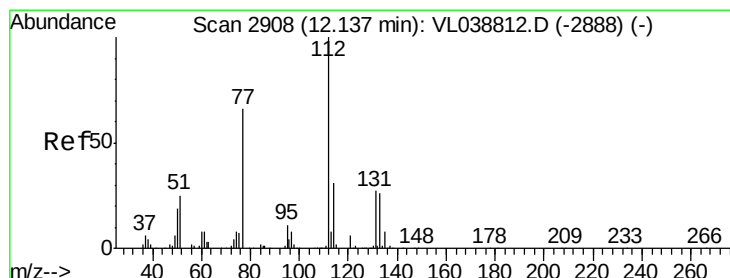
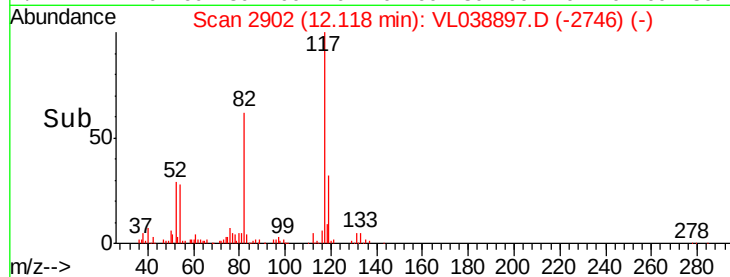
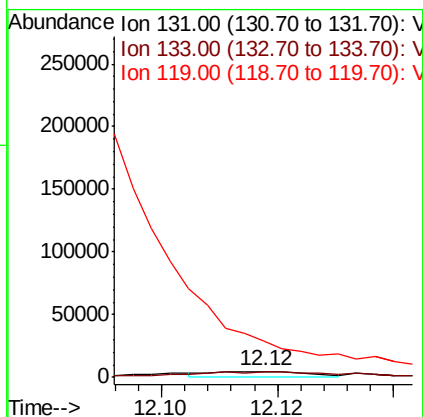
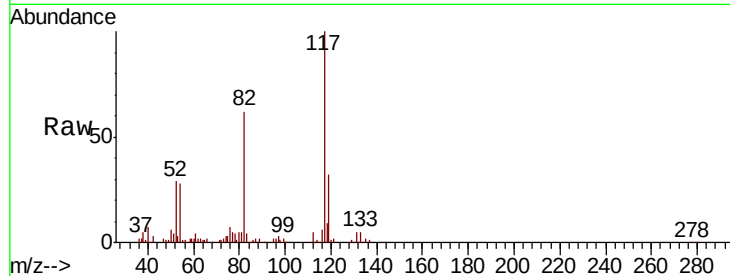
Tgt Ion:117 Resp: 2368967
 Ion Ratio Lower Upper
 117 100
 82 70.1 53.0 79.6
 119 33.4 24.9 37.3





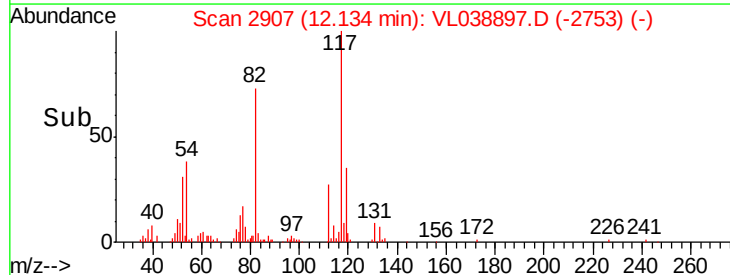
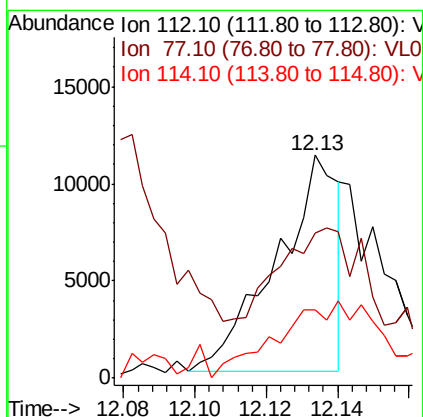
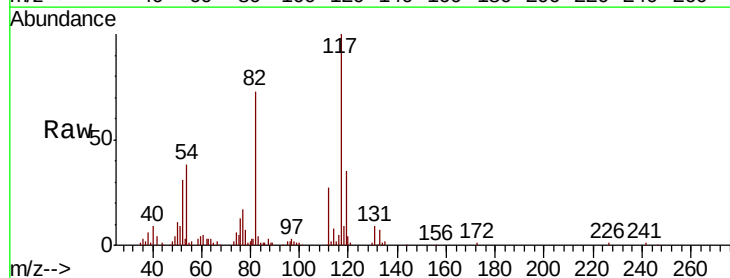
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.055 ppbv
 RT: 12.12 min
 Instrument: MSVOA_1
 Delta R.T.:
 Client Sample ID:
 Lab File: MDL 0.1 NAPHT.
 Acq: 12 Apr 2022 18:26

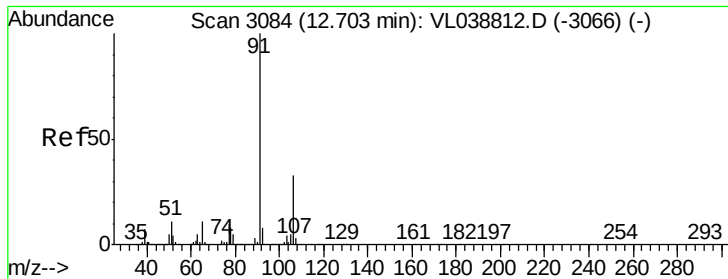
Tot Ion: 131 Resp: 5690
 Ion Ratio Lower Upper
 131 100
 133 180.3 78.2 117.4#
 119 0.0 58.6 87.8#



#57
 Chlorobenzene
 Concen: 0.069 ppbv
 RT: 12.13 min Scan# 2907
 Delta R.T.: -0.00 min
 Lab File: VL038897.D
 Acq: 12 Apr 2022 18:26

