

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032422\
 Data File : VL038755.D
 Acq On : 24 Mar 2022 19:38
 Operator : SY/AP
 Sample : N2078-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-2

Quant Time: Mar 25 02:10:09 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	665486	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	1801385	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	1535901	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1164248	9.89	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

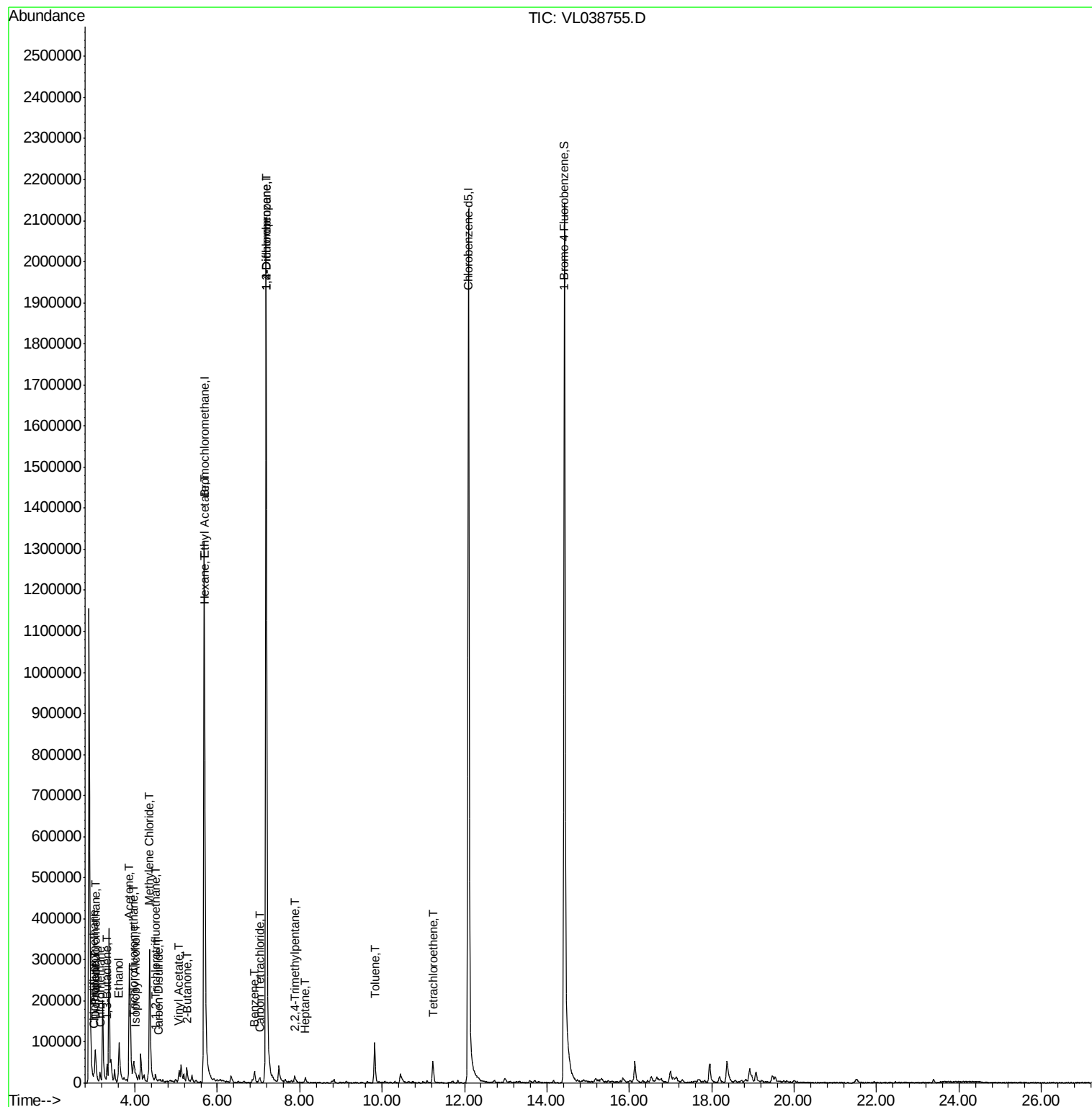
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	22749	0.25	ppbv	100
3) Chlorodifluoromethane	3.00	51	26154	0.37	ppbv	95
4) Chloromethane	3.15	50	24258	0.63	ppbv #	89
9) Propene	3.03	41	19676	0.58	ppbv	87
10) Heptane	8.13	43	3527	0.04	ppbv #	68
11) Trichlorofluoromethane	3.97	101	28085	0.36	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.50	101	5365	0.09	ppbv	83
13) Ethanol	3.62	45	136817	36.55	ppbv	96
15) Acetone	3.86	43	405065	7.05	ppbv	99
16) 1,3-Butadiene	3.32	39	12667	0.39	ppbv #	13
19) Isopropyl Alcohol	4.01	45	4737	0.15	ppbv #	91
20) Methylene Chloride	4.36	84	135785	5.61	ppbv	99
23) Vinyl Acetate	5.08	43	19822	0.36	ppbv #	53
25) Ethyl Acetate	5.70	43	82020	0.57	ppbv #	86
26) Hexane	5.70	57	87206	1.35	ppbv #	48
27) Carbon Disulfide	4.57	76	2155	0.03	ppbv #	57
34) 2-Butanone	5.27	43	47198	0.66	ppbv #	89
35) Carbon Tetrachloride	7.03	117	3613	0.03	ppbv	94
36) Benzene	6.90	78	19800	0.14	ppbv	97
39) 1,2-Dichloropropane	7.19	63	424462	7.81	ppbv #	29
44) 2,2,4-Trimethylpentane	7.88	57	9765	0.04	ppbv #	41
52) Tetrachloroethene	11.23	164	9359	0.18	ppbv	96
53) Toluene	9.82	91	80102	0.54	ppbv	98

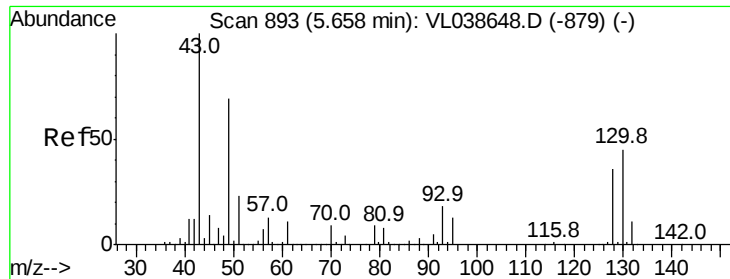
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 24 Mar 2022 19:38

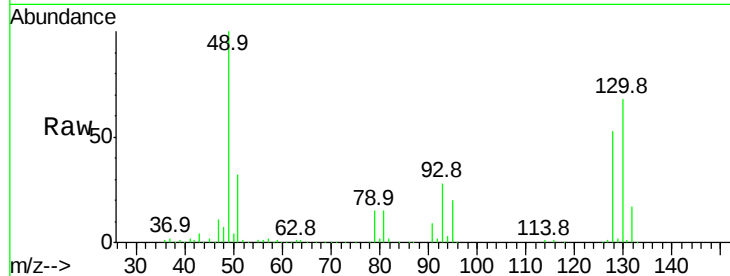
Tgt Ion: 49 Resp: 665486

Ion Ratio Lower Upper

49 100

128 56.4 26.2 78.6

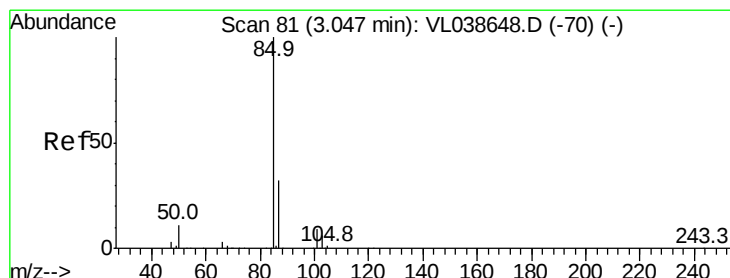
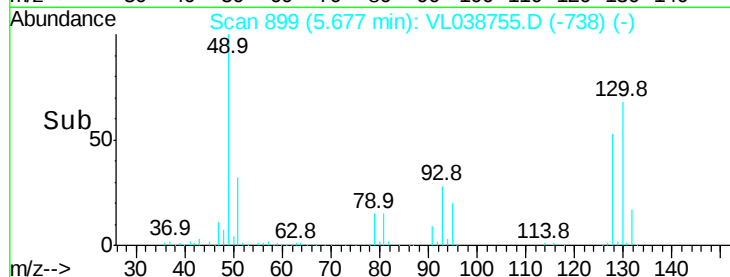
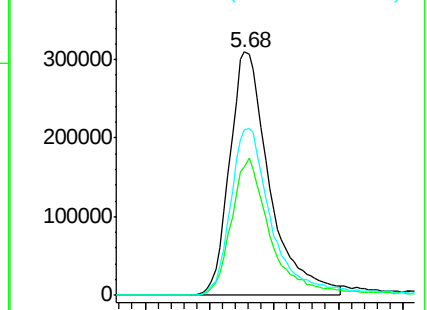
130 72.8 33.7 101.1



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: 0.25 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL038755.D

