

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038739.D
 Acq On : 24 Mar 2022 6:27
 Operator : SY/AP
 Sample : N2051-02DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 07:52:43 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	5.67	49	805773	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2174992	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1854397	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1328409	9.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.40%

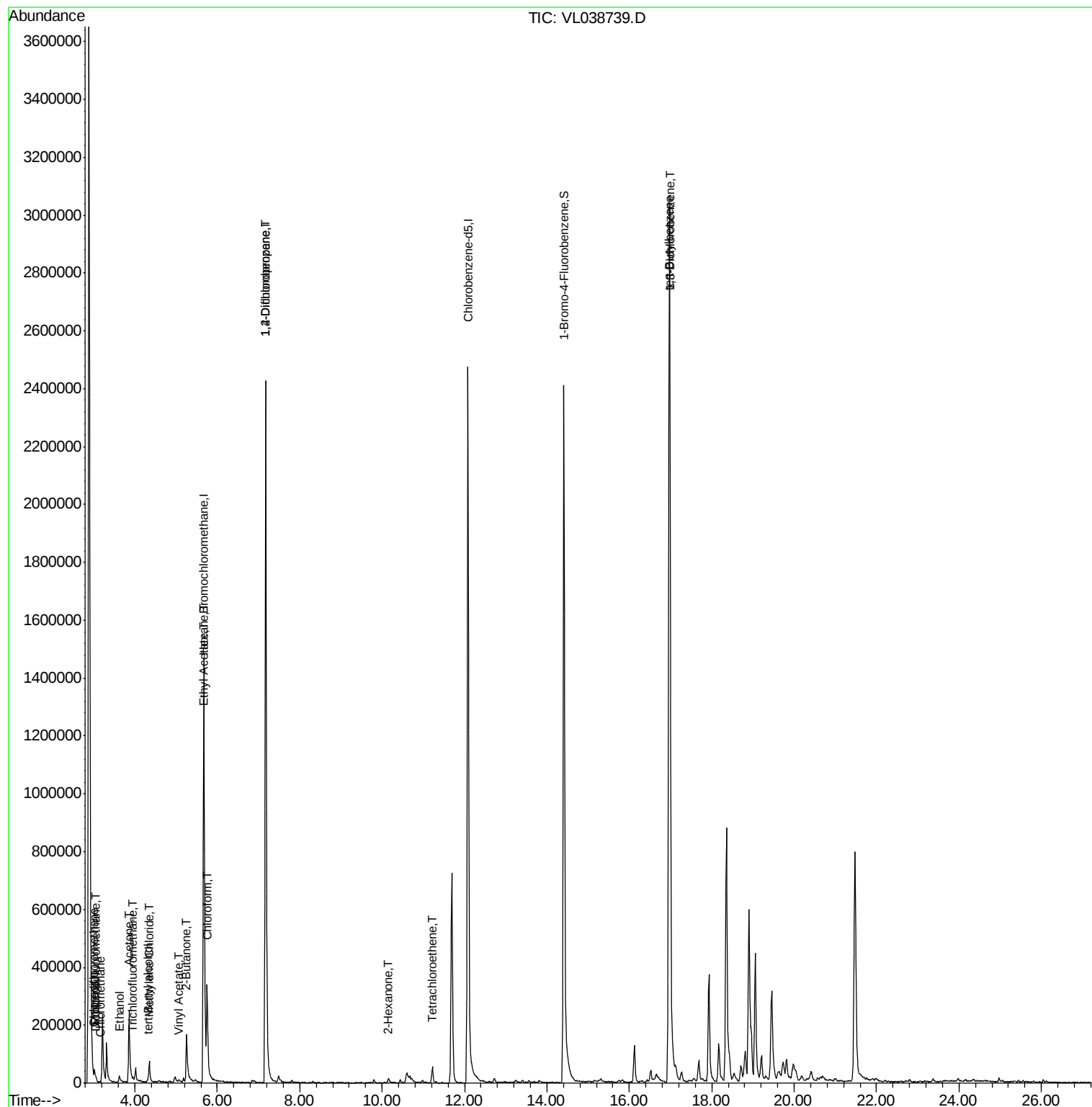
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	11467	0.106	ppbv 93
3) Chlorodifluoromethane	3.00	51	5401	0.063	ppbv # 91
4) Chloromethane	3.14	50	1606	0.034	ppbv # 75
9) Propene	3.02	41	20335	0.495	ppbv 98
11) Trichlorofluoromethane	3.95	101	5024	0.053	ppbv 84
13) Ethanol	3.62	45	27860	6.147	ppbv 84
15) Acetone	3.85	43	328016	4.718	ppbv # 88
17) tert-Butyl alcohol	4.31	59	4008	0.066	ppbv # 55
20) Methylene Chloride	4.35	84	29060	0.992	ppbv 98
23) Vinyl Acetate	5.07	43	2822	0.042	ppbv # 71
25) Ethyl Acetate	5.69	43	8975	0.051	ppbv # 81
26) Hexane	5.68	57	13273	0.169	ppbv # 34
29) Chloroform	5.75	83	246333	1.963	ppbv 99
34) 2-Butanone	5.25	43	258738	3.006	ppbv 93
39) 1,2-Dichloropropane	7.17	63	496587	7.567	ppbv # 28
51) 2-Hexanone	10.14	43	6029	0.052	ppbv # 27
52) Tetrachloroethene	11.22	164	8467	0.138	ppbv 92
65) tert-Butylbenzene	16.98	119	53884	0.222	ppbv # 30
75) 1,3-Dichlorobenzene	16.99	146	4226	0.031	ppbv # 23

