

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041322\
 Data File : VL038911.D
 Acq On : 13 Apr 2022 20:10
 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 25 08:29:32 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	1088519	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	2602482	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2283480	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1921123	11.09	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	22822	0.148 ppbv	93
3) Chlorodifluoromethane	3.00	51	16343	0.123 ppbv #	91
4) Chloromethane	3.15	50	5273	0.077 ppbv #	82
5) Vinyl Chloride	3.27	62	7796	0.123 ppbv	98
6) Bromomethane	3.48	94	2742	0.089 ppbv #	74
7) Chloroethane	3.56	64	1212	0.057 ppbv	98
8) Dichlorotetrafluoroethane	3.20	85	17346	0.120 ppbv	97
9) Propene	3.02	41	4982	0.071 ppbv #	1
10) Heptane	8.13	43	8673	0.049 ppbv #	42
11) Trichlorofluoromethane	3.96	101	15296	0.123 ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.49	101	7943	0.084 ppbv #	67
14) Bromoethene	3.74	108	1411	0.034 ppbv #	3
16) 1,3-Butadiene	3.33	39	5190	0.084 ppbv #	52
20) Methylene Chloride	4.35	84	4311	0.110 ppbv #	83
21) Allyl Chloride	4.42	41	3519	0.043 ppbv #	1
22) trans-1,2-Dichloroethene	4.89	96	3119	0.071 ppbv #	55
24) 1,1-Dichloroethane	5.01	63	5848	0.061 ppbv #	87
26) Hexane	5.69	57	10653	0.085 ppbv #	1
29) Chloroform	5.76	83	18820	0.107 ppbv	90
31) cis-1,2-Dichloroethene	5.56	61	10759	0.093 ppbv #	74
32) 1,1,1-Trichloroethane	6.52	97	9049	0.051 ppbv #	12
35) Carbon Tetrachloride	7.02	117	9716	0.062 ppbv #	74
36) Benzene	6.90	78	8129	0.034 ppbv #	82
37) 1,2-Dichloroethane	6.31	62	6473	0.060 ppbv #	86
39) 1,2-Dichloropropane	7.25	63	7498	0.083 ppbv #	30
42) Bromodichloromethane	7.80	83	6427	0.038 ppbv #	76
43) Methyl Methacrylate	8.02	69	2948	0.033 ppbv #	1
44) 2,2,4-Trimethylpentane	7.88	57	12697	0.032 ppbv #	17
46) cis-1,3-Dichloropropene	8.70	75	4170	0.033 ppbv #	68
48) Dibromochloromethane	10.31	129	9488	0.065 ppbv	72
50) 4-Methyl-2-Pentanone	8.78	43	8831	0.038 ppbv #	31
52) Tetrachloroethene	11.23	164	3565	0.043 ppbv #	60
53) Toluene	9.81	91	9683	0.035 ppbv #	1
54) 1,2-Dibromoethane	10.61	107	3907	0.030 ppbv	86
56) 1,1,1,2-Tetrachloroethane	12.13	131	5974	0.060 ppbv #	6
57) Chlorobenzene	12.15	112	13658	0.073 ppbv	89
59) m/p-Xylene	13.00	91	28515	0.099 ppbv #	30
60) o-Xylene	13.70	91	10089	0.038 ppbv #	29
61) Styrene	13.53	104	7041	0.043 ppbv #	13
64) n-propylbenzene	15.57	120	3382	0.032 ppbv #	1
65) tert-Butylbenzene	16.75	119	18618	0.052 ppbv #	11

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.84	105	11851	0.037	ppbv #	35
73) 1,3,5-Trimethylbenzene	16.00	105	12153	0.042	ppbv	96
76) 1,4-Dichlorobenzene	17.15	146	6935	0.040	ppbv #	22
77) 1,2-Dichlorobenzene	17.82	146	10102	0.058	ppbv #	42
78) Hexachloro-1,3-Butadiene	23.39	225	5295	0.038	ppbv #	1

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

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Misc : 400mL/MSVOA L
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Instrument :
MSVOA_L
ClientSampleId :
MDL 0.1 NAPHT.

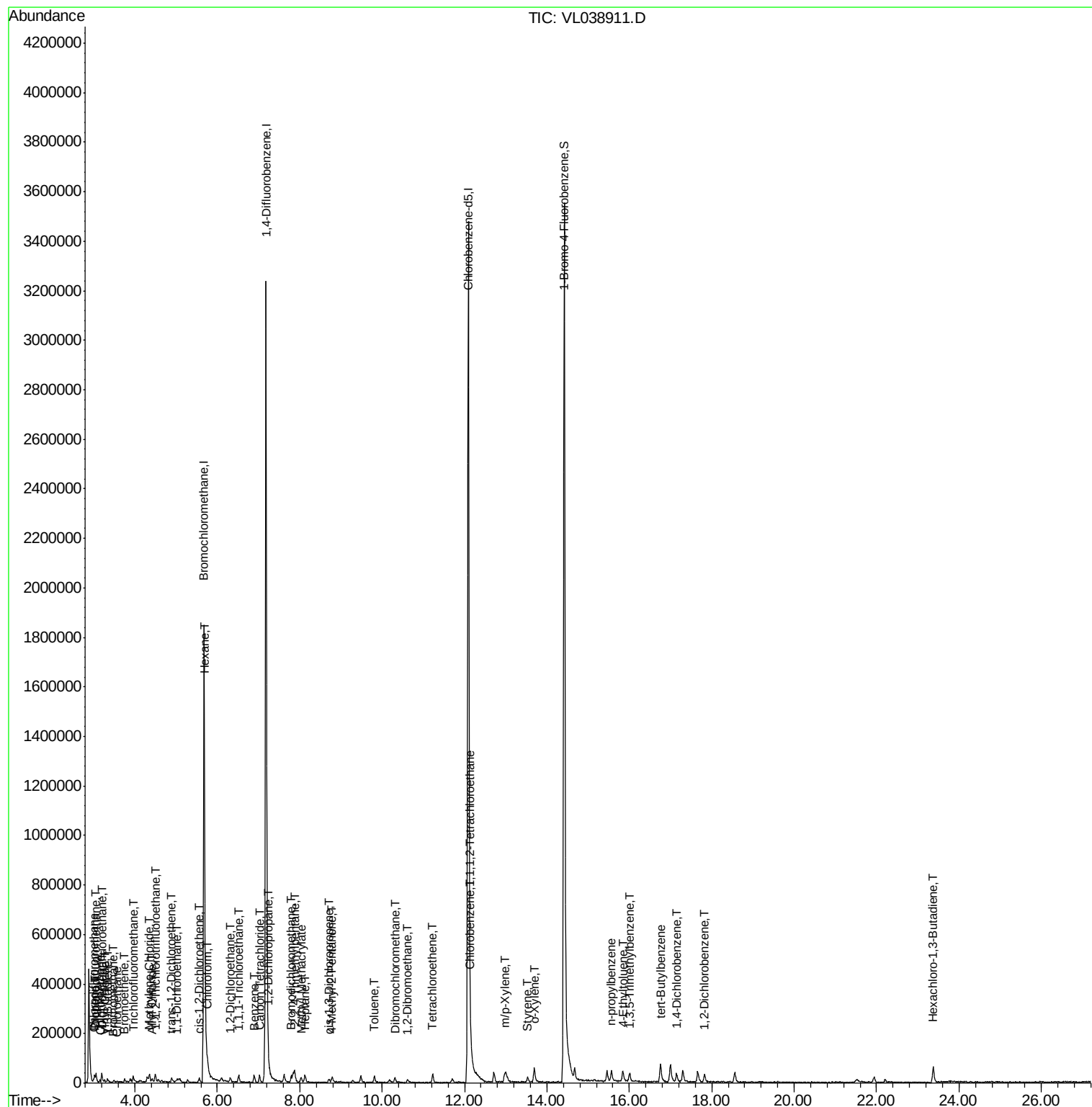
Quant Time: Apr 25 08:29:32 2022

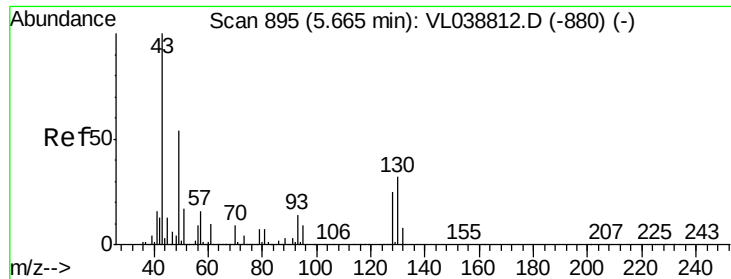
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M

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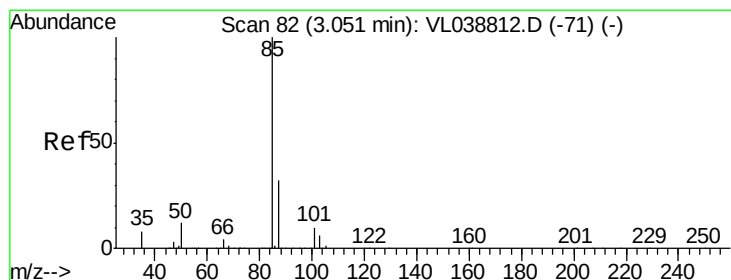
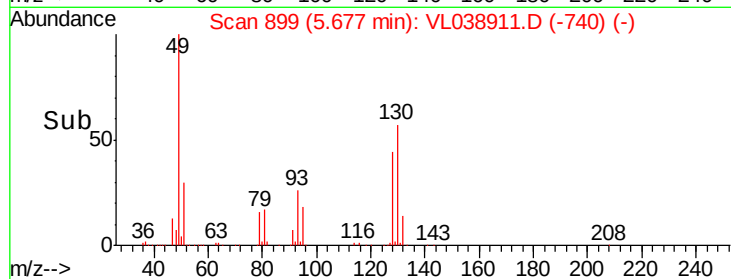
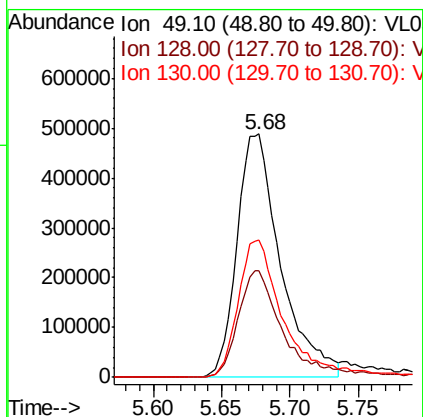
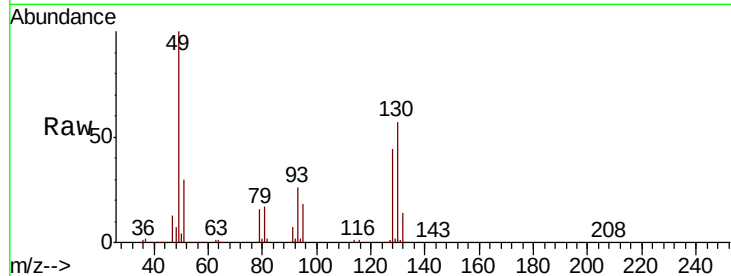
Response via : Initial Calibration





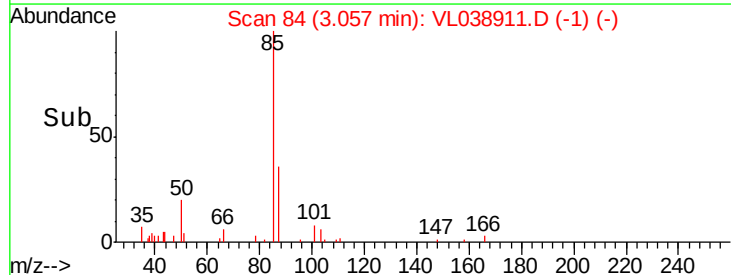
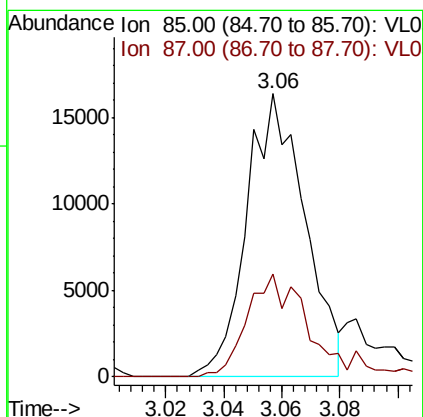
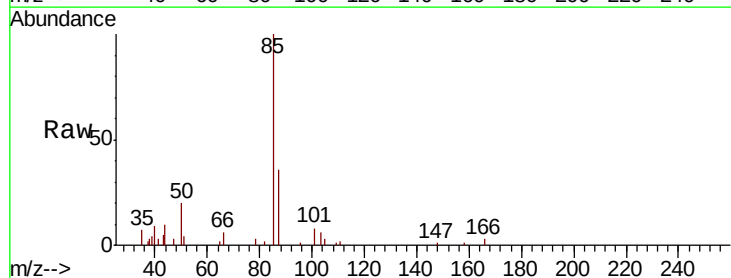
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:10

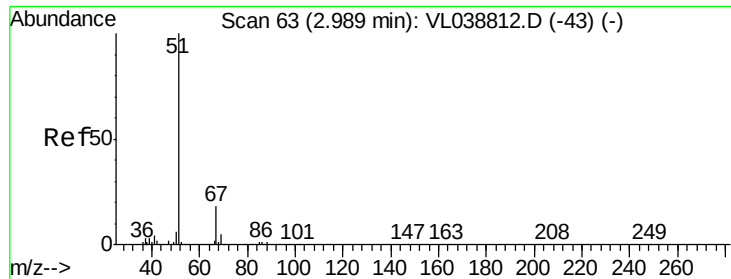
Tot Ion: 49 Resp: 1088519
 Ion Ratio Lower Upper
 49 100
 128 46.9 24.1 72.3
 130 60.6 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.148 ppbv
 RT: 3.06 min Scan# 84
 Delta R.T. 0.01 min
 Lab File: VL038911.D
 Acq: 13 Apr 2022 20:10

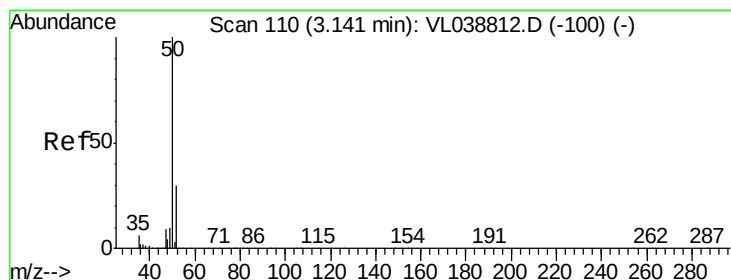
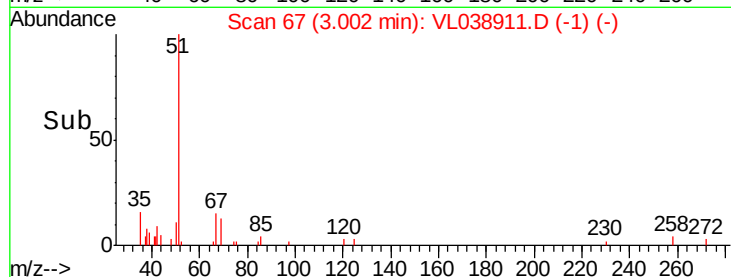
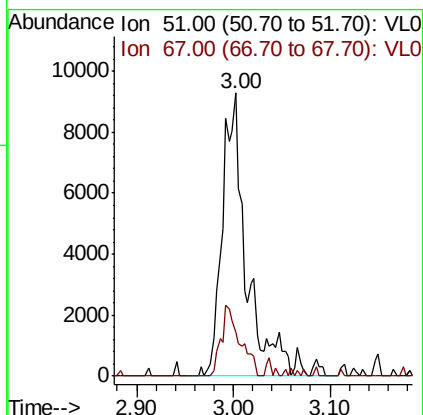
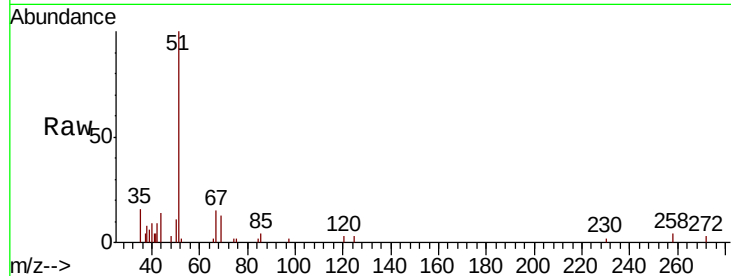
Tgt Ion: 85 Resp: 22822
 Ion Ratio Lower Upper
 85 100
 87 36.1 25.9 38.9





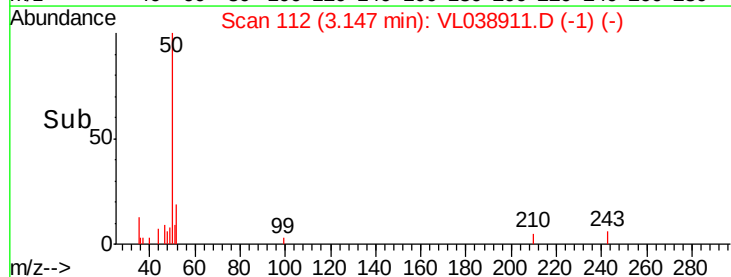
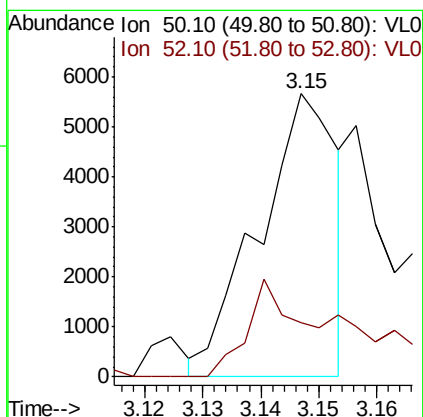
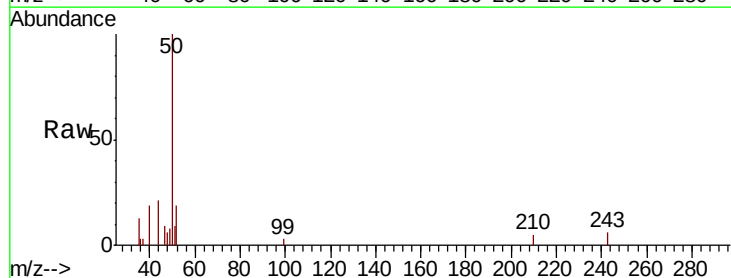
#3
Chlorodifluoromethane
Concen: 0.123 ppbv
RT: 3.00
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
MDL 0.1 NAPHT.
Acq: 13 Apr 2022 20:10