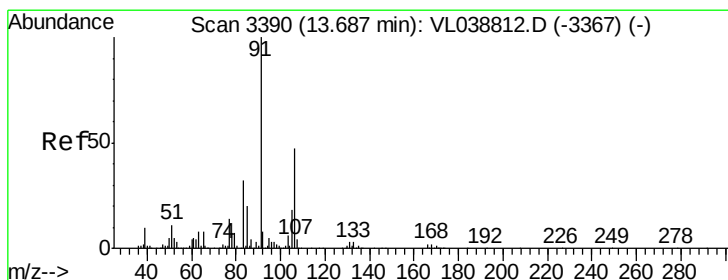
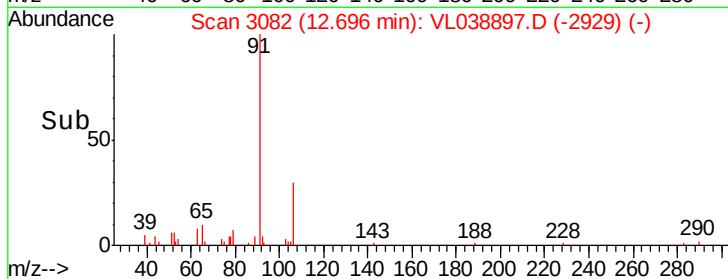
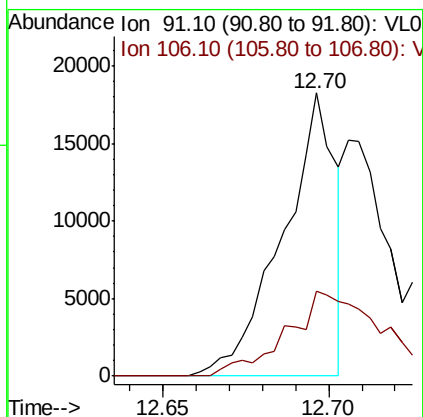
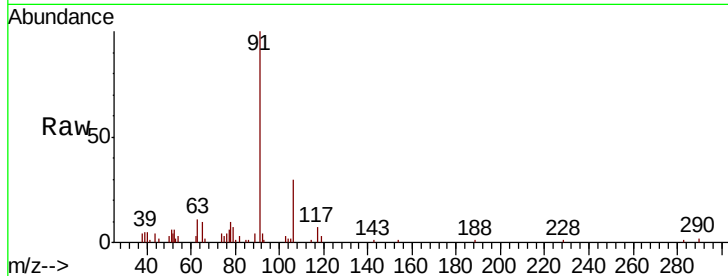
Tgt Ion: 112 Resp: 13420
 Ion Ratio Lower Upper
 112 100
 77 17.2 52.4 78.6#
 114 5.2 28.1 34.3#





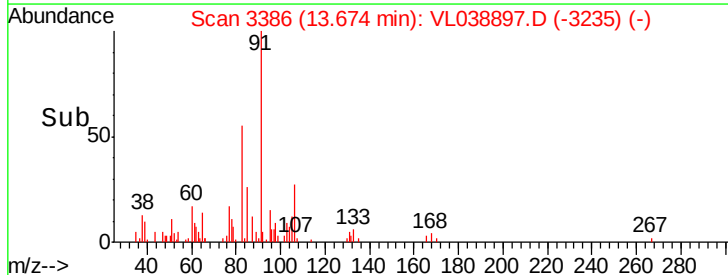
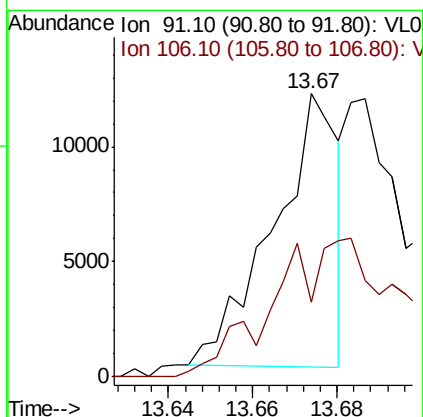
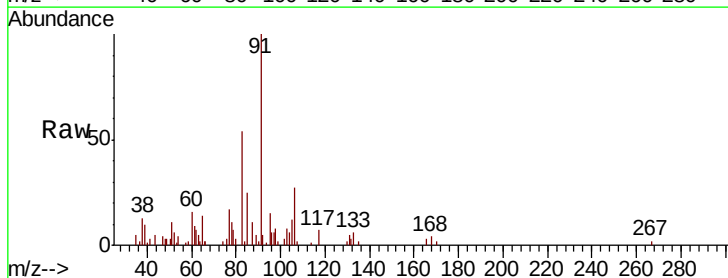
#58
Ethyl Benzene
Concen: 0.057 ppbv
RT: 12.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Apr 2022 18:26

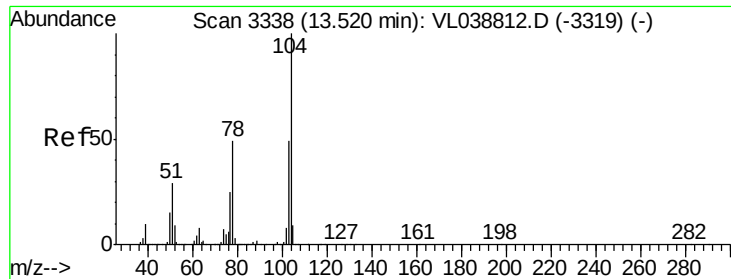
Tot Ion: 91 Resp: 20309
Ion Ratio Lower Upper
91 100
106 29.9 26.7 40.1



#60
o-Xylene
Concen: 0.045 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL038897.D
Acq: 12 Apr 2022 18:26