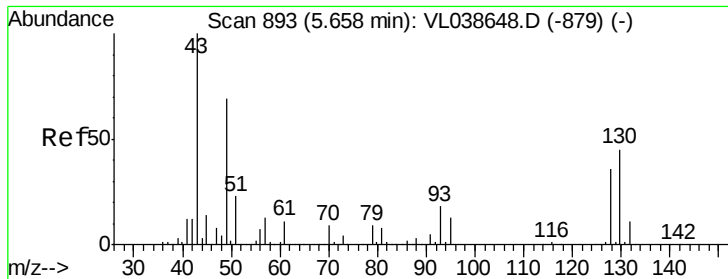
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 6:27

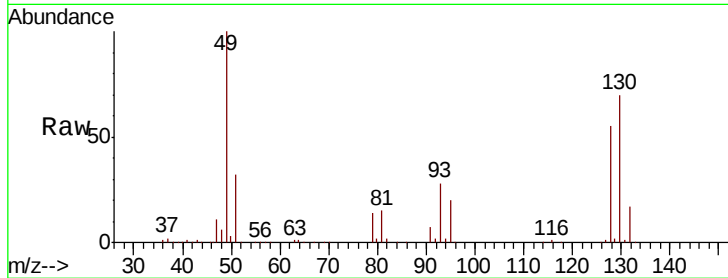
Tot Ion: 49 Resp: 805773

Ion Ratio Lower Upper

49 100

128 57.4 26.2 78.6

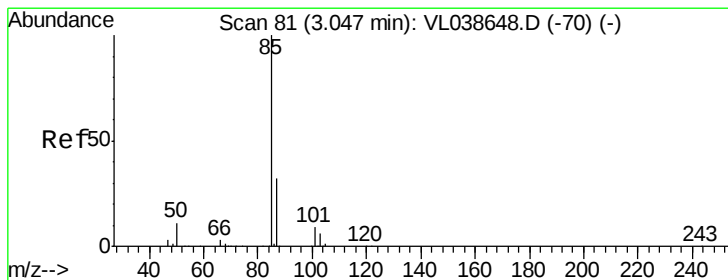
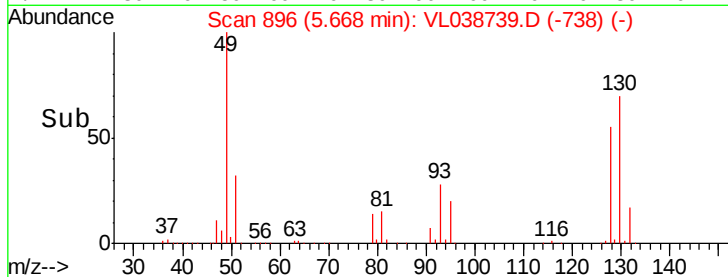
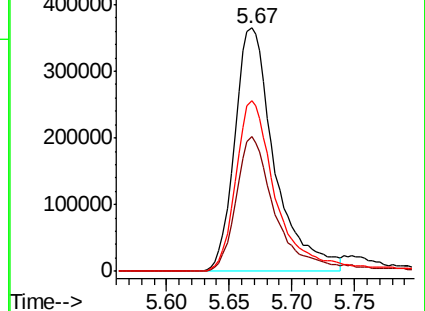
130 74.2 33.7 101.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.106 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038739.D

