

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038924.D
 Acq On : 14 Apr 2022 18:46
 Operator : SY/AP
 Sample : MDL 0.1 NAPHT.
 Misc : 400mL/MSVOA L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 MDL 0.1 NAPHT.

Quant Time: Apr 15 08:07:14 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1064940	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	2577361	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2212437	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1887521	11.25	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	13660	0.090 ppbv	93
3) Chlorodifluoromethane	3.00	51	17843	0.137 ppbv	96
4) Chloromethane	3.15	50	4687	0.070 ppbv #	82
5) Vinyl Chloride	3.27	62	6284	0.101 ppbv #	88
6) Bromomethane	3.48	94	2505	0.083 ppbv	92
7) Chloroethane	3.57	64	792	0.038 ppbv #	70
8) Dichlorotetrafluoroethane	3.20	85	11681	0.083 ppbv #	56
9) Propene	3.02	41	5410	0.079 ppbv #	20
11) Trichlorofluoromethane	3.96	101	17605	0.145 ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.49	101	7084	0.076 ppbv #	12
13) Ethanol	3.63	45	212	0.051 ppbv #	100
14) Bromoethene	3.75	108	2475	0.061 ppbv #	1
16) 1,3-Butadiene	3.34	39	1868	0.031 ppbv #	1
18) 1,1-Dichloroethene	4.30	96	3295	0.078 ppbv #	80
20) Methylene Chloride	4.35	84	8178	0.213 ppbv #	89
21) Allyl Chloride	4.42	41	7185	0.091 ppbv #	64
22) trans-1,2-Dichloroethene	4.90	96	2310	0.054 ppbv #	52
23) Vinyl Acetate	5.09	43	6445	0.062 ppbv #	83
24) 1,1-Dichloroethane	5.02	63	5478	0.059 ppbv #	83
25) Ethyl Acetate	5.70	43	20606	0.077 ppbv #	84
26) Hexane	5.69	57	8727	0.071 ppbv #	1
28) Methyl tert-Butyl Ether	5.07	73	8539	0.090 ppbv #	51
29) Chloroform	5.76	83	21035	0.123 ppbv	92
30) Cyclohexane	7.14	84	3365	0.031 ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	10975	0.097 ppbv #	83
32) 1,1,1-Trichloroethane	6.53	97	8067	0.047 ppbv #	1
35) Carbon Tetrachloride	7.04	117	5196	0.034 ppbv	98
37) 1,2-Dichloroethane	6.31	62	5033	0.047 ppbv #	79
38) Trichloroethene	7.85	130	4198	0.044 ppbv #	49
39) 1,2-Dichloropropane	7.19	63	728539	8.124 ppbv #	27
42) Bromodichloromethane	7.80	83	16647	0.098 ppbv	94
43) Methyl Methacrylate	8.02	69	4104	0.046 ppbv #	1
44) 2,2,4-Trimethylpentane	7.88	57	35806	0.090 ppbv #	88
47) 1,1,2-Trichloroethane	9.48	97	5772	0.063 ppbv #	52
48) Dibromochloromethane	10.31	129	4904	0.034 ppbv #	1
49) Bromoform	13.05	173	4603	0.040 ppbv #	22
56) 1,1,1,2-Tetrachloroethane	12.13	131	4023	0.041 ppbv #	6
57) Chlorobenzene	12.16	112	17645	0.097 ppbv	90
58) Ethyl Benzene	12.72	91	29705	0.090 ppbv	98
59) m/p-Xylene	13.01	91	8823	0.032 ppbv #	1
65) tert-Butylbenzene	16.76	119	14496	0.042 ppbv #	20

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QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration

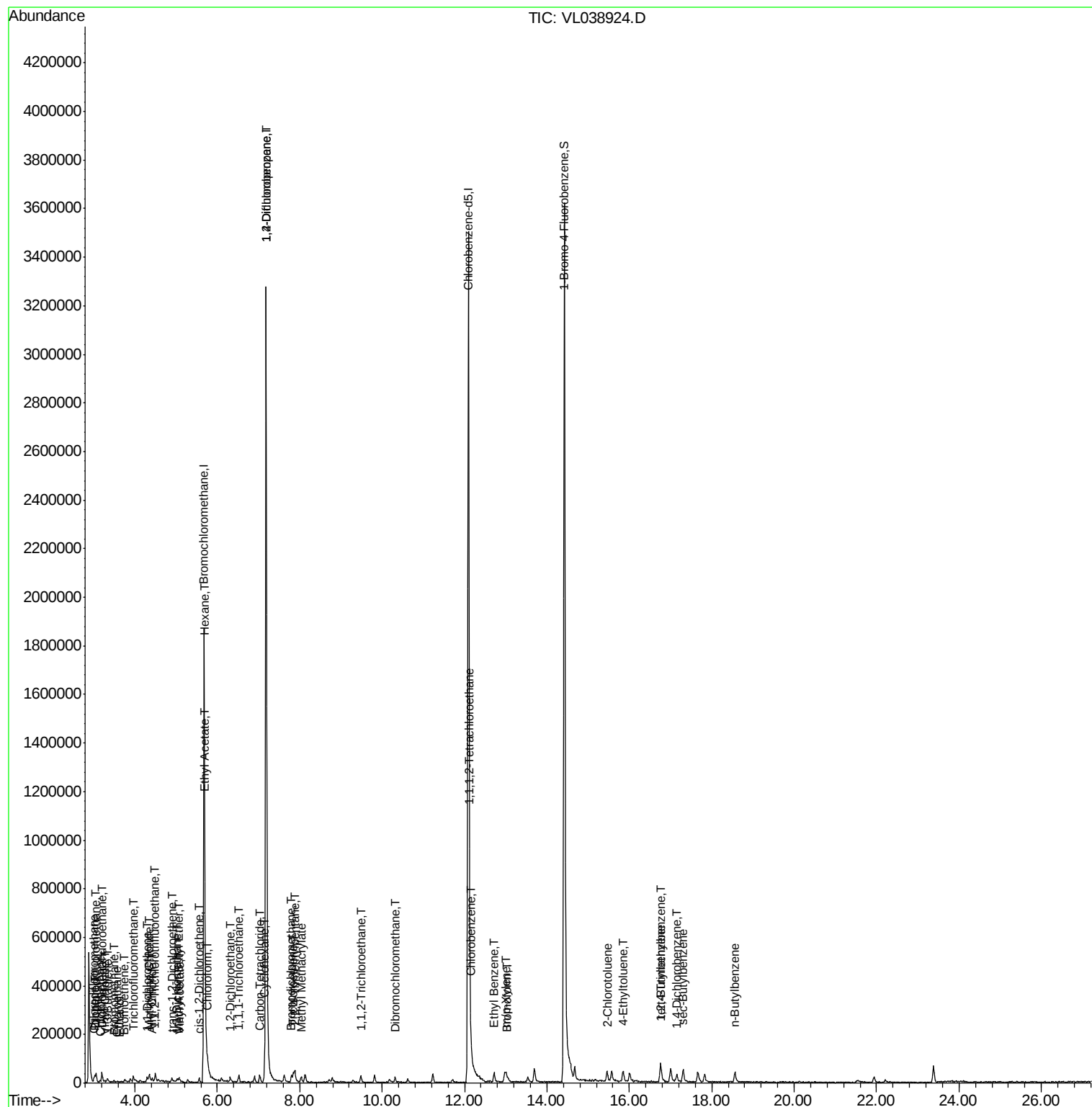
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) sec-Butylbenzene	17.31	105	24547	0.051	ppbv #	69
70) n-Butylbenzene	18.57	91	15713	0.039	ppbv #	34
71) 2-Chlorotoluene	15.47	91	12647	0.043	ppbv #	42
72) 4-Ethyltoluene	15.85	105	13455	0.043	ppbv #	44
74) 1,2,4-Trimethylbenzene	16.78	105	10205	0.035	ppbv	97
76) 1,4-Dichlorobenzene	17.15	146	6508	0.039	ppbv #	22

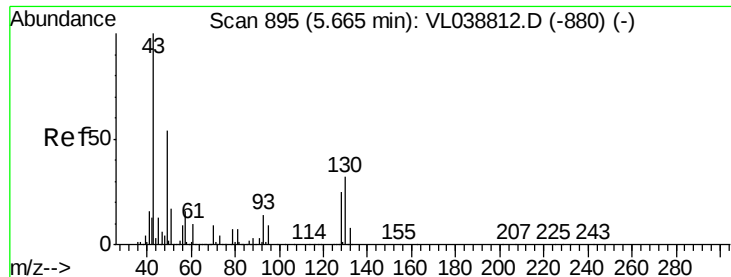
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 14 Apr 2022 18:40 MDL 0.1 NAPHT.

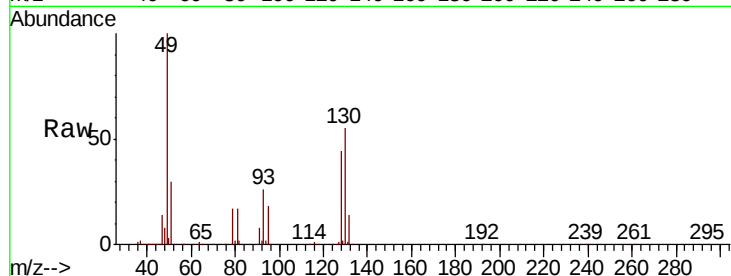
Tot Ion: 49 Resp: 1064940

Ion Ratio Lower Upper

49 100

128 47.6 24.1 72.3

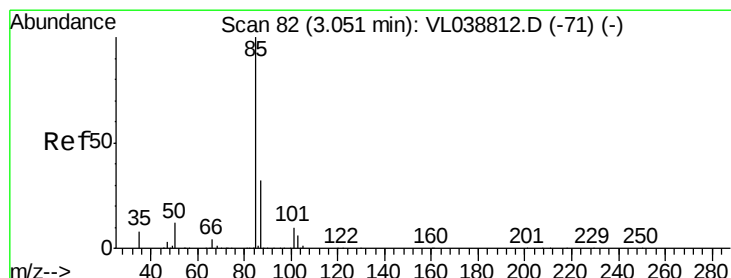
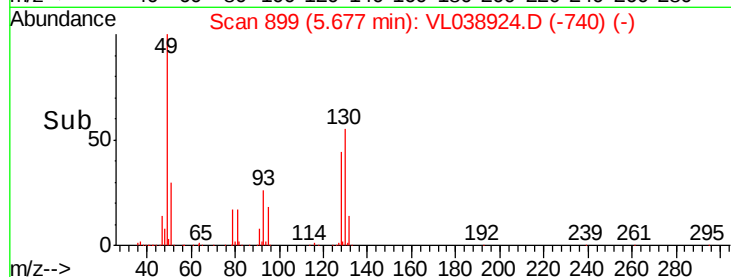
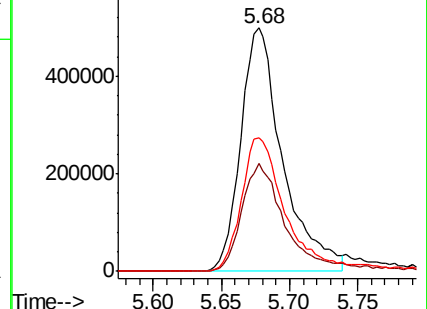
130 60.5 30.9 92.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.090 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL038924.D

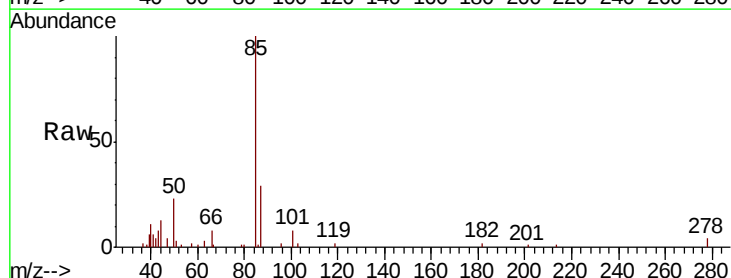
Acq: 14 Apr 2022 18:46

Tgt Ion: 85 Resp: 13660

Ion Ratio Lower Upper

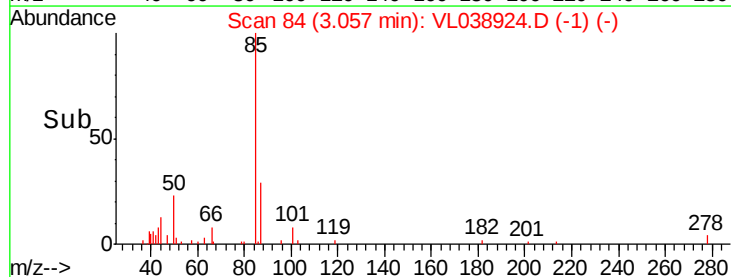
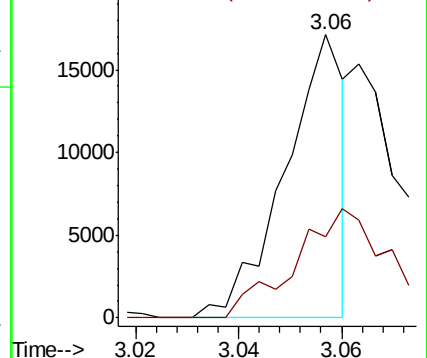
85 100

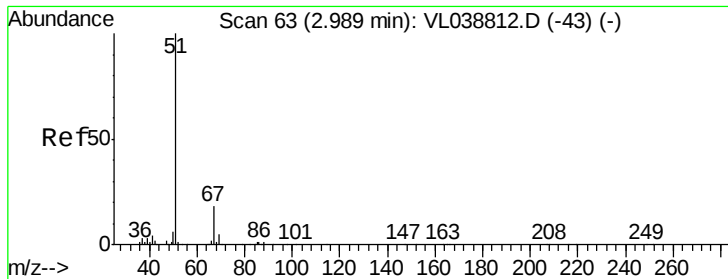
87 28.7 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.137 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

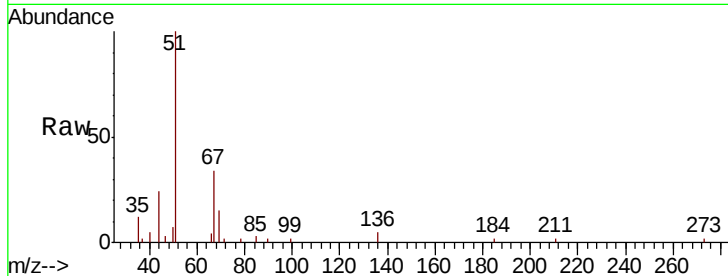
Acq: 14 Apr 2022 18:40 MDL 0.1 NAPHT.

Tot Ion: 51 Resp: 17843

Ion Ratio Lower Upper

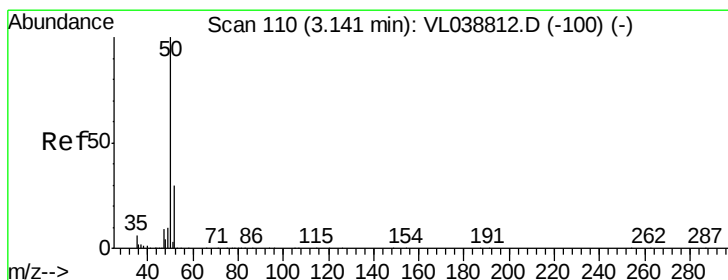
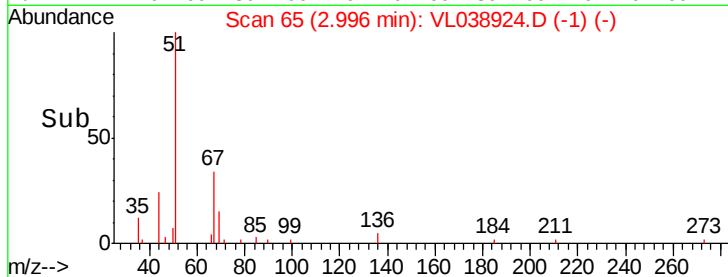
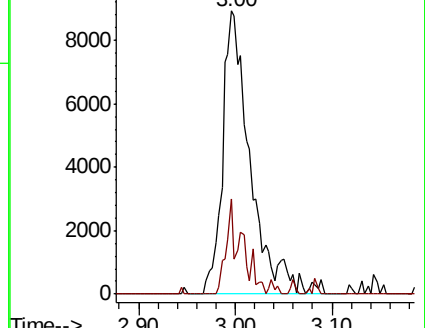
51 100

67 18.6 13.4 20.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.070 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL038924.D

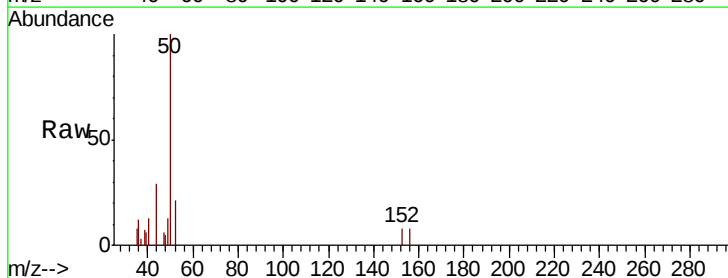
Acq: 14 Apr 2022 18:46

Tgt Ion: 50 Resp: 4687

Ion Ratio Lower Upper

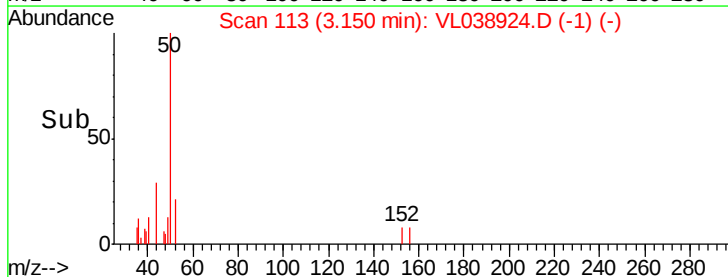
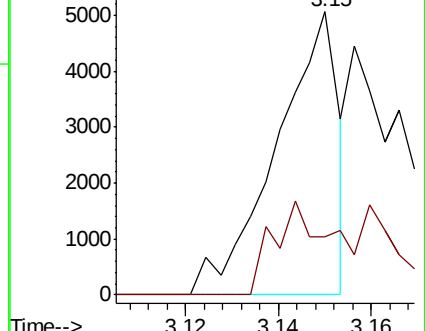
50 100

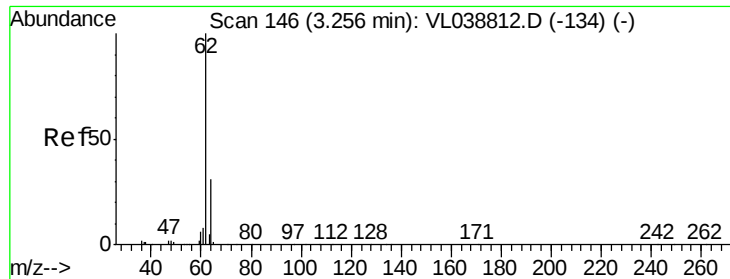
52 20.6 24.3 36.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.101 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

MDL 0.1 NAPHT.