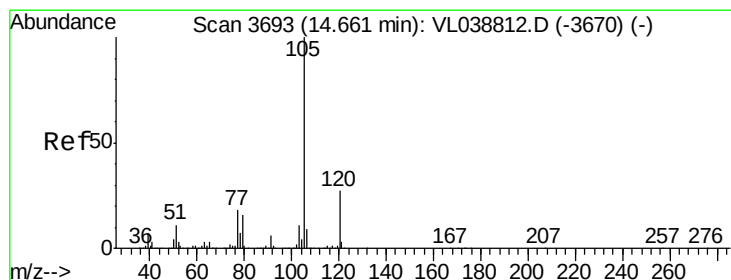
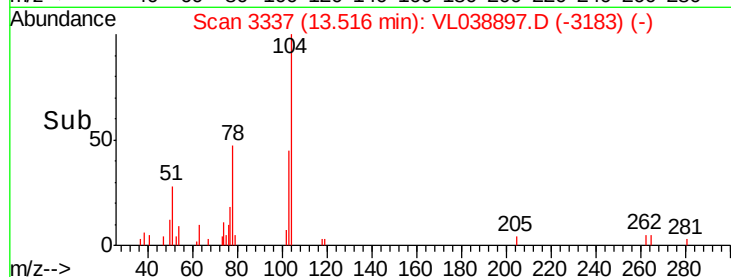
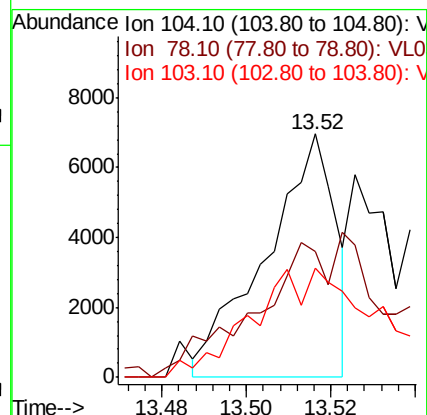
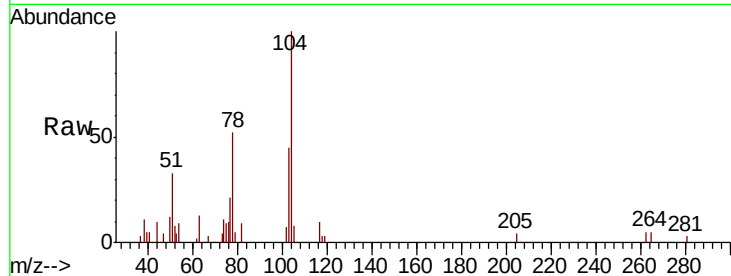
Tgt Ion: 91 Resp: 12571
Ion Ratio Lower Upper
91 100
106 0.0 23.8 71.4#





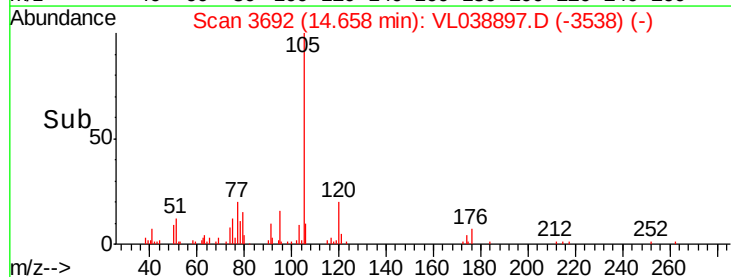
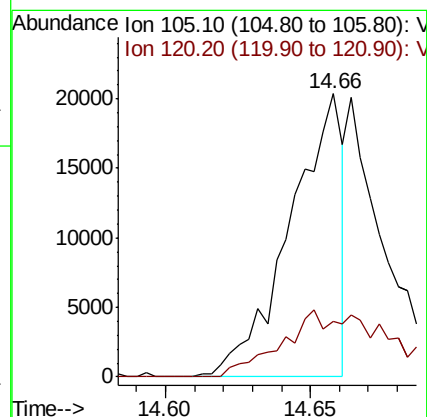
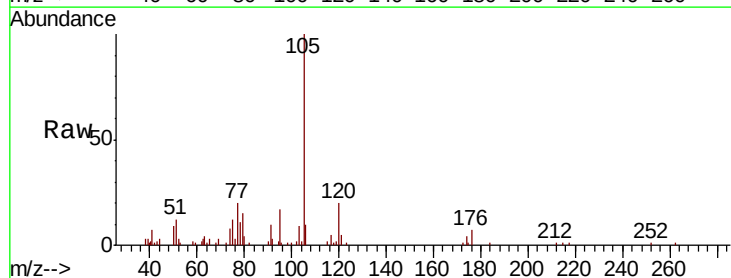
#61
Stvrene
Concen: 0.047 ppbv
RT: 13.52
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 12 Apr 2022 18:26

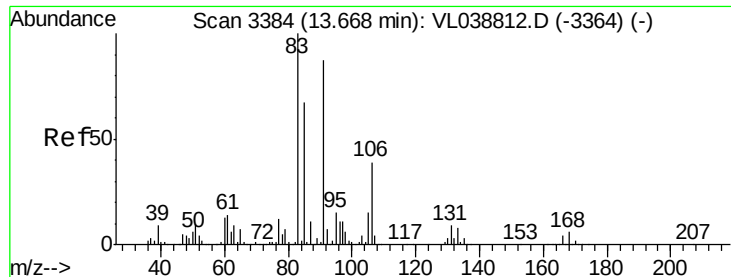
Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	40.5	60.7#
103	87.9	39.0	58.4#



#62
Isopropylbenzene
Concen: 0.061 ppbv
RT: 14.66 min Scan# 3692
Delta R.T. -0.00 min
Lab File: VL038897.D
Acq: 12 Apr 2022 18:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	21.8	32.8#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.065 ppbv