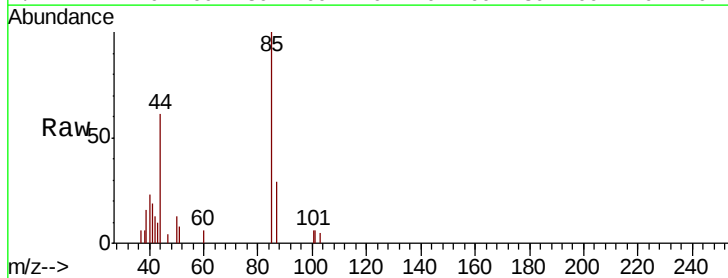
Acq: 24 Mar 2022 6:27

Tgt Ion: 85 Resp: 11467

Ion Ratio Lower Upper

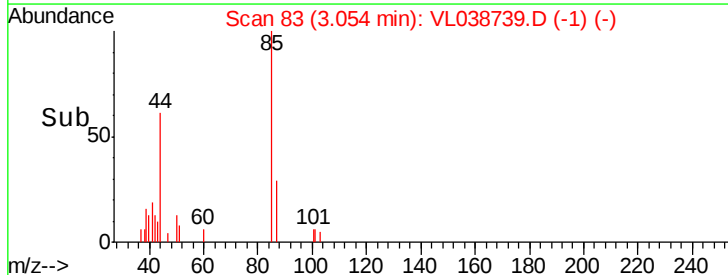
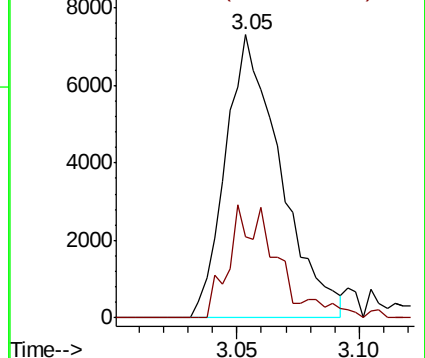
85 100

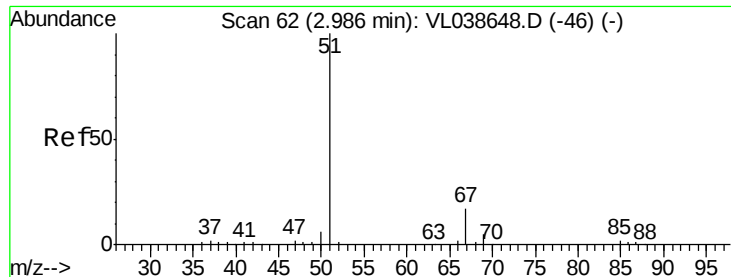
87 28.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.063 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