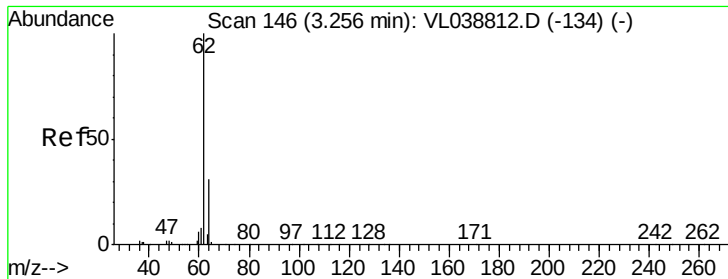
Tot Ion: 51 Resp: 16343
Ion Ratio Lower Upper
51 100
67 20.4 13.4 20.0#



#4
Chloromethane
Concen: 0.077 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.01 min
Lab File: VL038911.D
Acq: 13 Apr 2022 20:10

Tgt Ion: 50 Resp: 5273
Ion Ratio Lower Upper
50 100
52 20.5 24.3 36.5#





#5

Vinyl Chloride

Concen: 0.123 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

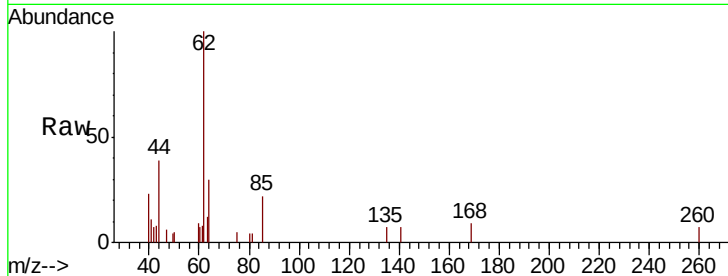
Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion: 62 Resp: 7796

Ion Ratio Lower Upper

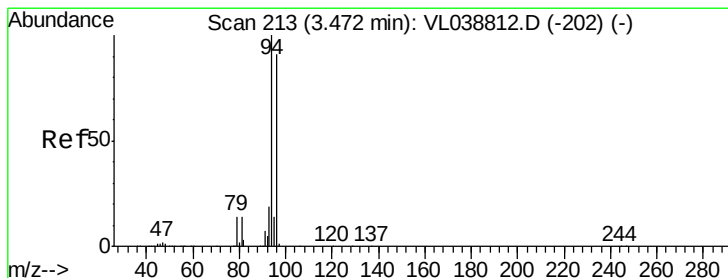
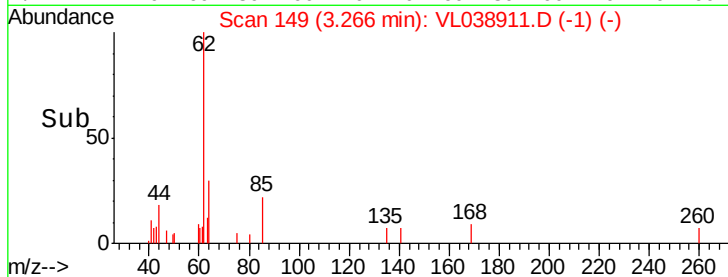
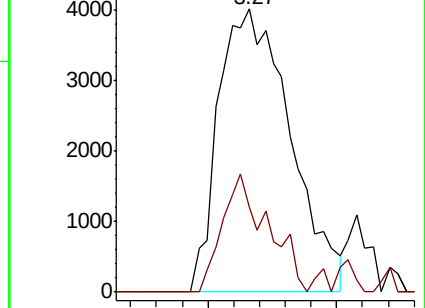
62 100

64 29.8 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: 0.089 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.01 min

Lab File: VL038911.D

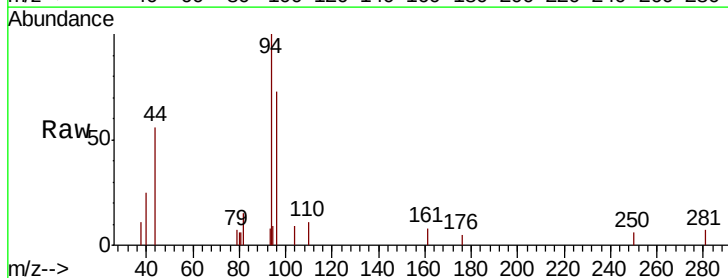
Acq: 13 Apr 2022 20:10

Tgt Ion: 94 Resp: 2742

Ion Ratio Lower Upper

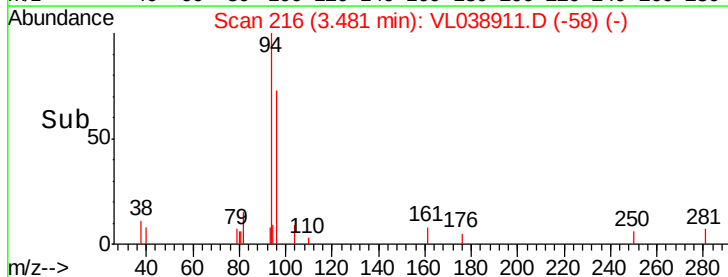
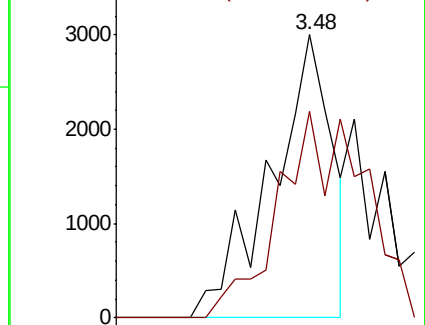
94 100

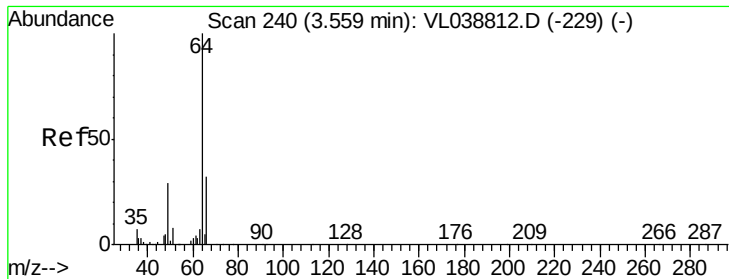
96 66.9 73.2 109.8#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.057 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

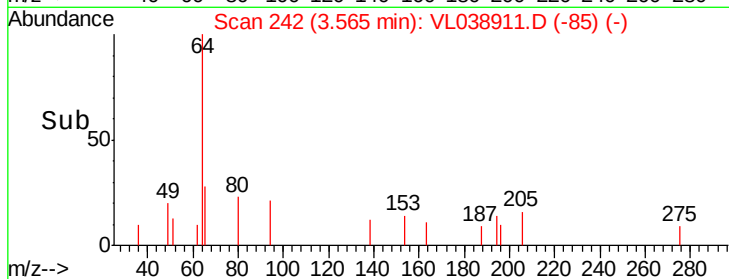
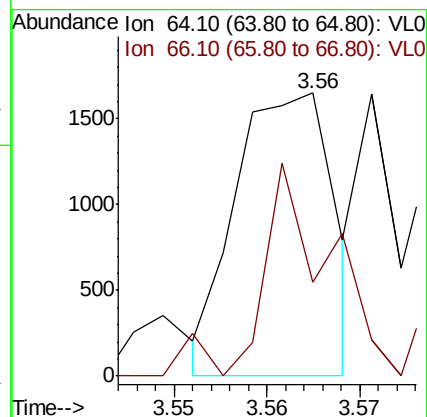
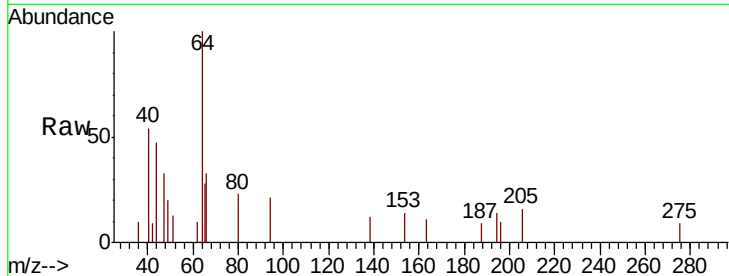
Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion: 64 Resp: 1212

Ion Ratio Lower Upper

64 100

66 33.0 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 0.120 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.01 min

Lab File: VL038911.D

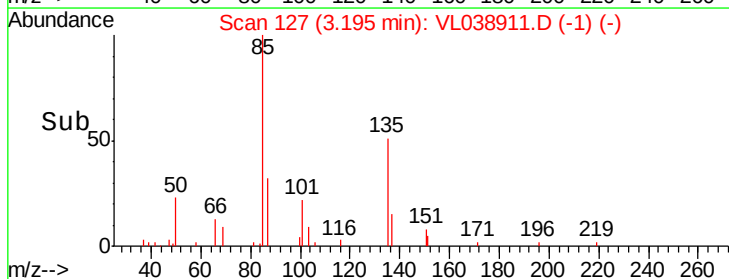
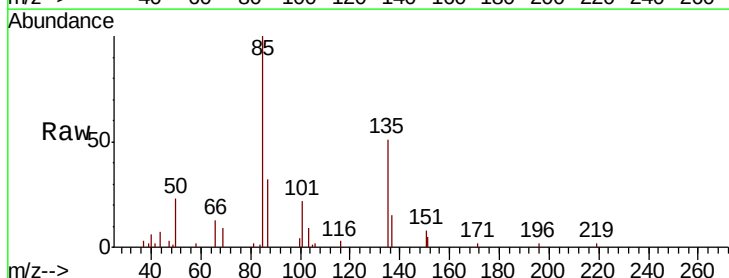
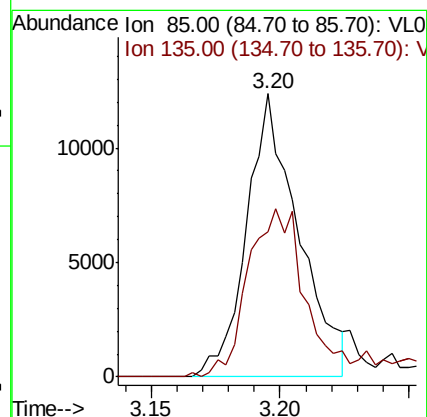
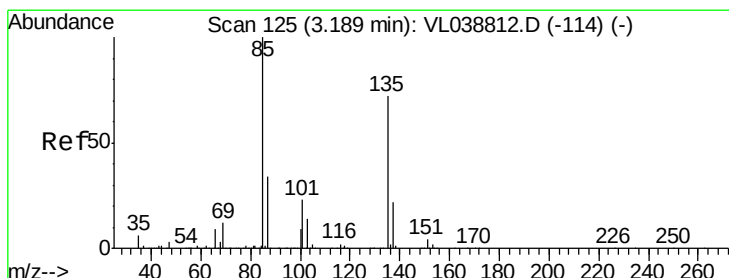
Acq: 13 Apr 2022 20:10

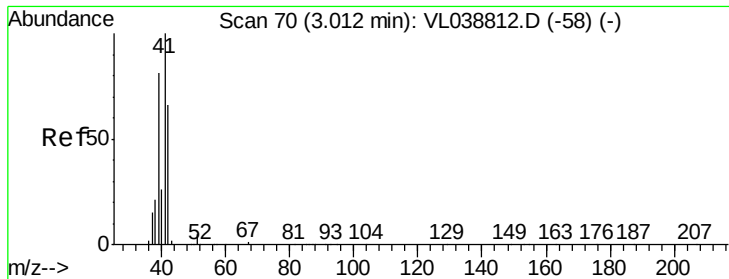
Tgt Ion: 85 Resp: 17346

Ion Ratio Lower Upper

85 100

135 73.8 57.0 85.6





#9

Propene

Concen: 0.071 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

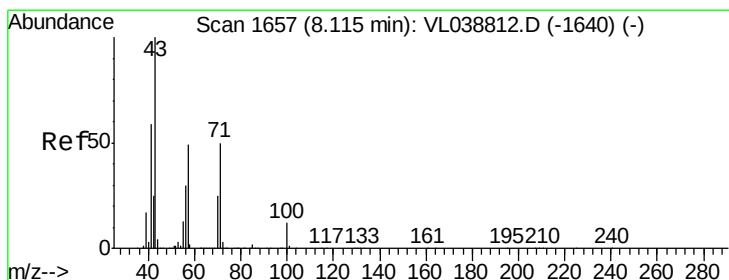
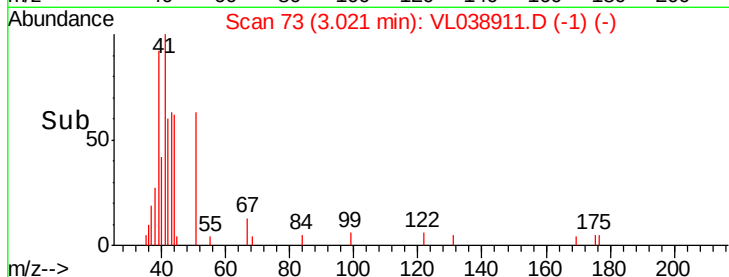
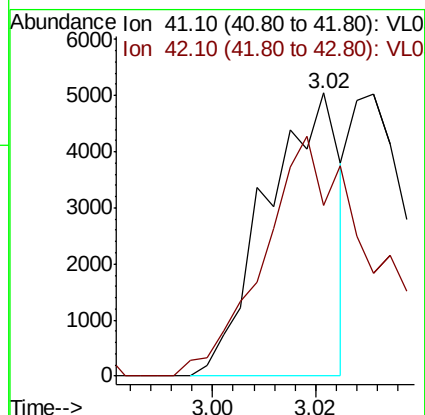
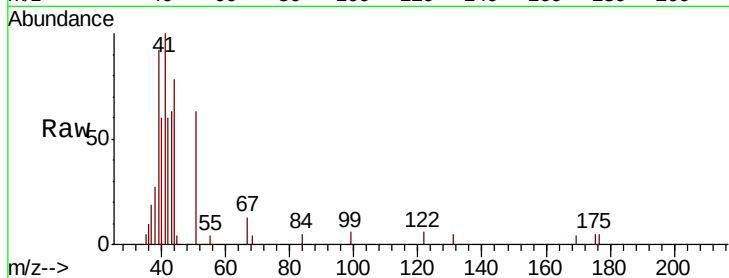
Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion: 41 Resp: 4982

Ion Ratio Lower Upper

41 100

42 149.4 54.2 81.4#



#10

Heptane

Concen: 0.049 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.02 min

Lab File: VL038911.D

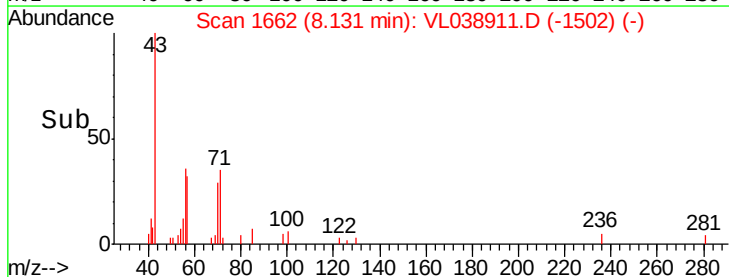
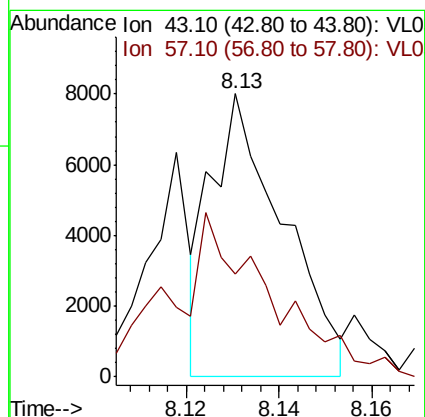
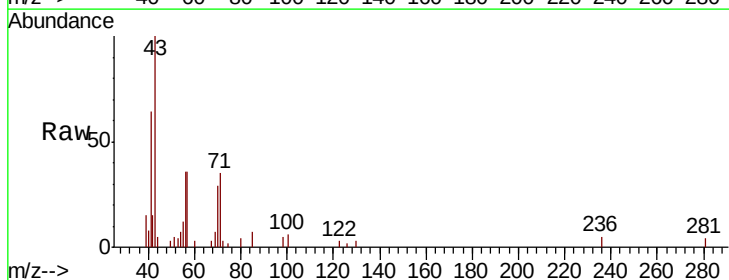
Acq: 13 Apr 2022 20:10

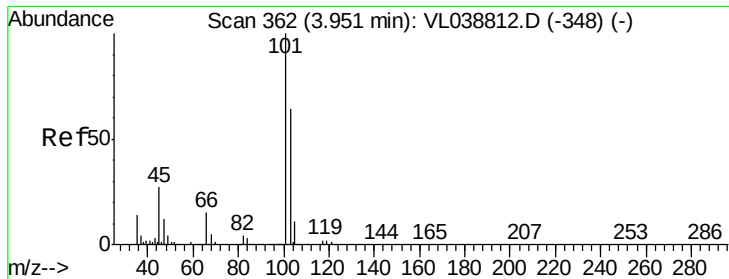
Tgt Ion: 43 Resp: 8673

Ion Ratio Lower Upper

43 100

57 88.8 39.3 58.9#





#11

Trichlorofluoromethane

Concen: 0.123 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

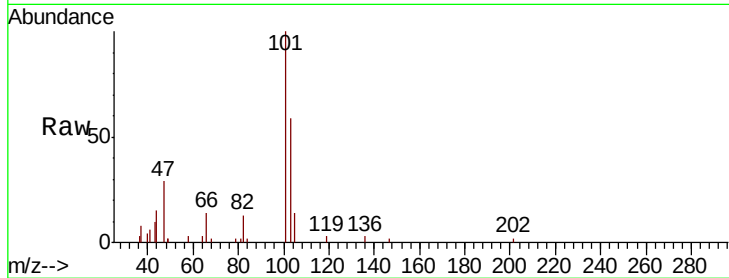
Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion:101 Resp: 15296