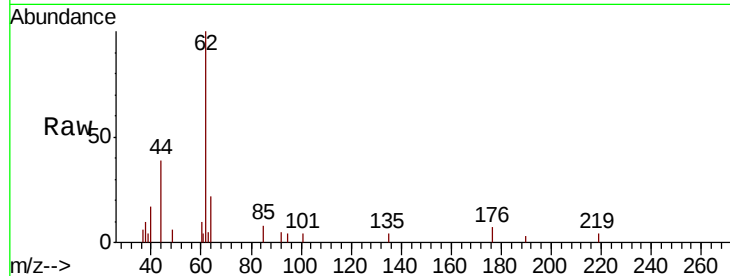
Acq: 14 Apr 2022 18:48

Tot Ion: 62 Resp: 6284

Ion Ratio Lower Upper

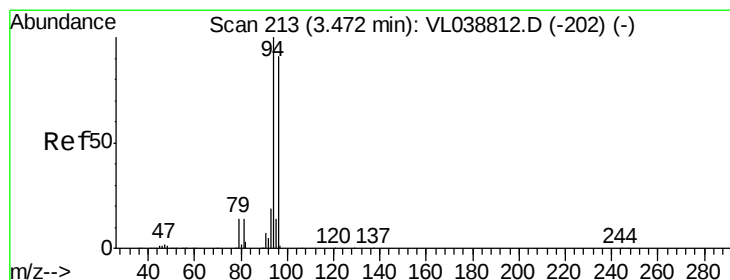
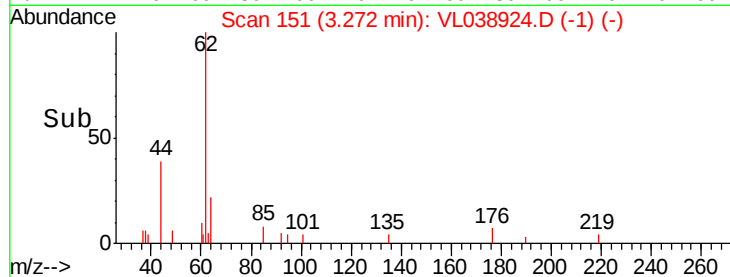
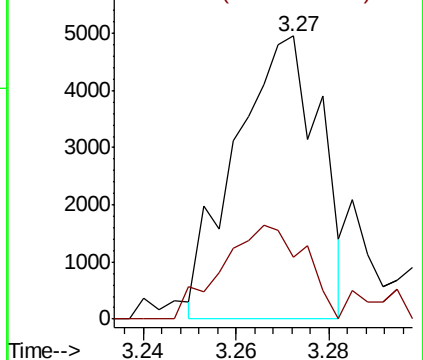
62 100

64 24.5 24.6 37.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.083 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.01 min

Lab File: VL038924.D

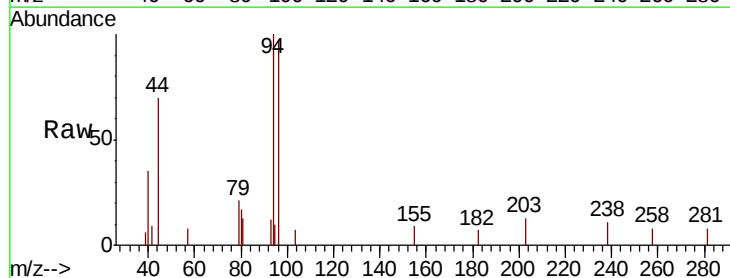
Acq: 14 Apr 2022 18:46

Tgt Ion: 94 Resp: 2505

Ion Ratio Lower Upper

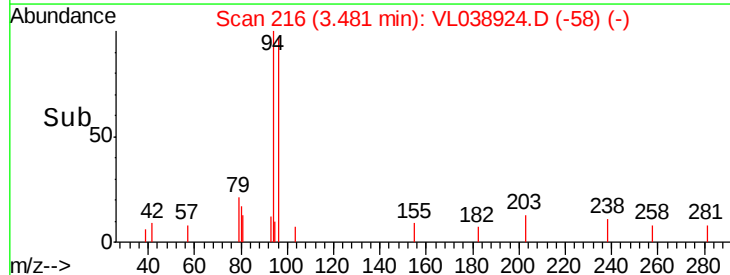
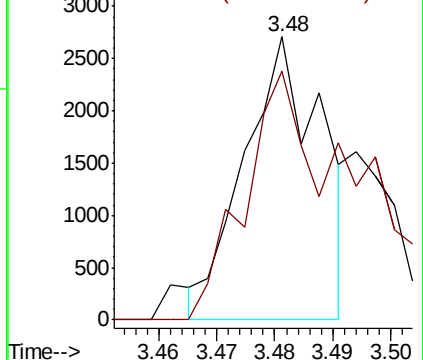
94 100

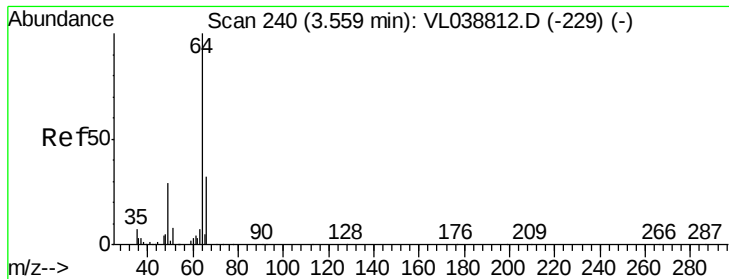
96 99.6 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.038 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

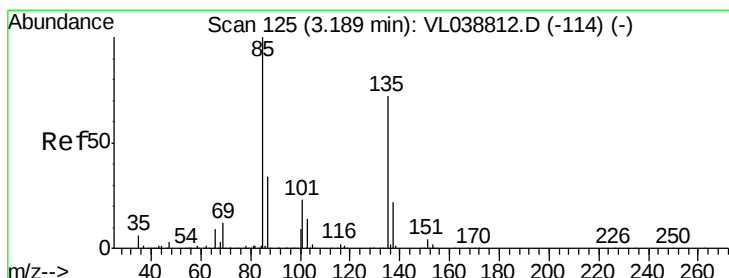
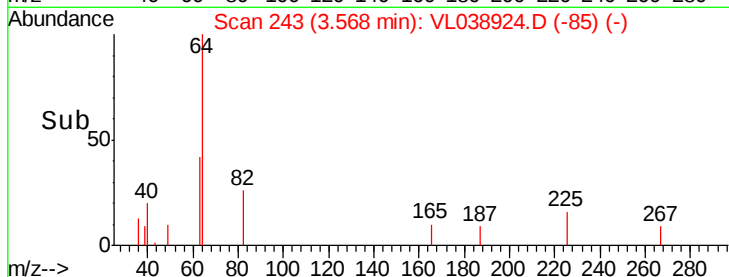
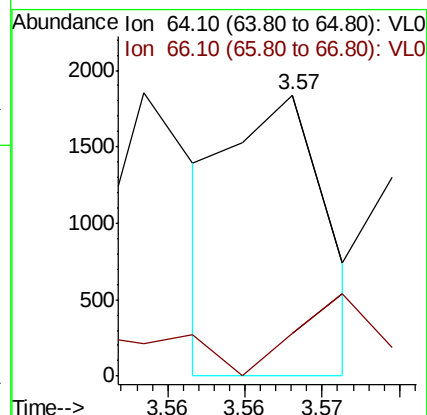
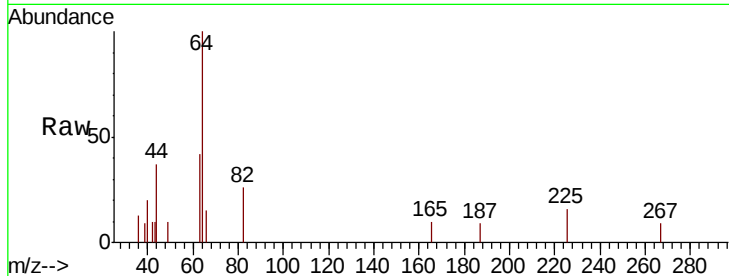
Acq: 14 Apr 2022 18:40 MDL 0.1 NAPHT.

Tot Ion: 64 Resp: 792

Ion Ratio Lower Upper

64 100

66 15.2 25.4 38.2#



#8

Dichlorotetrafluoroethane

Concen: 0.083 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.01 min

Lab File: VL038924.D

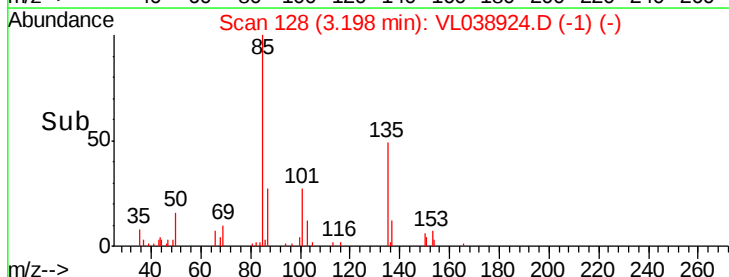
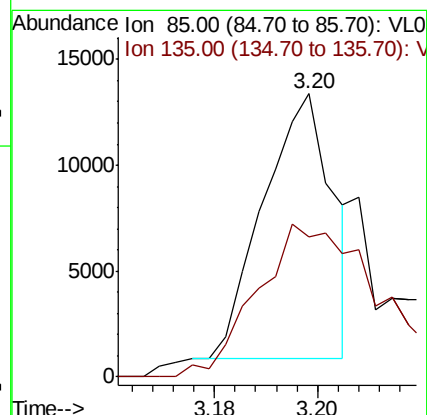
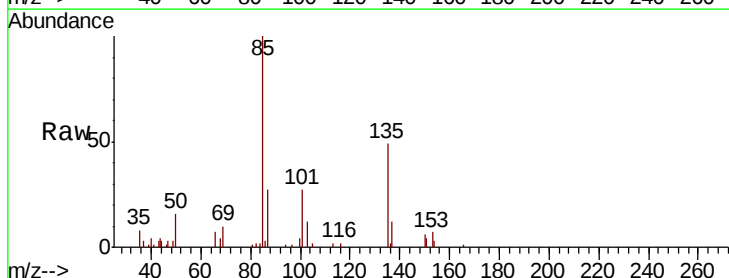
Acq: 14 Apr 2022 18:46

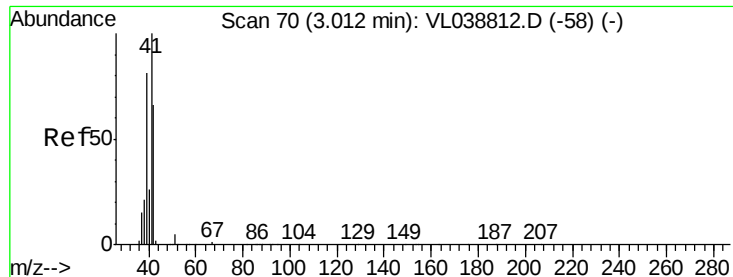
Tgt Ion: 85 Resp: 11681

Ion Ratio Lower Upper

85 100

135 107.9 57.0 85.6#





#9

Propene

Concen: 0.079 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

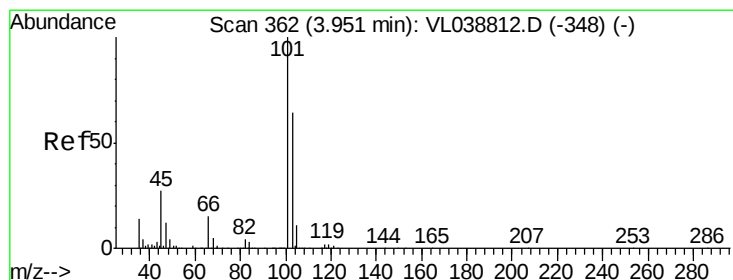
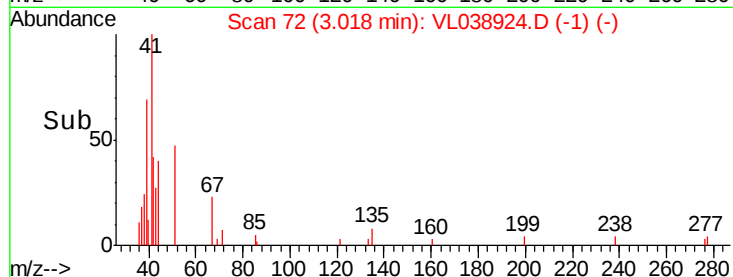
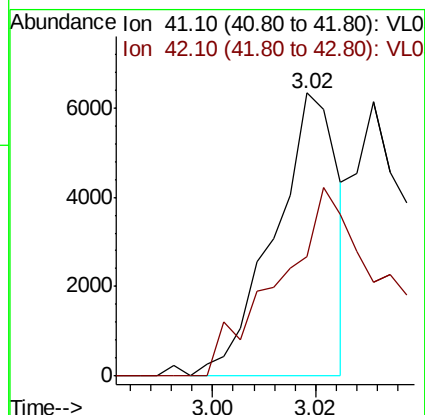
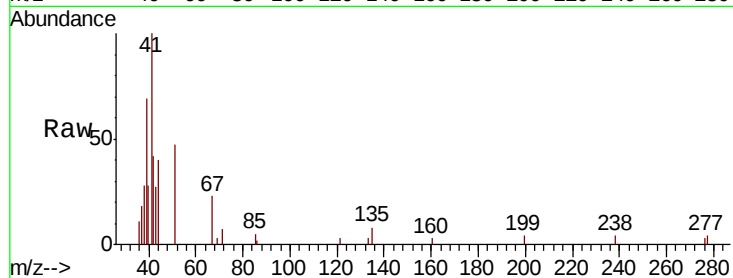
Acq: 14 Apr 2022 18:40 MDL 0.1 NAPHT.

Tot Ion: 41 Resp: 5410

Ion Ratio Lower Upper

41 100

42 132.0 54.2 81.4#



#11

Trichlorofluoromethane

Concen: 0.145 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL038924.D

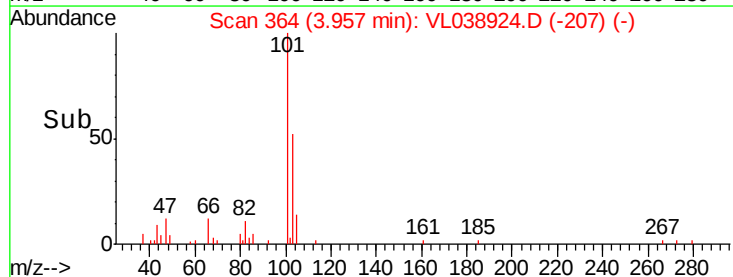
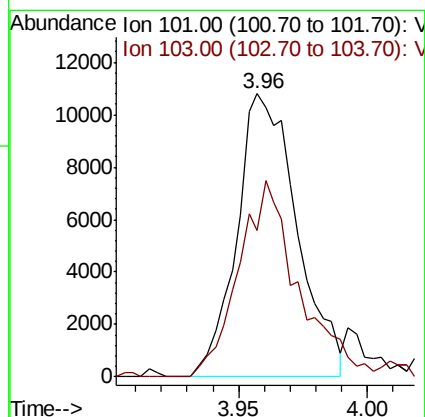
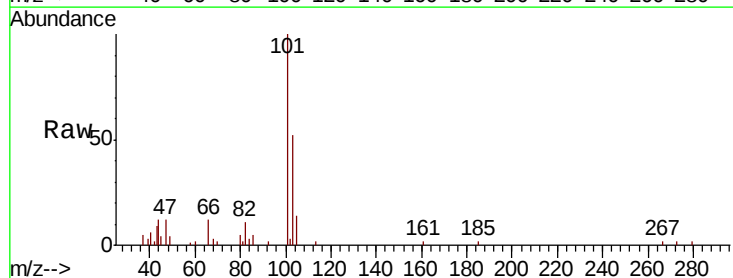
Acq: 14 Apr 2022 18:46

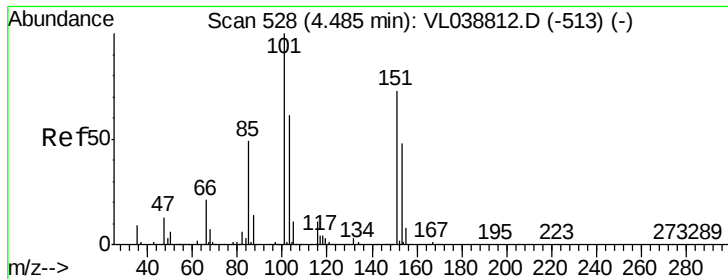
Tgt Ion: 101 Resp: 17605

Ion Ratio Lower Upper

101 100

103 51.9 51.4 77.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.076 ppbv

RT: 4.49 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

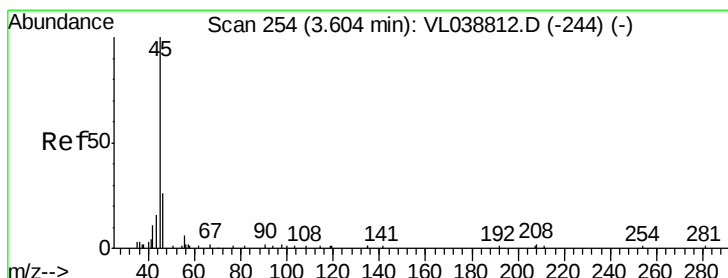
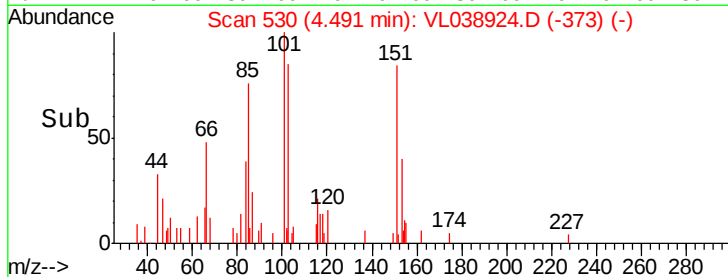
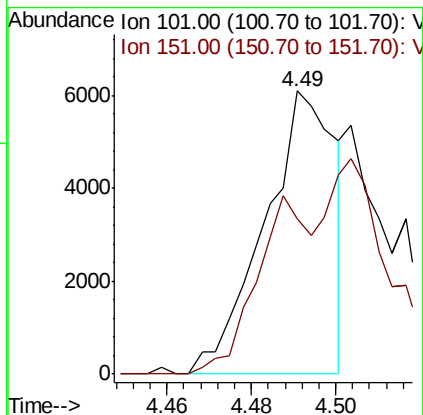
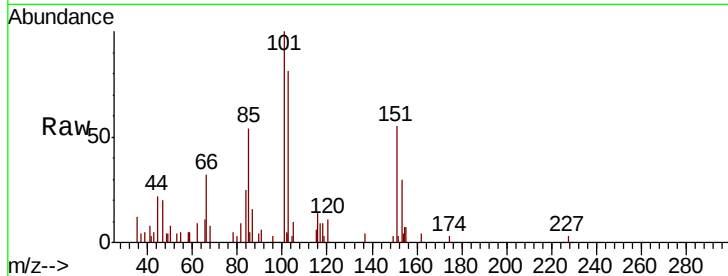
Acq: 14 Apr 2022 18:48 MDL 0.1 NAPHT.