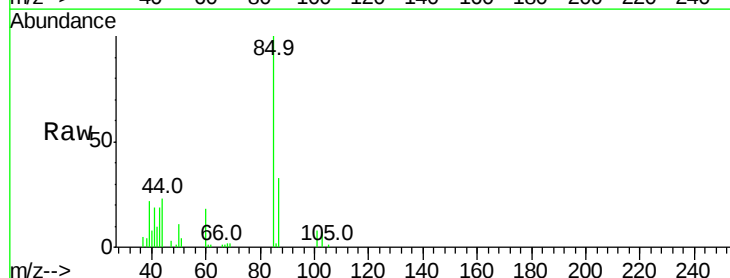
Acq: 24 Mar 2022 19:38

Tgt Ion: 85 Resp: 22749

Ion Ratio Lower Upper

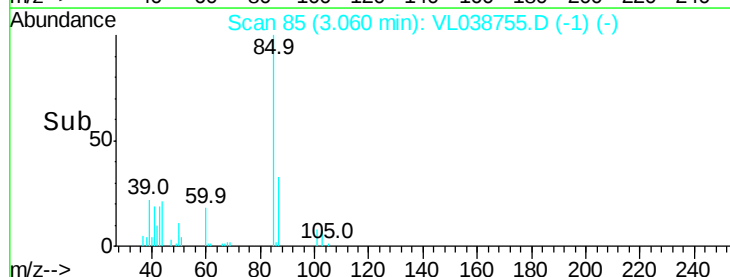
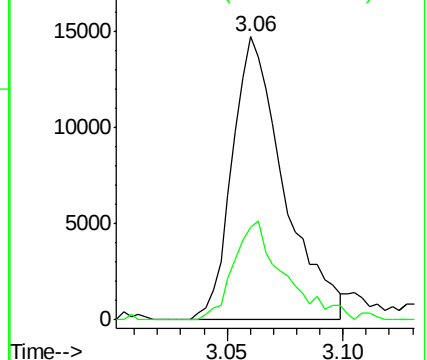
85 100

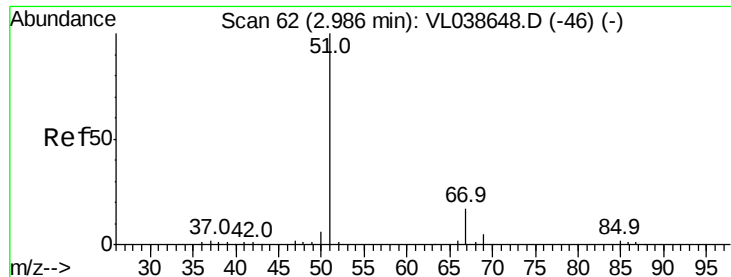
87 32.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.37 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

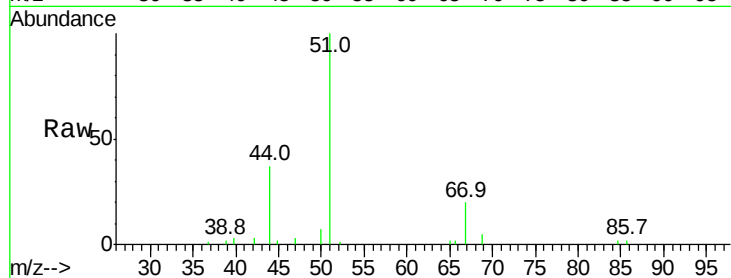
Acq: 24 Mar 2022 19:38

Tgt Ion: 51 Resp: 26154

Ion Ratio Lower Upper

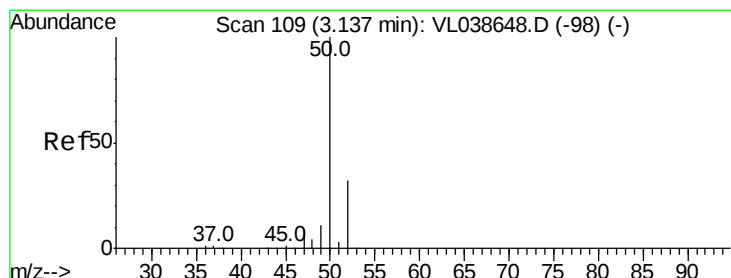
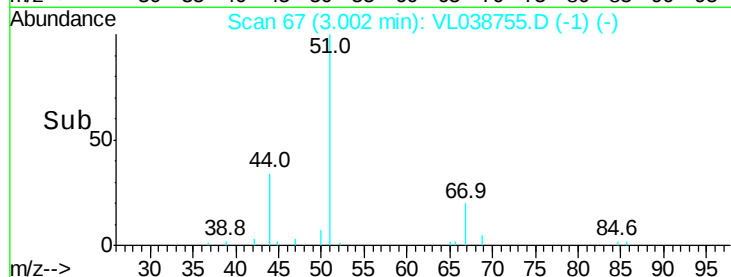
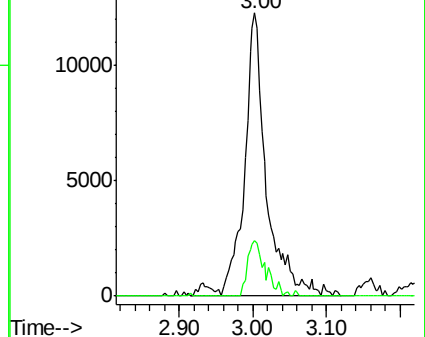
51 100

67 15.6 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.63 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL038755.D

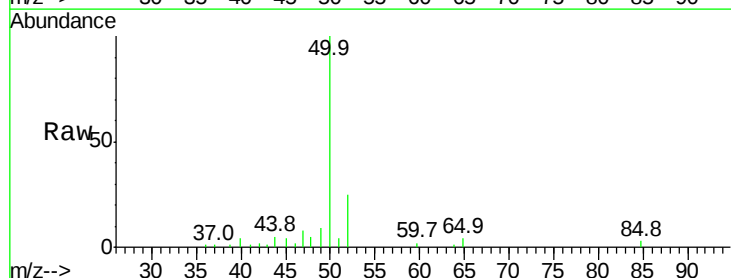
Acq: 24 Mar 2022 19:38

Tgt Ion: 50 Resp: 24258

Ion Ratio Lower Upper

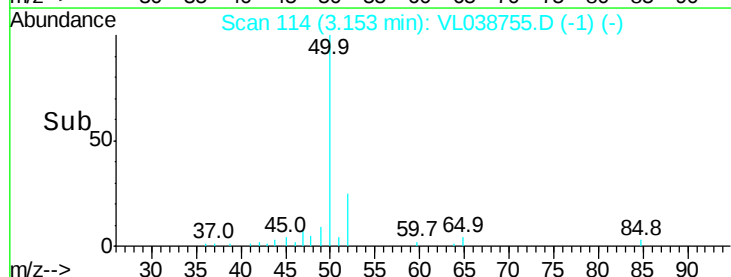
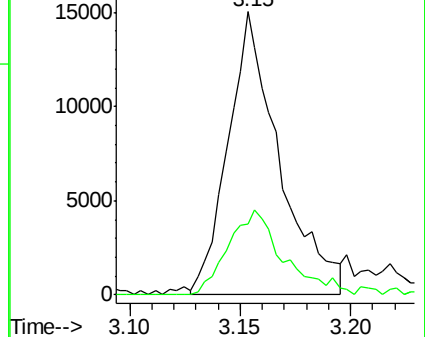
50 100

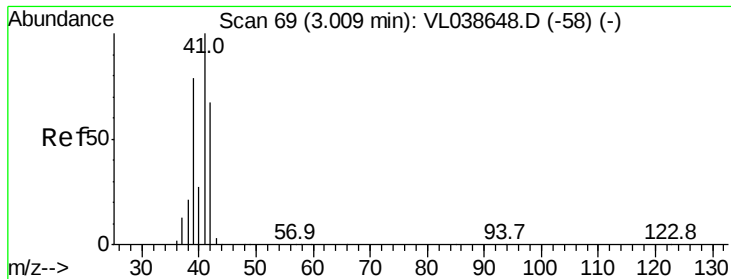
52 25.5 25.5 38.3#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.58 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: V-2

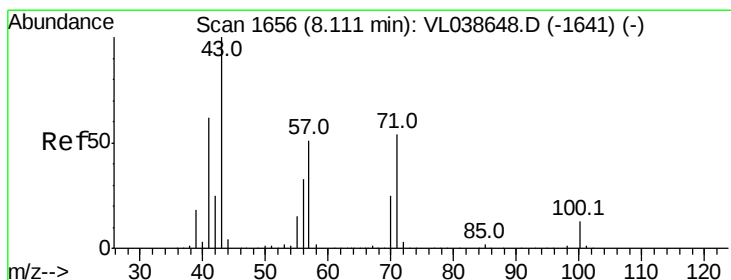
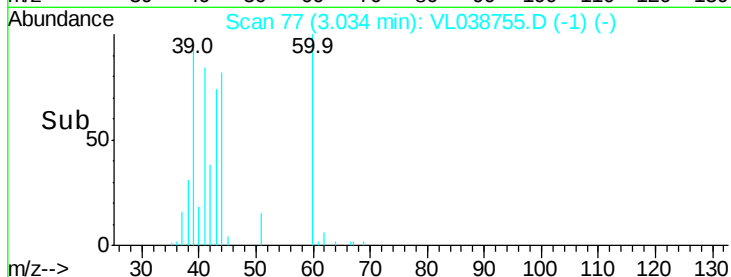
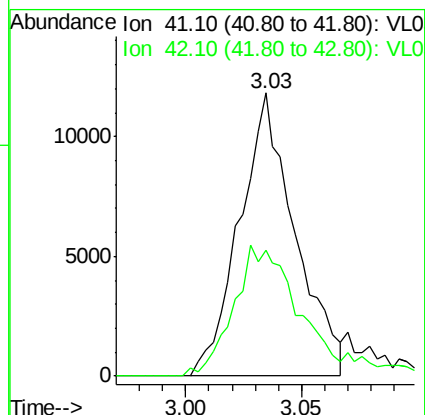
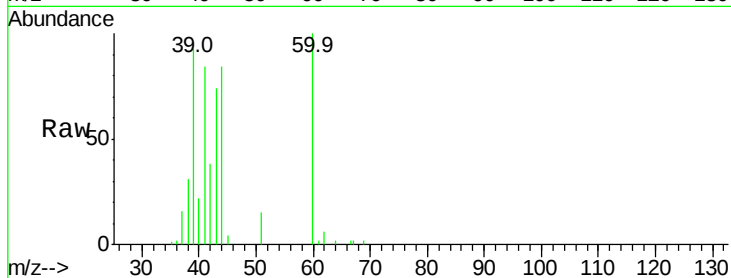
Acq: 24 Mar 2022 19:38