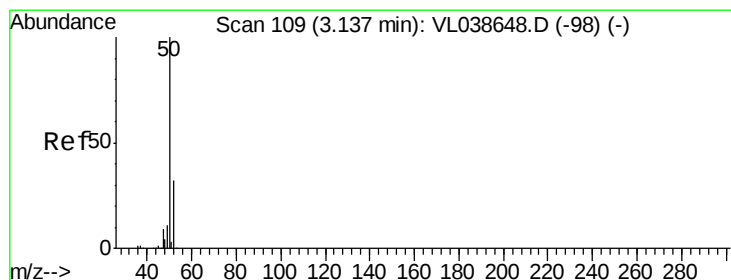
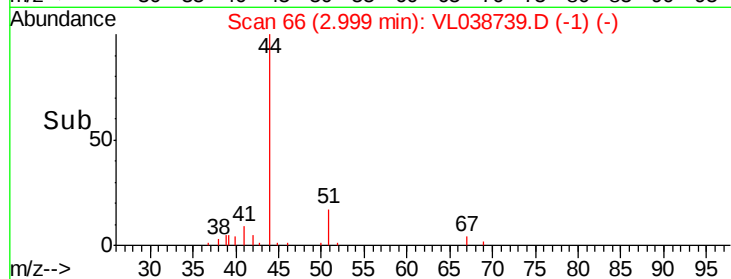
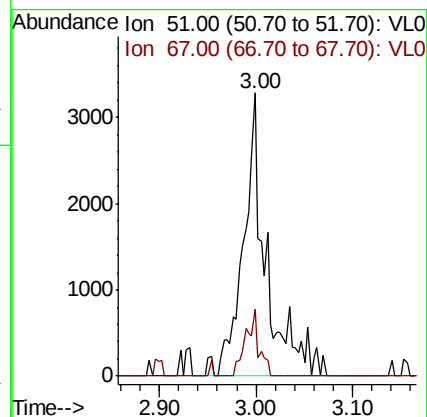
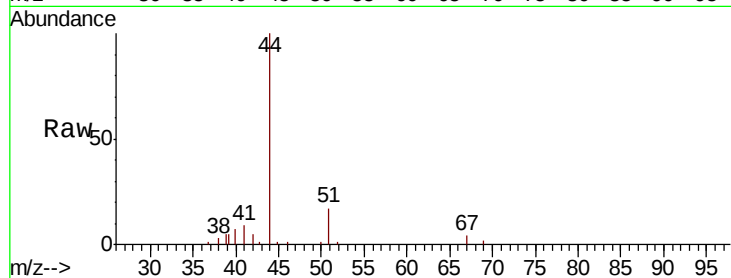
Acq: 24 Mar 2022 6:27

Tot Ion: 51 Resp: 5401

Ion Ratio Lower Upper

51 100

67 13.7 14.1 21.1#



#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038739.D

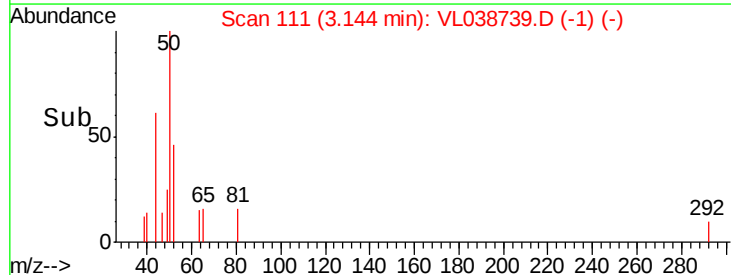
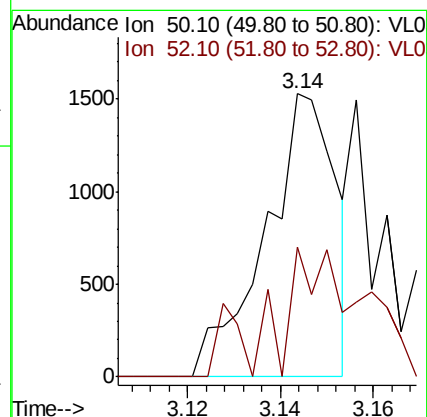
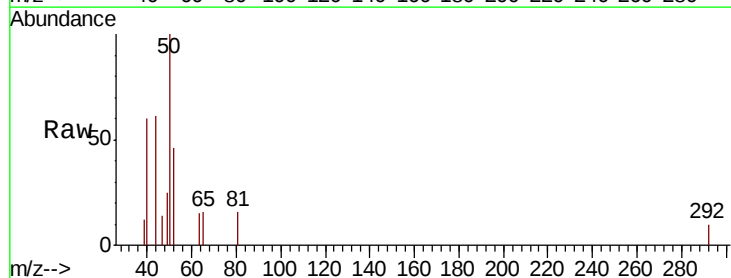
Acq: 24 Mar 2022 6:27