RT: 13.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

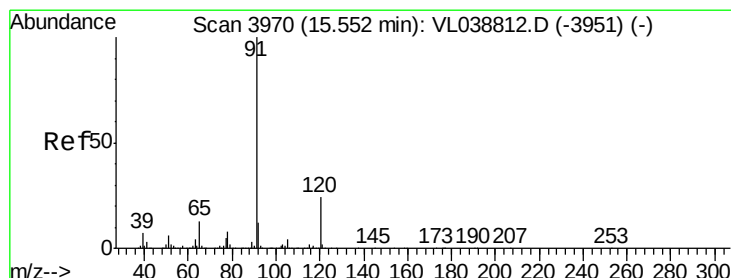
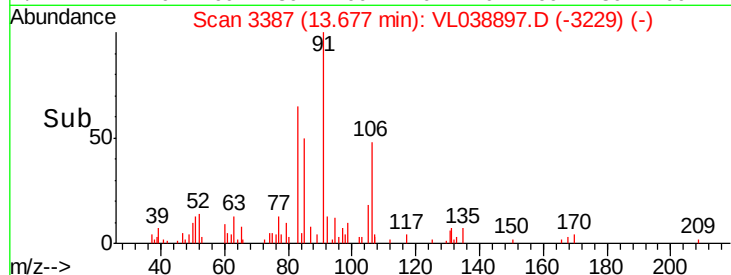
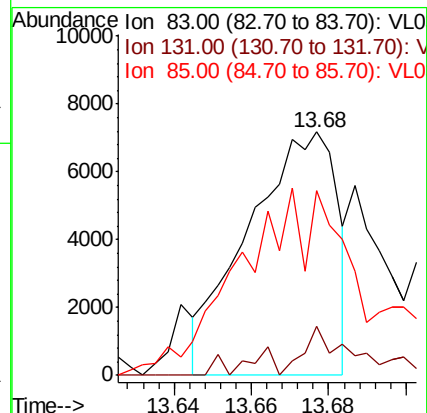
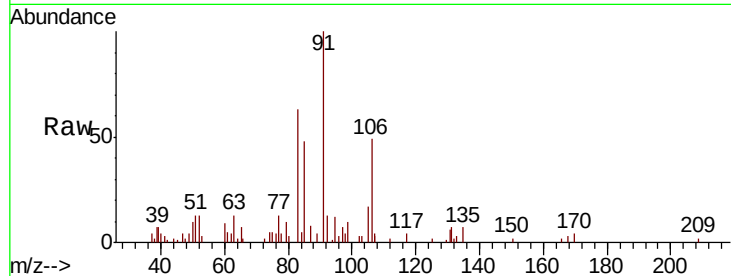
Tot Ion: 83 Resp: 11480

Ion Ratio Lower Upper

83 100

131 16.3 4.6 13.8#

85 114.8 33.0 99.0#



#64

n-propylbenzene

Concen: 0.066 ppbv

RT: 15.55 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VL038897.D

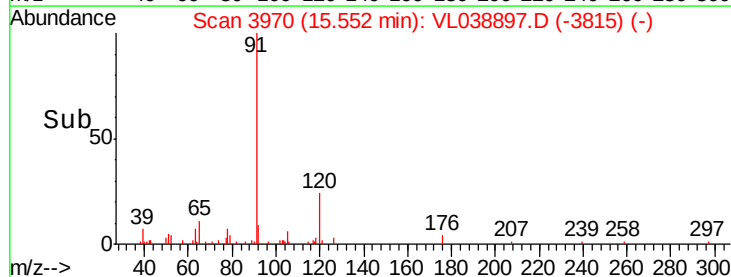
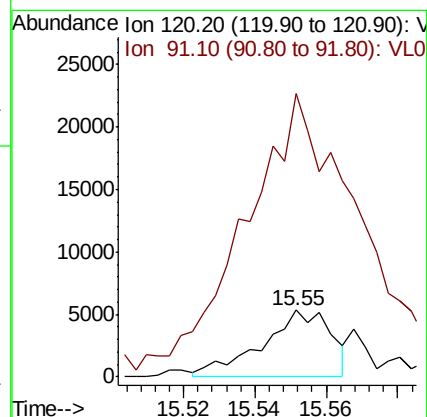
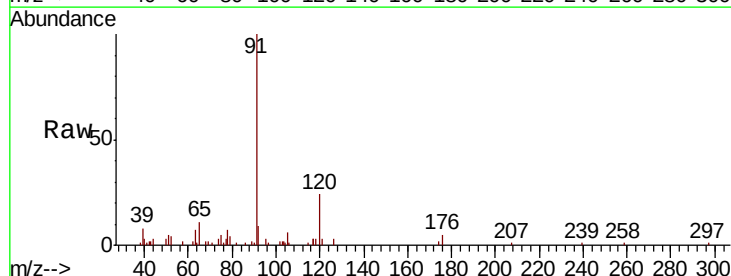
Acq: 12 Apr 2022 18:26

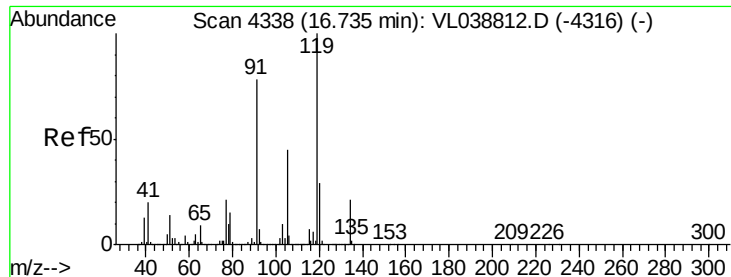
Tgt Ion: 120 Resp: 7158

Ion Ratio Lower Upper

120 100

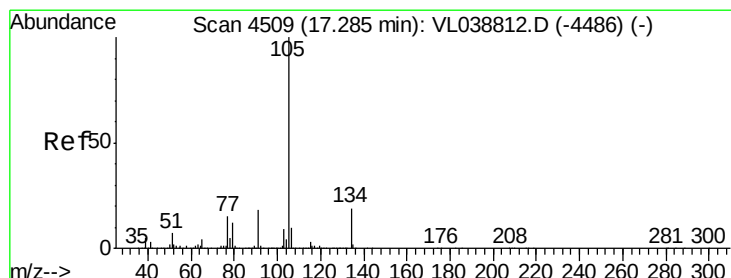
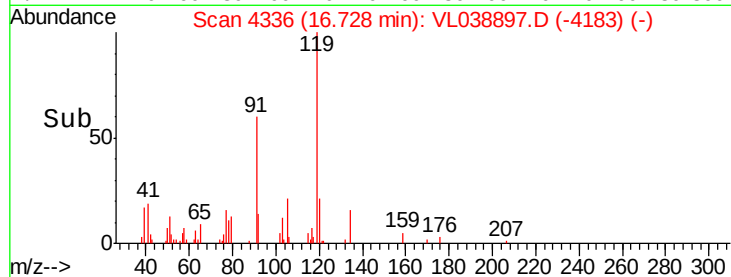
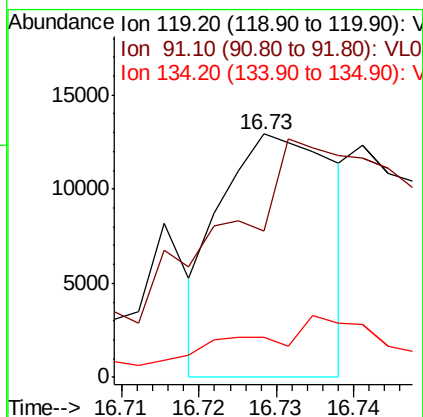
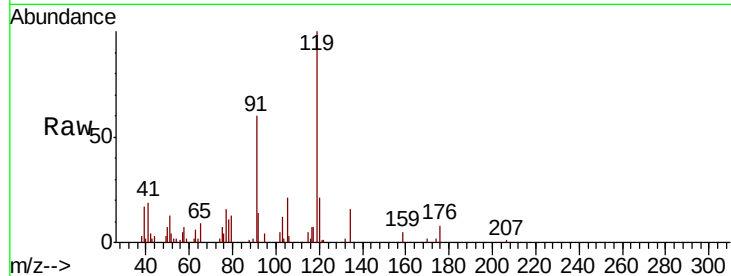
91 765.6 360.6 540.8#