Tgt Ion: 41 Resp: 19676

Ion Ratio Lower Upper

41 100

42 59.5 56.2 84.4



#10

Heptane

Concen: 0.04 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.02 min

Lab File: VL038755.D

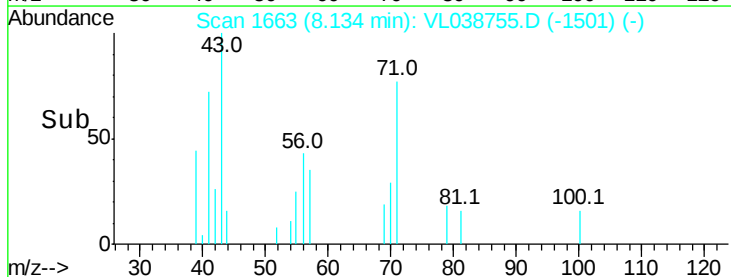
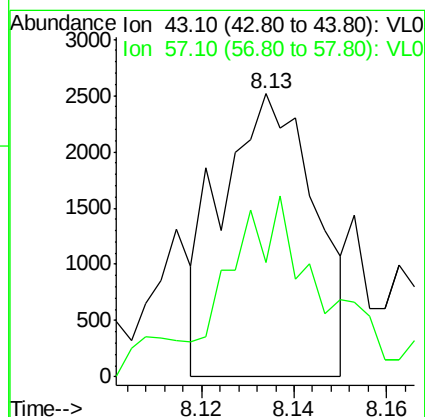
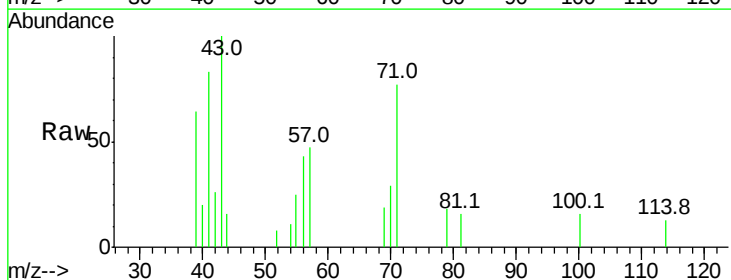
Acq: 24 Mar 2022 19:38

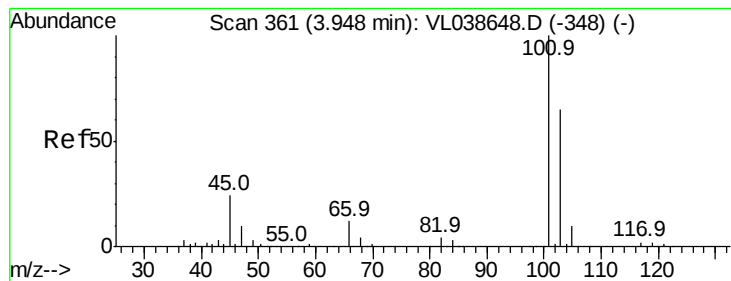
Tgt Ion: 43 Resp: 3527

Ion Ratio Lower Upper

43 100

57 74.5 41.4 62.2#





#11

Trichlorofluoromethane

Concen: 0.36 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

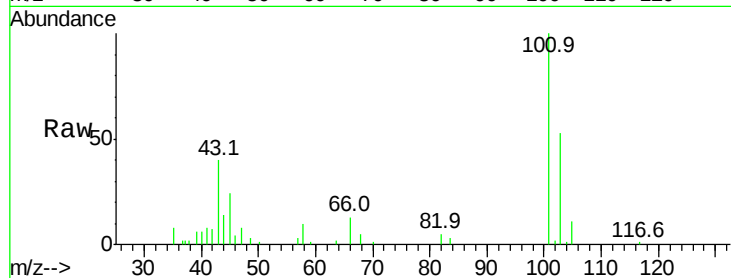
Acq: 24 Mar 2022 19:38

Tgt Ion:101 Resp: 28085

Ion Ratio Lower Upper

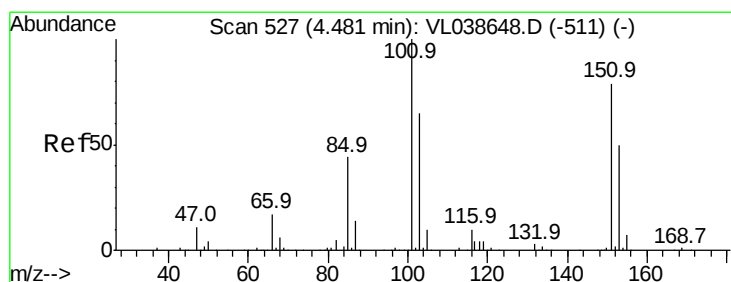
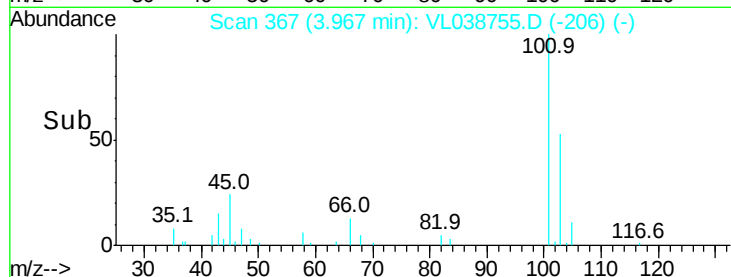
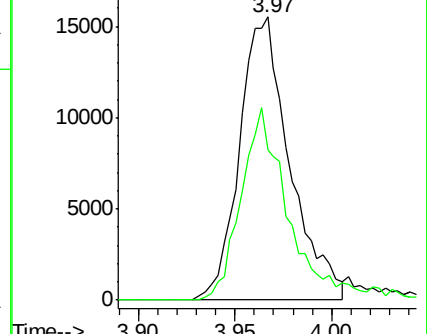
101 100

103 53.0 51.9 77.9



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: 0.09 ppbv

RT: 4.50 min Scan# 533

Delta R.T. 0.02 min

Lab File: VL038755.D

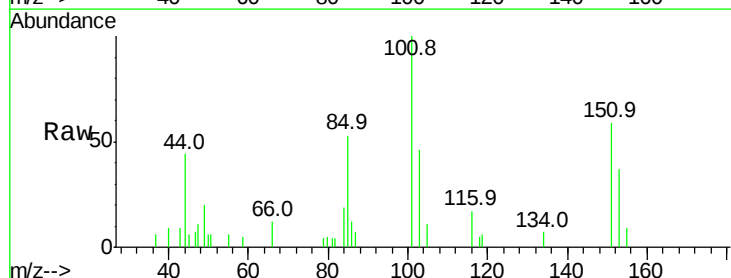
Acq: 24 Mar 2022 19:38

Tgt Ion:101 Resp: 5365

Ion Ratio Lower Upper

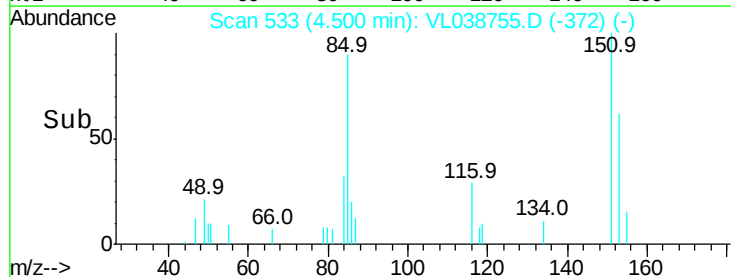
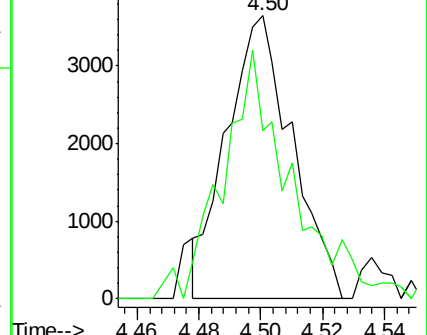
101 100

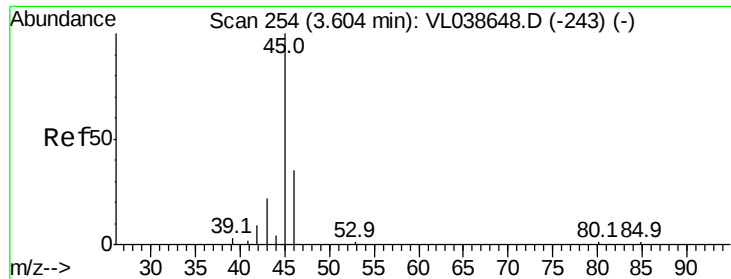
151 93.3 62.9 94.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 36.55 ppbv

RT: 3.62 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

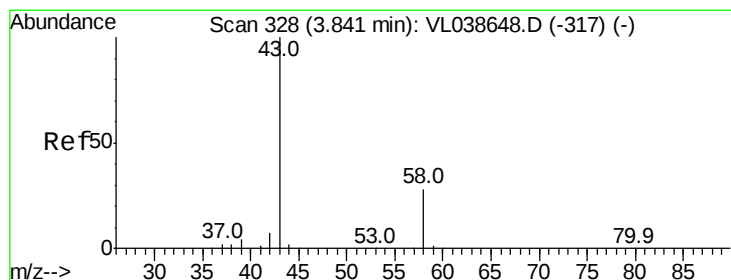
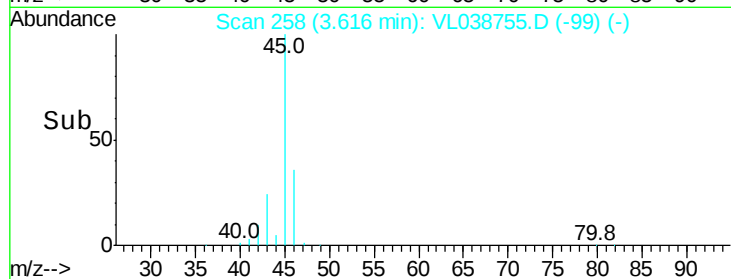
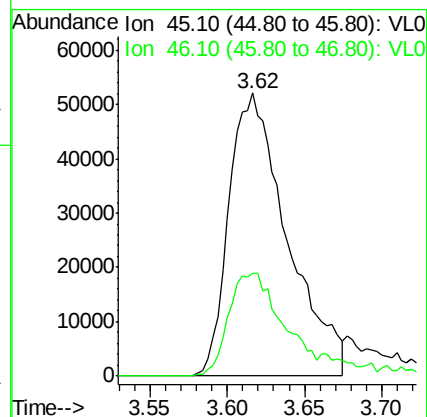
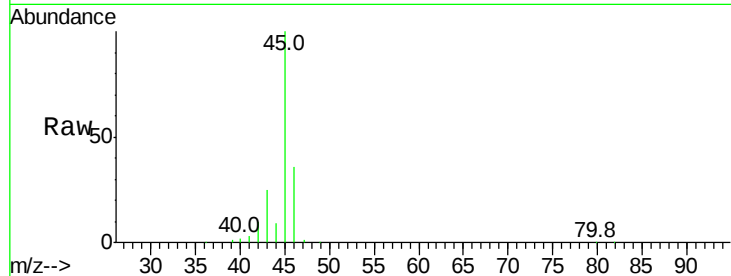
Acq: 24 Mar 2022 19:38