Tot Ion:101 Resp: 7084

Ion Ratio Lower Upper

101 100

151 0.0 59.9 89.9#



#13

Ethanol

Concen: 0.051 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL038924.D

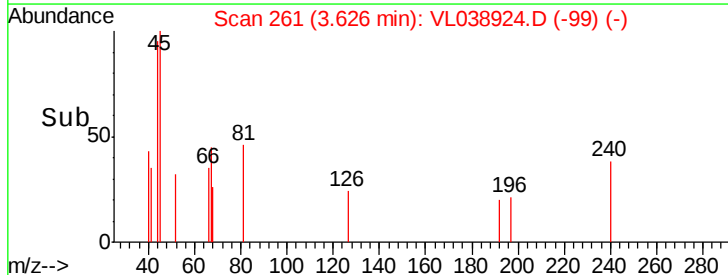
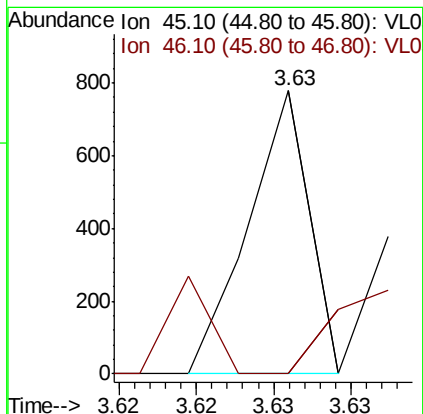
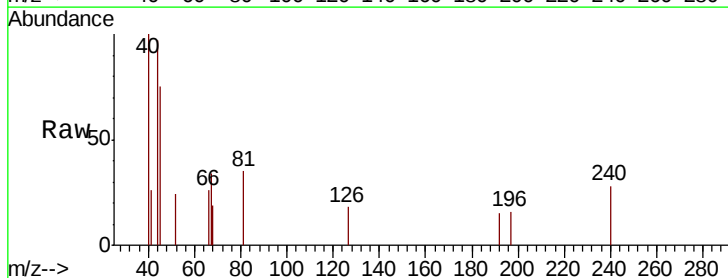
Acq: 14 Apr 2022 18:46

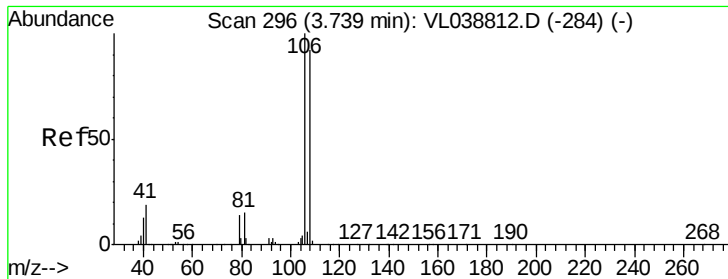
Tgt Ion: 45 Resp: 212

Ion Ratio Lower Upper

45 100

46 0.0 0.0 0.0





#14

Bromoethene

Concen: 0.061 ppbv

RT: 3.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 18:46 MDL 0.1 NAPHT.

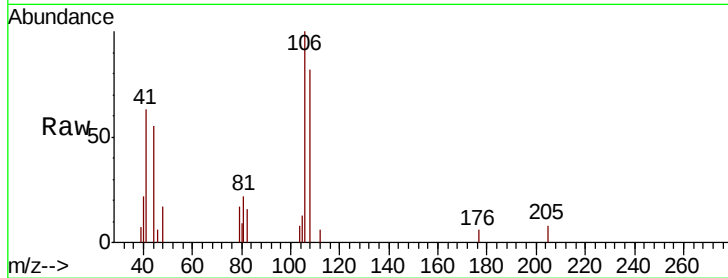
Tot Ion: 108 Resp: 2475

Ion Ratio Lower Upper

108 100

106 265.8 91.5 137.3#

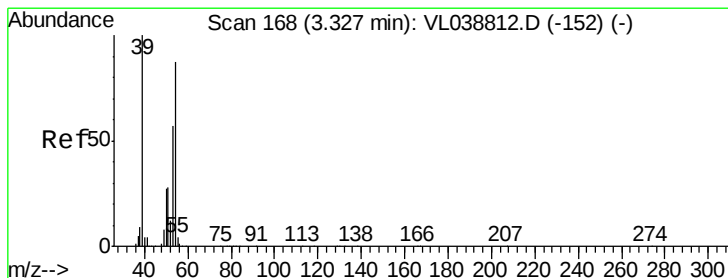
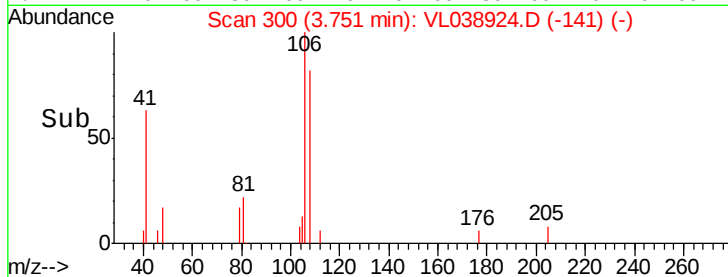
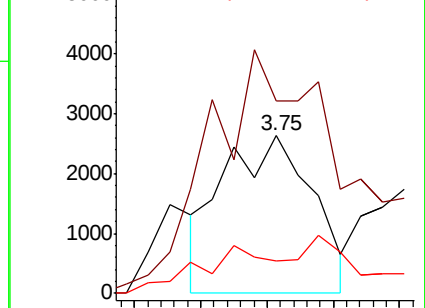
79 76.8 13.7 20.5#



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): VL0



#16

1,3-Butadiene

Concen: 0.031 ppbv

RT: 3.34 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL038924.D

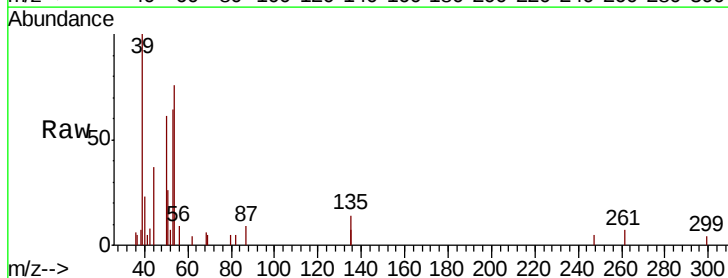
Acq: 14 Apr 2022 18:46

Tgt Ion: 39 Resp: 1868

Ion Ratio Lower Upper

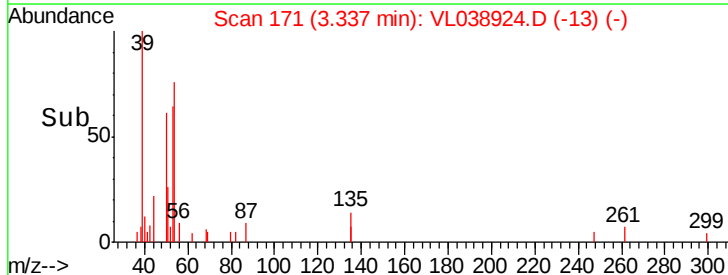
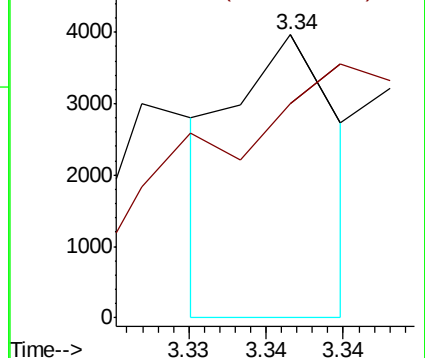
39 100

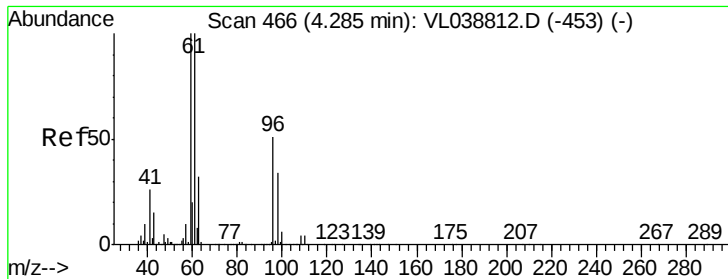
54 361.6 64.8 97.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

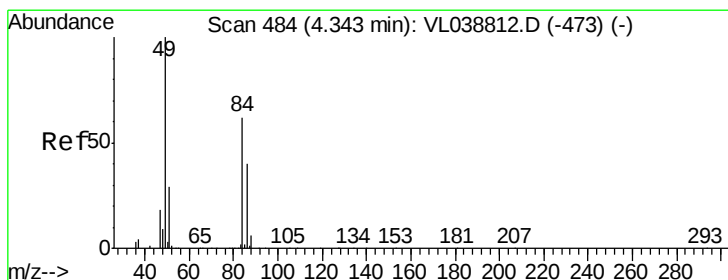
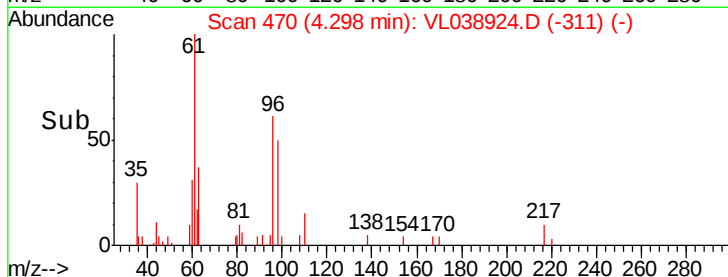
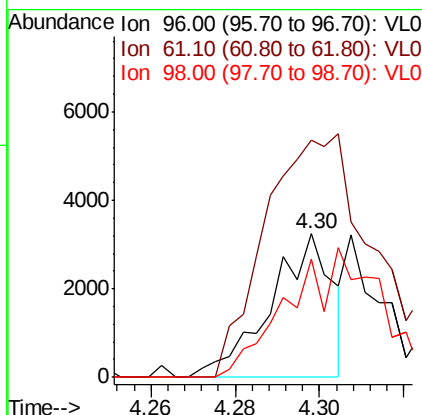
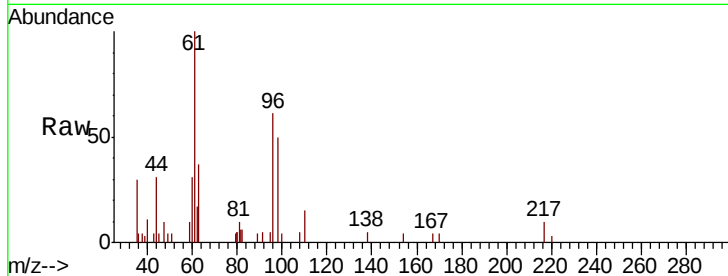
Ion 54.10 (53.80 to 54.80): VL0





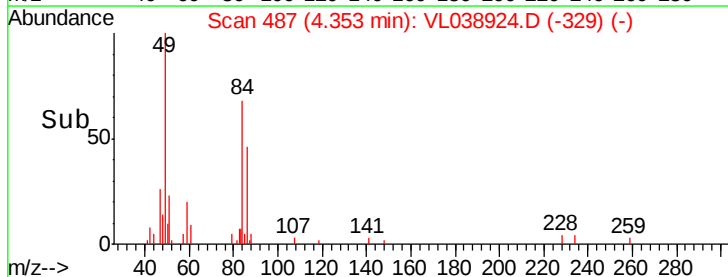
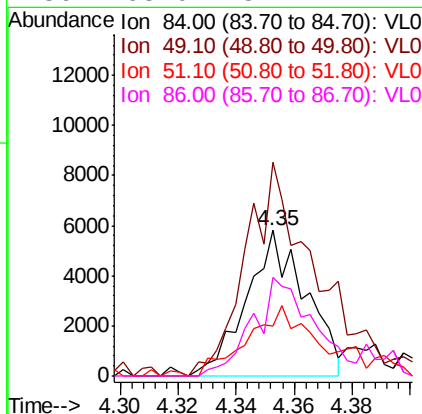
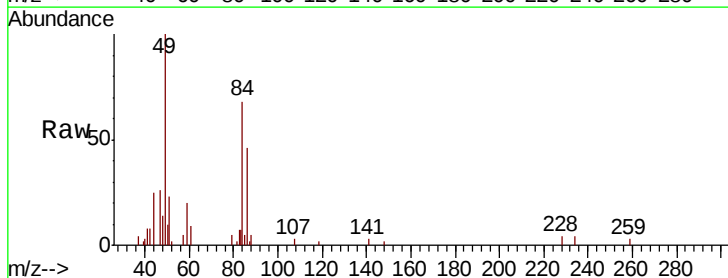
#18
 1,1-Dichloroethene
 Concen: 0.078 ppbv
 RT: 4.30 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 14 Apr 2022 18:46

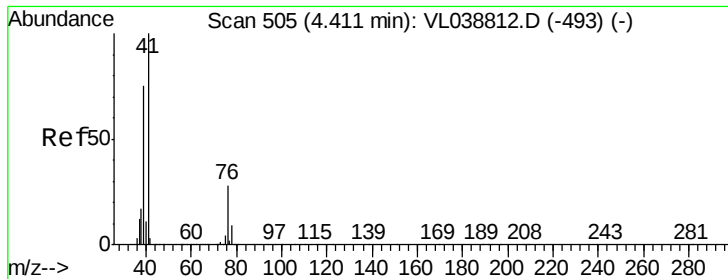
Tot Ion: 96 Resp: 3295
 Ion Ratio Lower Upper
 96 100
 61 165.1 156.1 234.1
 98 81.9 53.0 79.6#



#20
 Methylene Chloride
 Concen: 0.213 ppbv
 RT: 4.35 min Scan# 487
 Delta R.T. 0.01 min
 Lab File: VL038924.D
 Acq: 14 Apr 2022 18:46

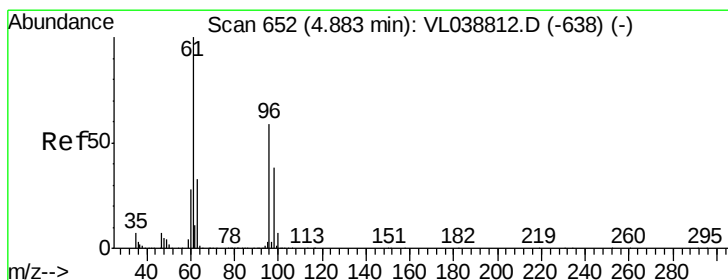
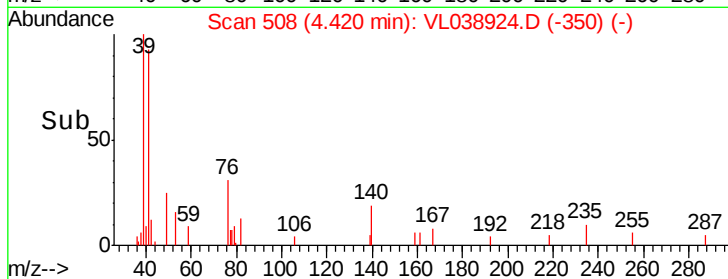
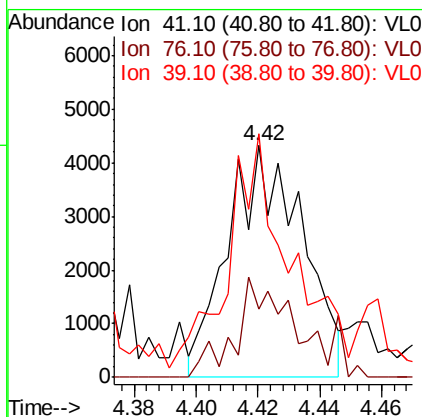
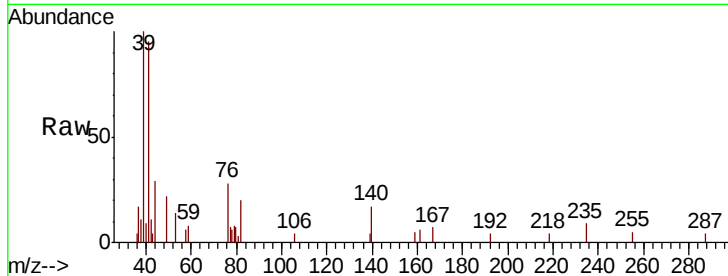
Tgt Ion: 84 Resp: 8178
 Ion Ratio Lower Upper
 84 100
 49 146.7 129.4 194.0
 51 34.2 37.4 56.2#
 86 68.0 51.4 77.2





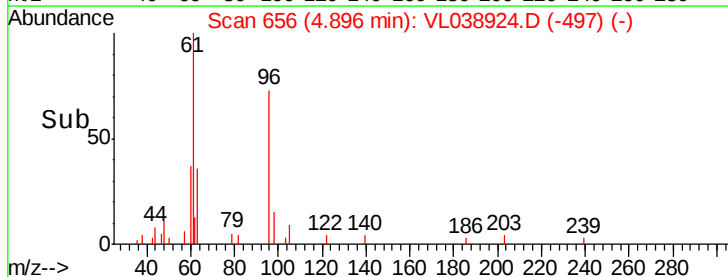
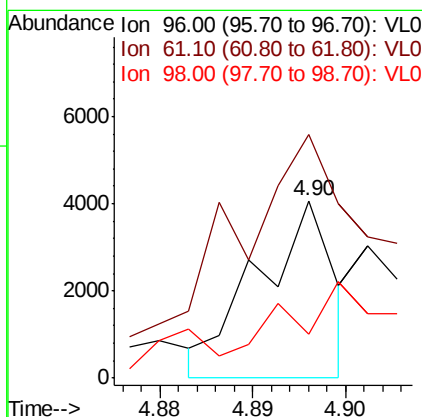
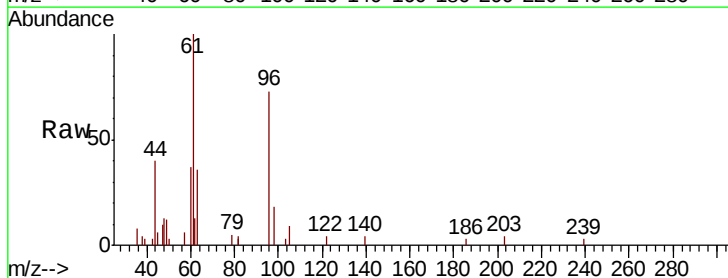
#21
 Allvl Chloride
 Concen: 0.091 ppbv
 RT: 4.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Apr 2022 18:46