Ion Ratio Lower Upper

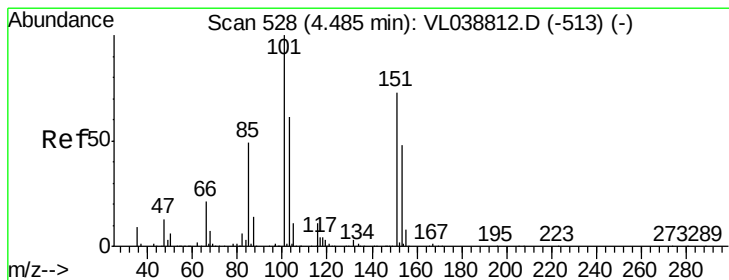
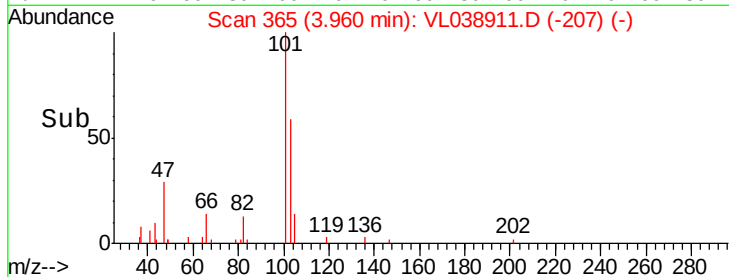
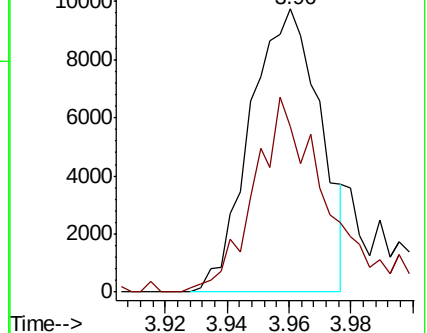
101 100

103 56.9 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.084 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.01 min

Lab File: VL038911.D

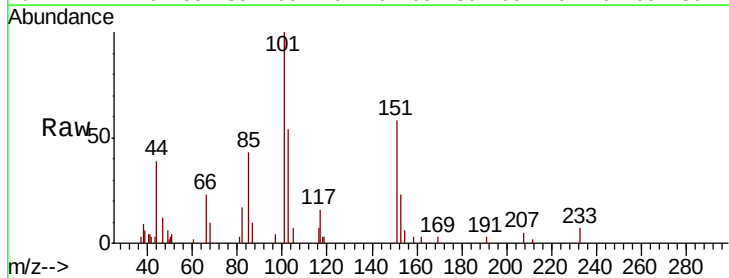
Acq: 13 Apr 2022 20:10

Tgt Ion:101 Resp: 7943

Ion Ratio Lower Upper

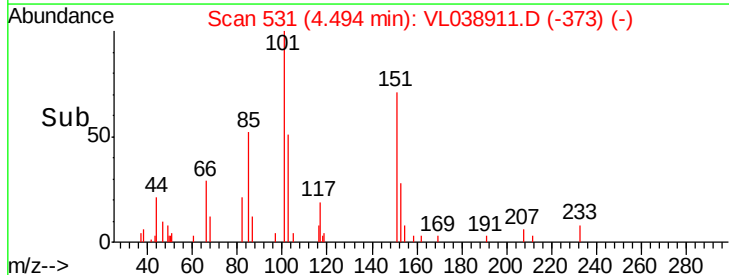
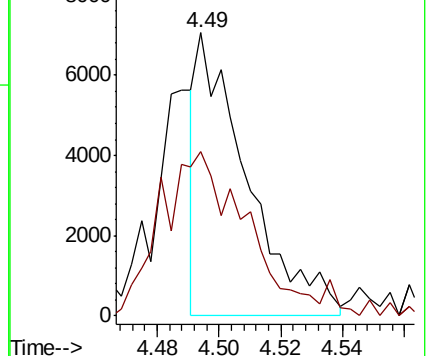
101 100

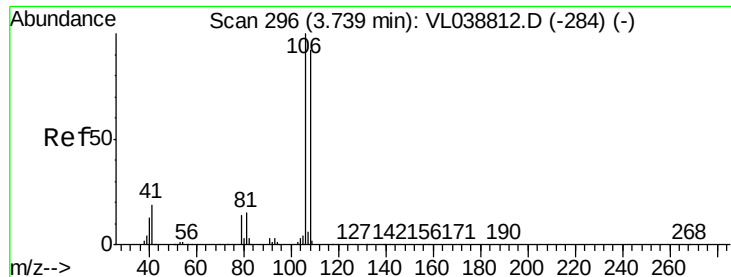
151 102.6 59.9 89.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.034 ppbv

RT: 3.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

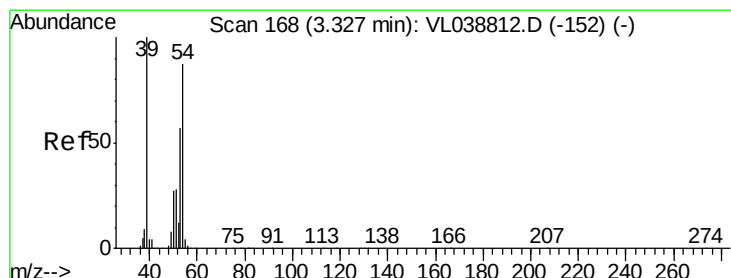
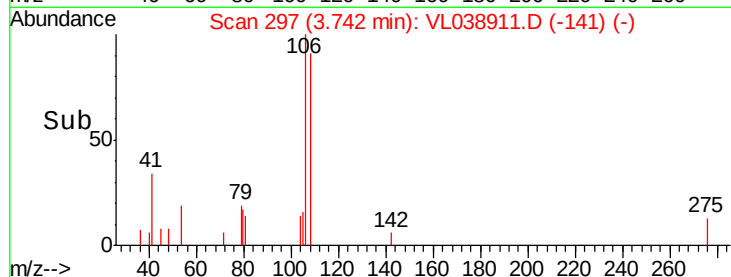
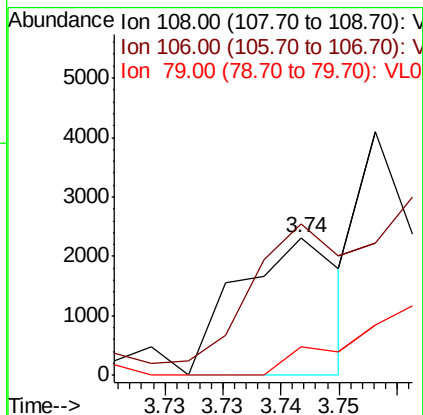
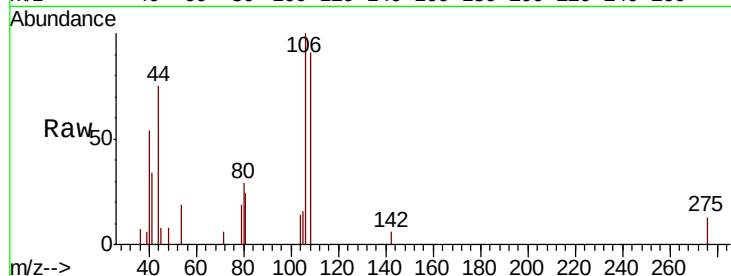
Tot Ion: 108 Resp: 1411

Ion Ratio Lower Upper

108 100

106 0.0 91.5 137.3#

79 0.0 13.7 20.5#



#16

1,3-Butadiene

Concen: 0.084 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.01 min

Lab File: VL038911.D

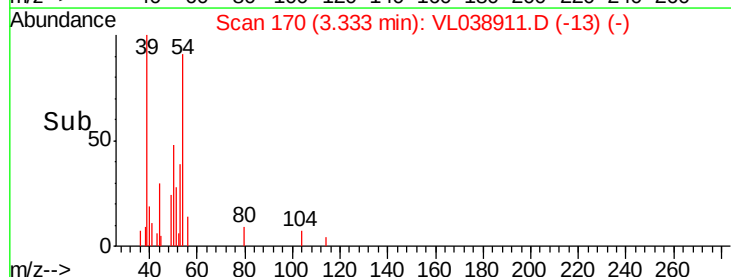
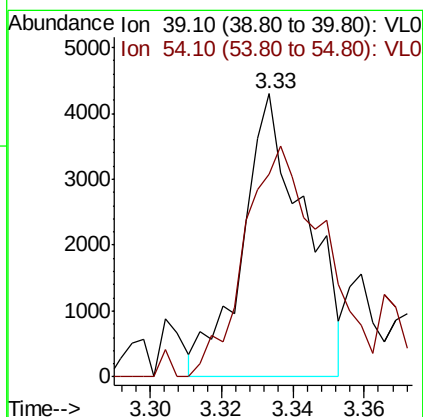
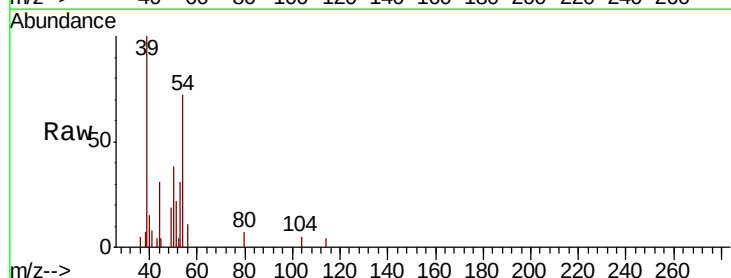
Acq: 13 Apr 2022 20:10

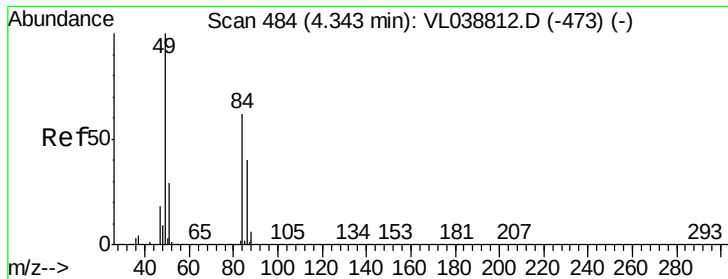
Tgt Ion: 39 Resp: 5190

Ion Ratio Lower Upper

39 100

54 123.8 64.8 97.2#





#20

Methylene Chloride

Concen: 0.110 ppbv

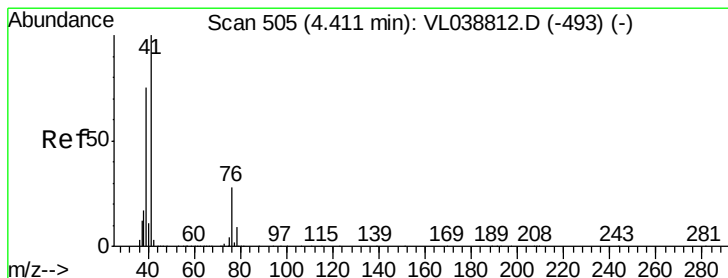
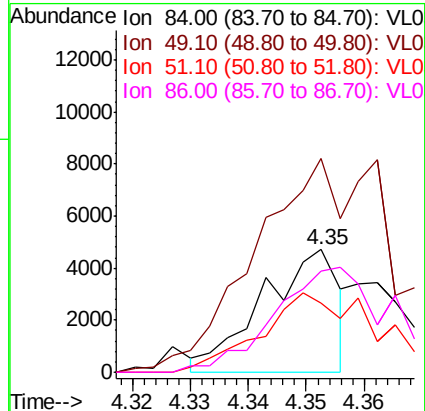
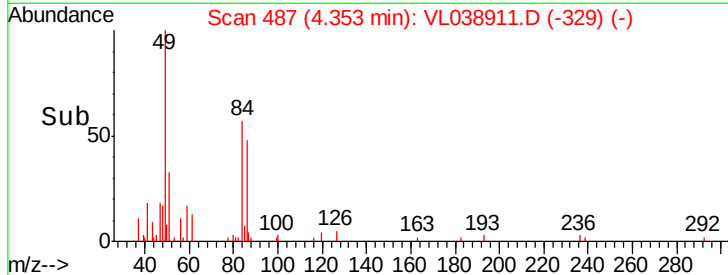
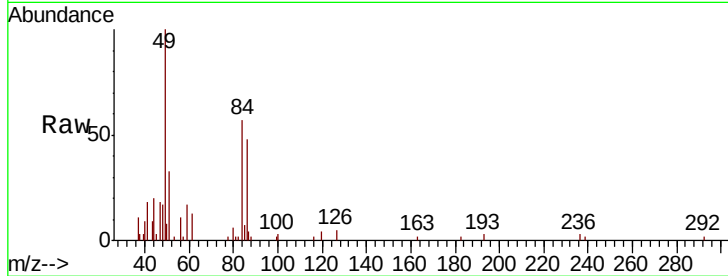
RT: 4.35 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion:	84	Resp:	4311
Ion	Ratio	Lower	Upper
84	100		
49	176.2	129.4	194.0
51	59.2	37.4	56.2#
86	87.5	51.4	77.2#



#21

Allyl Chloride

Concen: 0.043 ppbv

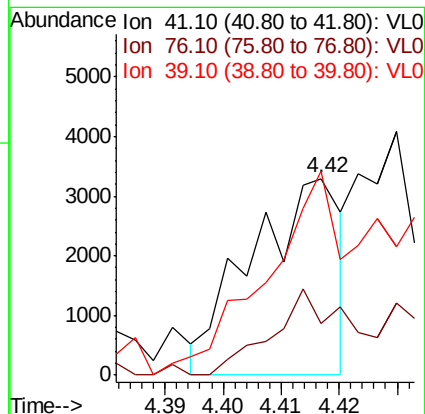
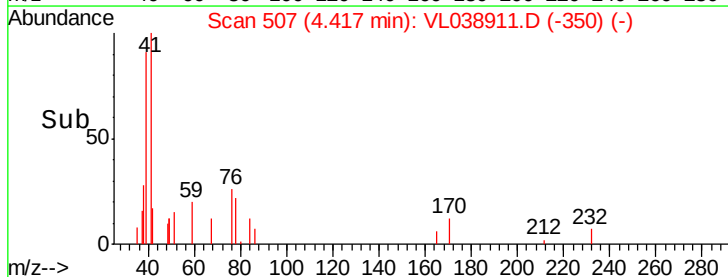
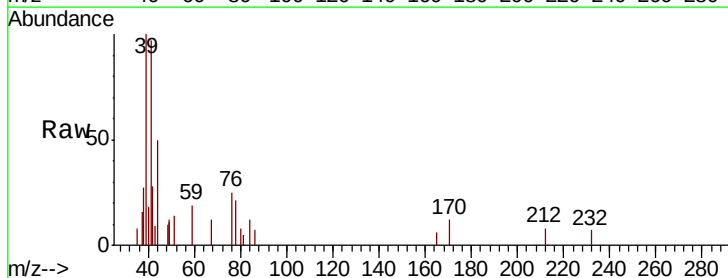
RT: 4.42 min Scan# 507

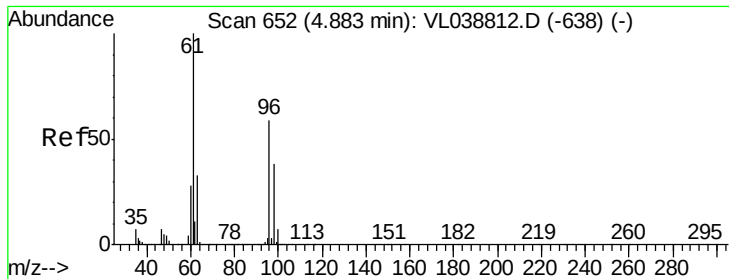
Delta R.T. 0.01 min

Lab File: VL038911.D

Acq: 13 Apr 2022 20:10

Tgt Ion:	41	Resp:	3519
Ion	Ratio	Lower	Upper
41	100		
76	66.7	23.7	35.5#
39	184.1	62.0	93.0#





#22

trans-1,2-Dichloroethene

Concen: 0.071 ppbv

RT: 4.89 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

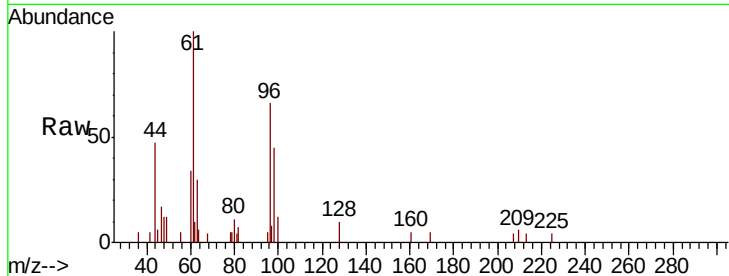
Tot Ion: 96 Resp: 3119

Ion Ratio Lower Upper

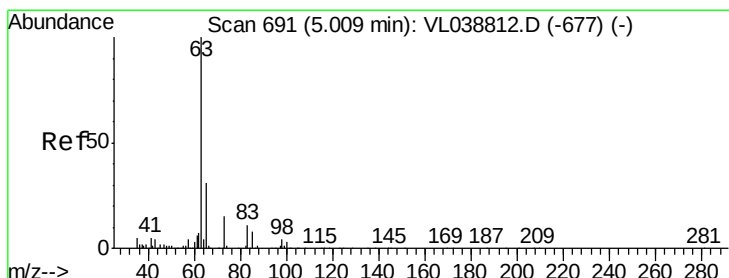
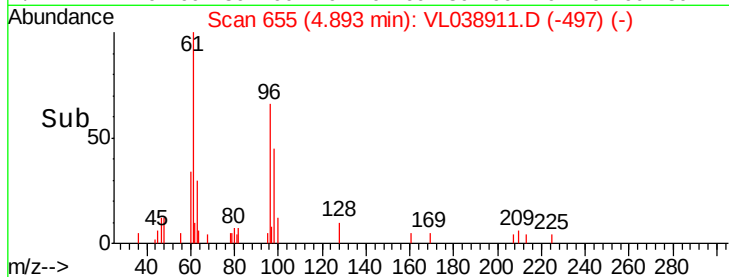
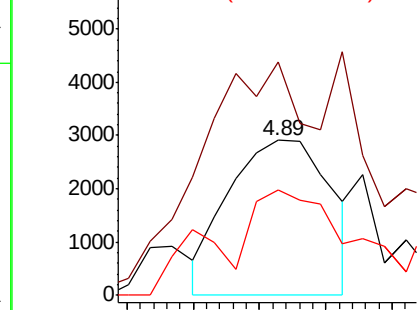
96 100