Tgt Ion: 45 Resp: 136817

Ion Ratio Lower Upper

45 100

46 40.2 15.1 60.5



#15

Acetone

Concen: 7.05 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.02 min

Lab File: VL038755.D

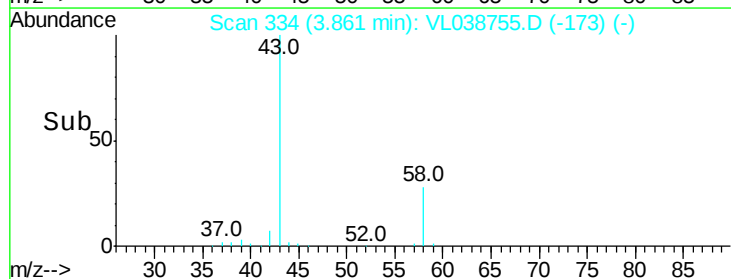
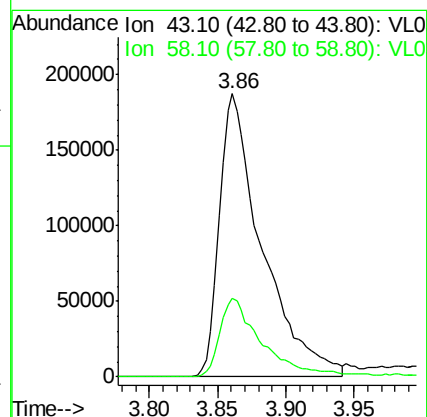
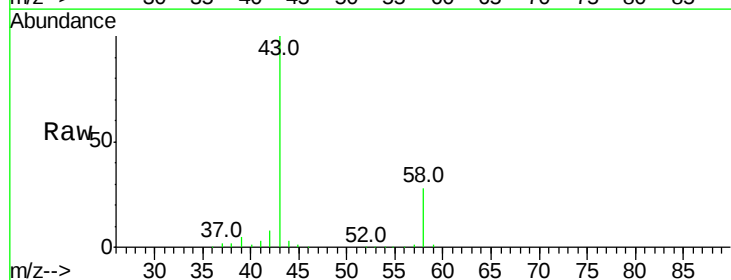
Acq: 24 Mar 2022 19:38

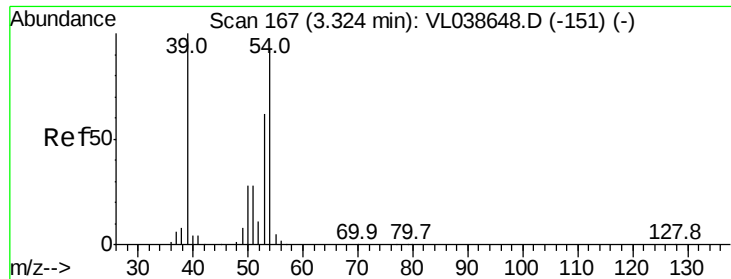
Tgt Ion: 43 Resp: 405065

Ion Ratio Lower Upper

43 100

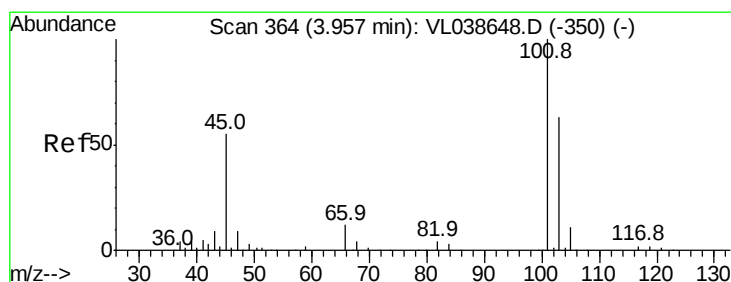
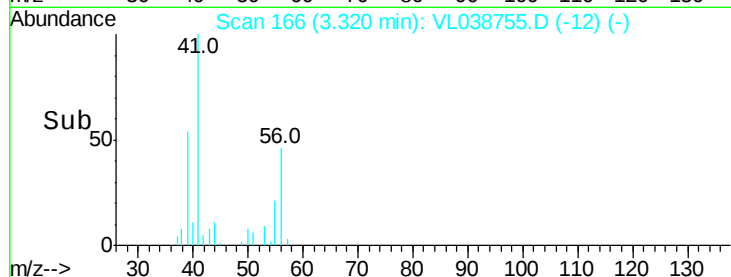
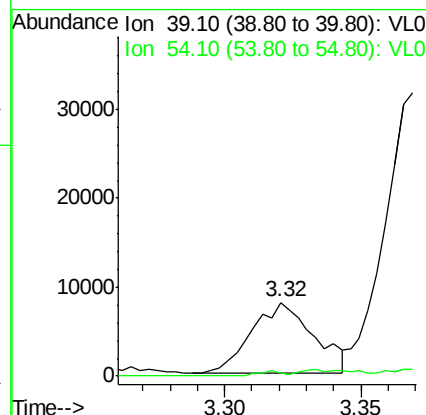
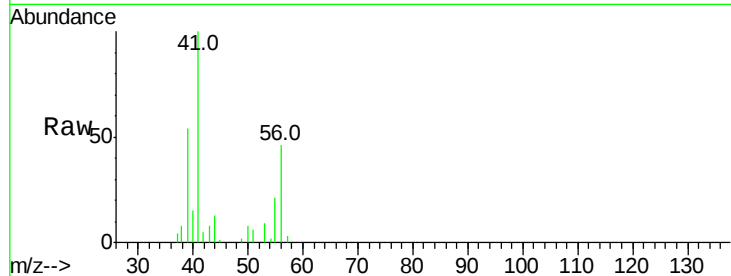
58 29.5 23.3 34.9





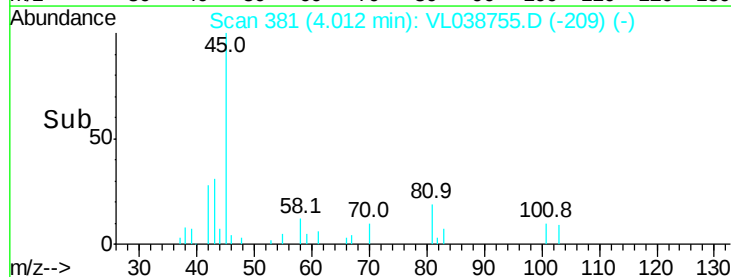
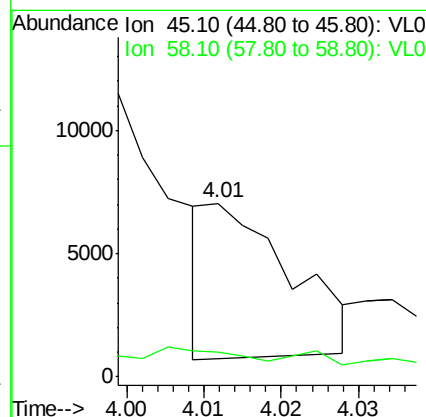
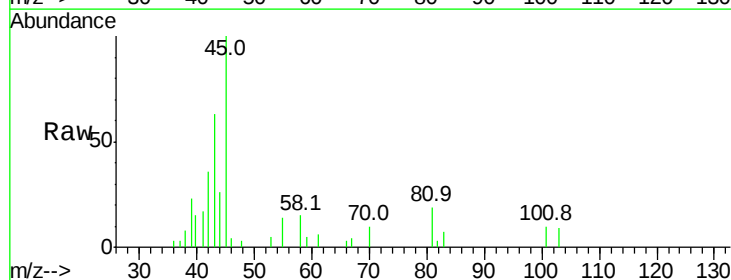
#16
 1,3-Butadiene
 Concen: 0.39 ppbv
 RT: 3.32 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: V-2
 Acq: 24 Mar 2022 19:38

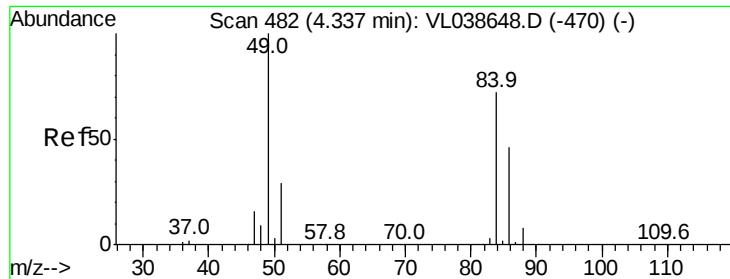
Tgt Ion: 39 Resp: 12667
 Ion Ratio Lower Upper
 39 100
 54 6.1 69.1 103.7#



#19
 Isopropyl Alcohol
 Concen: 0.15 ppbv
 RT: 4.01 min Scan# 381
 Delta R.T. 0.05 min
 Lab File: VL038755.D
 Acq: 24 Mar 2022 19:38