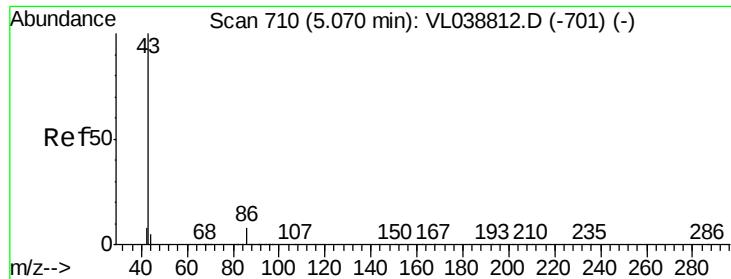
Tot Ion	Ratio	Lower	Upper
41	100		
76	36.1	23.7	35.5#
39	116.7	62.0	93.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.054 ppbv
 RT: 4.90 min Scan# 656
 Delta R.T. 0.01 min
 Lab File: VL038924.D
 Acq: 14 Apr 2022 18:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	120.5	134.8	202.2#
98	0.0	51.9	77.9#





#23

Vinyl Acetate

Concen: 0.062 ppbv

RT: 5.09 Instrument:

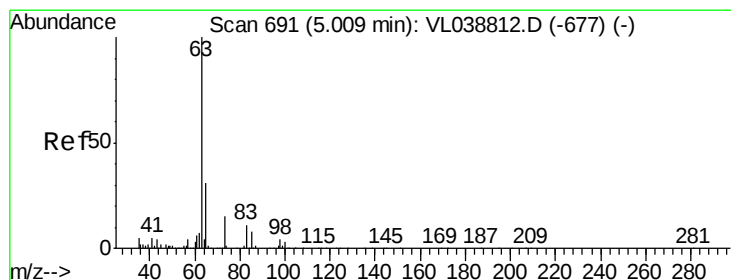
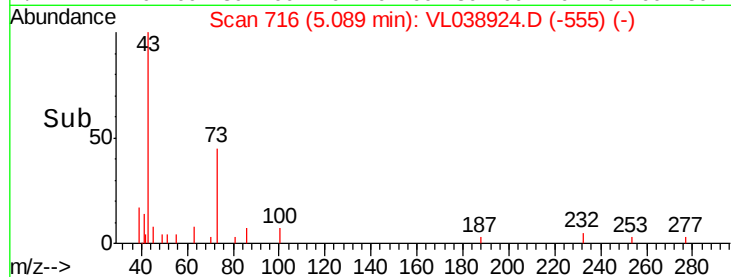
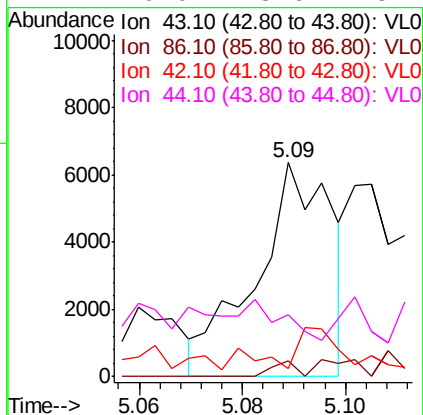
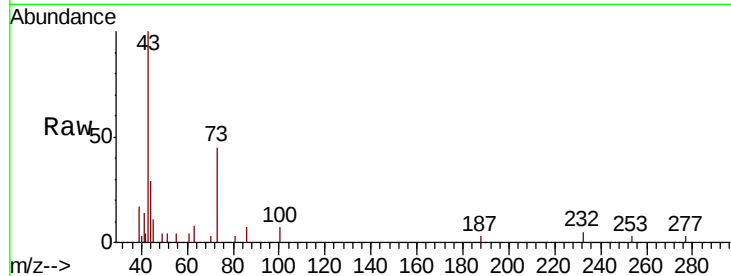
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 14 Apr 2022 18:40 MDL 0.1 NAPHT.

Tot Ion: 43 Resp: 6445

Ion	Ratio	Lower	Upper
43	100		
86	8.9	5.8	8.6#
42	0.0	7.8	11.6#
44	0.0	3.6	5.4#



#24

1,1-Dichloroethane

Concen: 0.059 ppbv

RT: 5.02 min Scan# 694

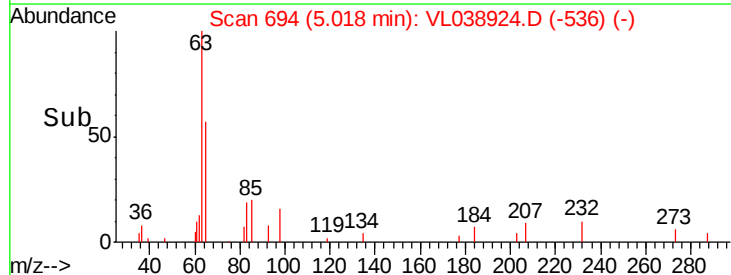
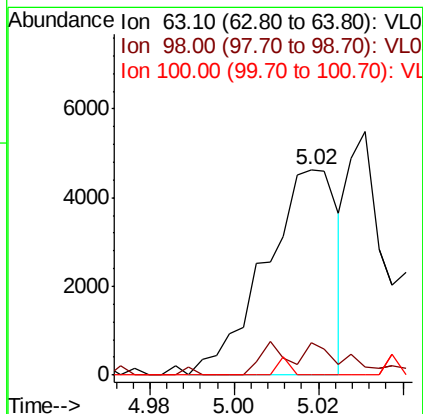
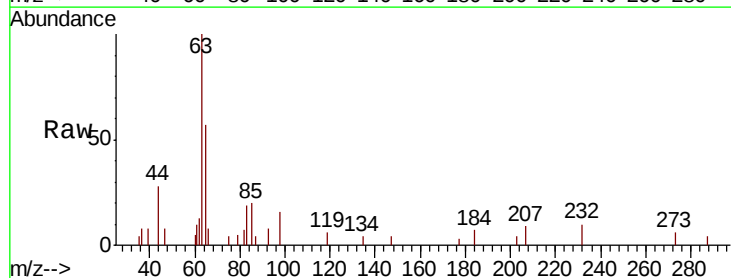
Delta R.T. 0.01 min

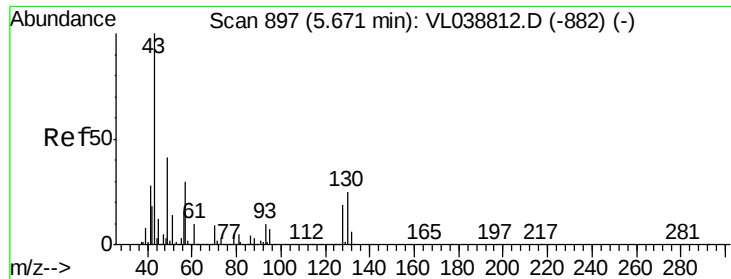
Lab File: VL038924.D

Acq: 14 Apr 2022 18:46

Tgt Ion: 63 Resp: 5478

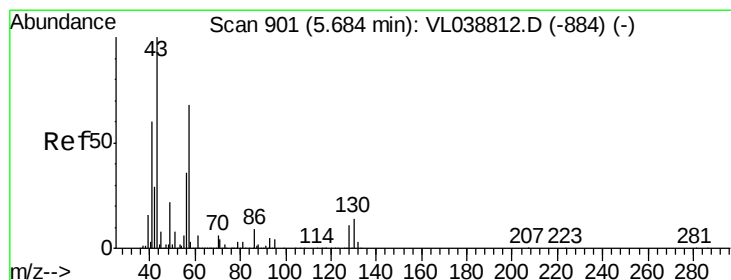
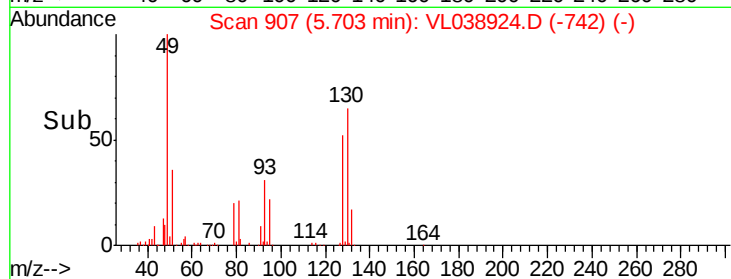
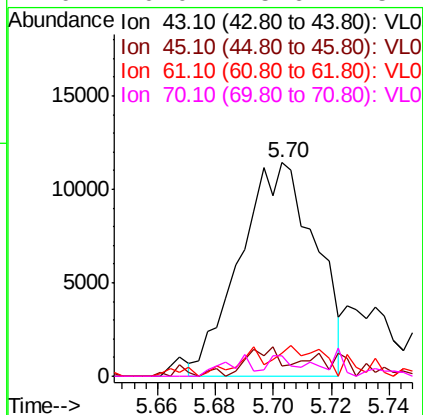
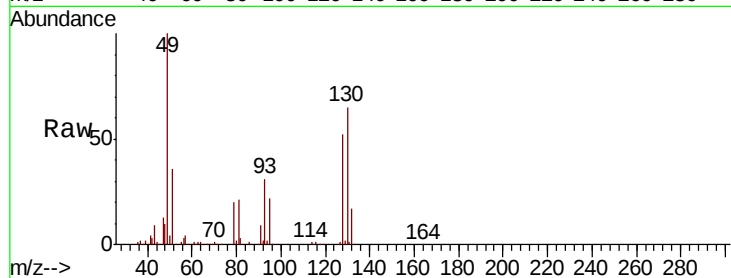
Ion	Ratio	Lower	Upper
63	100		
98	11.7	2.2	6.6#
100	0.0	1.4	4.0#





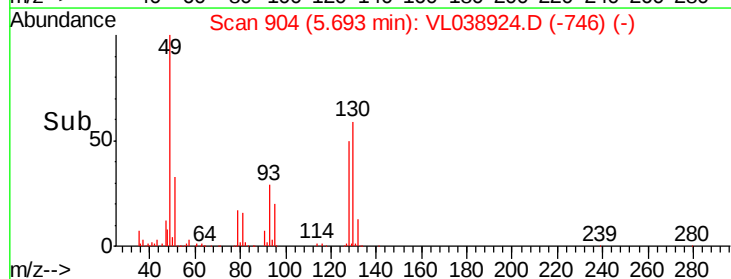
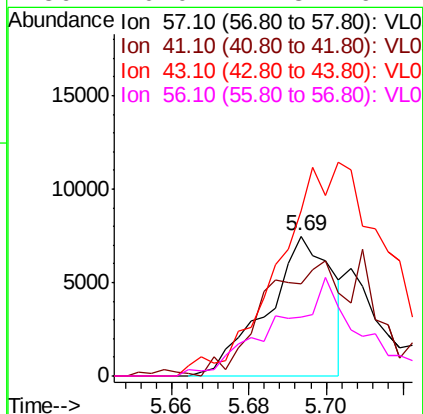
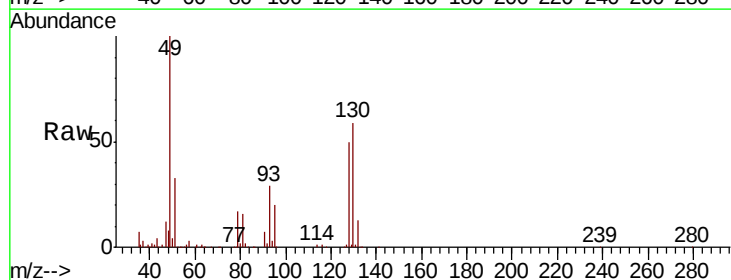
#25
Ethyl Acetate
Concen: 0.077 ppbv
RT: 5.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Apr 2022 18:48

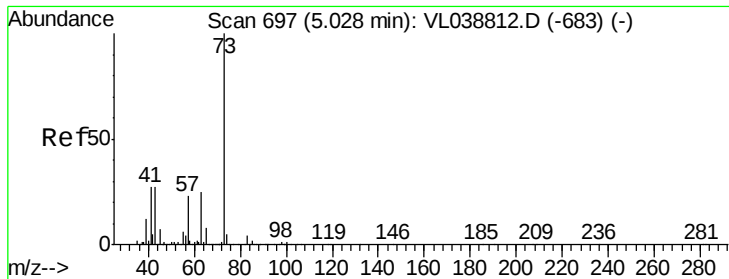
Tot Ion:	43	Resp:	20606
Ion	Ratio	Lower	Upper
43	100		
45	6.0	8.4	12.6#
61	16.5	7.9	11.9#
70	0.0	5.6	8.4#



#26
Hexane
Concen: 0.071 ppbv
RT: 5.69 min Scan# 904
Delta R.T.: 0.01 min
Lab File: VL038924.D
Acq: 14 Apr 2022 18:46

Tgt Ion:	57	Resp:	8727
Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.0	108.0#
43	0.0	186.6	280.0#
56	0.0	42.8	64.2#





#28

Methvl tert-Butvl Ether

Concen: 0.090 ppbv

RT: 5.07 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

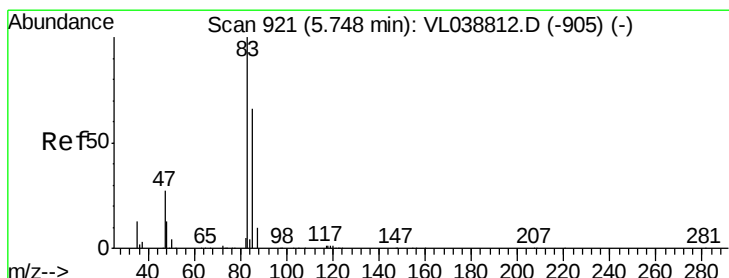
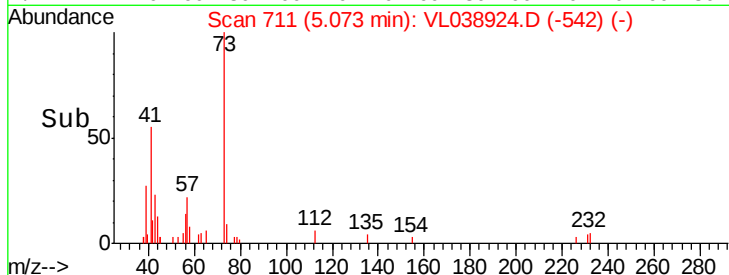
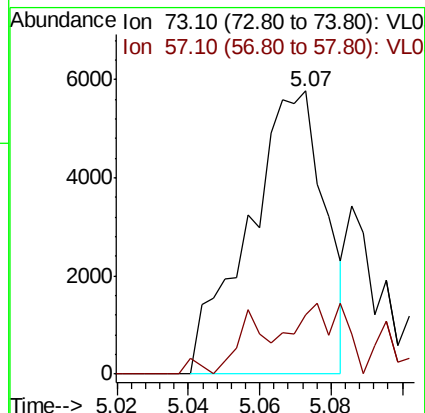
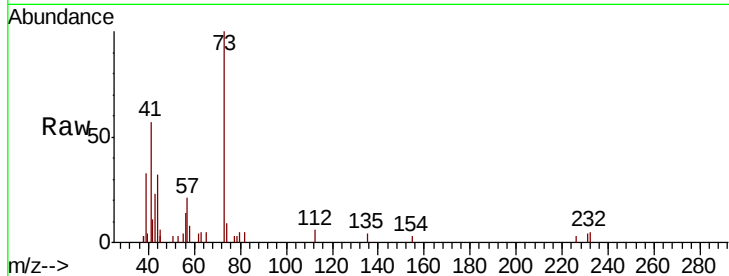
Acq: 14 Apr 2022 18:40 MDL 0.1 NAPHT.