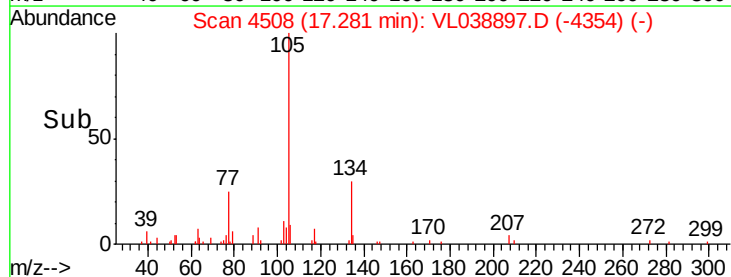
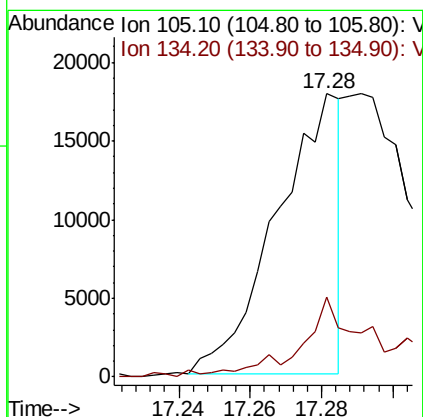
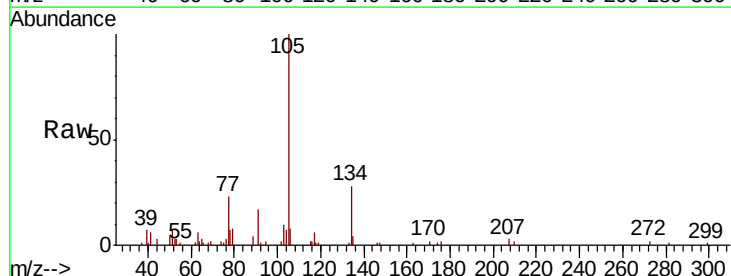
#65
tert-Butylbenzene
Concen: 0.036 ppbv
RT: 16.73 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
MDL 0.1 NAPHT.
Acq: 12 Apr 2022 18:28

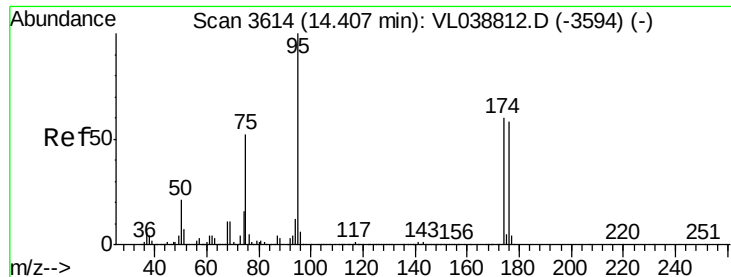
Tot Ion: 119 Resp: 13193
Ion Ratio Lower Upper
119 100
91 268.3 62.8 94.2#
134 58.2 16.2 24.4#



#67
sec-Butylbenzene
Concen: 0.042 ppbv
RT: 17.28 min Scan# 4508
Delta R.T.: -0.00 min
Lab File: VL038897.D
Acq: 12 Apr 2022 18:26

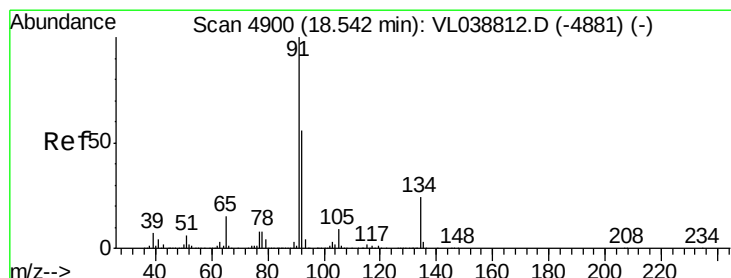
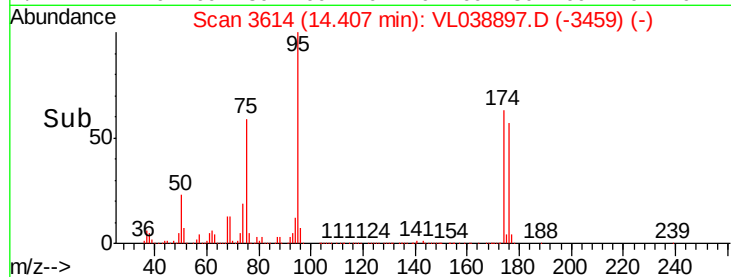
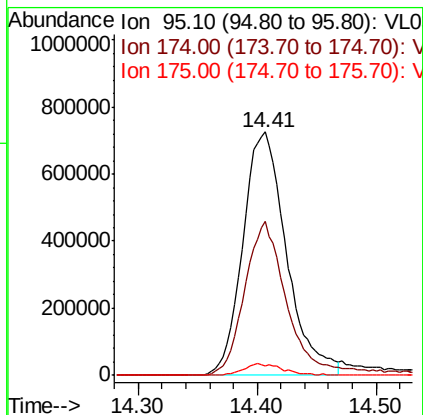
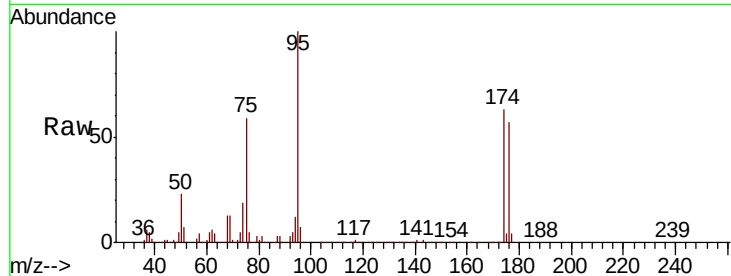
Tgt Ion: 105 Resp: 22079
Ion Ratio Lower Upper
105 100
134 44.1 15.1 22.7#