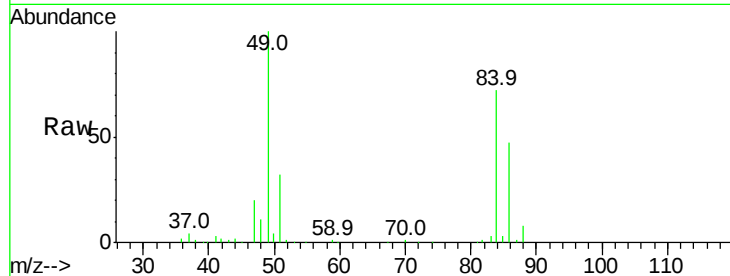
Tgt Ion: 45 Resp: 4737
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.3 3.5#



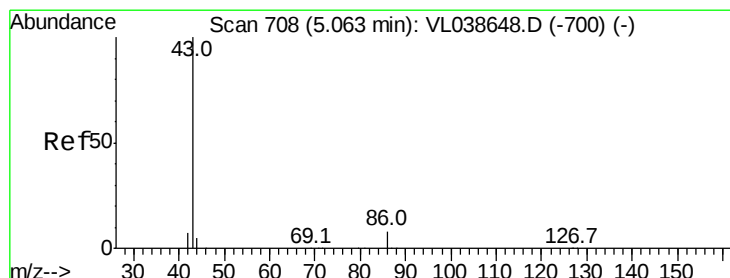
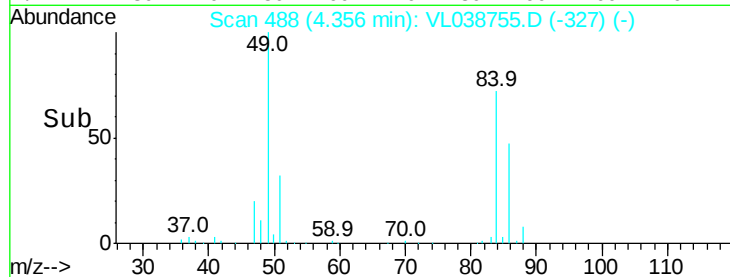
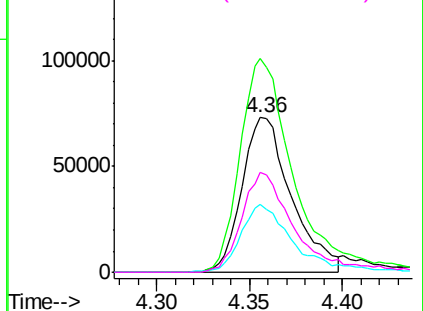


#20
Methylene Chloride
Concen: 5.61 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 19:38

Tgt Ion:	84	Resp:	135785
Ion	Ratio	Lower	Upper
84	100		
49	138.2	111.2	166.8
51	43.9	32.8	49.2
86	64.6	51.4	77.0

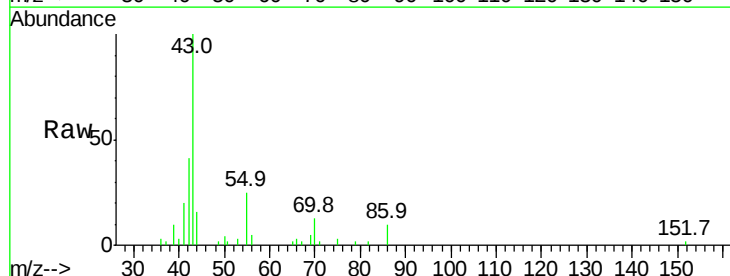


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

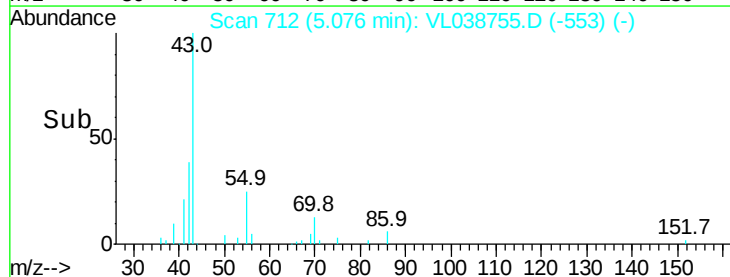
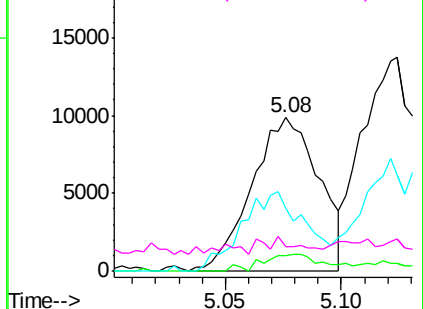


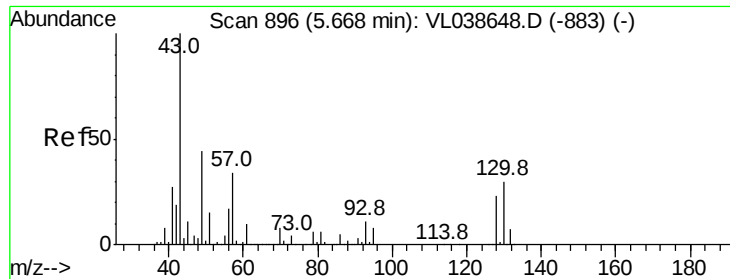
#23
Vinyl Acetate
Concen: 0.36 ppbv
RT: 5.08 min Scan# 712
Delta R.T. 0.01 min
Lab File: VL038755.D
Acq: 24 Mar 2022 19:38

Tgt Ion:	43	Resp:	19822
Ion	Ratio	Lower	Upper
43	100		
86	11.3	5.6	8.4#
42	45.7	6.8	10.2#
44	5.7	4.2	6.2



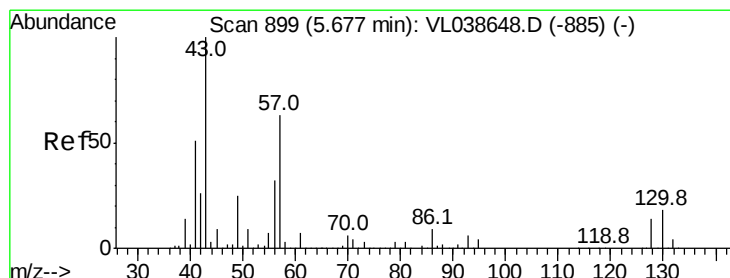
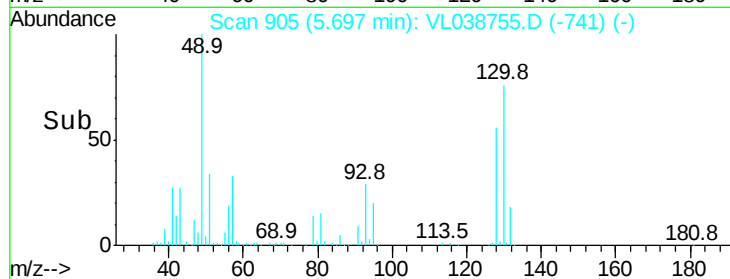
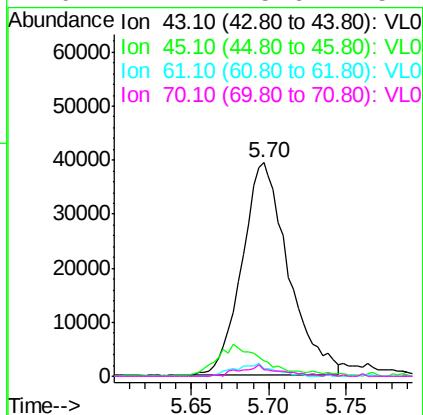
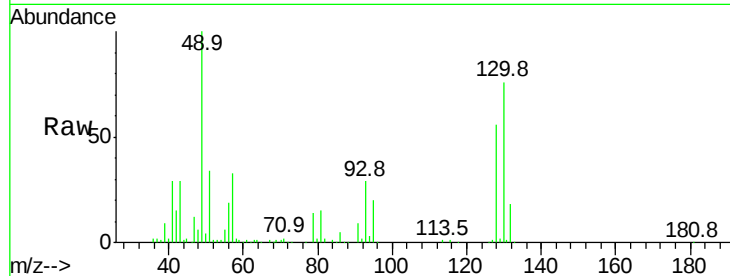
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





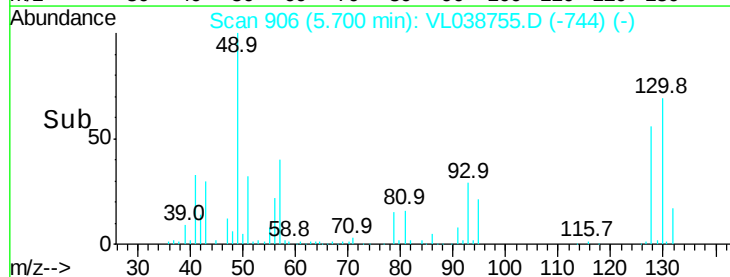
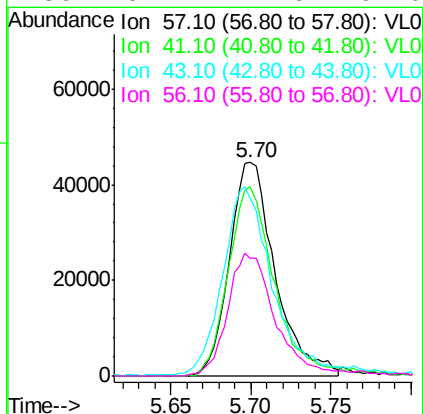
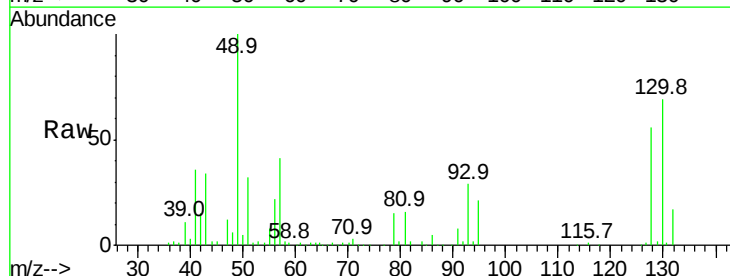
#25
Ethyl Acetate
Concen: 0.57 ppbv
RT: 5.70 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 19:38