Tot Ion: 73 Resp: 8539

Ion Ratio Lower Upper

73 100

57 0.0 19.7 29.5#



#29

Chloroform

Concen: 0.123 ppbv

RT: 5.76 min Scan# 925

Delta R.T. 0.01 min

Lab File: VL038924.D

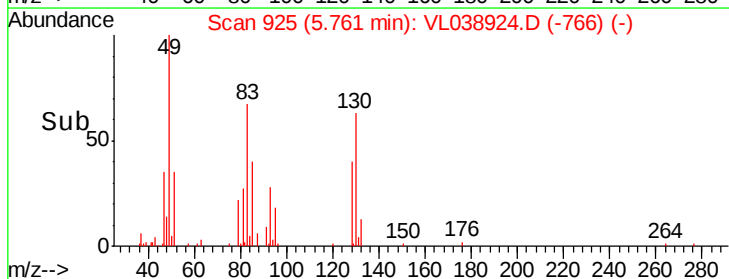
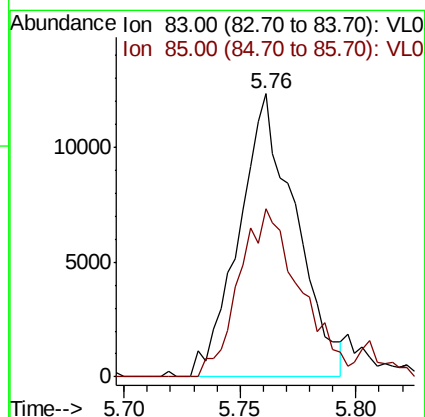
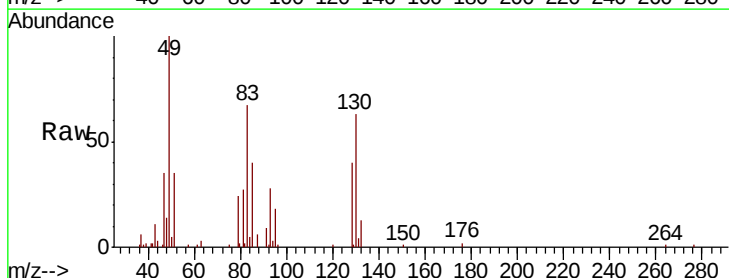
Acq: 14 Apr 2022 18:46

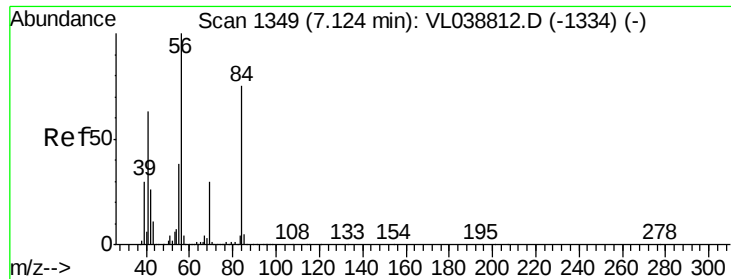
Tgt Ion: 83 Resp: 21035

Ion Ratio Lower Upper

83 100

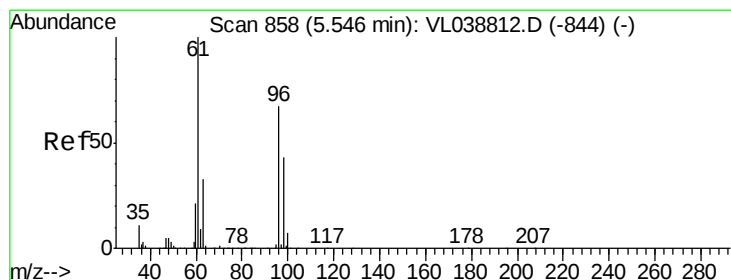
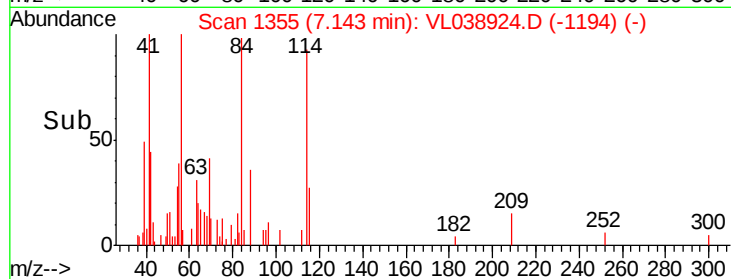
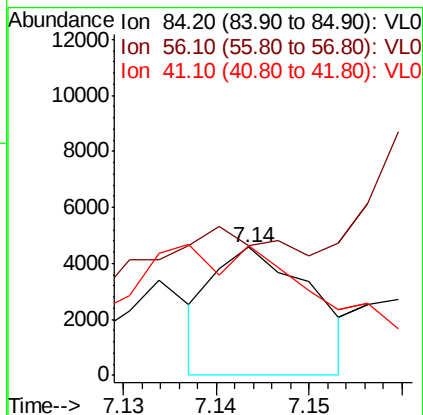
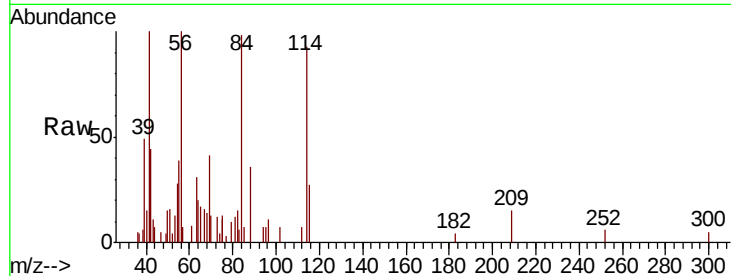
85 59.6 52.5 78.7





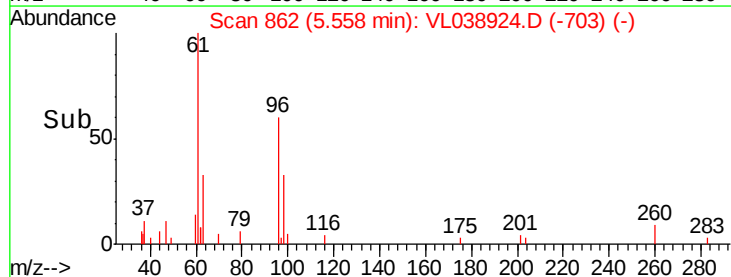
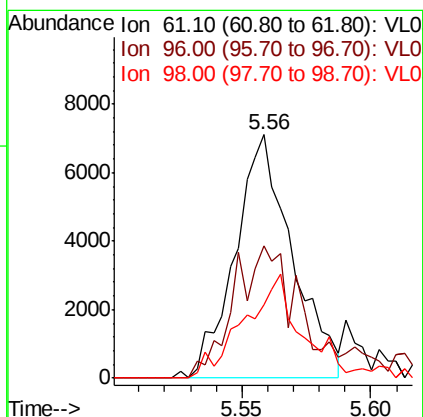
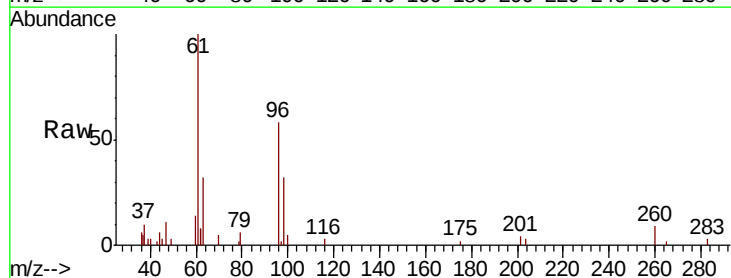
#30
Cvclohexane
Concen: 0.031 ppbv
RT: 7.14
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 14 Apr 2022 18:48

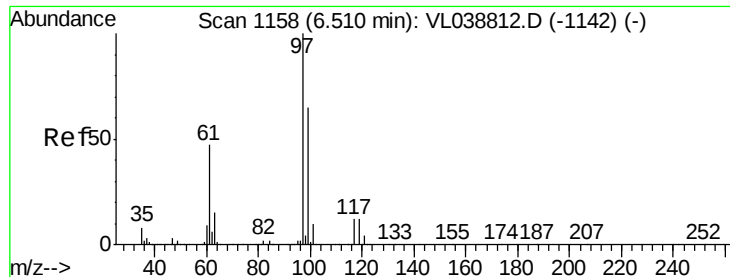
Tot Ion: 84 Resp: 3365
Ion Ratio Lower Upper
84 100
56 0.0 114.4 171.6#
41 0.0 69.0 103.4#



#31
cis-1,2-Dichloroethene
Concen: 0.097 ppbv
RT: 5.56 min Scan# 862
Delta R.T. 0.01 min
Lab File: VL038924.D
Acq: 14 Apr 2022 18:46

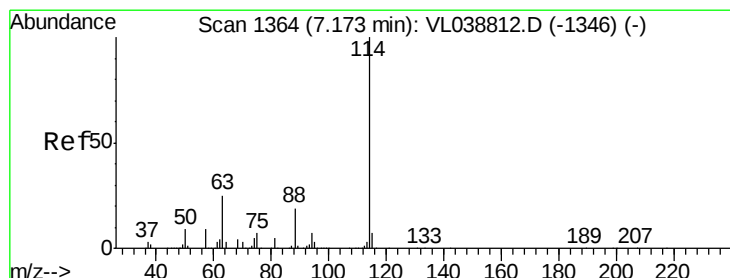
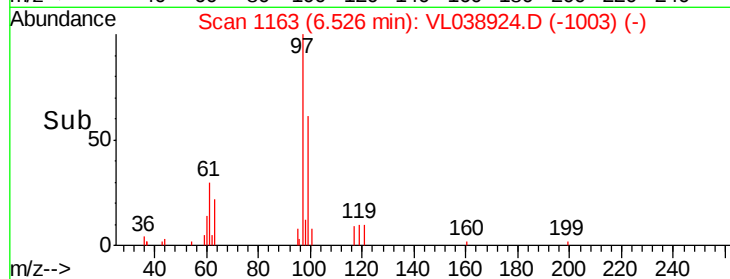
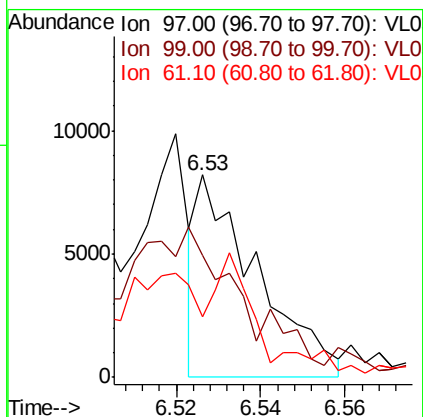
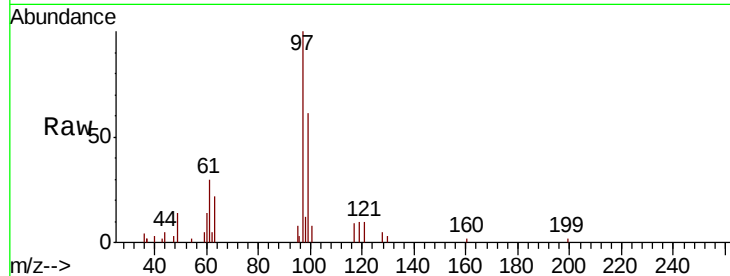
Tgt Ion: 61 Resp: 10975
Ion Ratio Lower Upper
61 100
96 54.1 53.4 80.0
98 30.1 34.2 51.4#





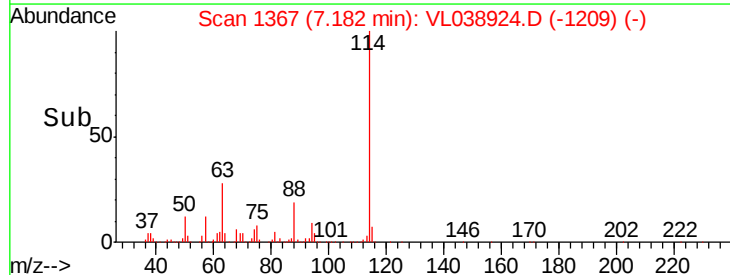
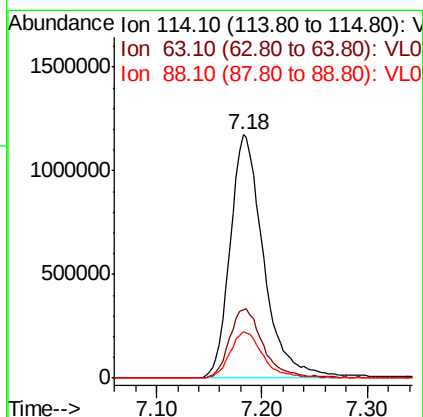
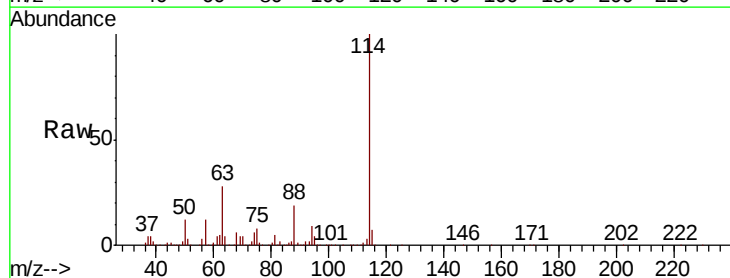
#32
 1,1,1-Trichloroethane
 Concen: 0.047 ppbv
 RT: 6.53
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 14 Apr 2022 18:48

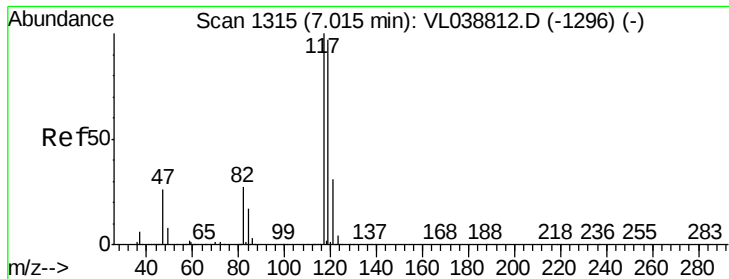
Tot Ion: 97 Resp: 8067
 Ion Ratio Lower Upper
 97 100
 99 166.7 52.4 78.6#
 61 126.8 38.6 57.8#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.01 min
 Lab File: VL038924.D
 Acq: 14 Apr 2022 18:46

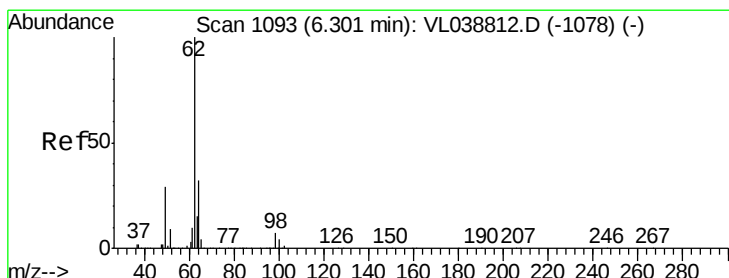
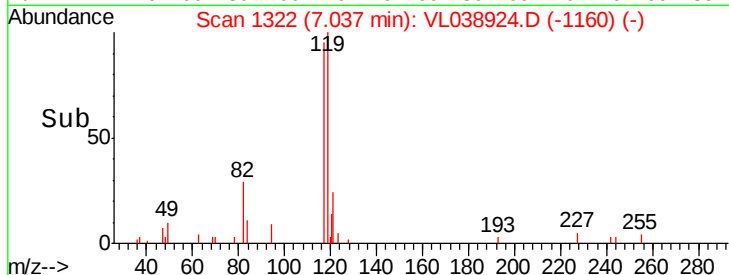
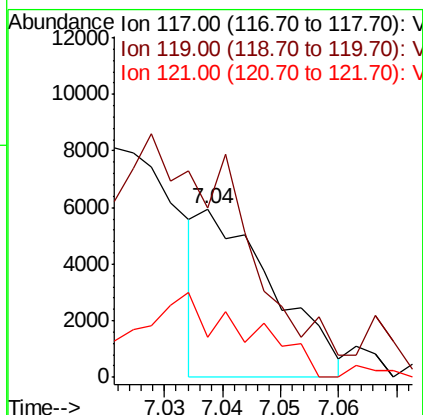
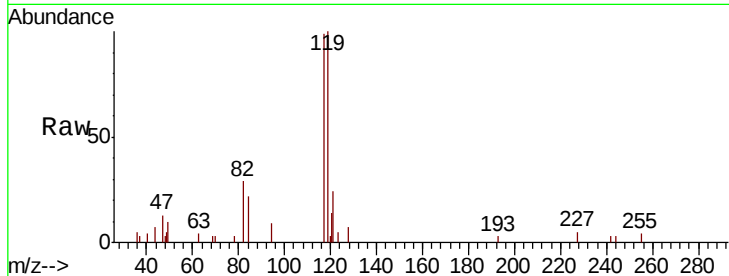
Tgt Ion: 114 Resp: 2577361
 Ion Ratio Lower Upper
 114 100
 63 29.3 19.8 29.8
 88 19.3 14.2 21.4





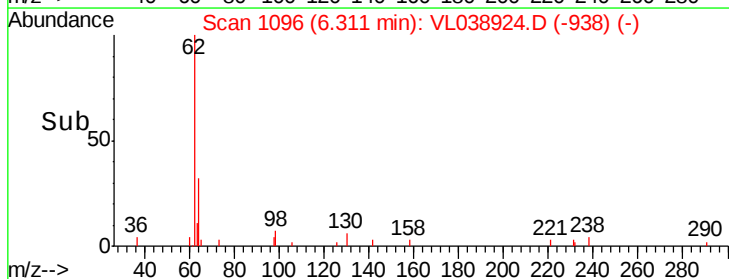
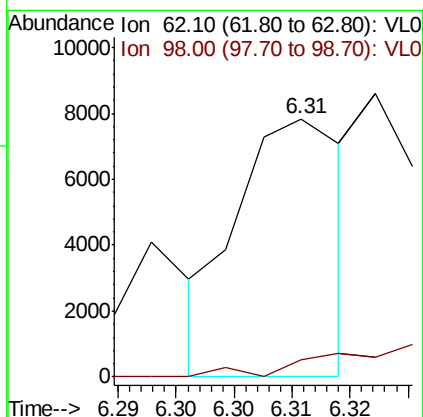
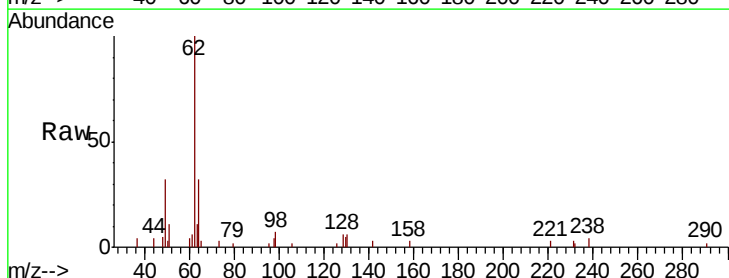
#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 7.04
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Apr 2022 18:48

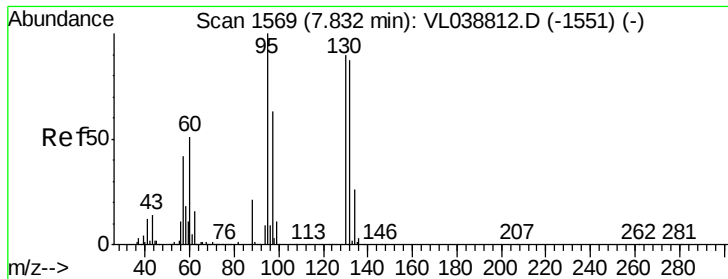
Tot Ion: 117 Resp: 5196
Ion Ratio Lower Upper
117 100
119 97.9 77.7 116.5
121 26.9 24.5 36.7



#37
1,2-Dichloroethane
Concen: 0.047 ppbv
RT: 6.31 min Scan# 1096
Delta R.T. 0.01 min
Lab File: VL038924.D
Acq: 14 Apr 2022 18:46

Tgt Ion: 62 Resp: 5033
Ion Ratio Lower Upper
62 100
98 0.0 5.9 8.9#





#38

Trichloroethene

Concen: 0.044 ppbv

RT: 7.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

MDL 0.1 NAPHT.