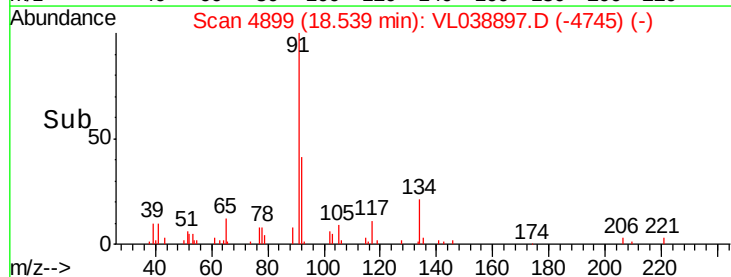
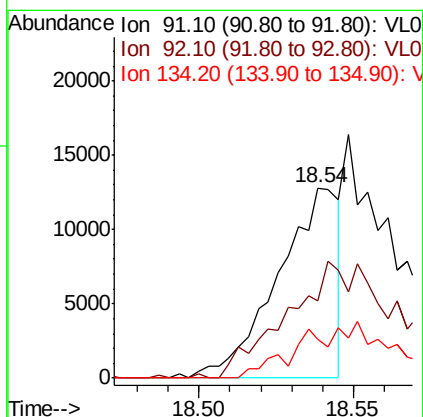
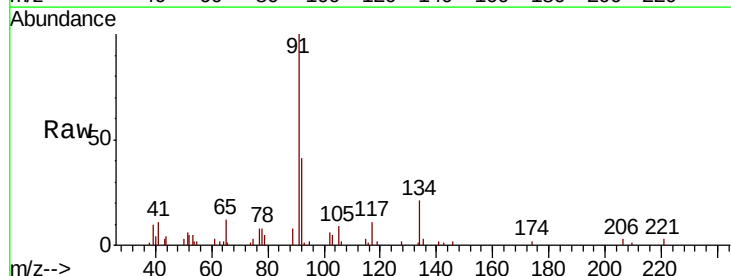
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.240 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 12 Apr 2022 18:26

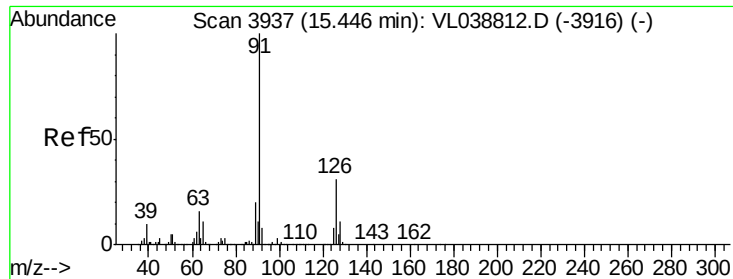
Tot Ion:	95	Resp:	1840071
Ion	Ratio	Lower	Upper
95	100		
174	64.6	52.0	78.0
175	4.6	4.0	6.0



#70
 n-Butylbenzene
 Concen: 0.041 ppbv
 RT: 18.54 min Scan# 4899
 Delta R.T. -0.00 min
 Lab File: VL038897.D
 Acq: 12 Apr 2022 18:26

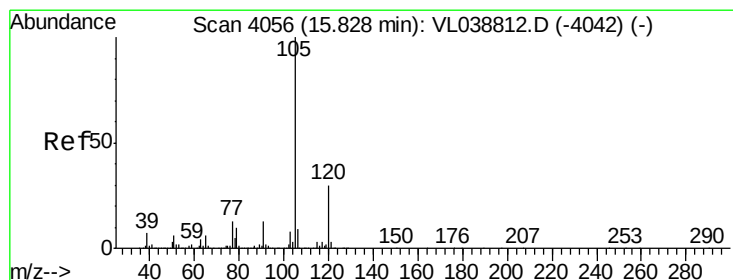
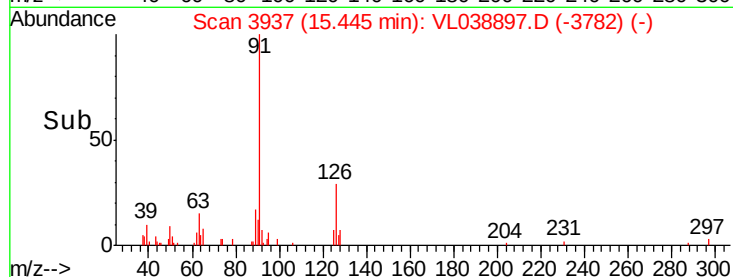
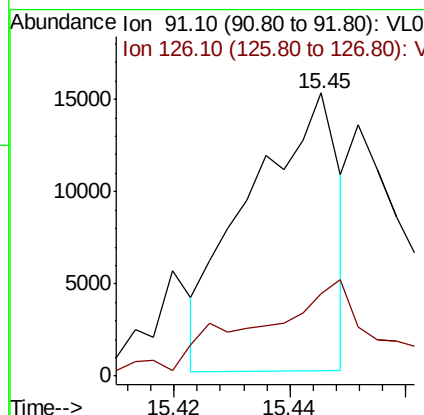
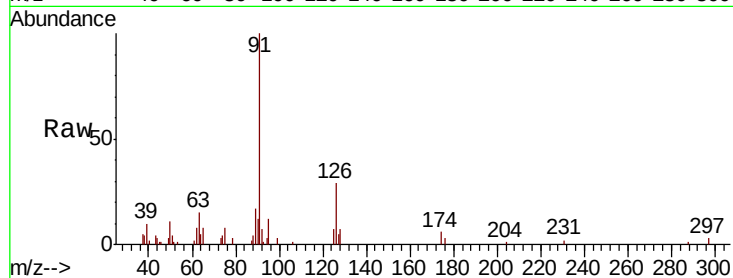
Tgt Ion:	91	Resp:	17527
Ion	Ratio	Lower	Upper
91	100		
92	122.8	44.6	66.8#
134	0.0	19.2	28.8#