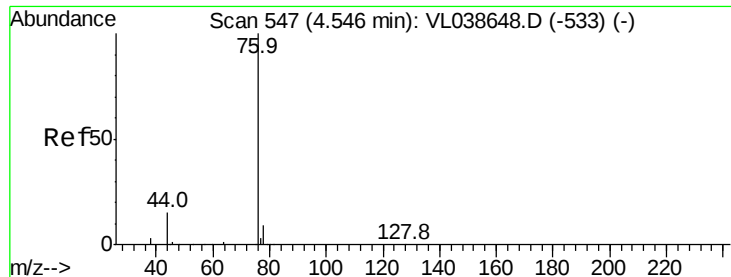
Tgt Ion:	43	Resp:	82020
Ion	Ratio	Lower	Upper
43	100		
45	16.8	8.2	12.4#
61	4.9	8.3	12.5#
70	4.4	5.6	8.4#



#26
Hexane
Concen: 1.35 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL038755.D
Acq: 24 Mar 2022 19:38

Tgt Ion:	57	Resp:	87206
Ion	Ratio	Lower	Upper
57	100		
41	92.5	67.0	100.4
43	102.3	184.2	276.2#
56	61.4	42.6	64.0





#27

Carbon Disulfide

Concen: 0.03 ppbv

RT: 4.57

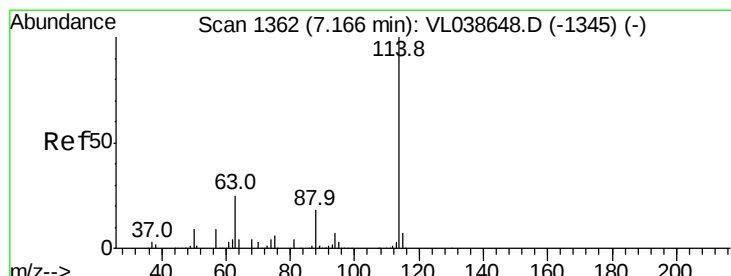
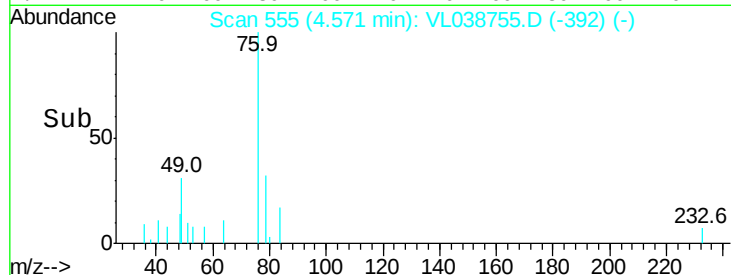
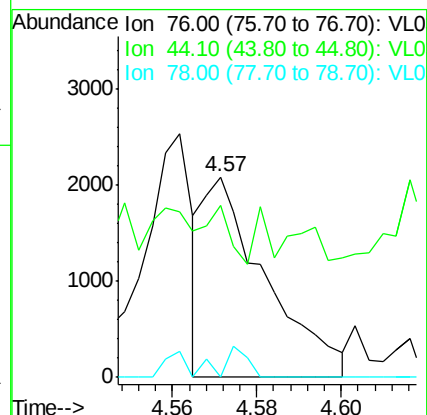
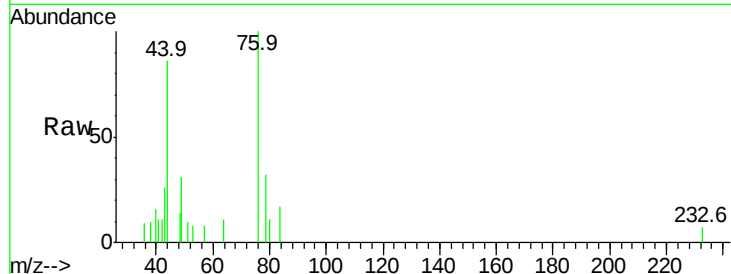
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 19:38

Tgt Ion: 76 Resp: 2155

Ion	Ratio	Lower	Upper
76	100		
44	44.6	12.4	18.6#
78	10.6	7.8	11.8



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.19 min Scan# 1368

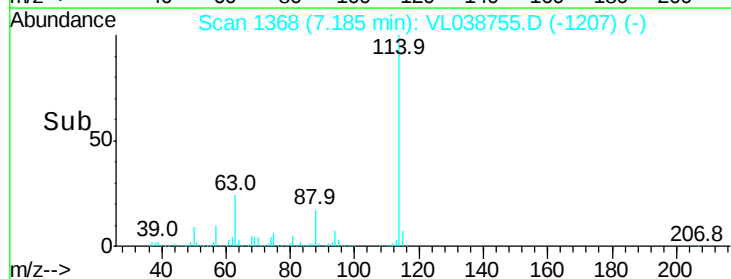
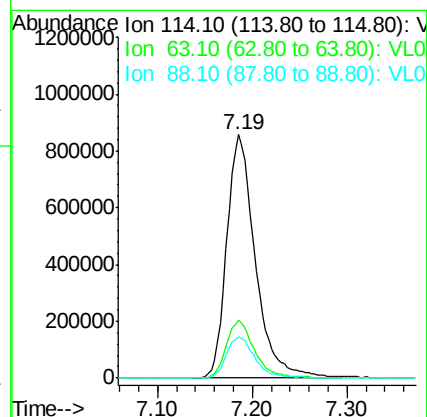
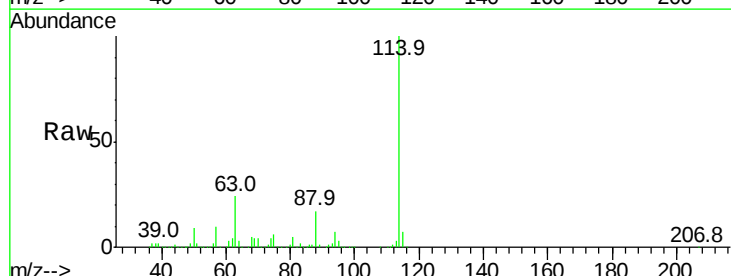
Delta R.T. 0.02 min

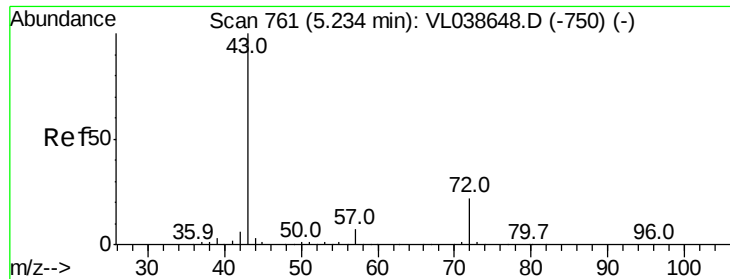
Lab File: VL038755.D

Acq: 24 Mar 2022 19:38

Tgt Ion: 114 Resp: 1801385

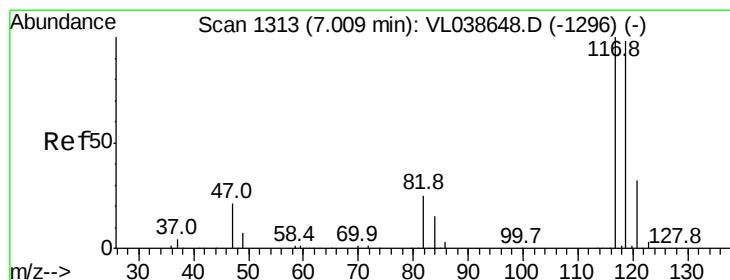
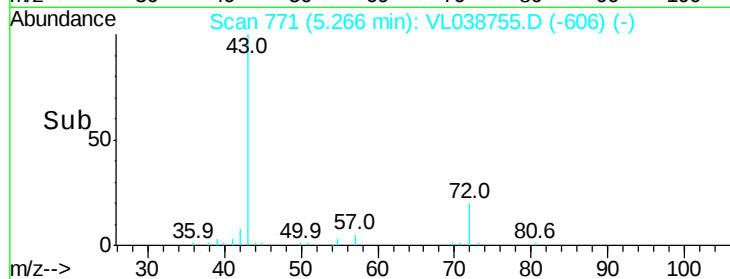
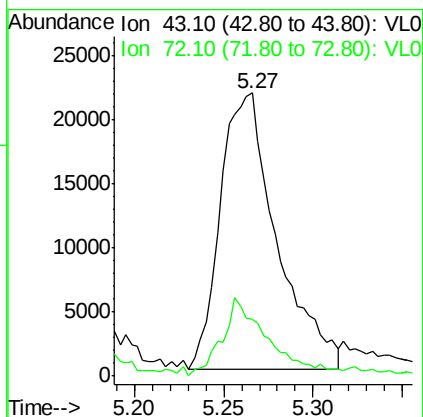
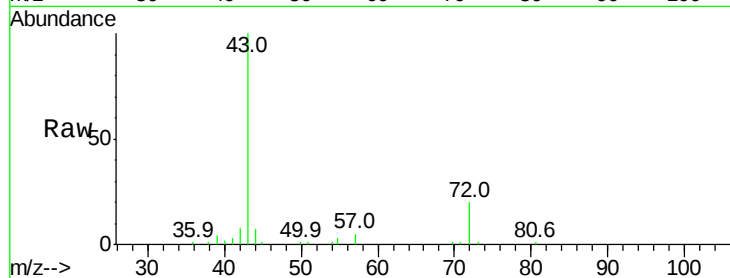
Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.4	29.0
88	17.3	13.9	20.9