61 96.9 134.8 202.2#

98 44.4 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



#24

1,1-Dichloroethane

Concen: 0.061 ppbv

RT: 5.01 min Scan# 693

Delta R.T. 0.01 min

Lab File: VL038911.D

Acq: 13 Apr 2022 20:10

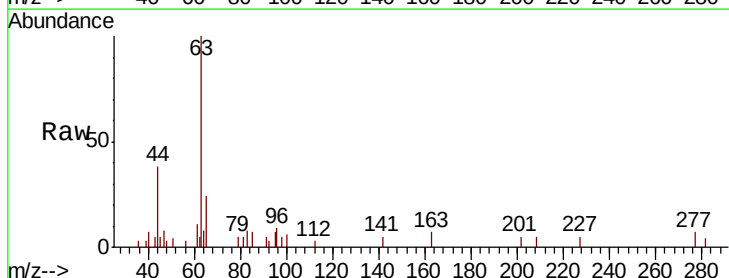
Tgt Ion: 63 Resp: 5848

Ion Ratio Lower Upper

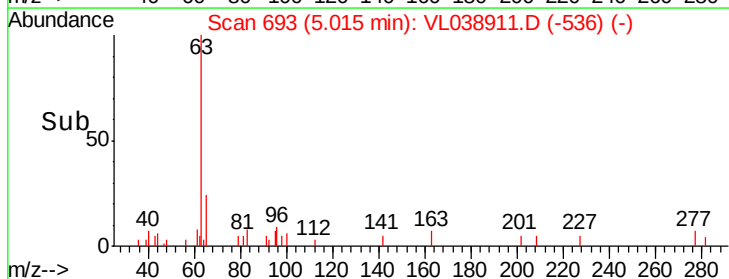
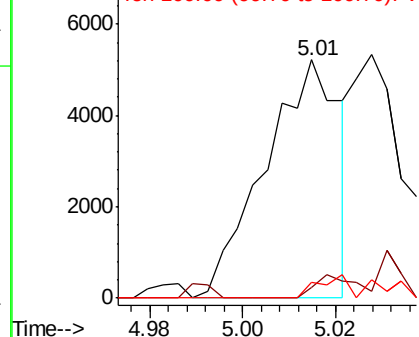
63 100

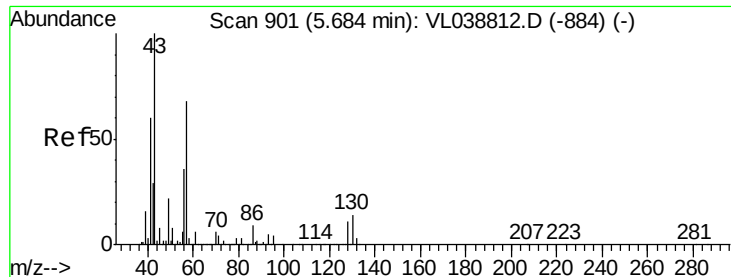
98 0.0 2.2 6.6#

100 6.5 1.4 4.0#



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





#26

Hexane

Concen: 0.085 ppbv

RT: 5.69 Instrument:

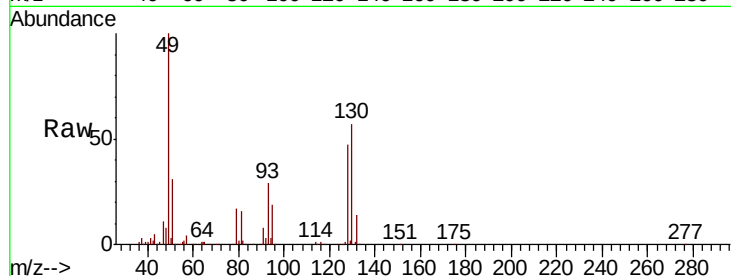
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion: 57 Resp: 10653

Ion	Ratio	Lower	Upper
57	100		
41	128.9	72.0	108.0#
43	0.0	186.6	280.0#
56	72.0	42.8	64.2#

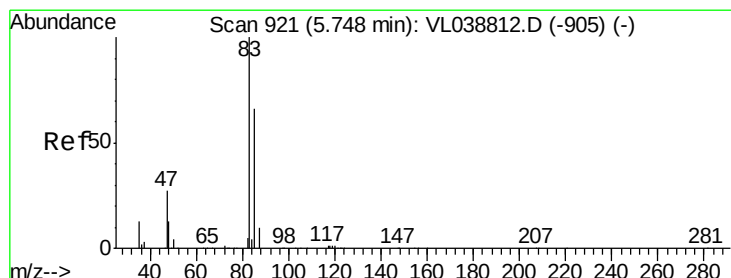
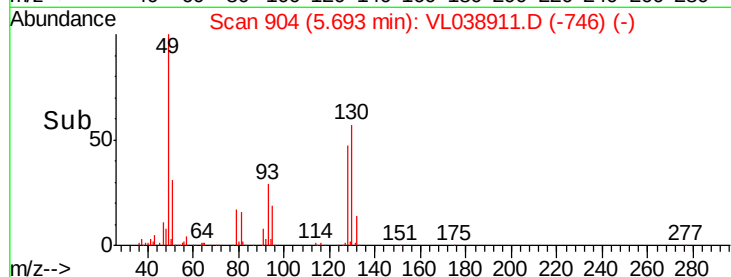
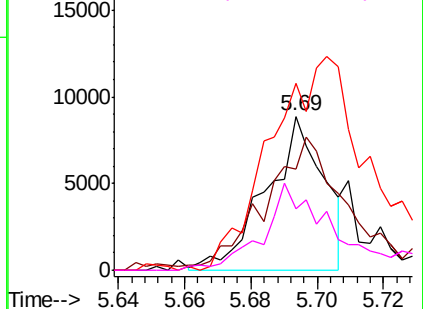


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.107 ppbv

RT: 5.76 min Scan# 924

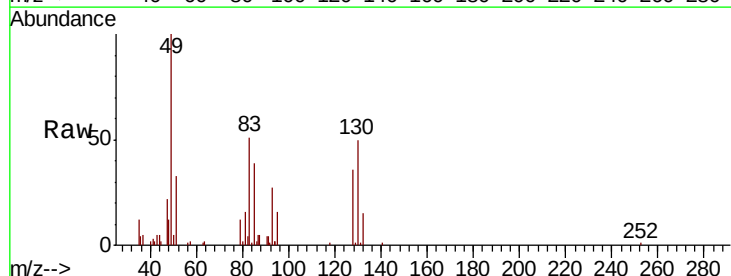
Delta R.T. 0.01 min

Lab File: VL038911.D

Acq: 13 Apr 2022 20:10

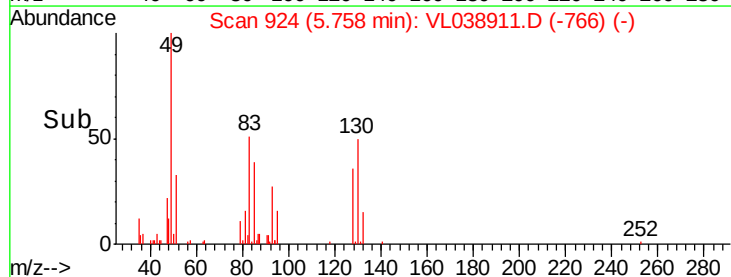
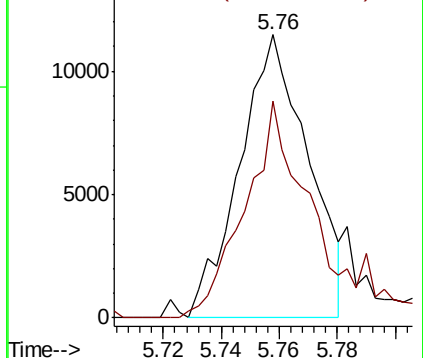
Tgt Ion: 83 Resp: 18820

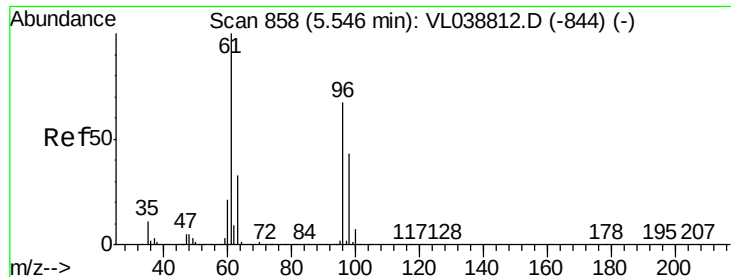
Ion	Ratio	Lower	Upper
83	100		
85	73.9	52.5	78.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

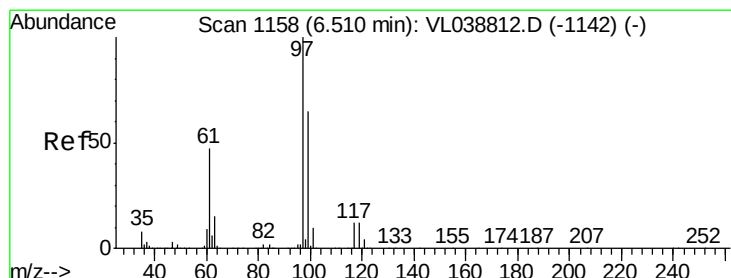
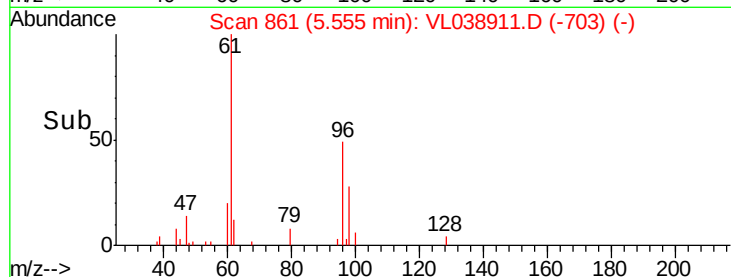
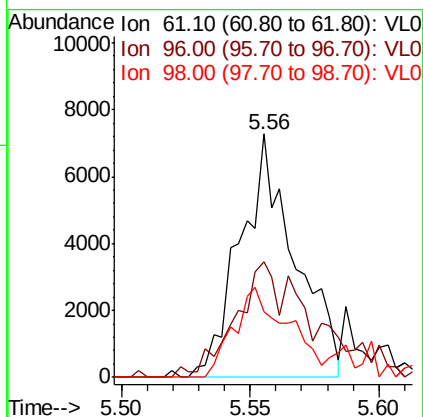
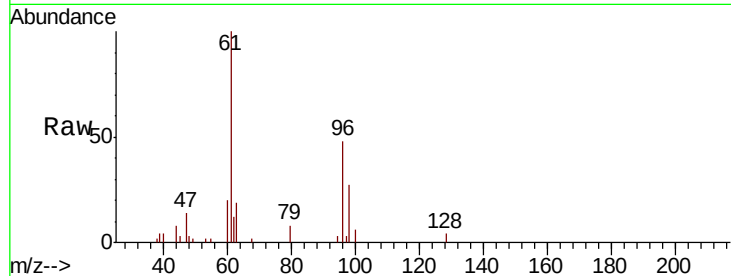
Ion 85.00 (84.70 to 85.70): VL0





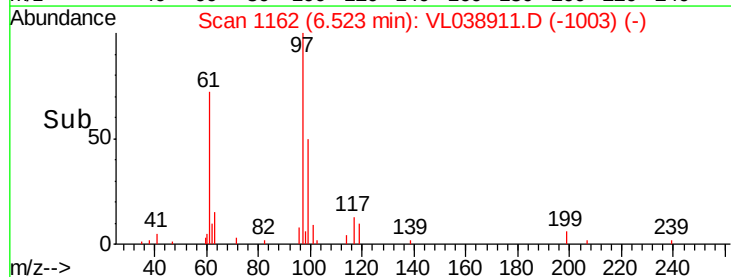
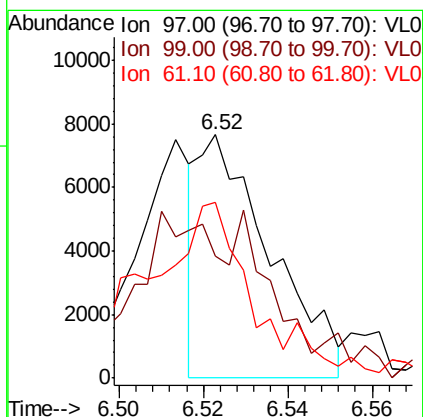
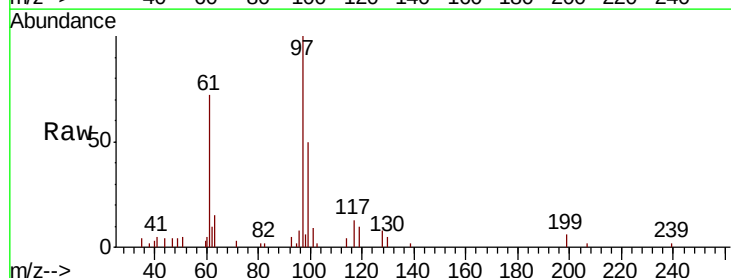
#31
 cis-1,2-Dichloroethene
 Concen: 0.093 ppbv
 RT: 5.56
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL 0.1 NAPHT.
 Acq: 13 Apr 2022 20:10

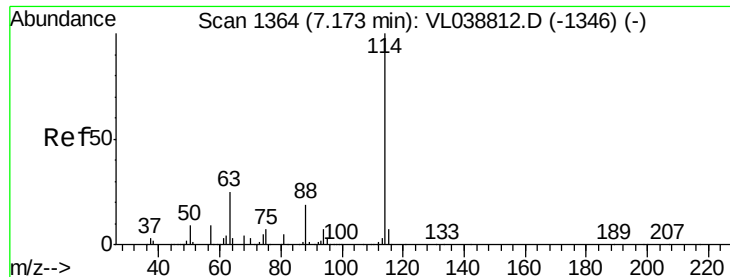
Tot Ion	Ratio	Lower	Upper
61	100		
96	45.3	53.4	80.0#
98	27.2	34.2	51.4#



#32
 1,1,1-Trichloroethane
 Concen: 0.051 ppbv
 RT: 6.52 min Scan# 1162
 Delta R.T. 0.01 min
 Lab File: VL038911.D
 Acq: 13 Apr 2022 20:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	127.7	52.4	78.6#
61	115.7	38.6	57.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

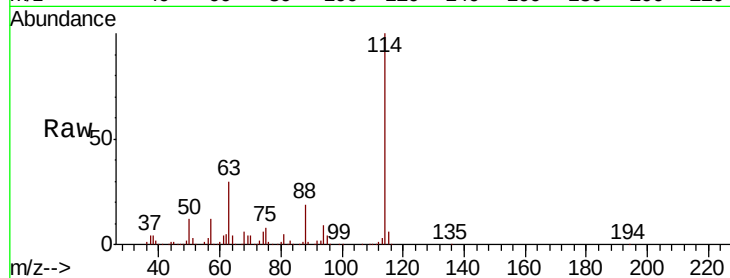
Tot Ion:114 Resp: 2602482

Ion Ratio Lower Upper

114 100

63 29.0 19.8 29.8

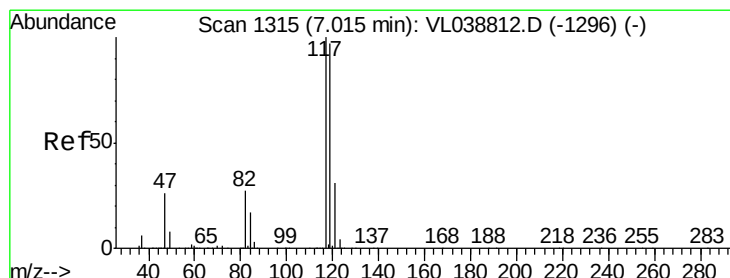
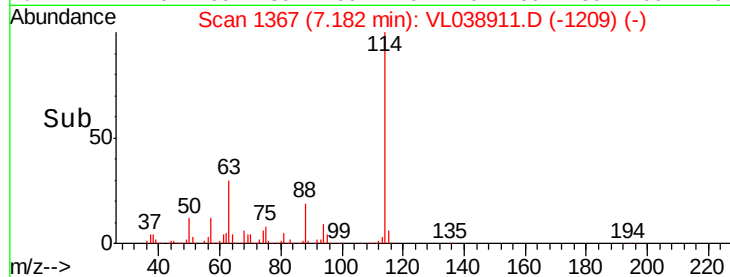
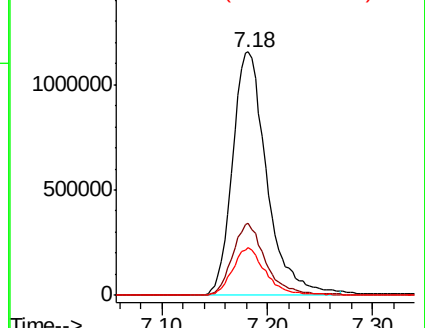
88 19.3 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#35