Acq: 14 Apr 2022 18:48

Tot Ion: 130 Resp: 4198

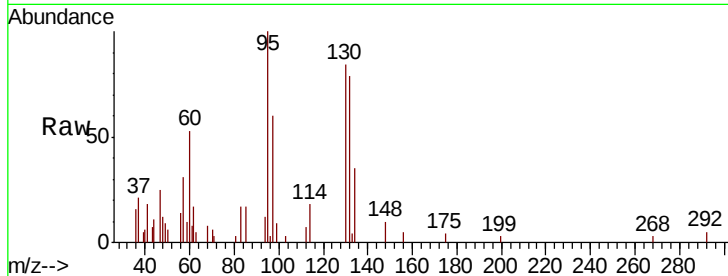
Ion Ratio Lower Upper

130 100

95 40.6 89.4 134.0#

132 139.9 77.7 116.5#

97 41.8 56.0 84.0#

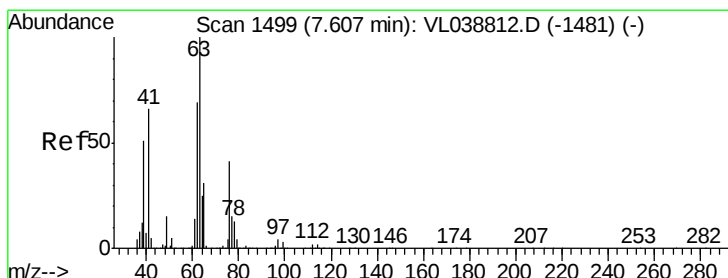
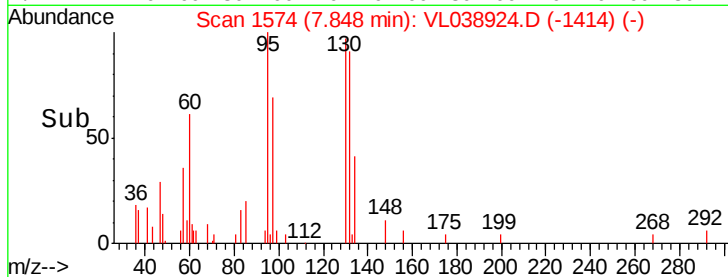
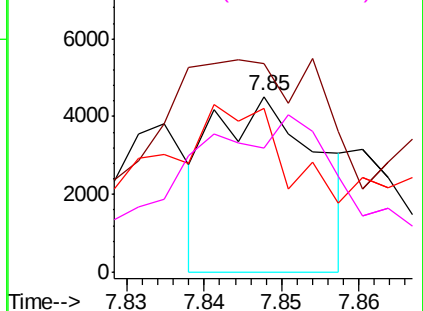


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.124 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.42 min

Lab File: VL038924.D

Acq: 14 Apr 2022 18:46

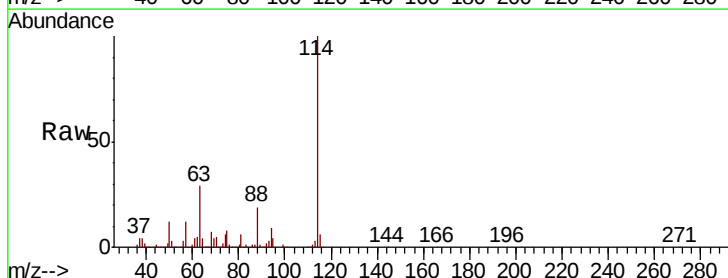
Tgt Ion: 63 Resp: 728539

Ion Ratio Lower Upper

63 100

41 0.2 53.0 79.6#

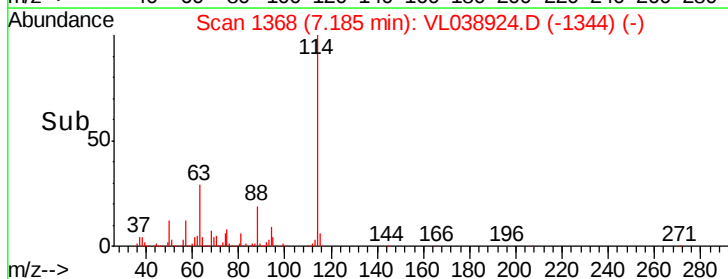
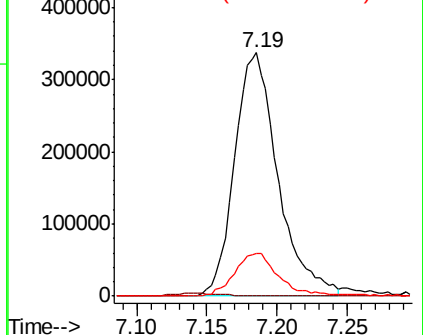
62 17.7 55.0 82.4#

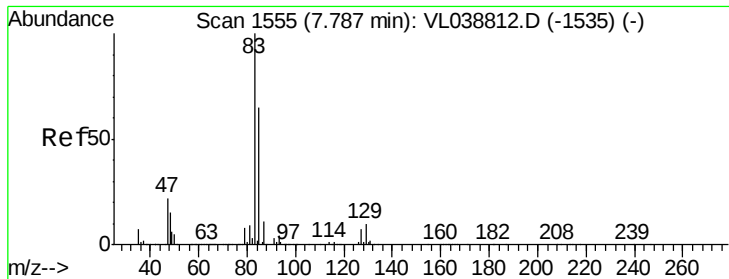


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.098 ppbv

RT: 7.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 18:48 MDL 0.1 NAPHT.

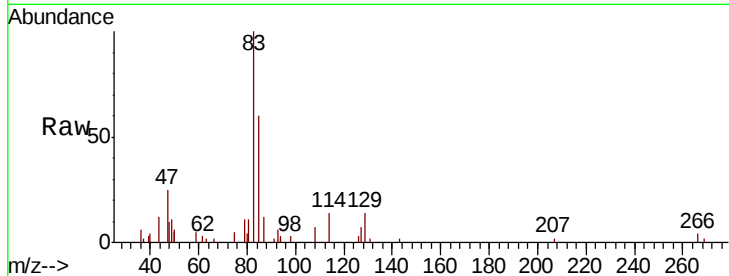
Tot Ion: 83 Resp: 16647

Ion Ratio Lower Upper

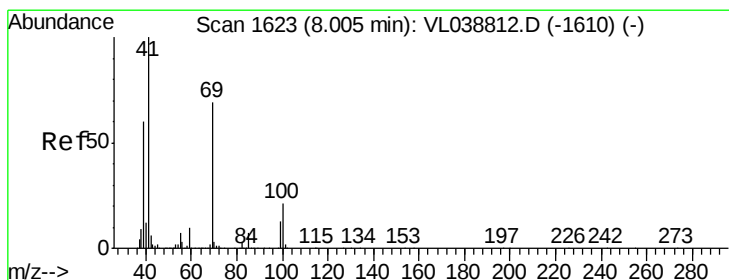
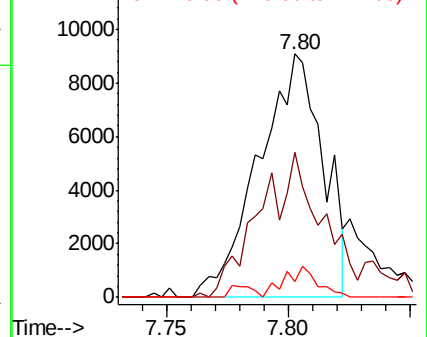
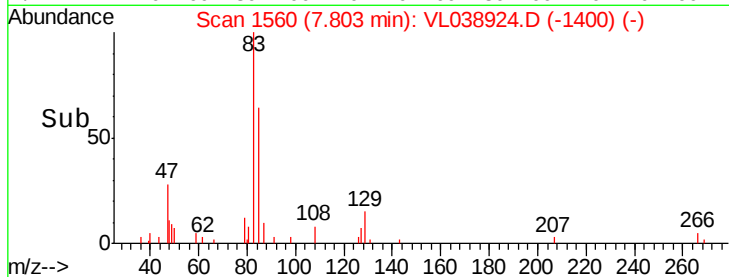
83 100

85 59.5 51.7 77.5

127 6.7 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): VL0



#43

Methyl Methacrylate

Concen: 0.046 ppbv

RT: 8.02 min Scan# 1629

Delta R.T. 0.02 min

Lab File: VL038924.D

Acq: 14 Apr 2022 18:46

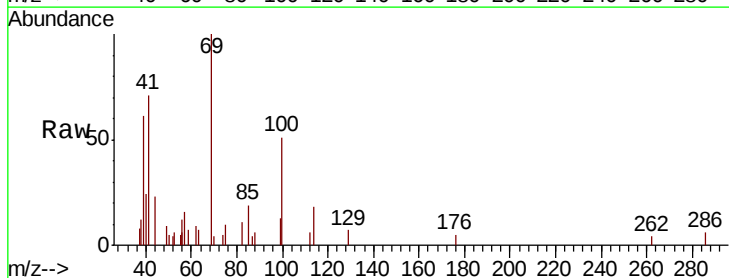
Tgt Ion: 69 Resp: 4104

Ion Ratio Lower Upper

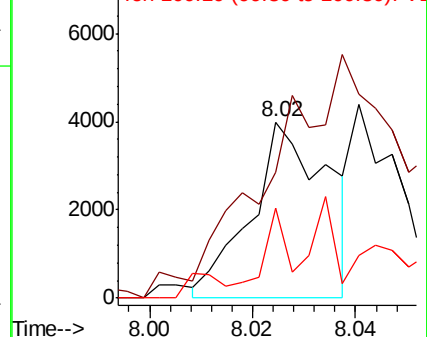
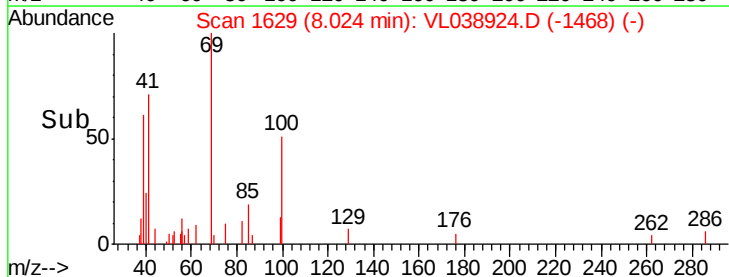
69 100

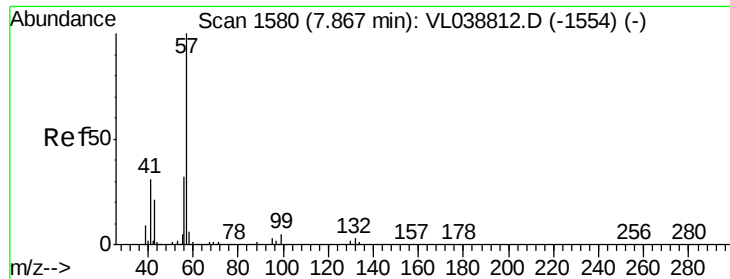
41 0.0 119.0 178.4#

100 0.0 26.4 39.6#



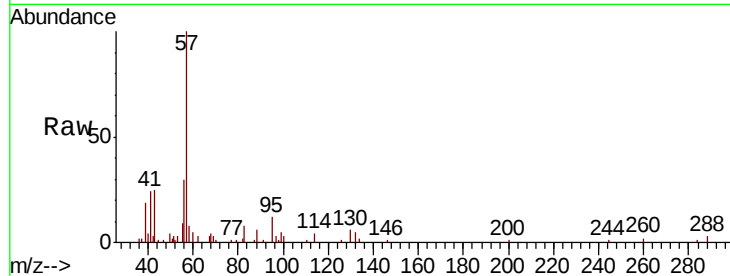
Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0





#44
2,2,4-Trimethylpentane
Concen: 0.090 ppbv
RT: 7.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 14 Apr 2022 18:48

Tot Ion	57	Resp	35806
Ion Ratio	100	Lower	Upper
41	41.3	25.0	37.4#
56	35.3	25.3	37.9

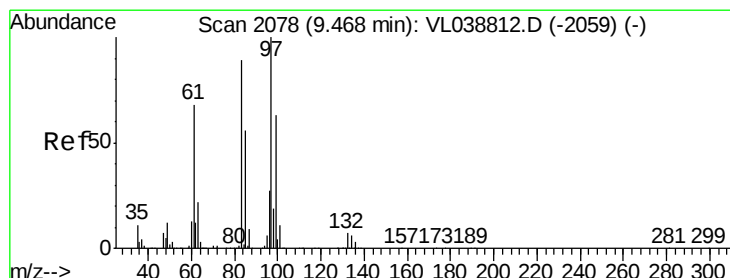
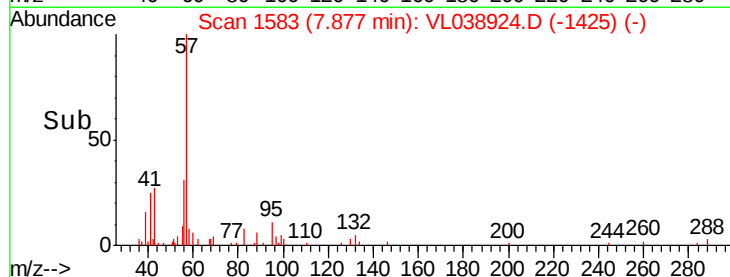
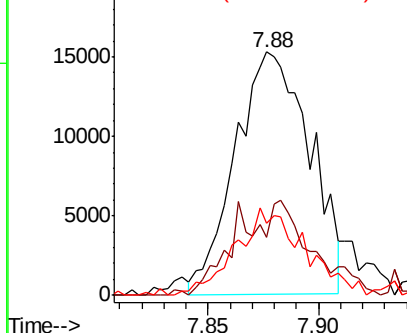


Abundance

Ion 57.10 (56.80 to 57.80): VL0

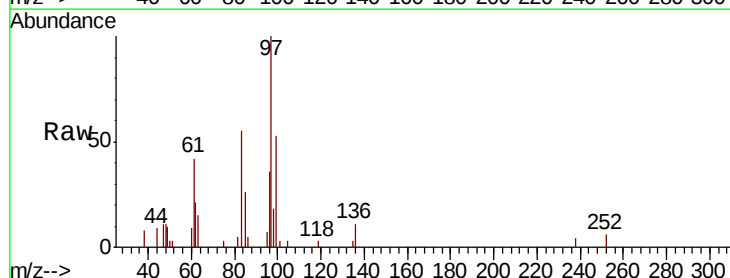
Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#47
1,1,2-Trichloroethane
Concen: 0.063 ppbv
RT: 9.48 min Scan# 2082
Delta R.T. 0.01 min
Lab File: VL038924.D
Acq: 14 Apr 2022 18:46

Tgt Ion	97	Resp	5772
Ion Ratio	100	Lower	Upper
83	44.7	71.1	106.7#
85	8.6	45.1	67.7#
99	38.1	50.8	76.2#



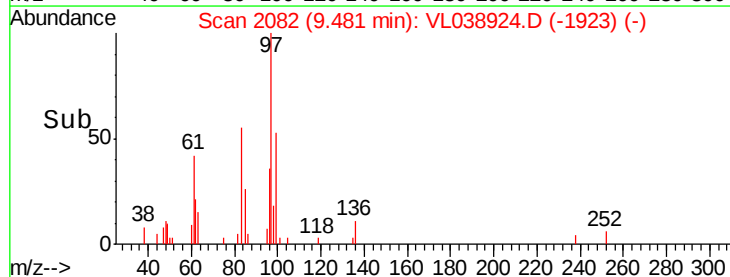
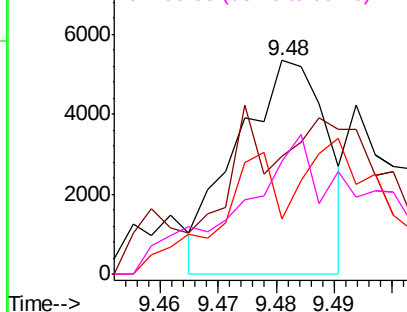
Abundance

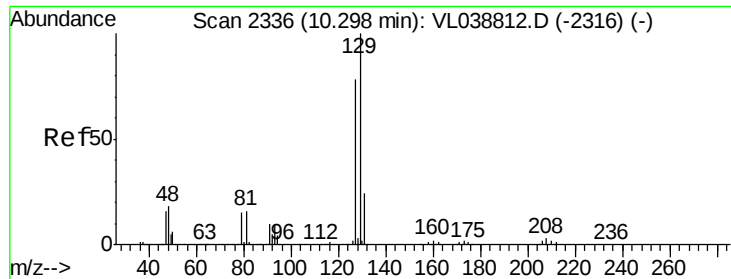
Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

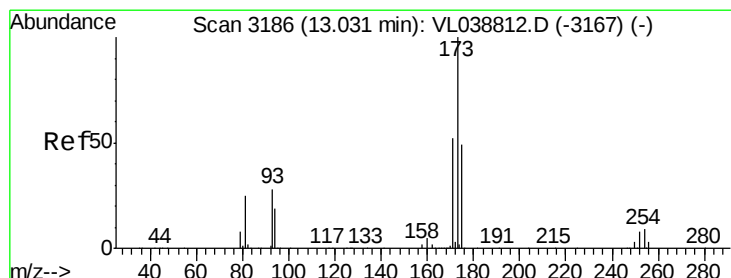
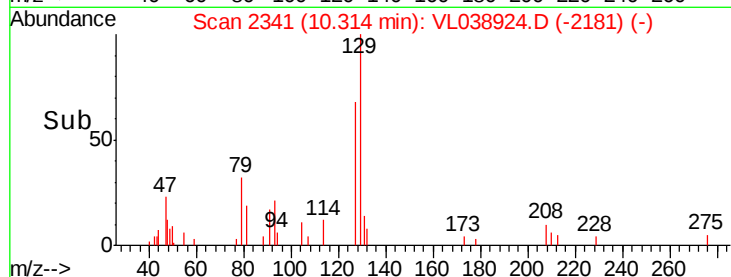
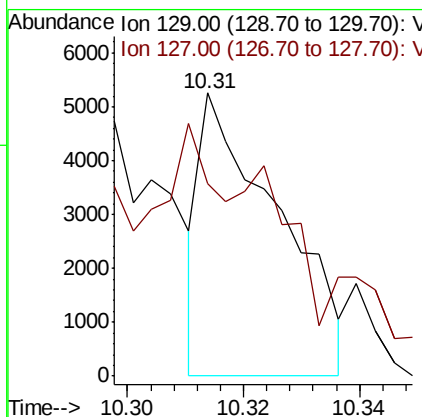
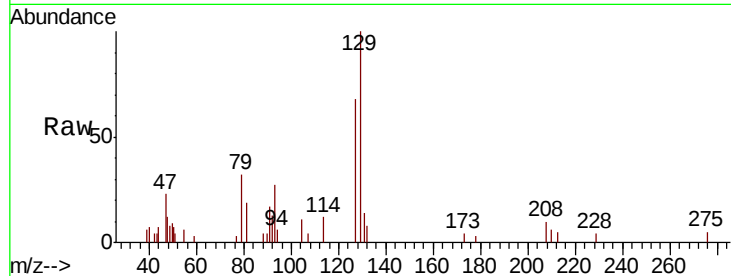
Ion 99.00 (98.70 to 99.70): VL0