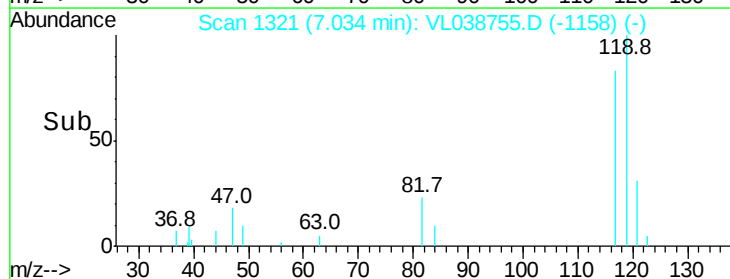
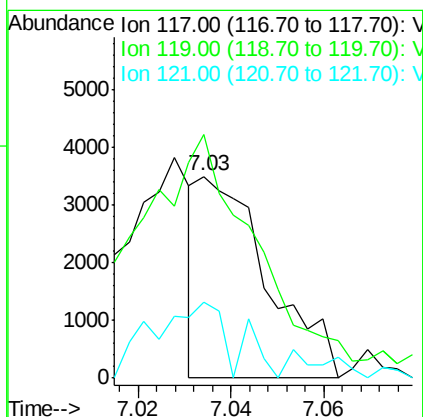
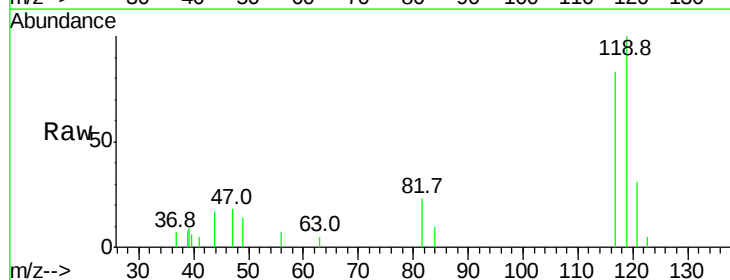
#34
2-Butanone
Concen: 0.66 ppbv
RT: 5.27
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 19:38

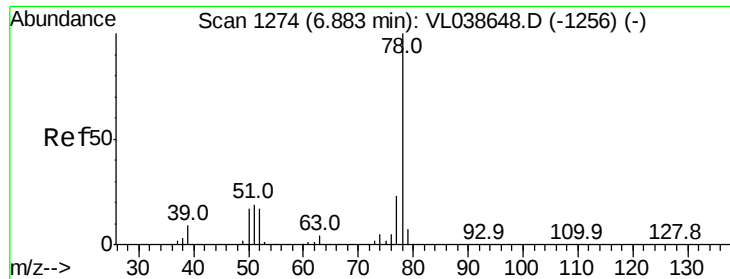
Tgt Ion: 43 Resp: 47198
Ion Ratio Lower Upper
43 100
72 27.5 17.8 26.8#



#35
Carbon Tetrachloride
Concen: 0.03 ppbv
RT: 7.03 min Scan# 1321
Delta R.T. 0.03 min
Lab File: VL038755.D
Acq: 24 Mar 2022 19:38

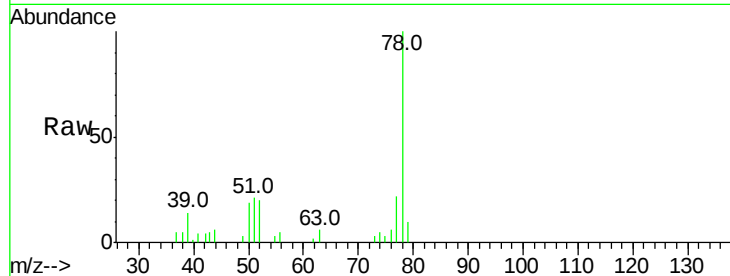
Tgt Ion: 117 Resp: 3613
Ion Ratio Lower Upper
117 100
119 102.2 78.1 117.1
121 27.4 25.8 38.6



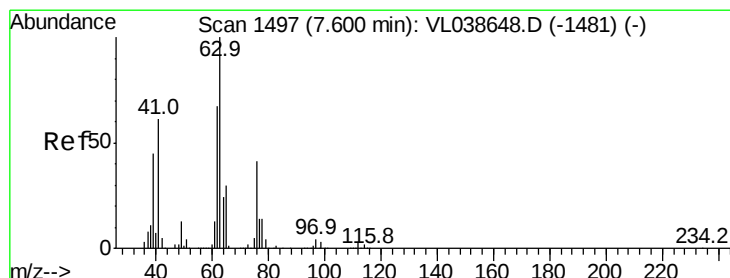
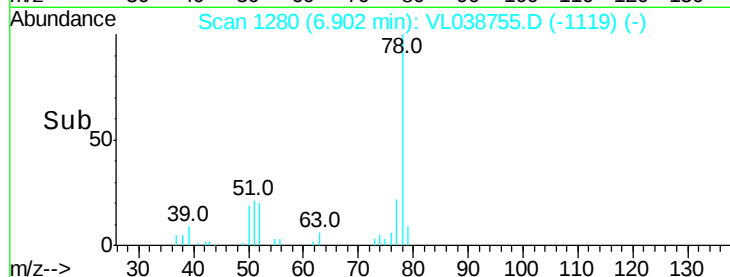
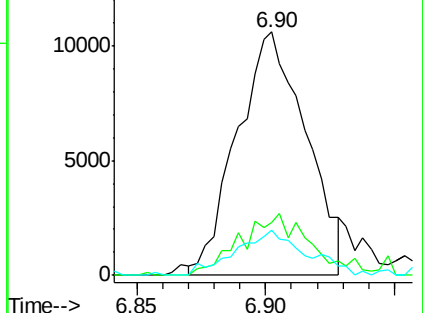


#36
Benzene
Concen: 0.14 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 19:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.1	27.1
50	19.4	13.6	20.4

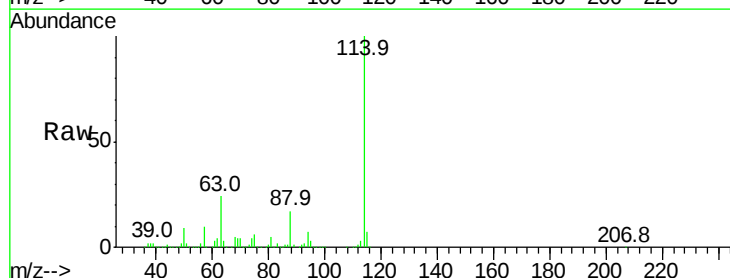


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

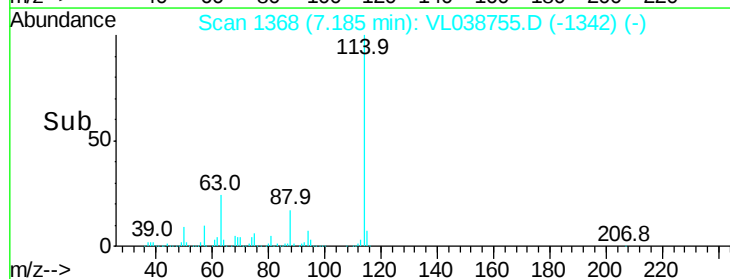
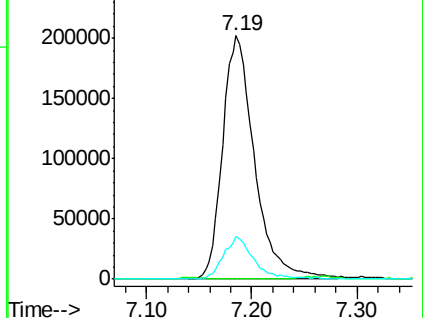


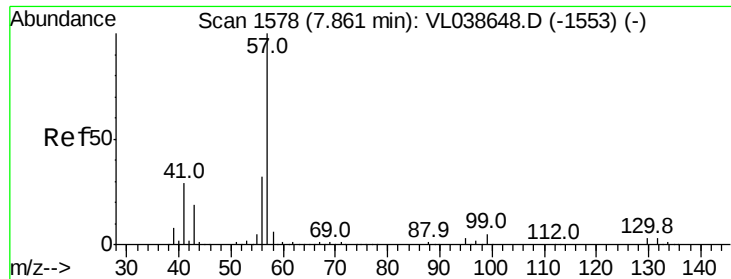
#39
1,2-Dichloropropane
Concen: 7.81 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.41 min
Lab File: VL038755.D
Acq: 24 Mar 2022 19:38

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.0	73.6#
62	17.6	53.9	80.9#



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





#44

2,2,4-Trimethylpentane

Concen: 0.04 ppbv

RT: 7.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 19:38

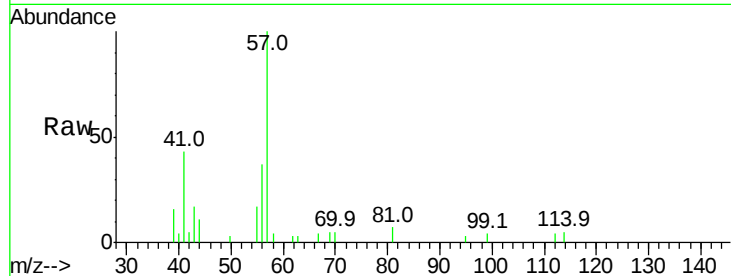
Tgt Ion: 57 Resp: 9765

Ion Ratio Lower Upper

57 100

41 66.4 23.0 34.4#

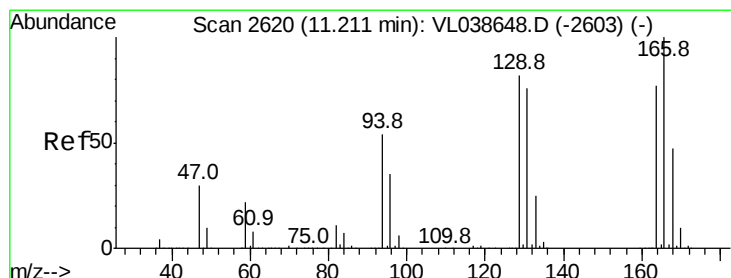
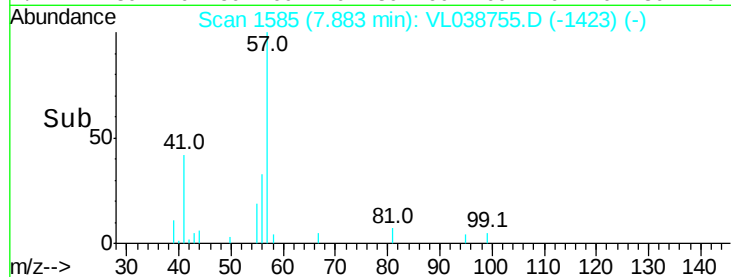
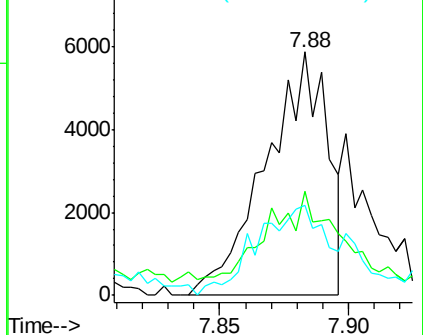
56 58.2 25.3 37.9#