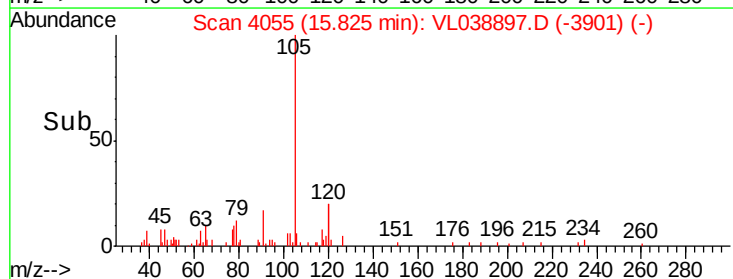
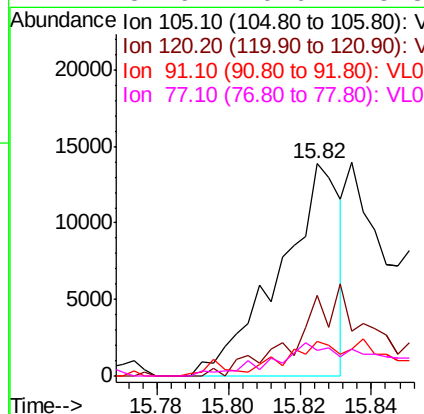
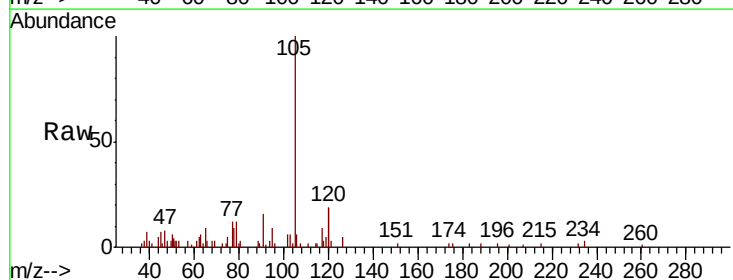
#71
 2-Chlorotoluene
 Concen: 0.052 ppbv
 RT: 15.45
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 12 Apr 2022 18:26

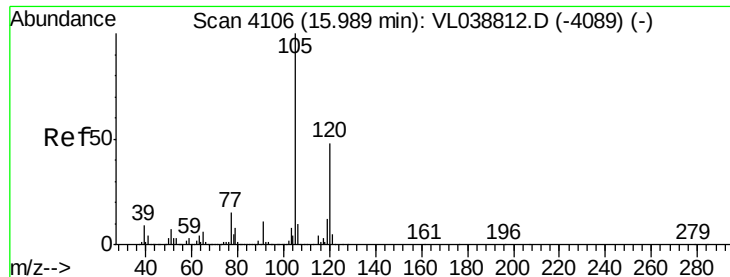
Tot Ion: 91 Resp: 16191
 Ion Ratio Lower Upper
 91 100
 126 0.0 13.0 51.8#



#72
 4-Ethyltoluene
 Concen: 0.049 ppbv
 RT: 15.82 min Scan# 4055
 Delta R.T. -0.00 min
 Lab File: VL038897.D
 Acq: 12 Apr 2022 18:26

Tgt Ion:105 Resp: 16336
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.3 36.5#
 91 0.0 9.4 14.2#
 77 31.6 10.6 15.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.052 ppbv

RT: 15.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

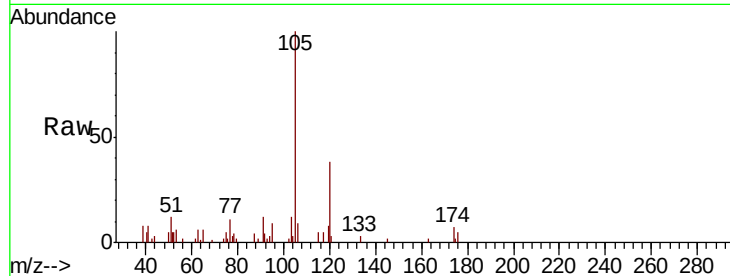
Acq: 12 Apr 2022 18:26 MDL 0.1 NAPHT.

Tot Ion:105 Resp: 15450

Ion Ratio Lower Upper

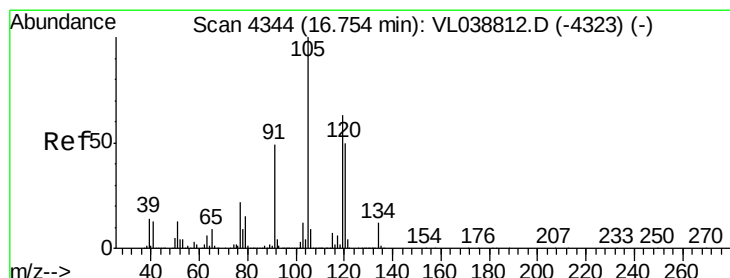
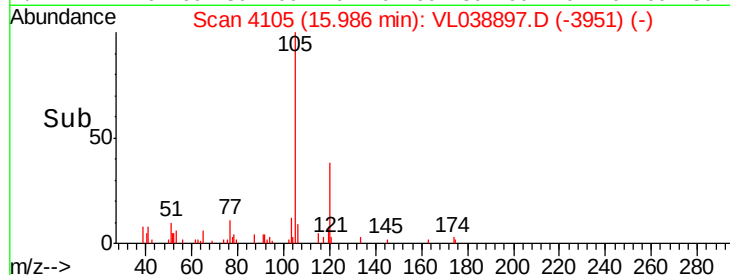
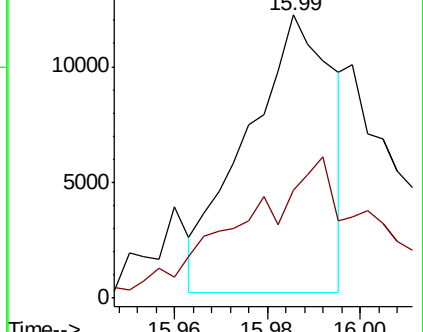
105 100