Carbon Tetrachloride

Concen: 0.062 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VL038911.D

Acq: 13 Apr 2022 20:10

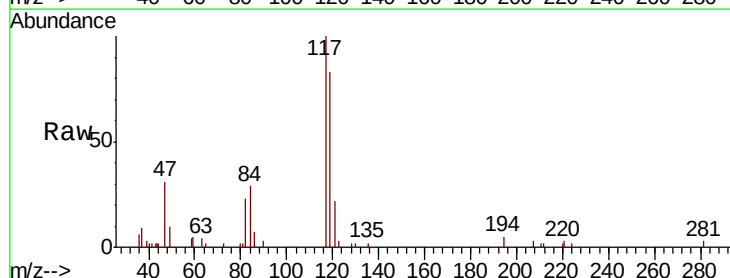
Tgt Ion:117 Resp: 9716

Ion Ratio Lower Upper

117 100

119 71.3 77.7 116.5#

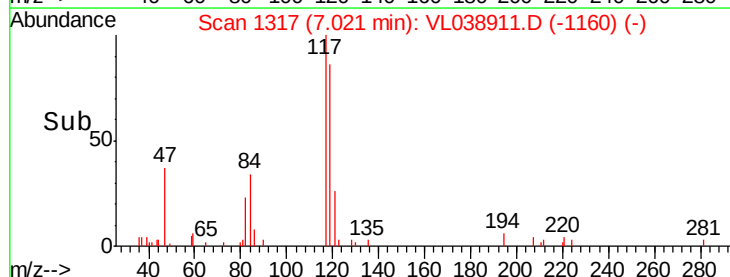
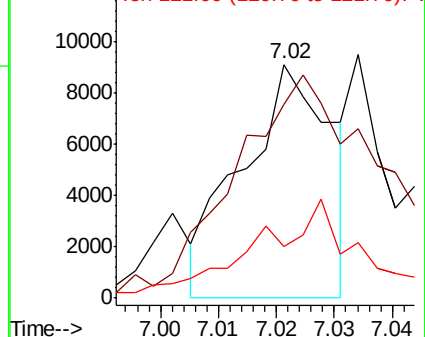
121 17.8 24.5 36.7#

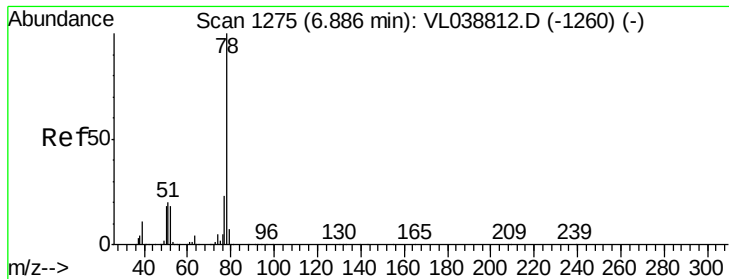


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.034 ppbv

RT: 6.90 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

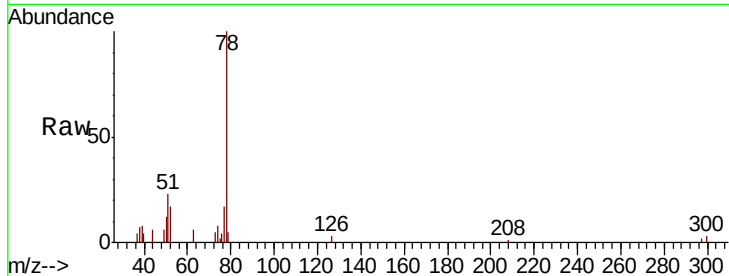
Tot Ion: 78 Resp: 8129

Ion Ratio Lower Upper

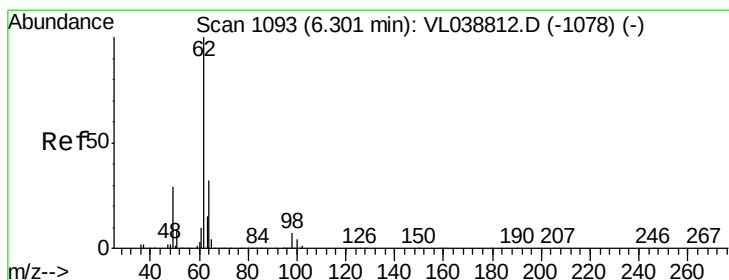
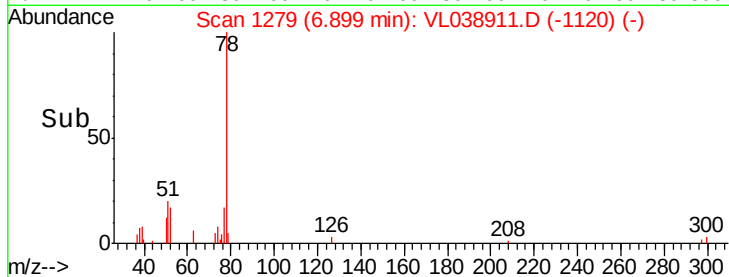
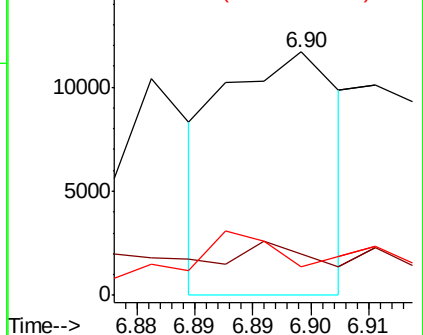
78 100

77 17.5 18.2 27.2#

50 5.1 14.0 21.0#



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



#37

1,2-Dichloroethane

Concen: 0.060 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. 0.01 min

Lab File: VL038911.D

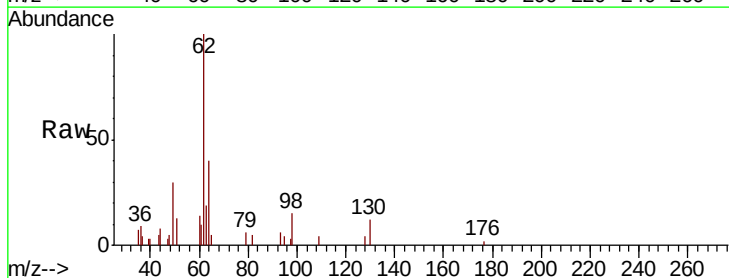
Acq: 13 Apr 2022 20:10

Tgt Ion: 62 Resp: 6473

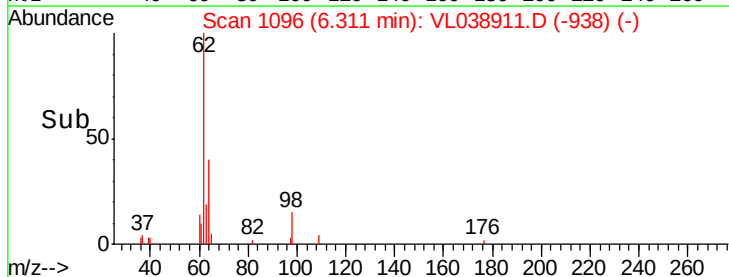
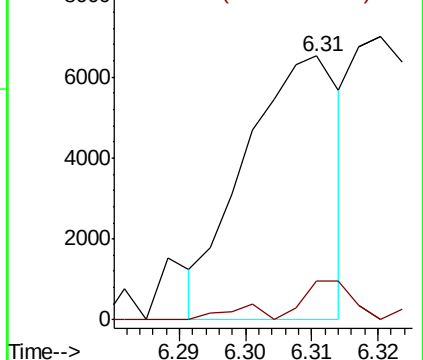
Ion Ratio Lower Upper

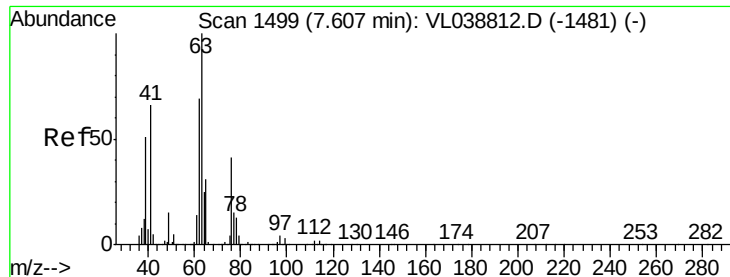
62 100

98 12.3 5.9 8.9#



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





#39

1,2-Dichloropropane

Concen: 0.083 ppbv

RT: 7.25 Instrument: MSVOA_1

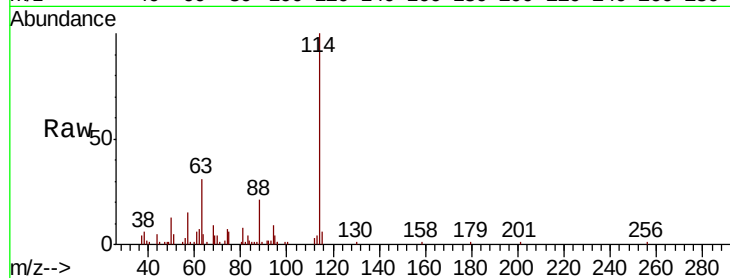
Delta R.T.

Lab File: ClientSampleId:

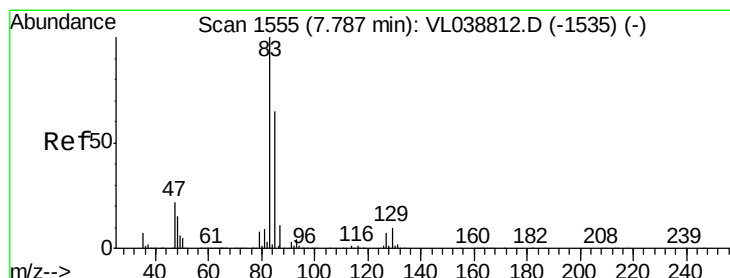
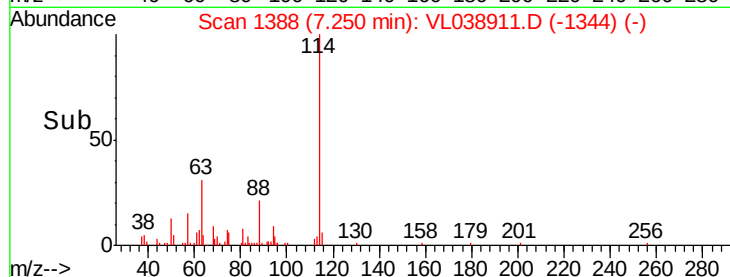
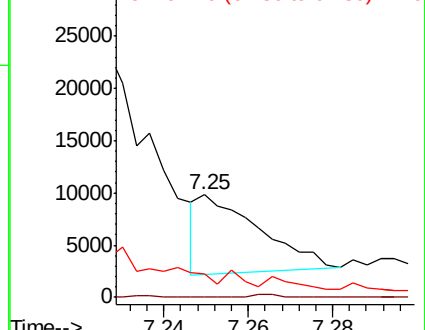
Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion: 63 Resp: 7498

Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	21.4	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: 0.038 ppbv

RT: 7.80 min Scan# 1560

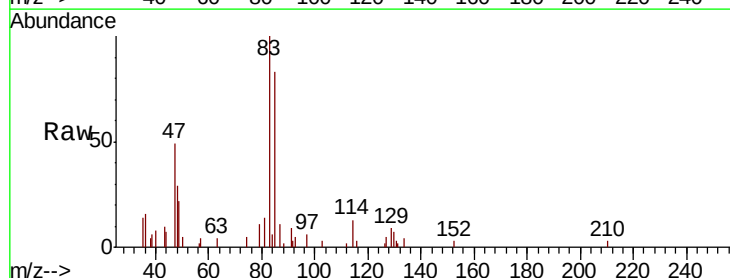
Delta R.T. 0.02 min

Lab File: VL038911.D

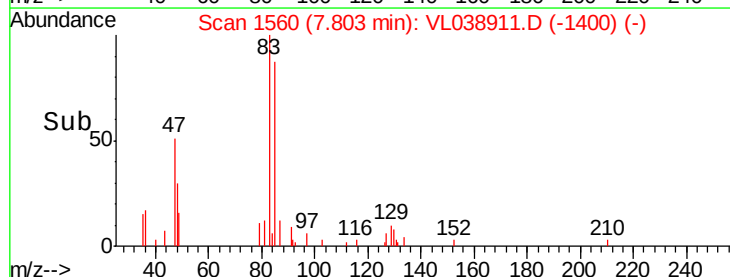
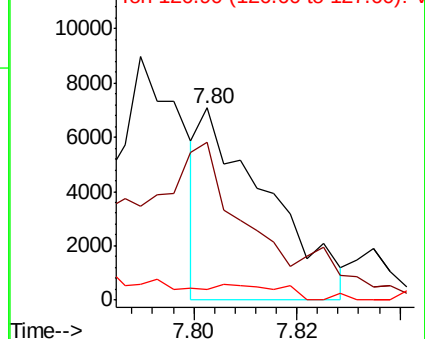
Acq: 13 Apr 2022 20:10

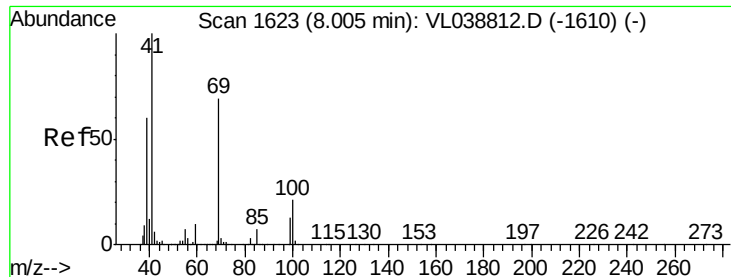
Tgt Ion: 83 Resp: 6427

Ion	Ratio	Lower	Upper
83	100		
85	84.5	51.7	77.5#
127	1.7	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): V





#43

Methyl Methacrylate

Concen: 0.033 ppbv

RT: 8.02 Instrument: MSVOA_1

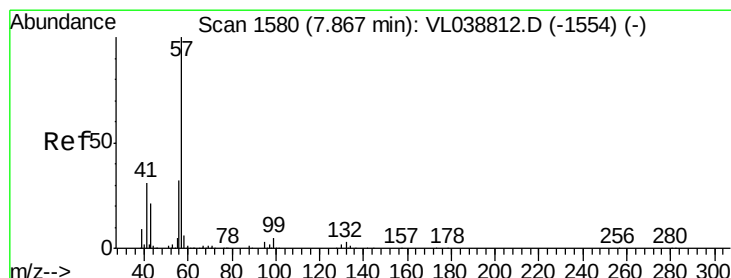
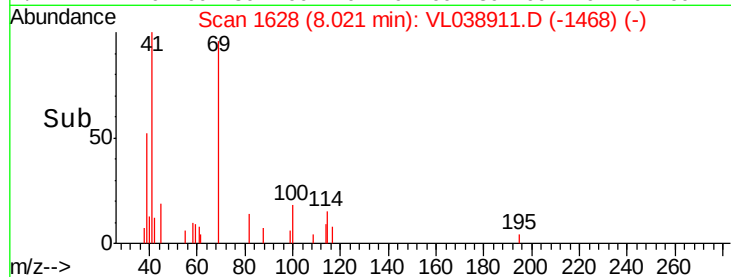
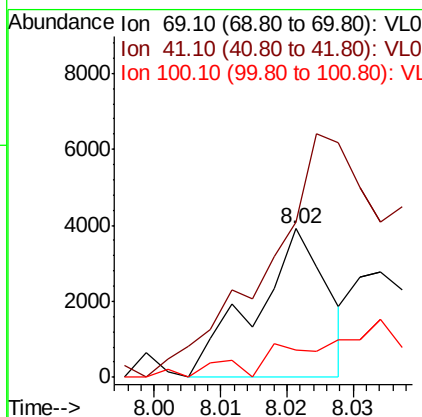
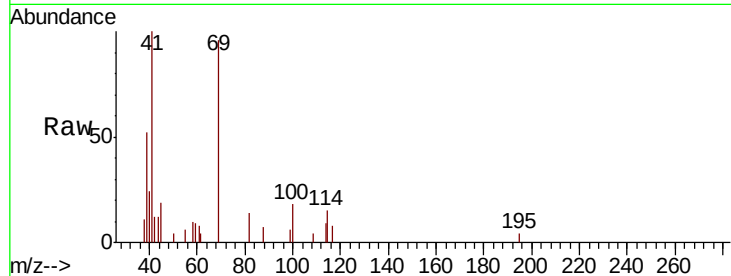
Delta R.T. ClientSampleId:

Lab File: MDL 0.1 NAPHT.

Acq: 13 Apr 2022 20:10

Tot Ion: 69 Resp: 2948

Ion	Ratio	Lower	Upper
69	100		
41	475.4	119.0	178.4#
100	0.0	26.4	39.6#



#44

2,2,4-Trimethylpentane

Concen: 0.032 ppbv

RT: 7.88 min Scan# 1585

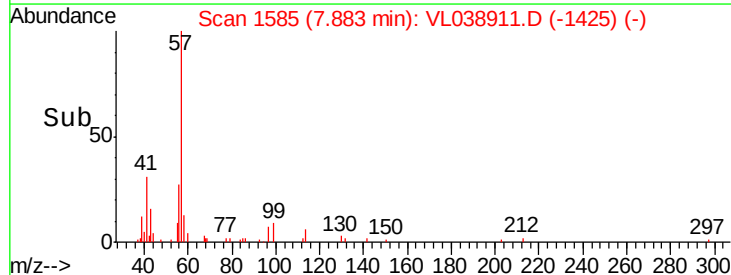
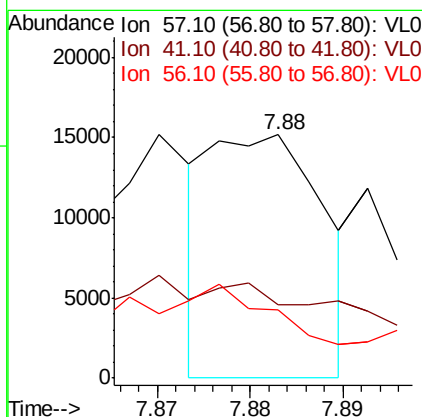
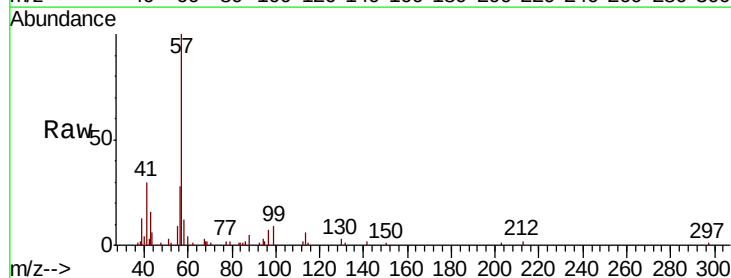
Delta R.T. 0.02 min