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



#52

Tetrachloroethene

Concen: 0.18 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. 0.02 min

Lab File: VL038755.D

Acq: 24 Mar 2022 19:38

Tgt Ion:164 Resp: 9359

Ion Ratio Lower Upper

164 100

166 129.8 103.3 154.9

129 100.4 85.2 127.8

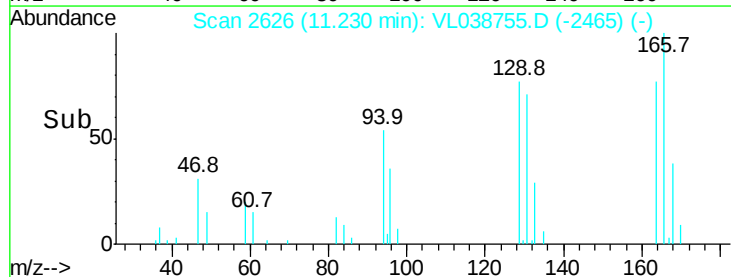
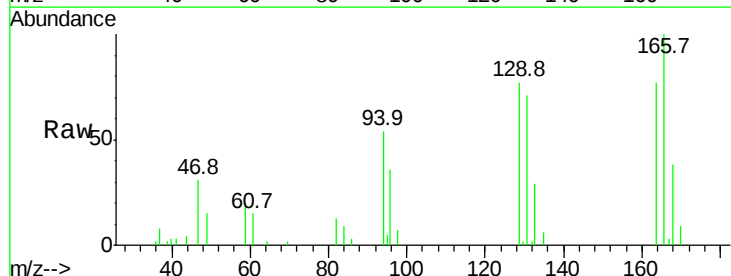
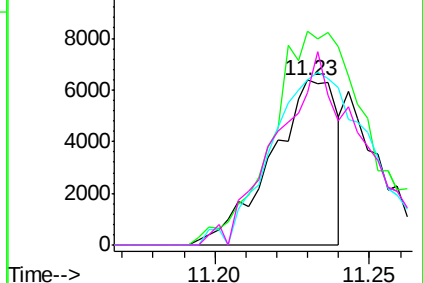
131 92.7 78.3 117.5

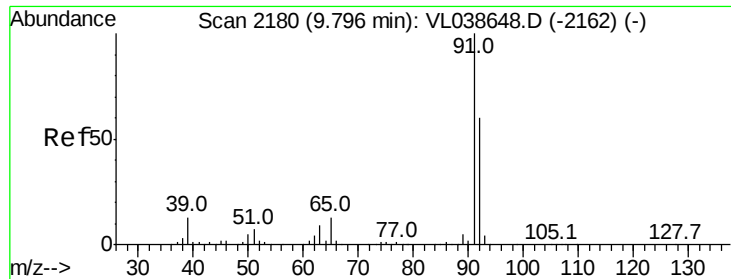
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.54 ppbv

RT: 9.82 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

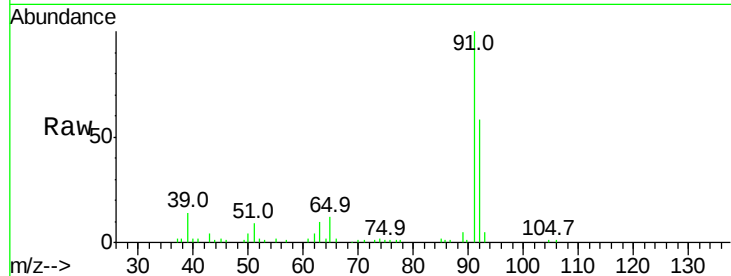
Acq: 24 Mar 2022 19:38

Tgt Ion: 91 Resp: 80102

Ion Ratio Lower Upper

91 100

92 59.7 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.82

40000

30000

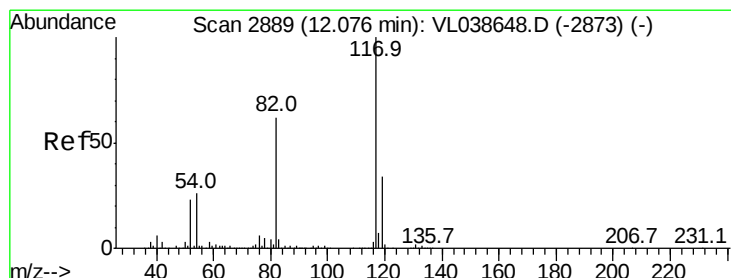
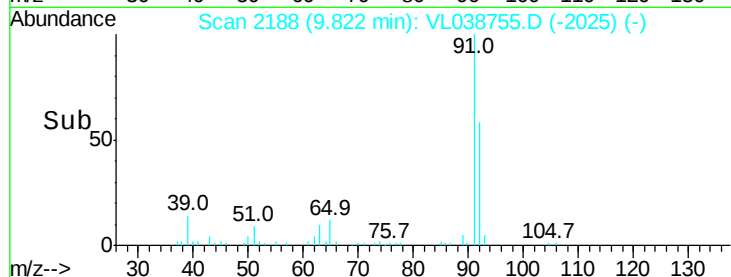
20000

10000

0

Time-->

9.75 9.80 9.85 9.90



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.02 min

Lab File: VL038755.D

Acq: 24 Mar 2022 19:38

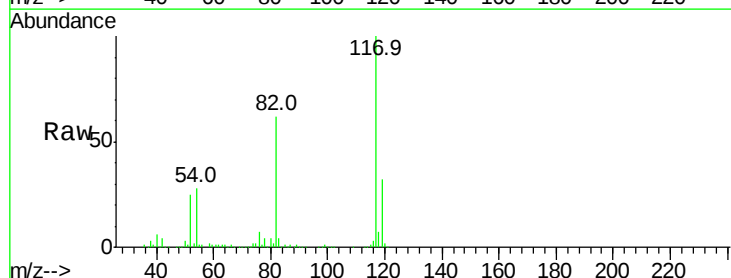
Tgt Ion: 117 Resp: 1535901

Ion Ratio Lower Upper

117 100

82 65.4 51.6 77.4

119 34.1 26.9 40.3



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

12.10

800000

600000

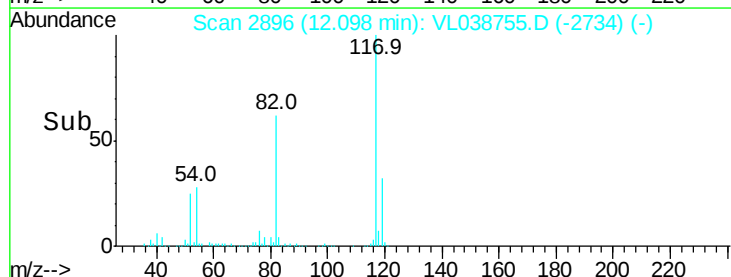
400000

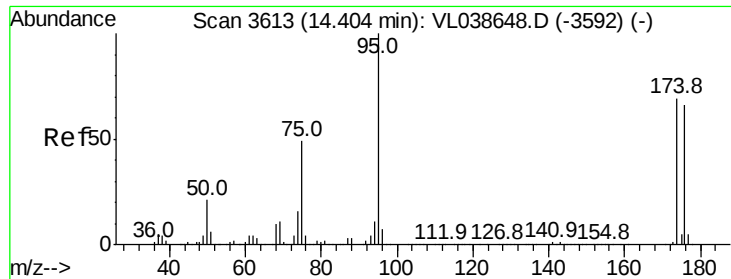
200000

0

Time-->

12.00 12.10 12.20





#68

1-Bromo-4-Fluorobenzene

Concen: 9.89 ppbv

RT: 14.43

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 19:38

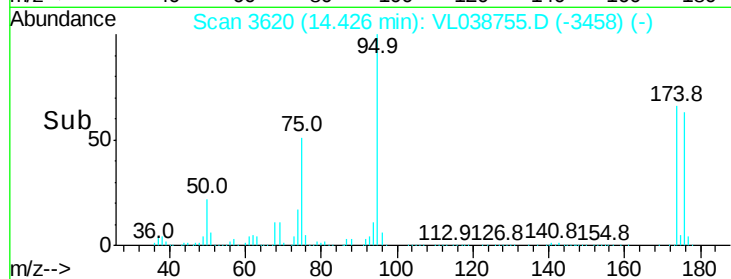
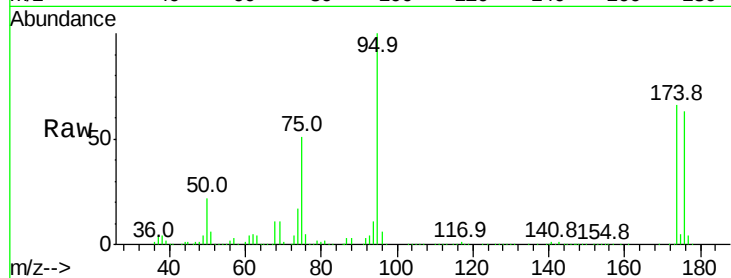
Tgt Ion: 95 Resp: 1164248

Ion Ratio Lower Upper

95 100

174 72.2 56.1 84.1

175 4.9 4.2 6.2



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