120 33.9 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: 0.035 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. -0.01 min

Lab File: VL038897.D

Acq: 12 Apr 2022 18:26

Tgt Ion:105 Resp: 11200

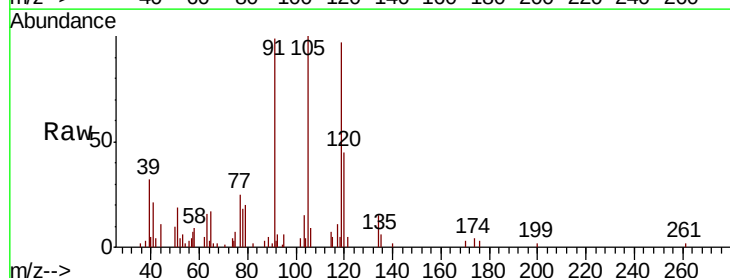
Ion Ratio Lower Upper

105 100

120 40.7 39.8 59.8

91 55.7 39.4 59.0

77 17.7 17.3 25.9

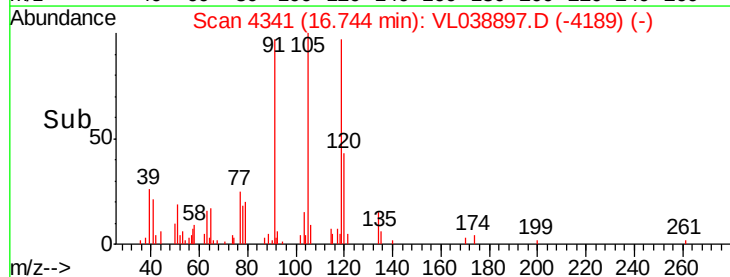
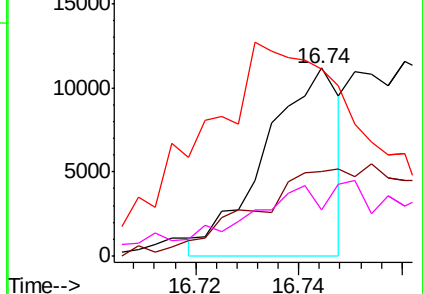


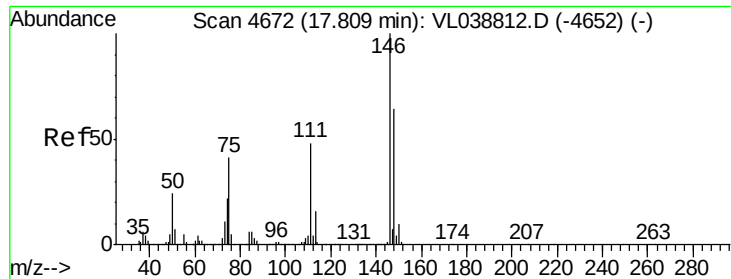
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

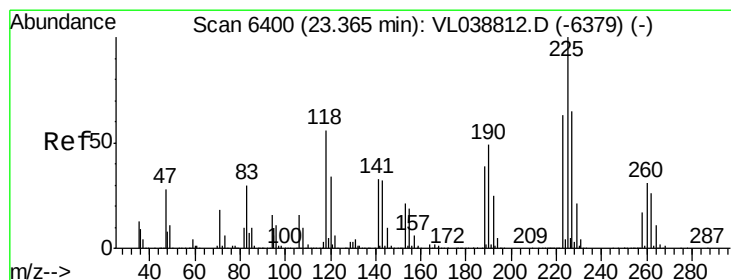
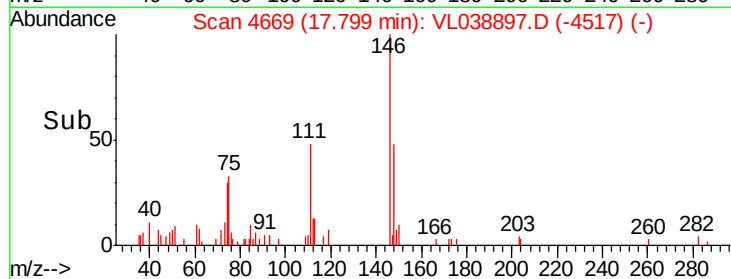
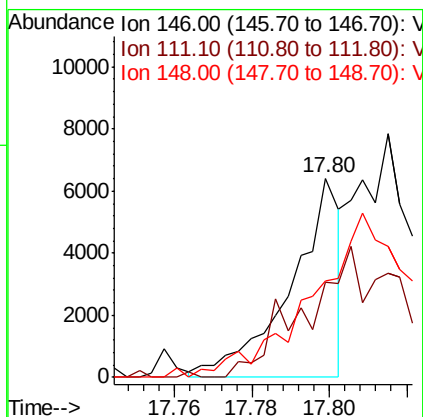
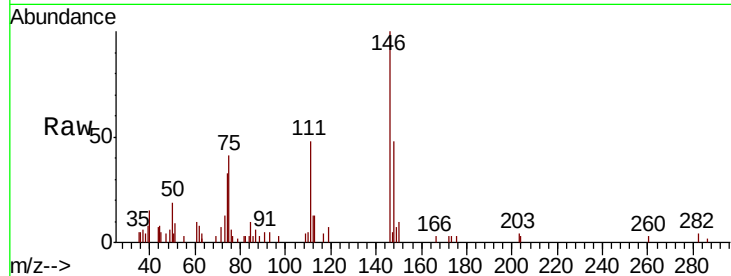
Ion 77.10 (76.80 to 77.80): VL0





#77
 1,2-Dichlorobenzene
 Concen: 0.031 ppbv
 RT: 17.80 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MDL 0.1 NAPHT.
 Acq: 12 Apr 2022 18:26

Tot Ion:146 Resp: 5660
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.8 74.3#
 148 0.0 31.9 95.7#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.089 ppbv
 RT: 23.36 min Scan# 6400
 Delta R.T. -0.00 min
 Lab File: VL038897.D
 Acq: 12 Apr 2022 18:26

Tgt Ion:225 Resp: 12700
 Ion Ratio Lower Upper
 225 100
 223 89.7 51.6 77.4#
 227 96.3 52.3 78.5#