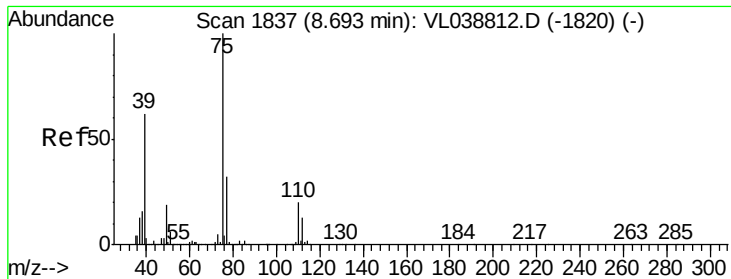
Lab File: VL038911.D

Acq: 13 Apr 2022 20:10

Tgt Ion: 57 Resp: 12697

Ion	Ratio	Lower	Upper
57	100		
41	0.0	25.0	37.4#
56	91.9	25.3	37.9#





#46

cis-1,3-Dichloropropene

Concen: 0.033 ppbv

RT: 8.70 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

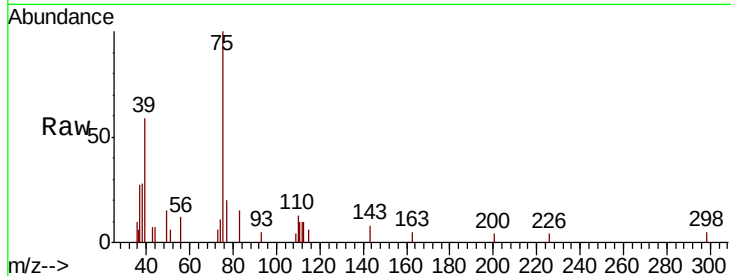
Tot Ion: 75 Resp: 4170

Ion Ratio Lower Upper

75 100

39 44.2 49.7 74.5#

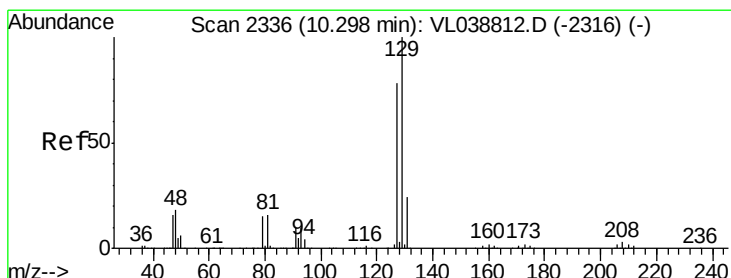
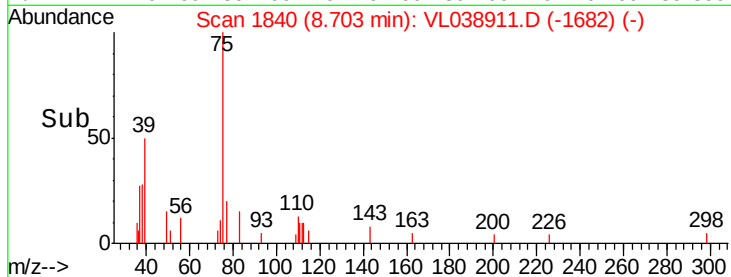
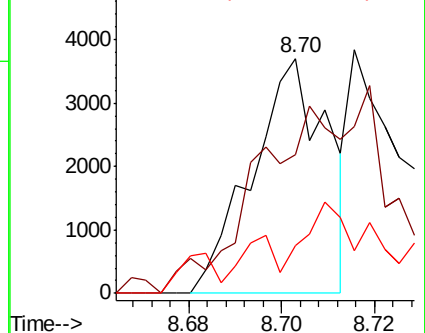
77 4.2 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



#48

Dibromochloromethane

Concen: 0.065 ppbv

RT: 10.31 min Scan# 2340

Delta R.T. 0.01 min

Lab File: VL038911.D

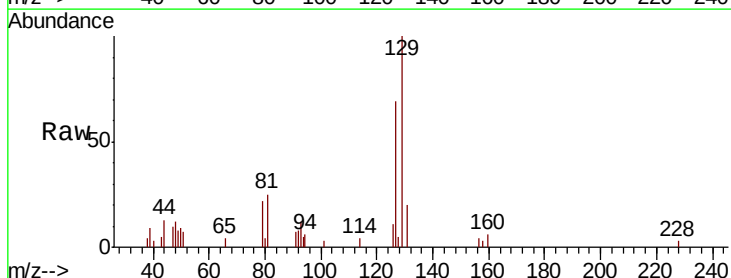
Acq: 13 Apr 2022 20:10

Tgt Ion: 129 Resp: 9488

Ion Ratio Lower Upper

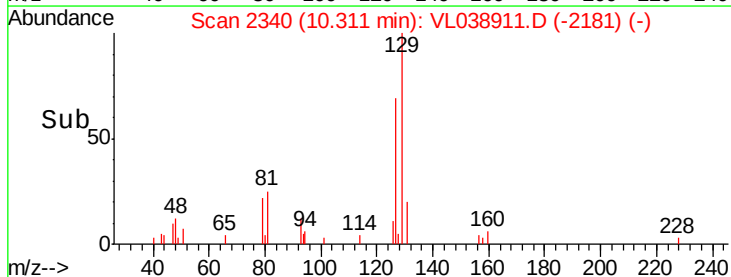
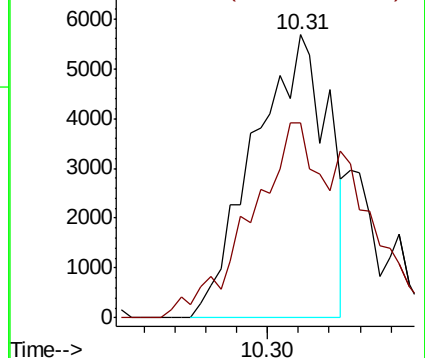
129 100

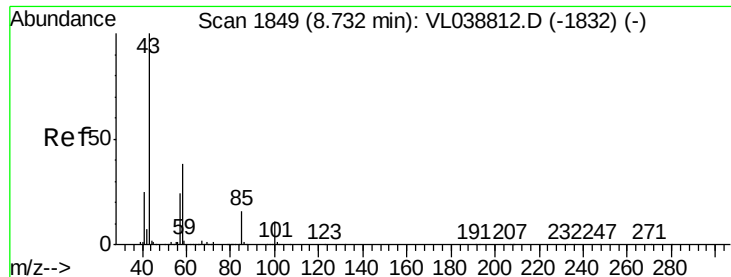
127 101.9 38.9 116.6



Abundance Ion 129.00 (128.70 to 129.70): V

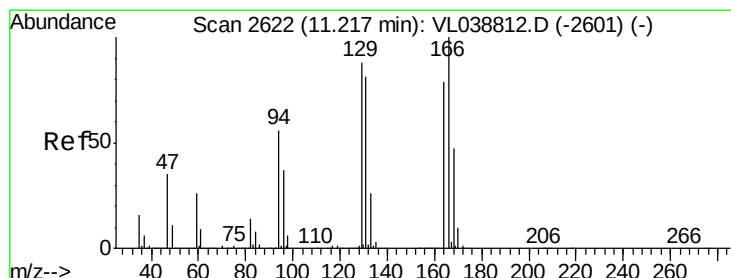
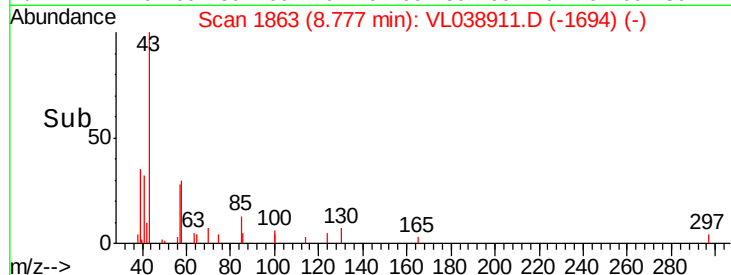
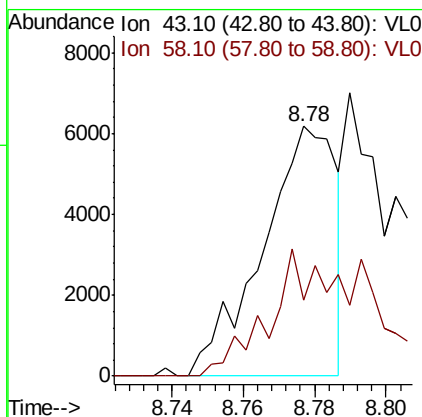
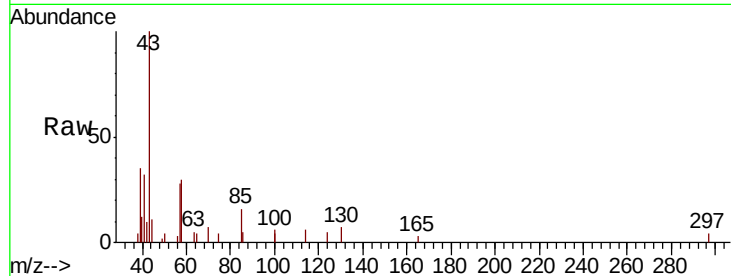
Ion 127.00 (126.70 to 127.70): V





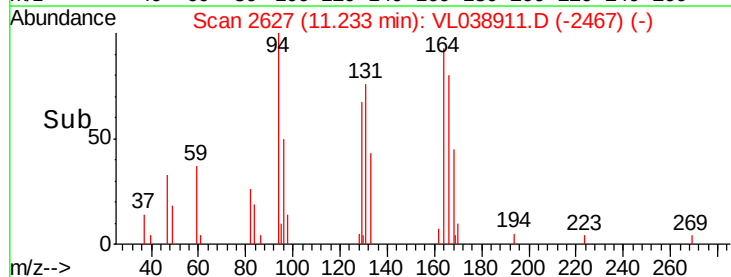
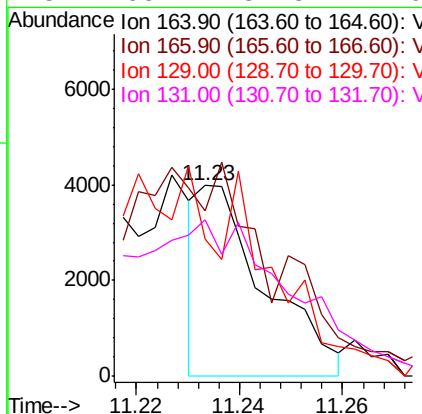
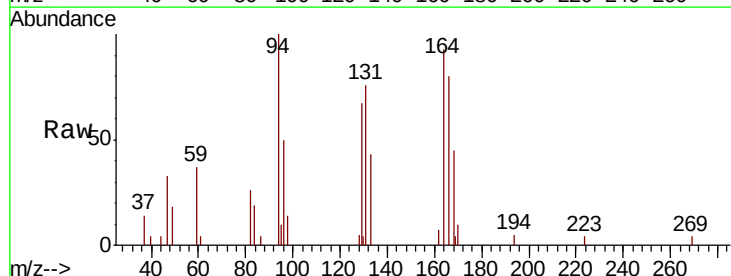
#50
4-Methyl-2-Pentanone
Concen: 0.038 ppbv
RT: 8.78 min
Delta R.T.: MSVOA_1
Lab File: ClientSampleId:
Acq: 13 Apr 2022 20:10

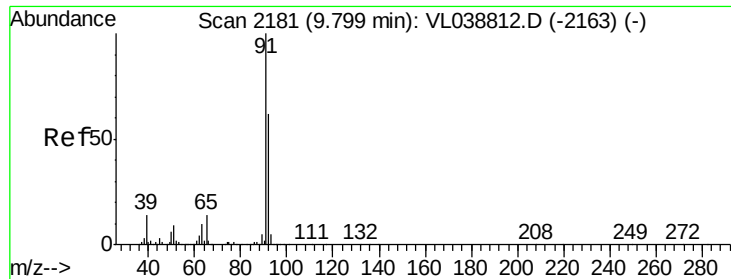
Tot Ion: 43 Resp: 8831
Ion Ratio Lower Upper
43 100
58 76.8 29.0 43.6#



#52
Tetrachloroethene
Concen: 0.043 ppbv
RT: 11.23 min Scan# 2627
Delta R.T.: 0.02 min
Lab File: VL038911.D
Acq: 13 Apr 2022 20:10

Tgt Ion: 164 Resp: 3565
Ion Ratio Lower Upper
164 100
166 75.3 101.0 151.6#
129 69.5 88.7 133.1#
131 65.7 81.8 122.6#





#53

Toluene

Concen: 0.035 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

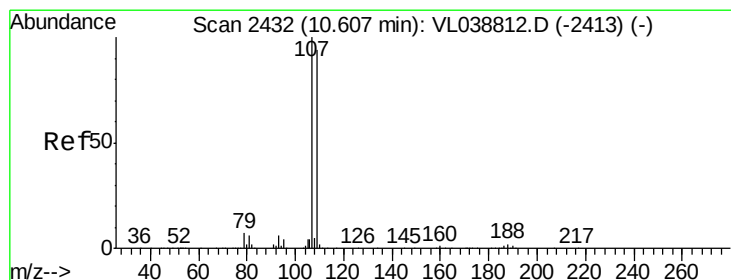
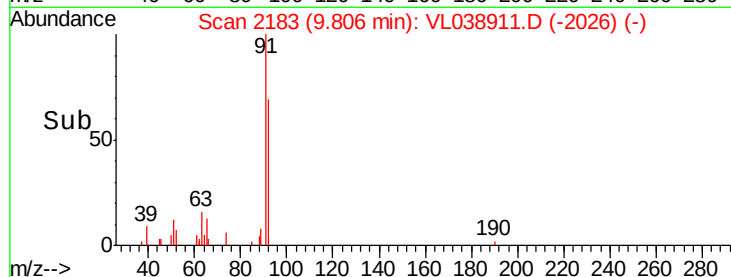
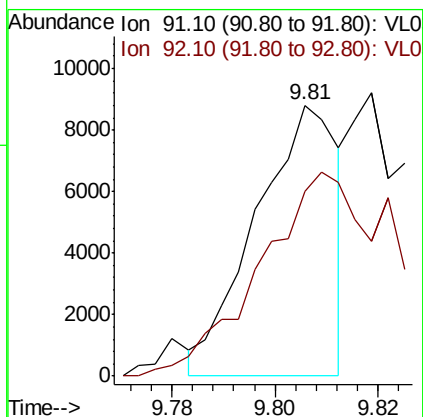
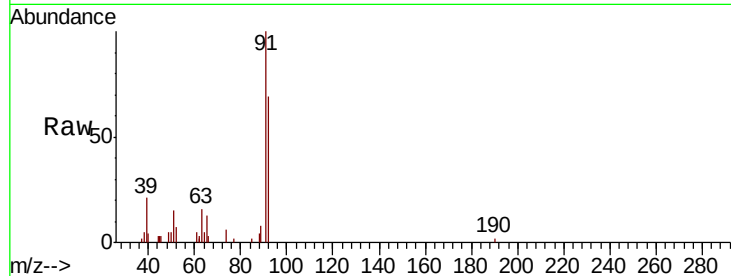
Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion: 91 Resp: 9683

Ion Ratio Lower Upper

91 100

92 144.9 49.2 73.8#



#54

1,2-Dibromoethane

Concen: 0.030 ppbv

RT: 10.61 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL038911.D

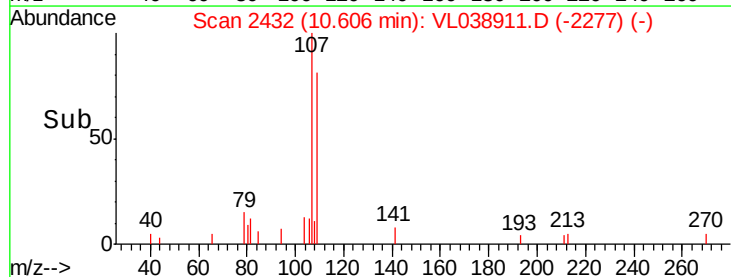
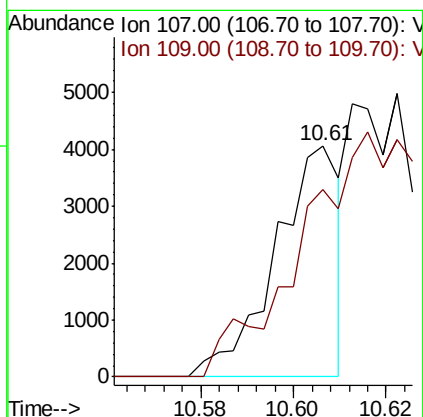
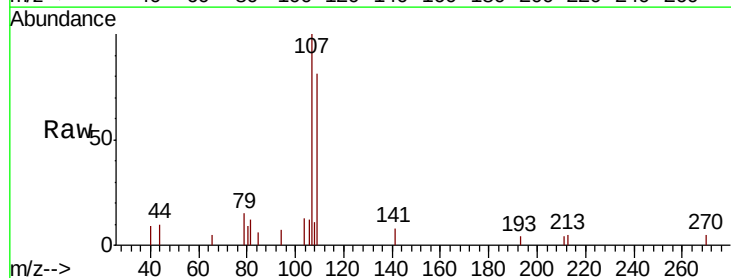
Acq: 13 Apr 2022 20:10