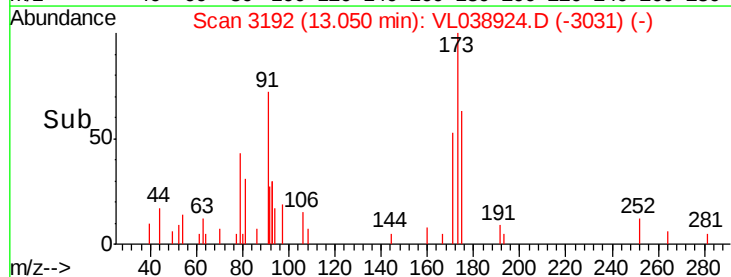
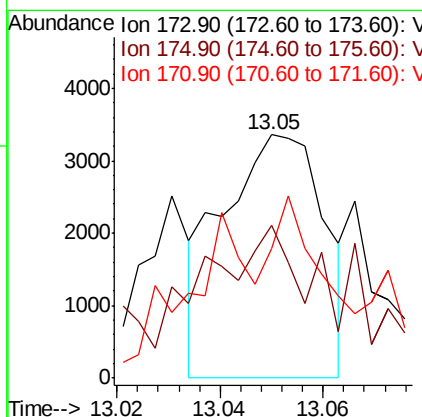
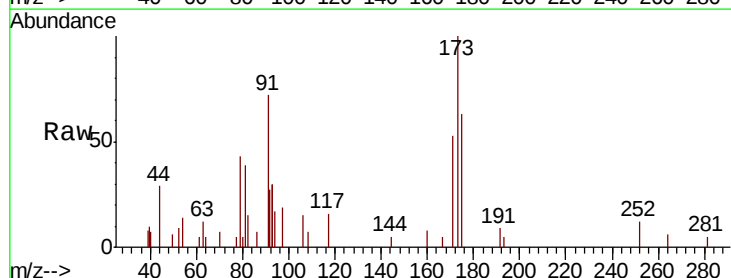
#48
 Dibromochloromethane
 Concen: 0.034 ppbv
 RT: 10.31 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 14 Apr 2022 18:48

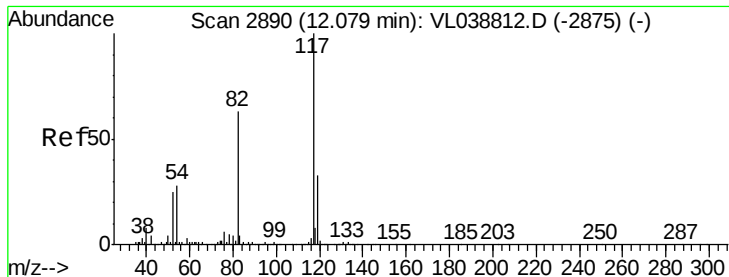
Tot Ion:129 Resp: 4904
 Ion Ratio Lower Upper
 129 100
 127 213.4 38.9 116.6#



#49
 Bromoform
 Concen: 0.040 ppbv
 RT: 13.05 min Scan# 3192
 Delta R.T. 0.02 min
 Lab File: VL038924.D
 Acq: 14 Apr 2022 18:46

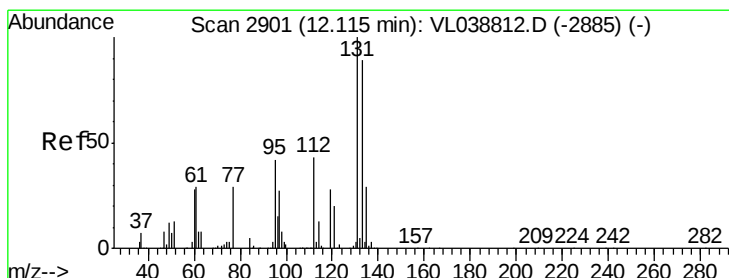
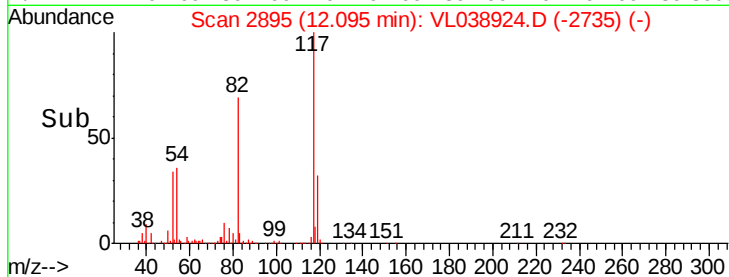
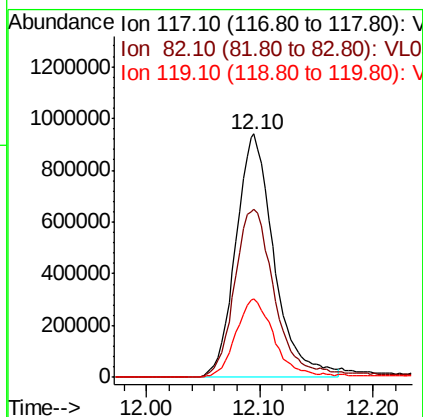
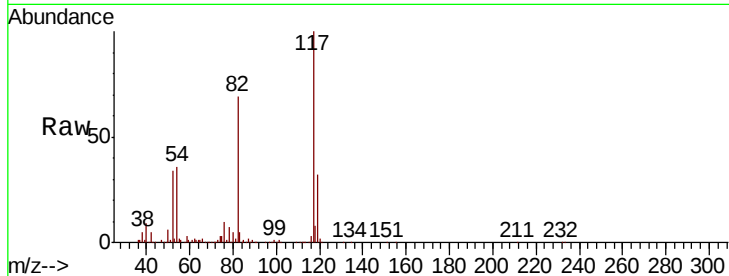
Tgt Ion:173 Resp: 4603
 Ion Ratio Lower Upper
 173 100
 175 103.9 39.9 59.9#
 171 110.3 43.4 65.0#





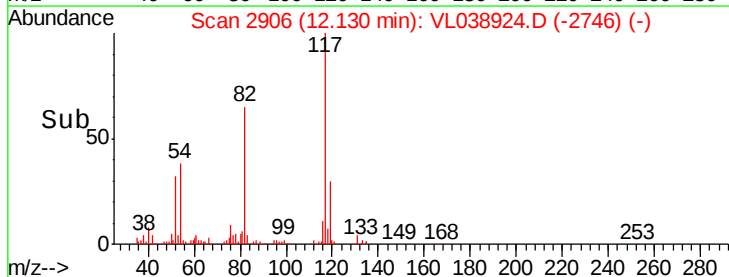
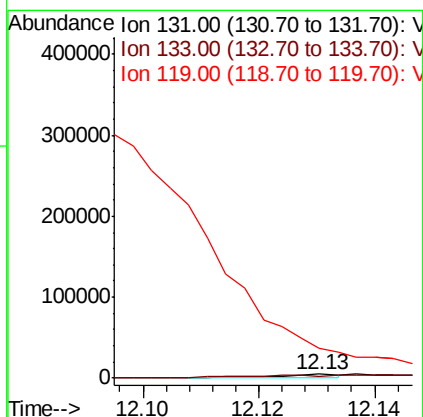
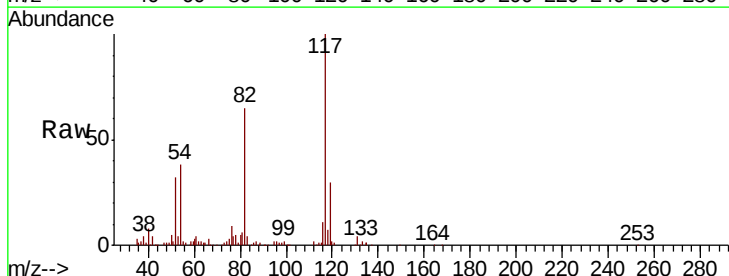
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Apr 2022 18:48

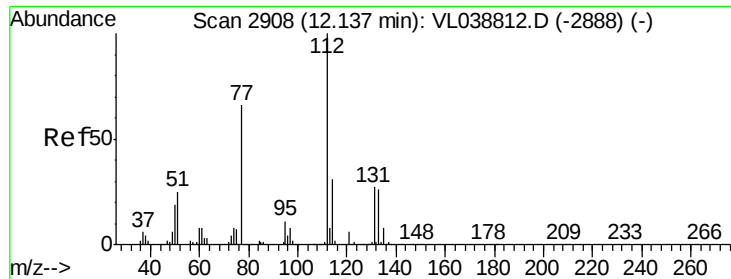
Tot Ion:117 Resp: 2212437
Ion Ratio Lower Upper
117 100
82 76.0 53.0 79.6
119 34.2 24.9 37.3



#56
1,1,1,2-Tetrachloroethane
Concen: 0.041 ppbv
RT: 12.13 min Scan# 2906
Delta R.T.: 0.02 min
Lab File: VL038924.D
Acq: 14 Apr 2022 18:46

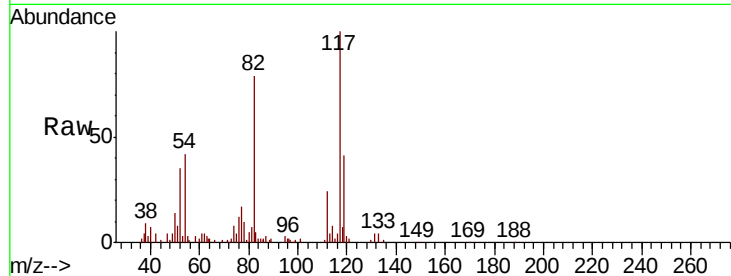
Tgt Ion:131 Resp: 4023
Ion Ratio Lower Upper
131 100
133 0.0 78.2 117.4#
119 0.0 58.6 87.8#



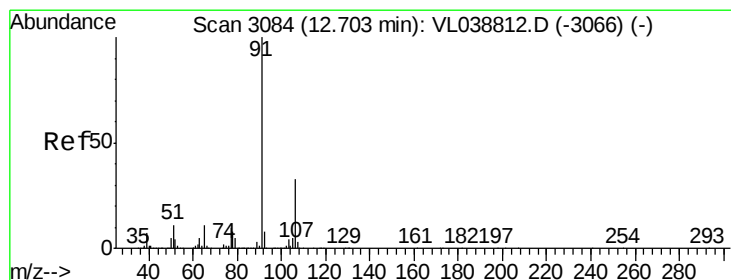
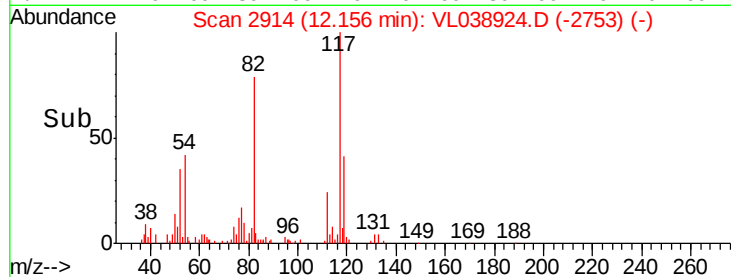
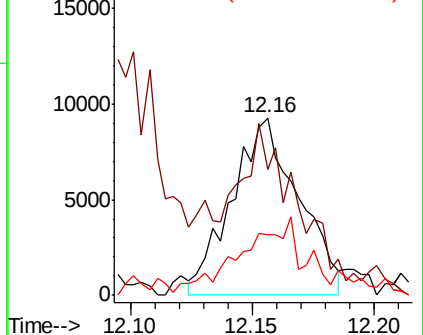


#57
Chlorobenzene
Concen: 0.097 ppbv
RT: 12.16 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Apr 2022 18:48

Tot Ion: 112 Resp: 17645
Ion Ratio Lower Upper
112 100
77 54.5 52.4 78.6
114 29.7 28.1 34.3

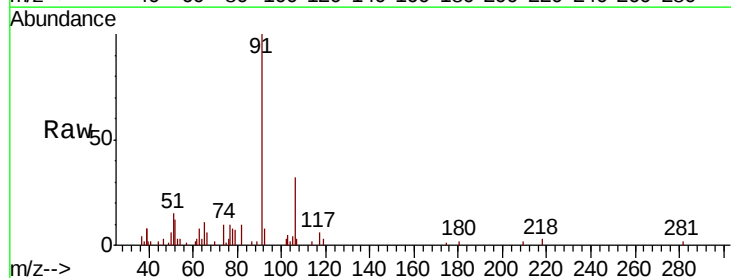


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

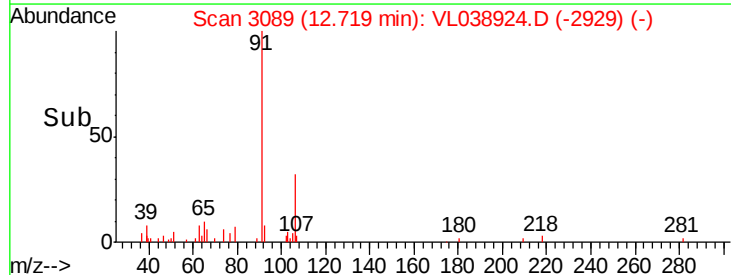
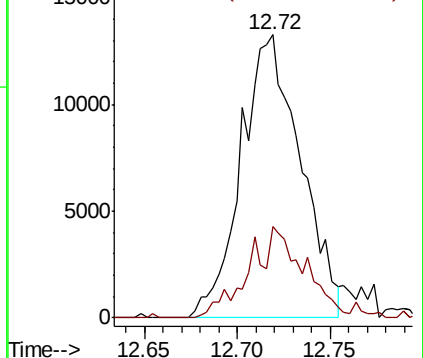


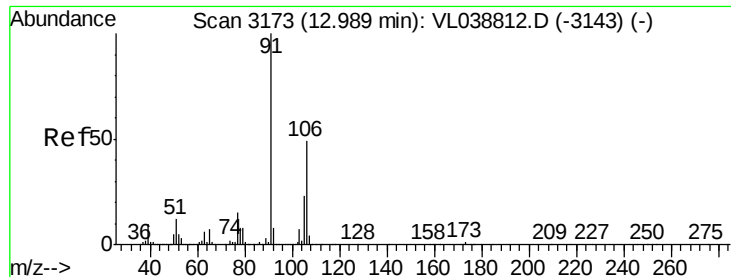
#58
Ethyl Benzene
Concen: 0.090 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. 0.02 min
Lab File: VL038924.D
Acq: 14 Apr 2022 18:46

Tgt Ion: 91 Resp: 29705
Ion Ratio Lower Upper
91 100
106 32.3 26.7 40.1



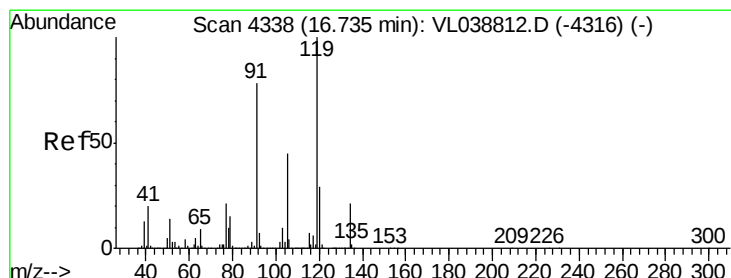
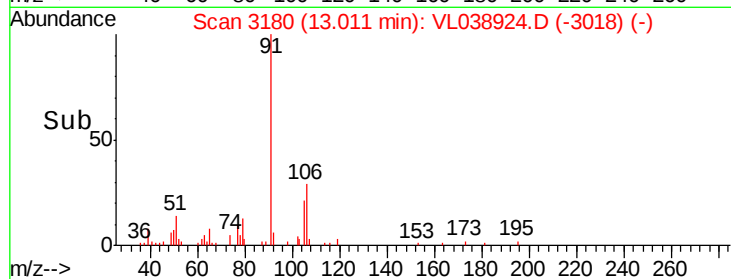
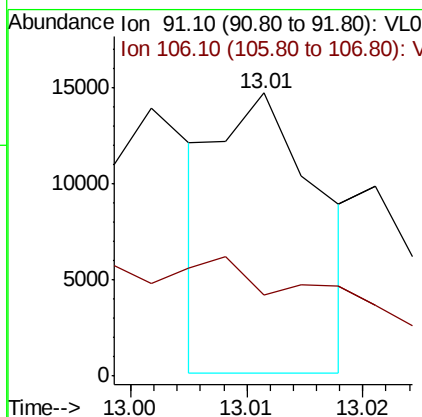
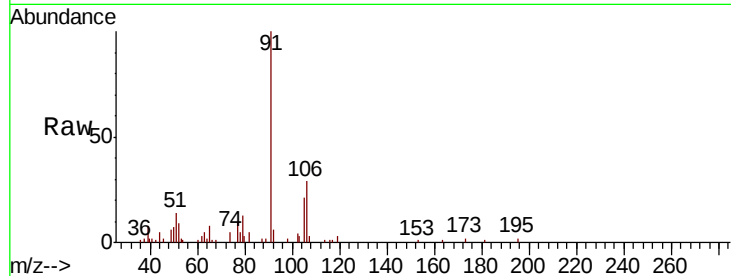
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





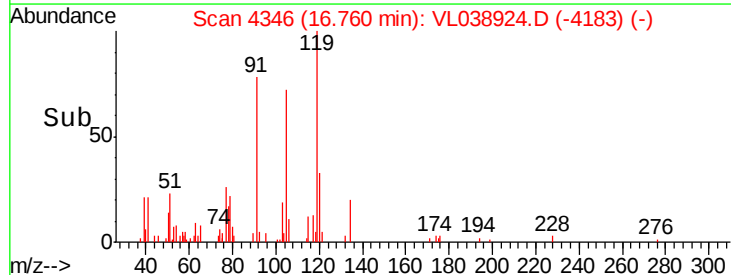
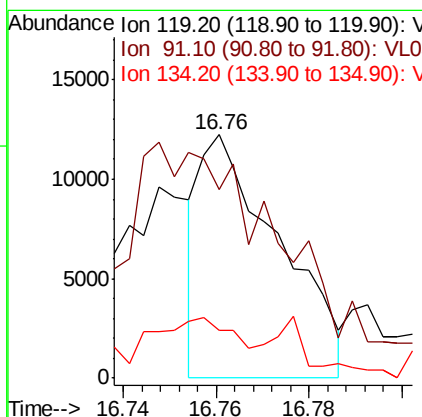
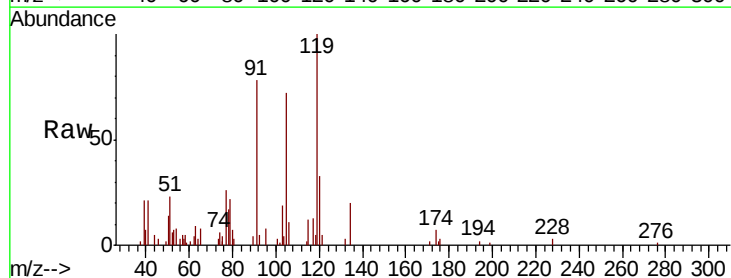
#59
m/p-Xylene
Concen: 0.032 ppbv
RT: 13.01 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 14 Apr 2022 18:48