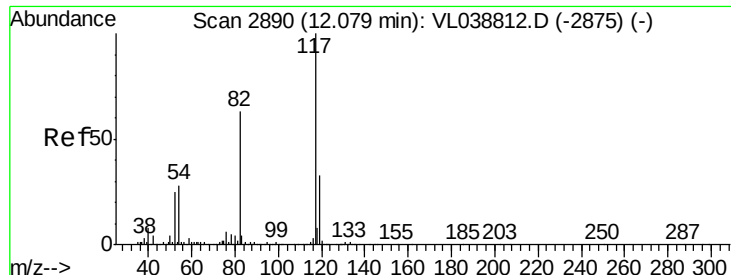
Tgt Ion:107 Resp: 3907

Ion Ratio Lower Upper

107 100

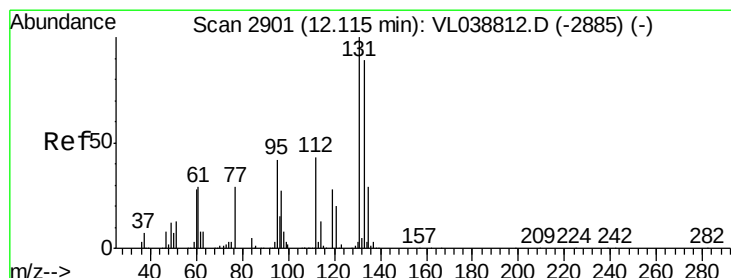
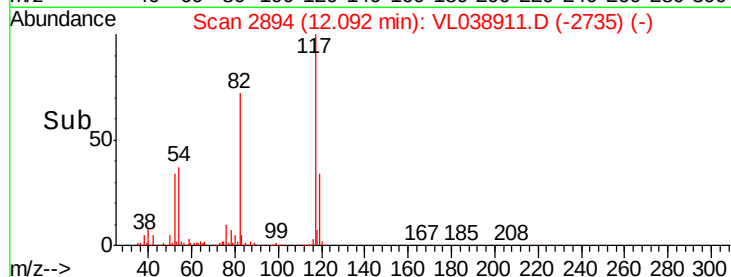
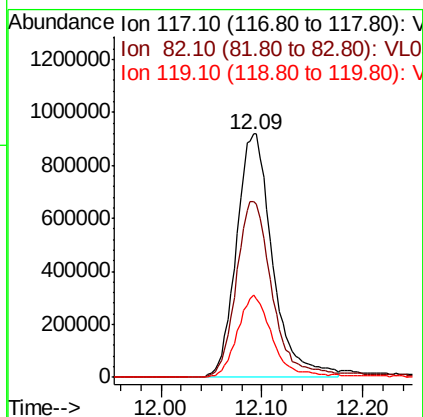
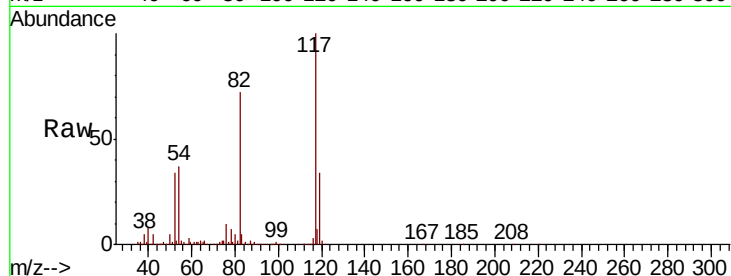
109 81.0 75.5 113.3





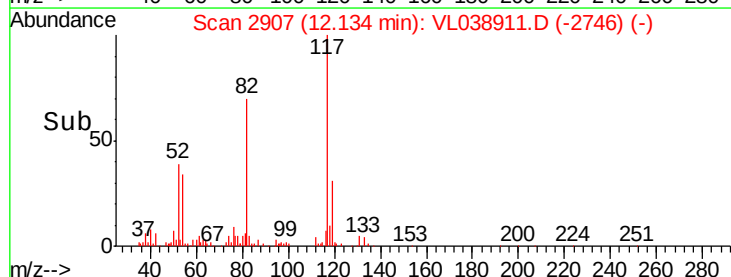
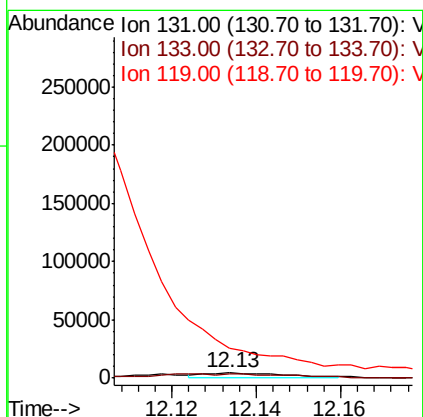
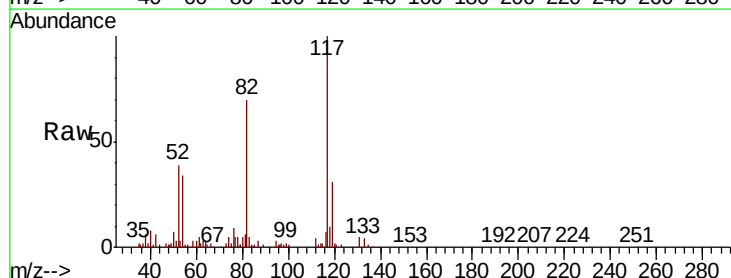
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 13 Apr 2022 20:10

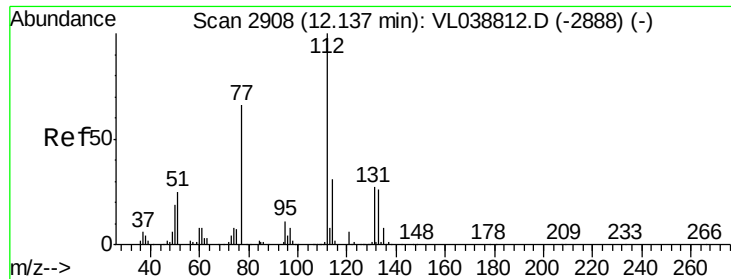
Tot Ion:117 Resp: 2283480
Ion Ratio Lower Upper
117 100
82 73.4 53.0 79.6
119 34.3 24.9 37.3



#56
1,1,1,2-Tetrachloroethane
Concen: 0.060 ppbv
RT: 12.13 min Scan# 2907
Delta R.T.: 0.02 min
Lab File: VL038911.D
Acq: 13 Apr 2022 20:10

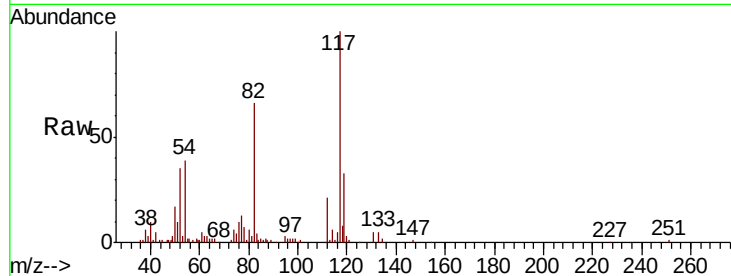
Tgt Ion:131 Resp: 5974
Ion Ratio Lower Upper
131 100
133 0.0 78.2 117.4#
119 0.0 58.6 87.8#



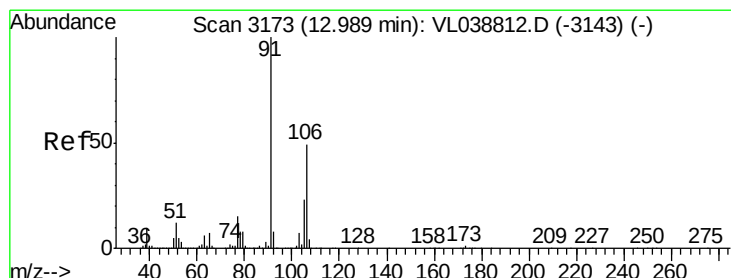
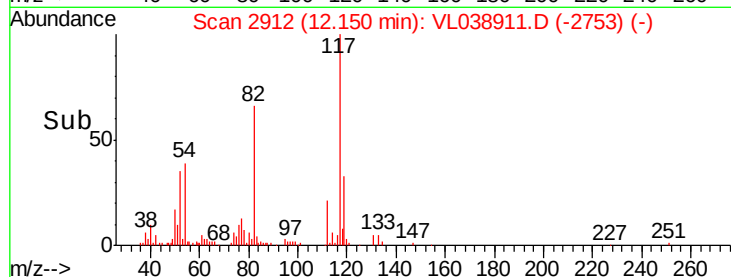
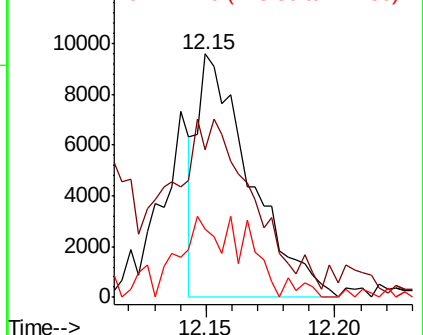


#57
Chlorobenzene
Concen: 0.073 ppbv
RT: 12.15 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion: 112 Resp: 13658
Ion Ratio Lower Upper
112 100
77 55.0 52.4 78.6
114 28.3 28.1 34.3

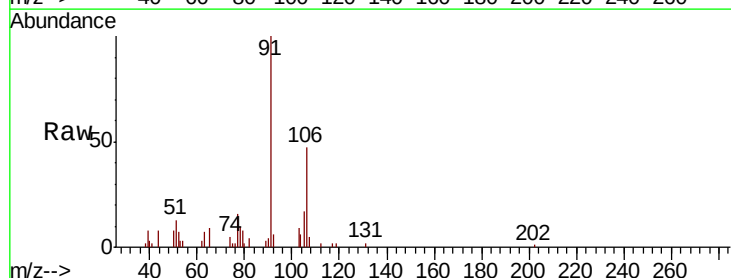


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

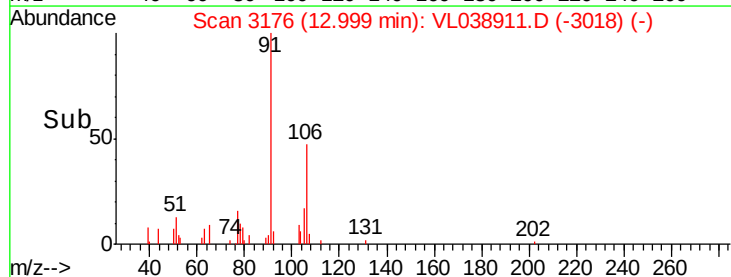
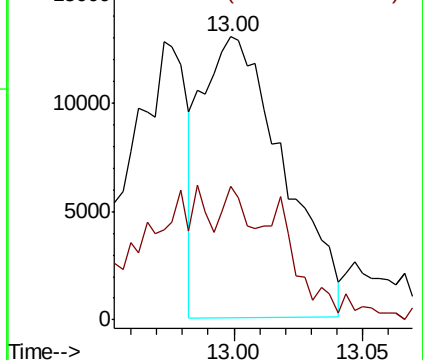


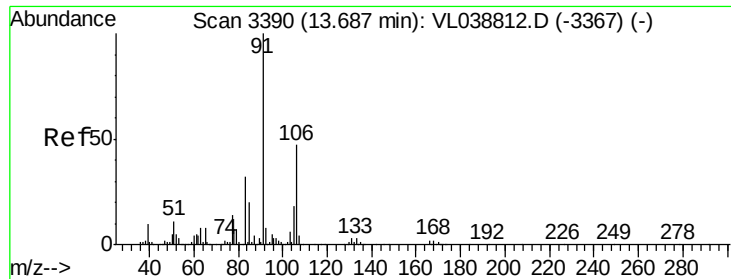
#59
m/p-Xylene
Concen: 0.099 ppbv
RT: 13.00 min Scan# 3176
Delta R.T. 0.01 min
Lab File: VL038911.D
Acq: 13 Apr 2022 20:10

Tgt Ion: 91 Resp: 28515
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#



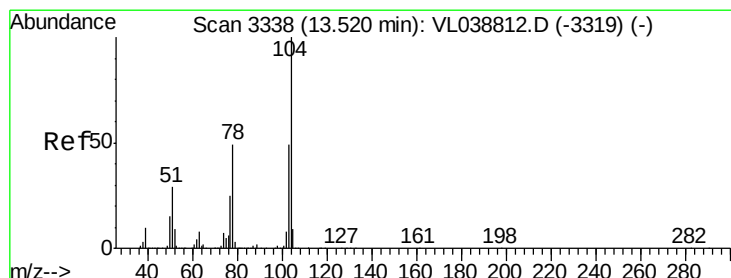
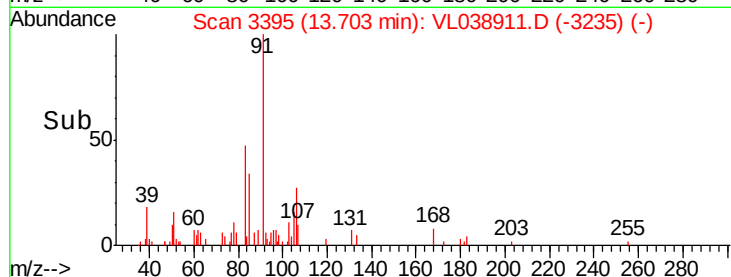
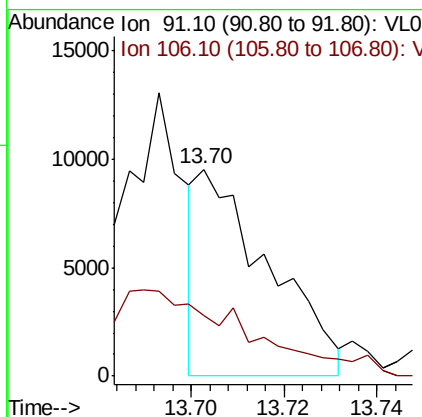
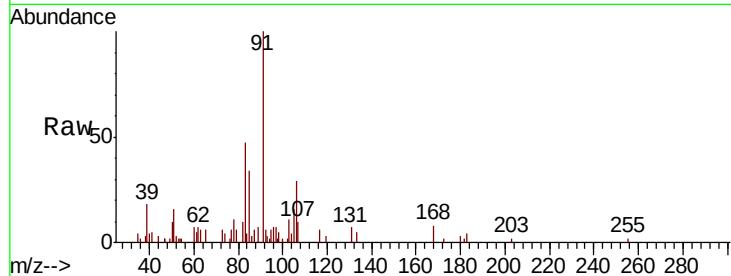
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





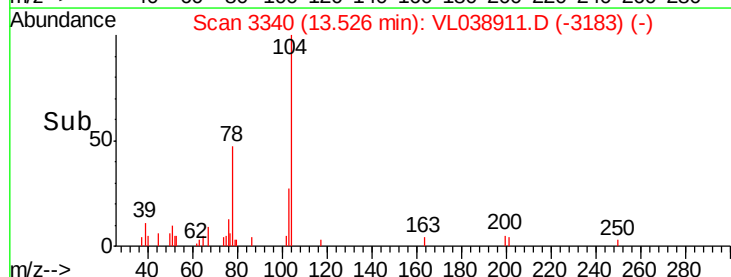
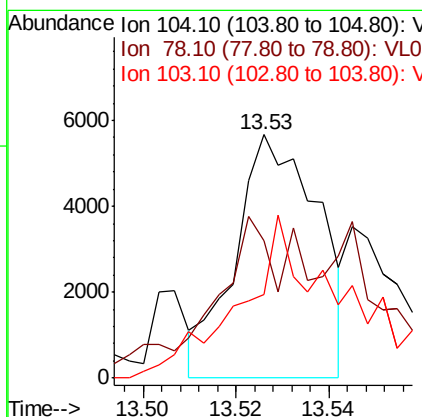
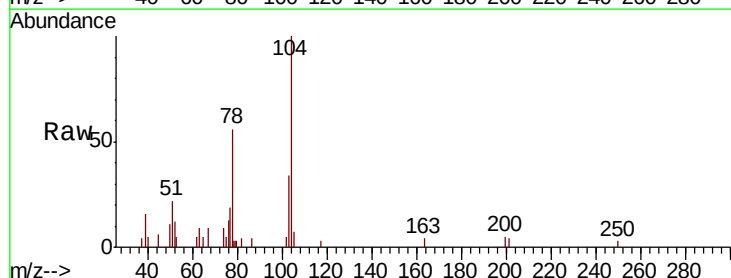
#60
o-Xylene
Concen: 0.038 ppbv
RT: 13.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

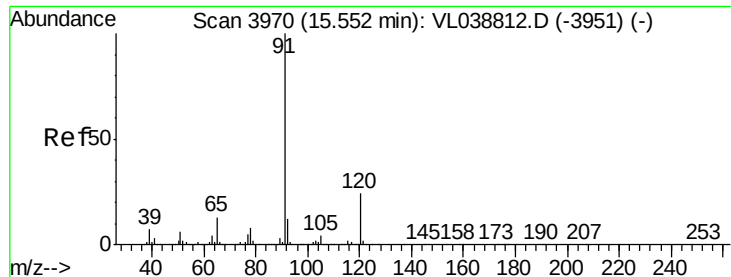
Tot Ion: 91 Resp: 10089
Ion Ratio Lower Upper
91 100
106 0.0 23.8 71.4#



#61
Styrene
Concen: 0.043 ppbv
RT: 13.53 min Scan# 3340
Delta R.T. 0.01 min
Lab File: VL038911.D
Acq: 13 Apr 2022 20:10

Tgt Ion:104 Resp: 7041
Ion Ratio Lower Upper
104 100
78 124.0 40.5 60.7#
103 94.5 39.0 58.4#





#64

n-propylbenzene

Concen: 0.032 ppbv

RT: 15.57

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

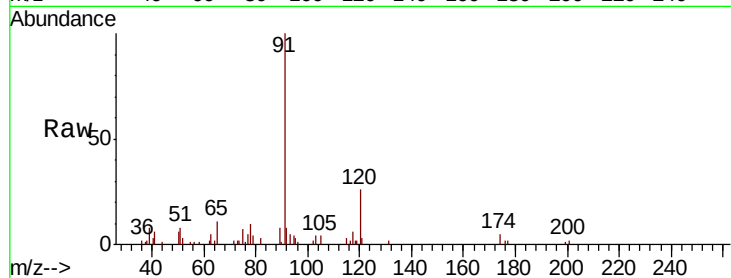
Acq: 13 Apr 2022 20:10 MDL 0.1 NAPHT.