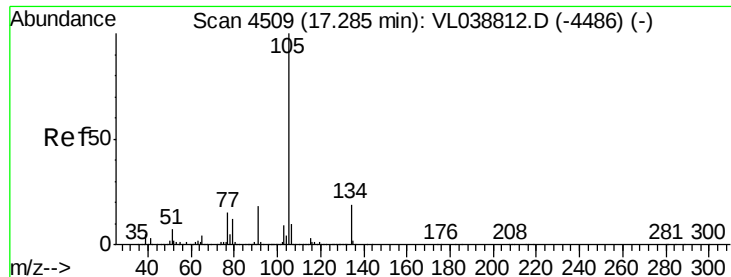
Tot Ion: 91 Resp: 8823
Ion Ratio Lower Upper
91 100
106 257.4 37.1 55.7#



#65
tert-Butylbenzene
Concen: 0.042 ppbv
RT: 16.76 min Scan# 4346
Delta R.T. 0.03 min
Lab File: VL038924.D
Acq: 14 Apr 2022 18:46

Tgt Ion: 119 Resp: 14496
Ion Ratio Lower Upper
119 100
91 0.0 62.8 94.2#
134 0.0 16.2 24.4#





#67

sec-Butylbenzene

Concen: 0.051 ppbv

RT: 17.31

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

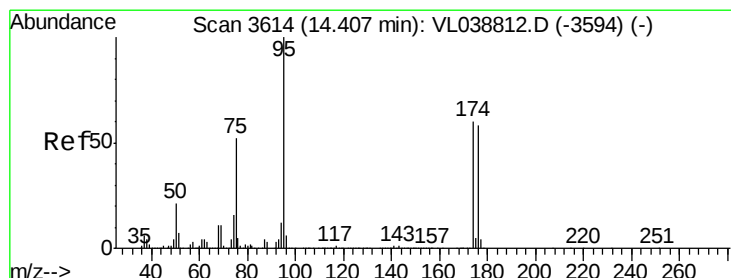
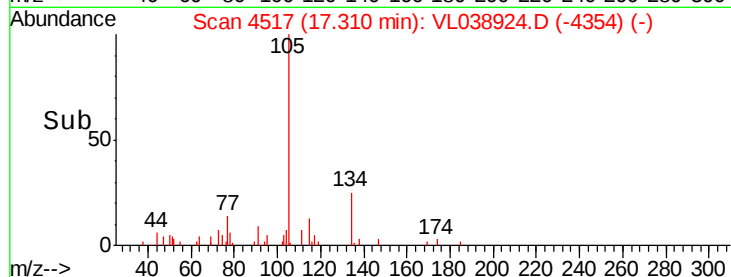
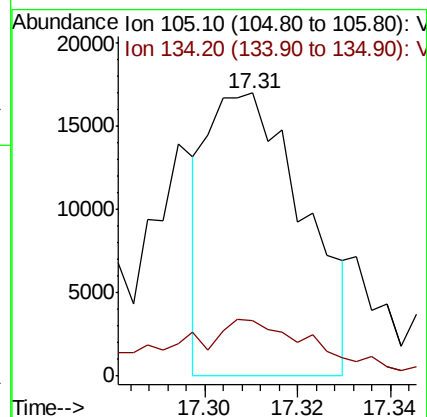
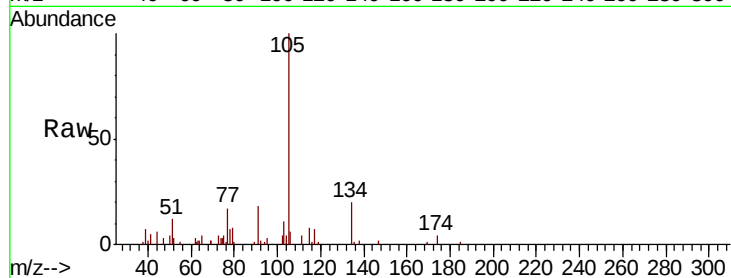
Acq: 14 Apr 2022 18:46 MDL 0.1 NAPHT.

Tot Ion: 105 Resp: 24547

Ion Ratio Lower Upper

105 100

134 33.0 15.1 22.7#



#68

1-Bromo-4-Fluorobenzene

Concen: 11.247 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. 0.02 min

Lab File: VL038924.D

Acq: 14 Apr 2022 18:46

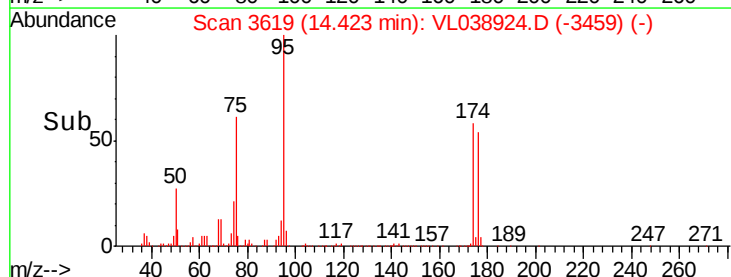
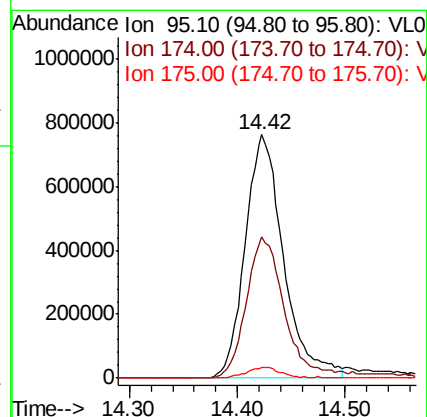
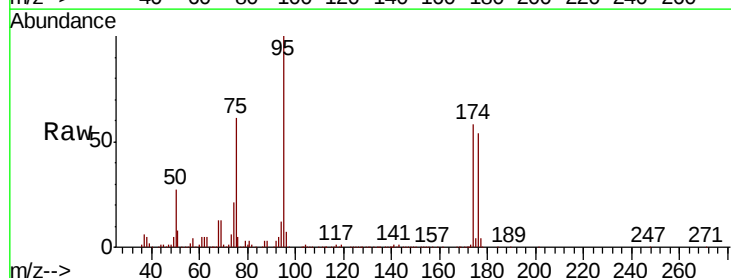
Tgt Ion: 95 Resp: 1887521

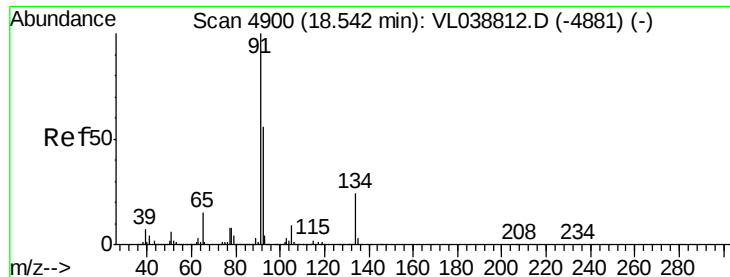
Ion Ratio Lower Upper

95 100

174 61.4 52.0 78.0

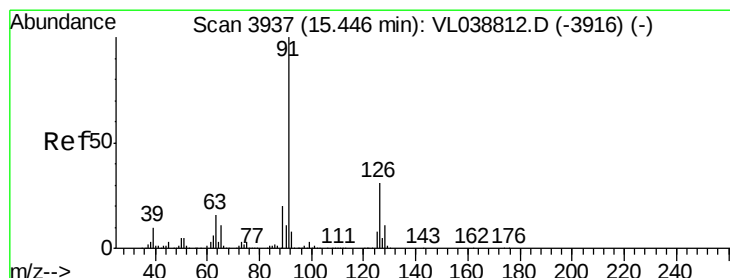
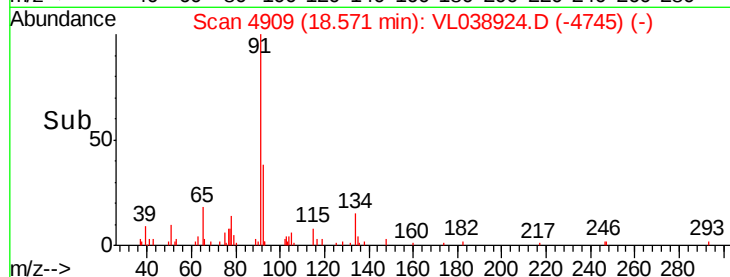
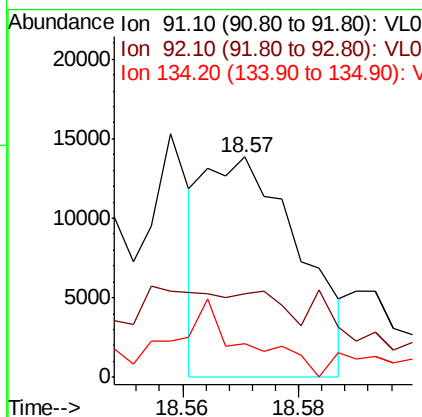
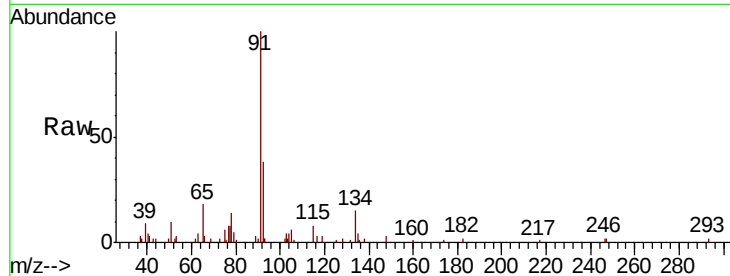
175 4.2 4.0 6.0





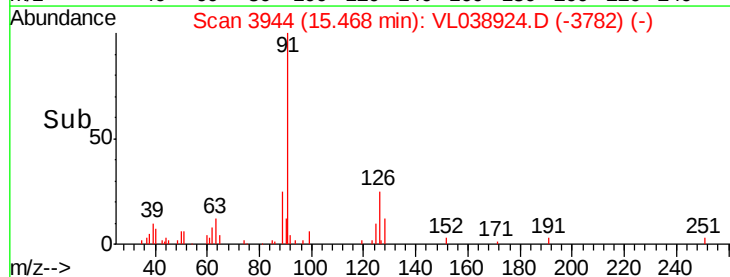
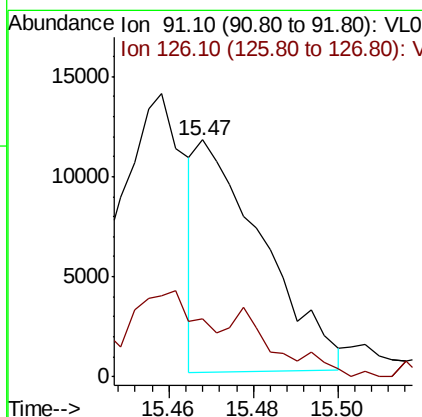
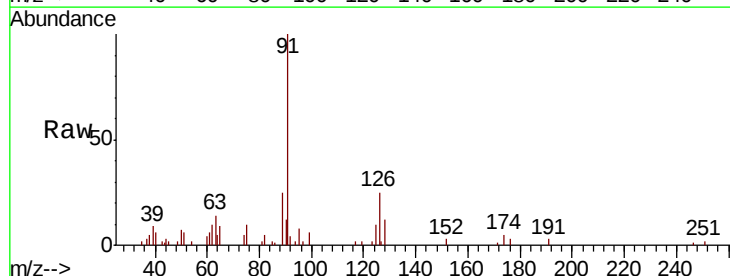
#70
n-Butylbenzene
Concen: 0.039 ppbv
RT: 18.57 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 14 Apr 2022 18:40

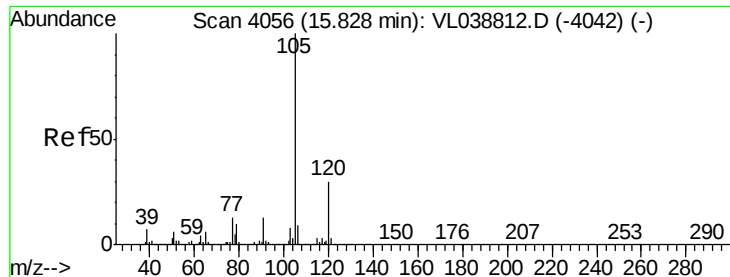
Tot Ion: 91 Resp: 15713
Ion Ratio Lower Upper
91 100
92 0.0 44.6 66.8#
134 43.7 19.2 28.8#



#71
2-Chlorotoluene
Concen: 0.043 ppbv
RT: 15.47 min Scan# 3944
Delta R.T. 0.02 min
Lab File: VL038924.D
Acq: 14 Apr 2022 18:46

Tgt Ion: 91 Resp: 12647
Ion Ratio Lower Upper
91 100
126 0.0 13.0 51.8#





#72

4-Ethyltoluene

Concen: 0.043 ppbv

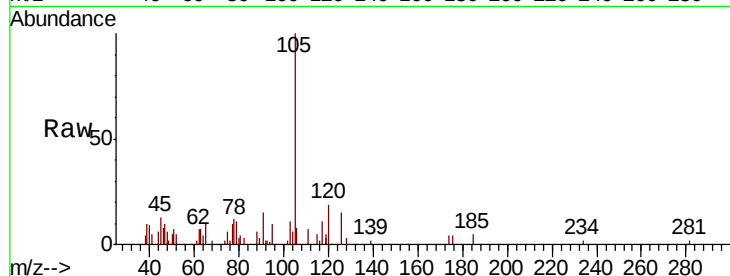
RT: 15.85

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2022 18:46

Tot Ion:	105	Resp:	13455
Ion	Ratio	Lower	Upper
105	100		
120	58.1	24.3	36.5#
91	39.8	9.4	14.2#
77	35.1	10.6	15.8#



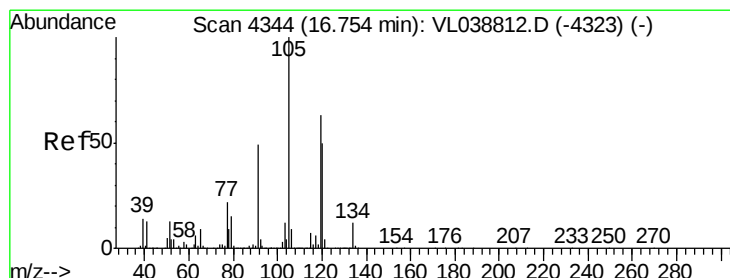
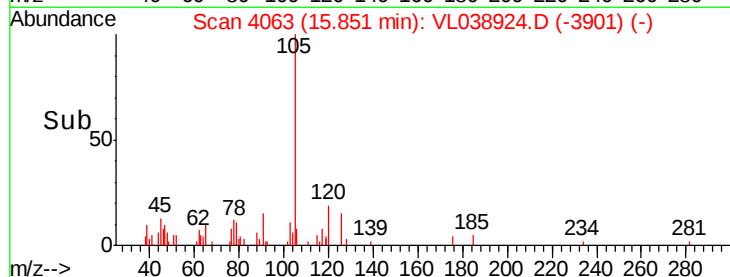
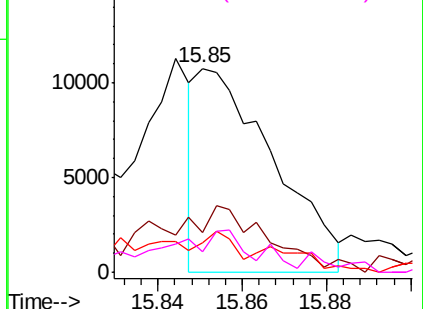
Abundance

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



#74

1,2,4-Trimethylbenzene

Concen: 0.035 ppbv

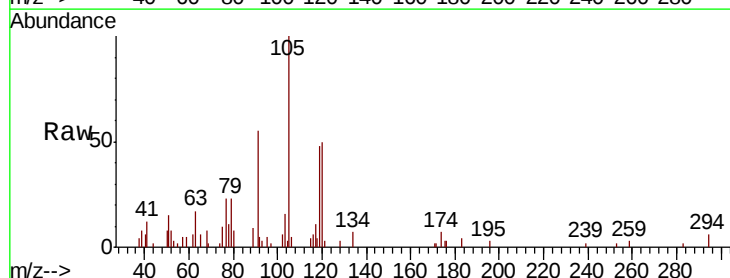
RT: 16.78 min Scan# 4353

Delta R.T. 0.03 min

Lab File: VL038924.D

Acq: 14 Apr 2022 18:46

Tgt Ion:	105	Resp:	10205
Ion	Ratio	Lower	Upper
105	100		
120	53.2	39.8	59.8
91	49.7	39.4	59.0
77	19.8	17.3	25.9



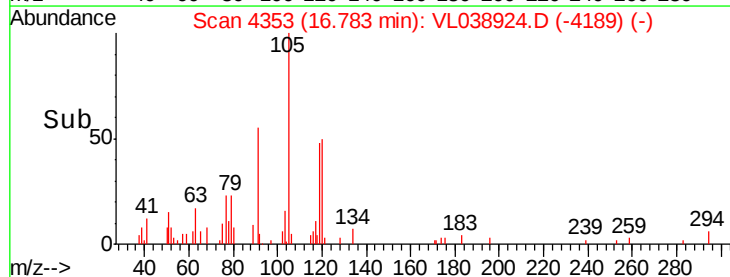
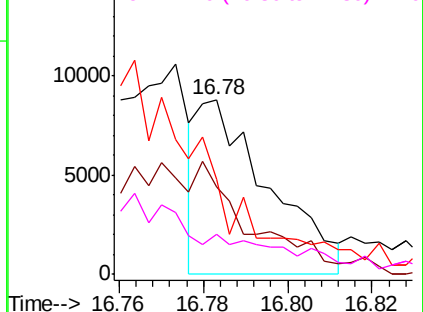
Abundance

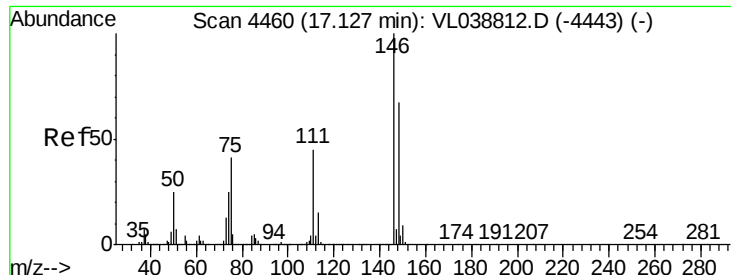
Ion 105.10 (104.80 to 105.80): V

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





#76

1,4-Dichlorobenzene

Concen: 0.039 ppbv

RT: 17.15

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

MDL 0.1 NAPHT.

Acq: 14 Apr 2022 18:48

Tot Ion: 146 Resp: 6508

Ion Ratio Lower Upper

146 100

111 0.0 23.6 70.8#

148 0.0 33.6 100.6#