Tot Ion:120 Resp: 3382

Ion Ratio Lower Upper

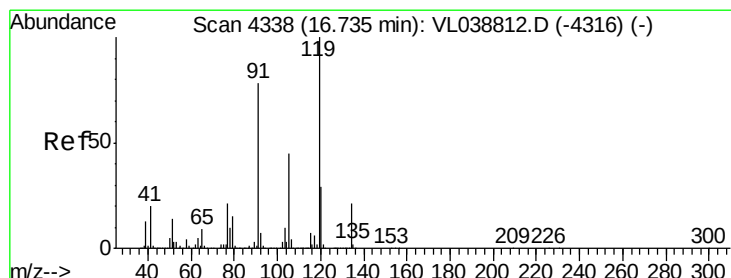
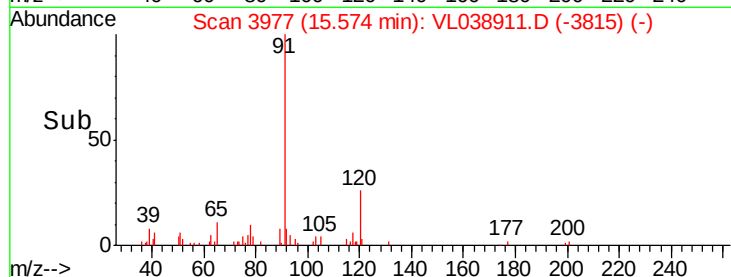
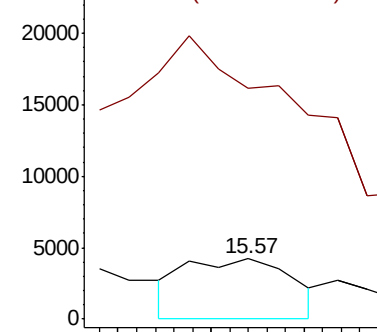
120 100

91 1567.1 360.6 540.8#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.052 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. 0.02 min

Lab File: VL038911.D

Acq: 13 Apr 2022 20:10

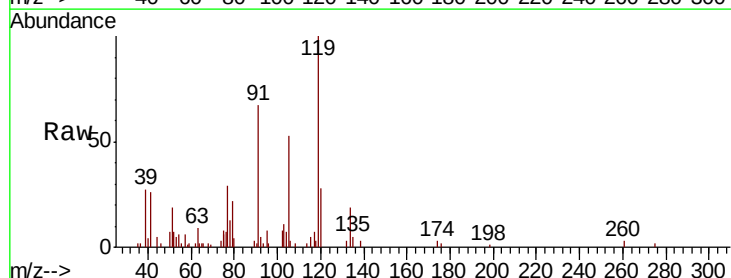
Tgt Ion:119 Resp: 18618

Ion Ratio Lower Upper

119 100

91 167.2 62.8 94.2#

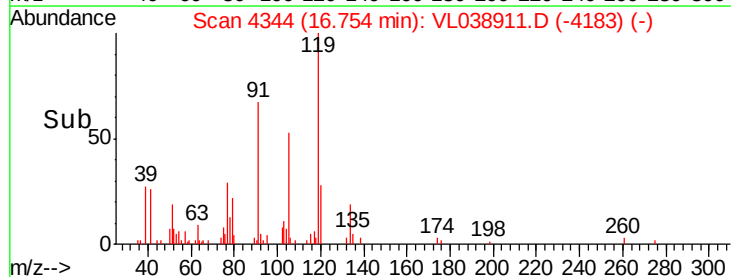
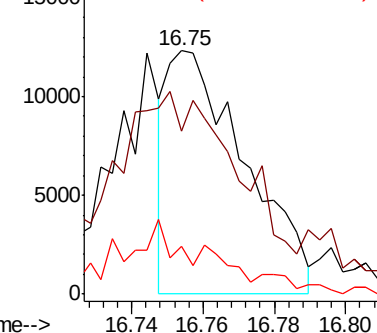
134 38.6 16.2 24.4#

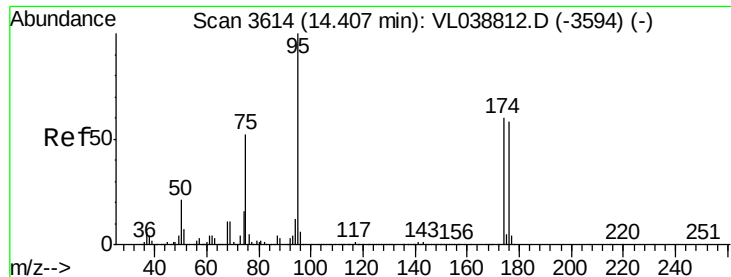


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

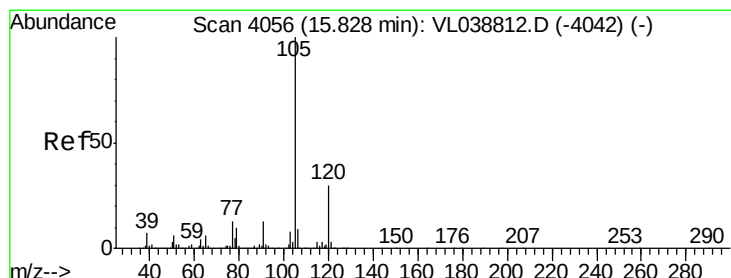
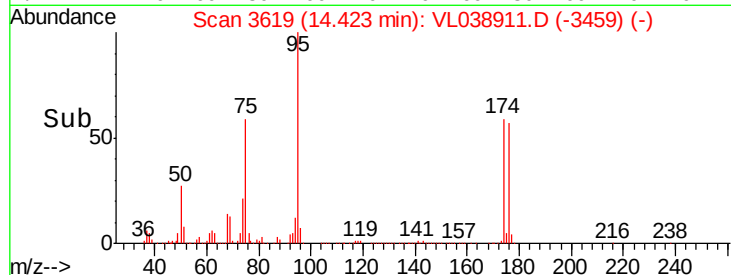
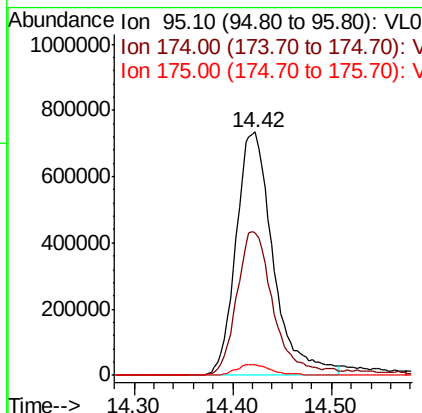
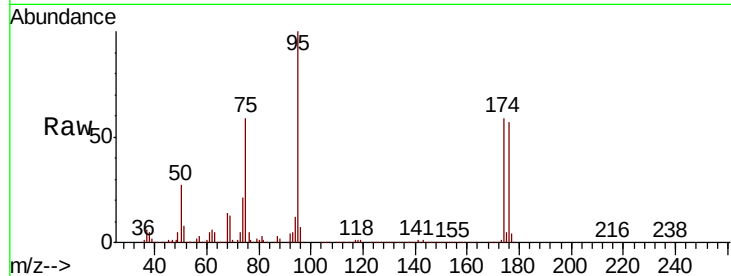
Ion 134.20 (133.90 to 134.90): V





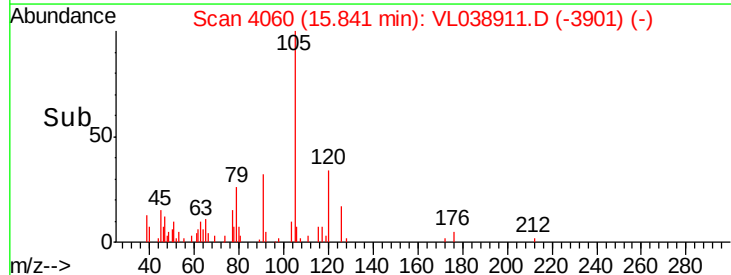
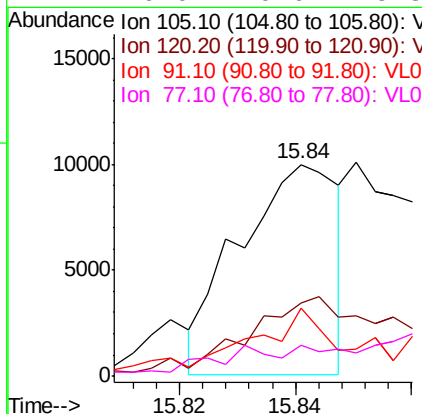
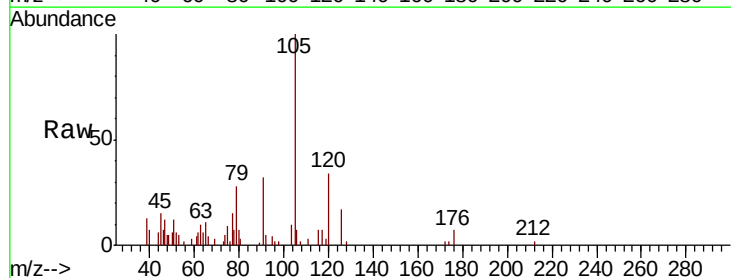
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.091 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2022 20:10

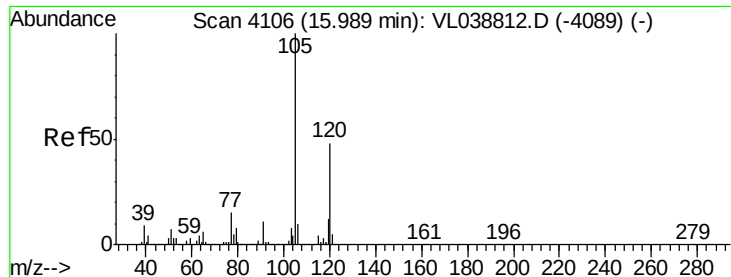
Tot Ion: 95 Resp: 1921123
 Ion Ratio Lower Upper
 95 100
 174 61.6 52.0 78.0
 175 4.5 4.0 6.0



#72
 4-Ethyltoluene
 Concen: 0.037 ppbv
 RT: 15.84 min Scan# 4060
 Delta R.T. 0.01 min
 Lab File: VL038911.D
 Acq: 13 Apr 2022 20:10

Tgt Ion:105 Resp: 11851
 Ion Ratio Lower Upper
 105 100
 120 66.3 24.3 36.5#
 91 49.6 9.4 14.2#
 77 0.0 10.6 15.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.042 ppbv

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

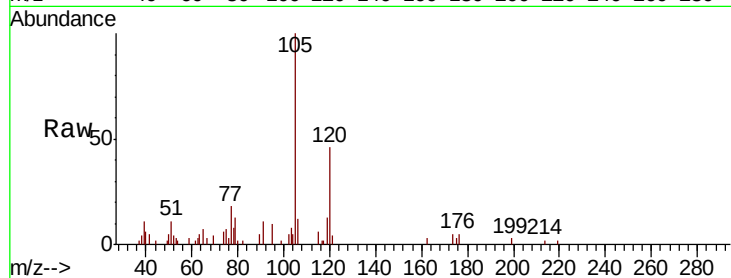
Acq: 13 Apr 2022 20:10

Tot Ion:105 Resp: 12153

Ion Ratio Lower Upper

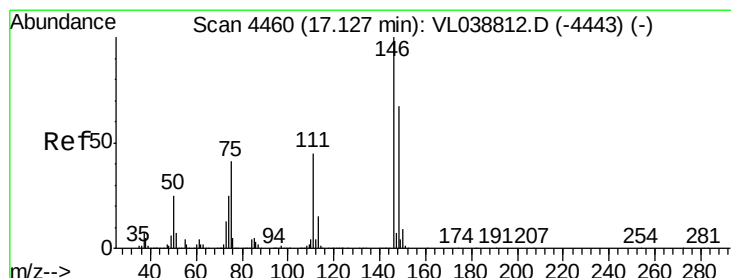
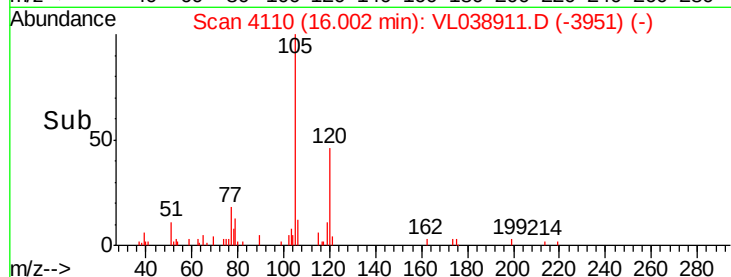
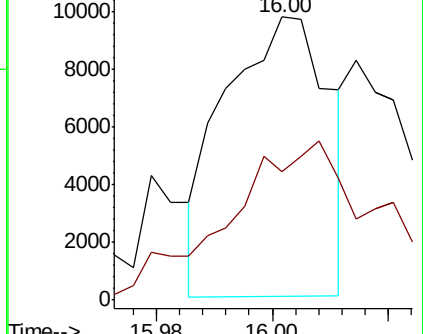
105 100

120 45.5 38.7 58.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#76

1,4-Dichlorobenzene

Concen: 0.040 ppbv

RT: 17.15 min Scan# 4466

Delta R.T. 0.02 min

Lab File: VL038911.D

Acq: 13 Apr 2022 20:10

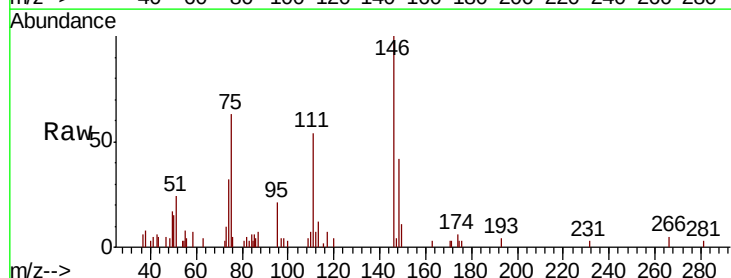
Tgt Ion:146 Resp: 6935

Ion Ratio Lower Upper

146 100

111 0.0 23.6 70.8#

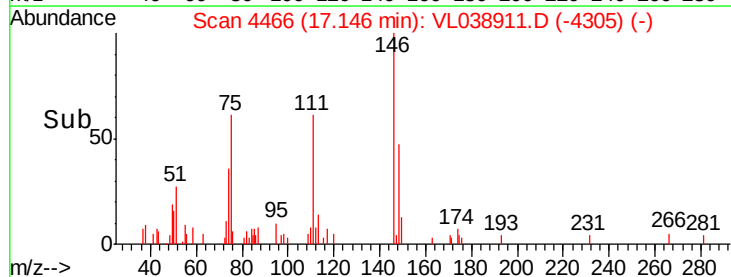
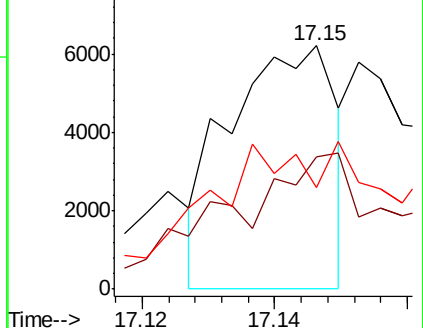
148 0.0 33.6 100.6#

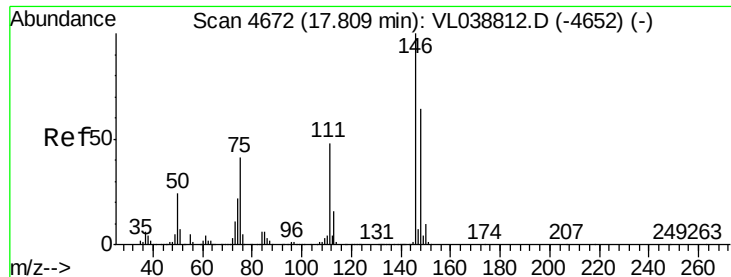


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.058 ppbv

RT: 17.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

MDL 0.1 NAPHT.

Acq: 13 Apr 2022 20:10

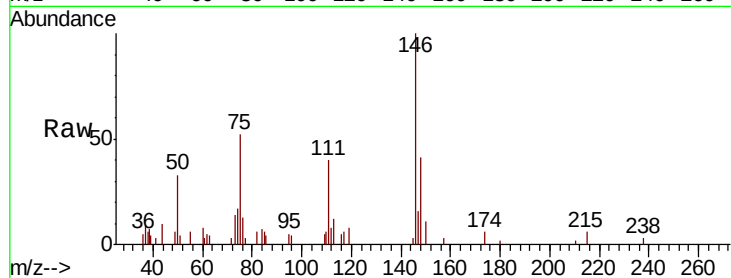
Tot Ion:146 Resp: 10102

Ion Ratio Lower Upper

146 100

111 85.7 24.8 74.3#

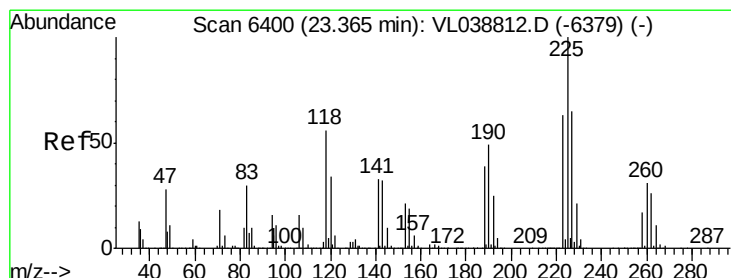
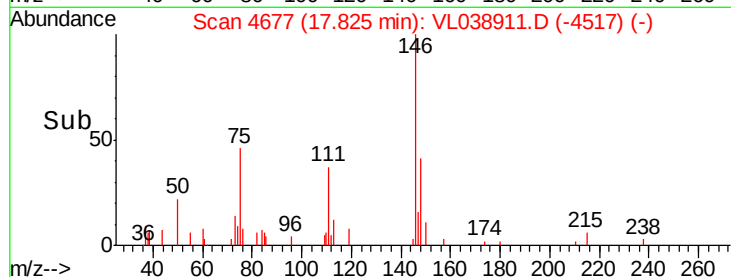
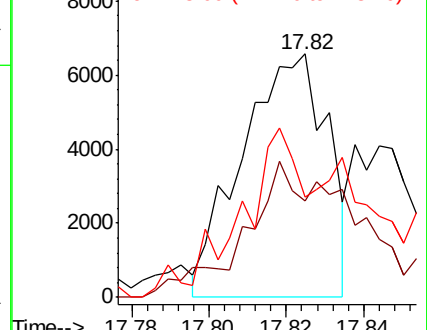
148 111.7 31.9 95.7#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.038 ppbv

RT: 23.39 min Scan# 6407

Delta R.T. 0.02 min

Lab File: VL038911.D

Acq: 13 Apr 2022 20:10

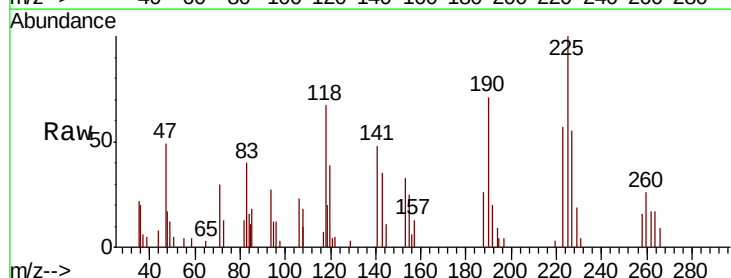
Tgt Ion:225 Resp: 5295

Ion Ratio Lower Upper

225 100

223 169.5 51.6 77.4#

227 0.0 52.3 78.5#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