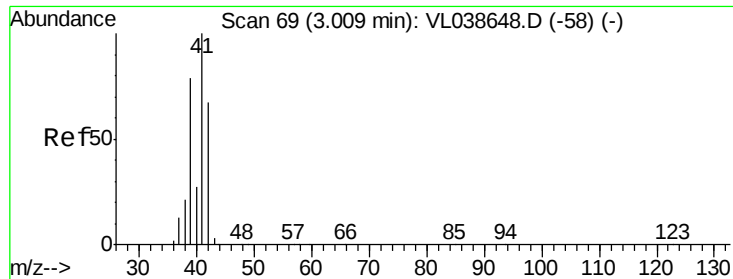
Tgt Ion: 50 Resp: 1606

Ion Ratio Lower Upper

50 100

52 46.0 25.5 38.3#





#9

Propene

Concen: 0.495 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

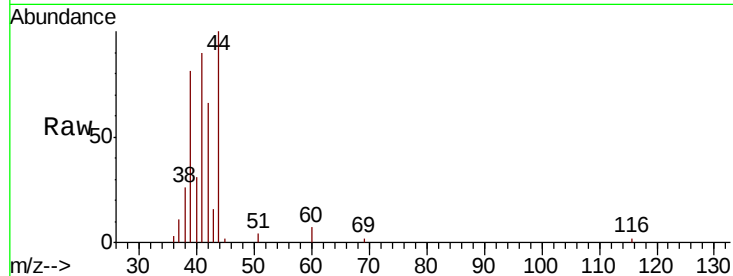
Acq: 24 Mar 2022 6:27

Tot Ion: 41 Resp: 20335

Ion Ratio Lower Upper

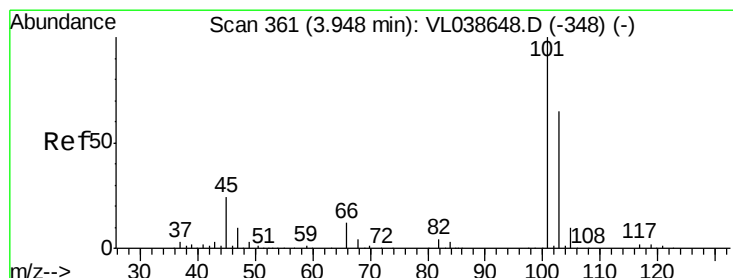
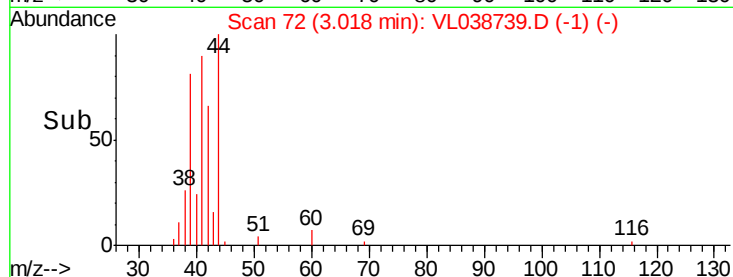
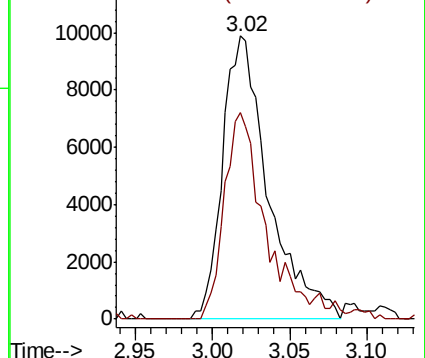
41 100

42 68.4 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.053 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL038739.D

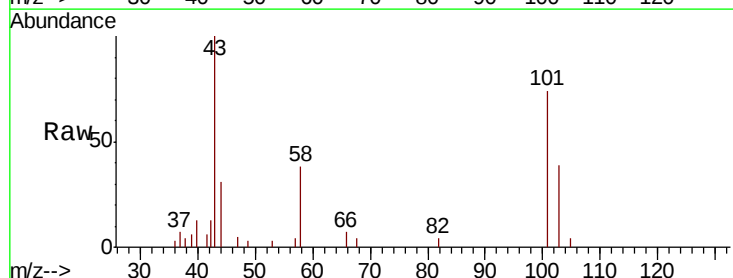
Acq: 24 Mar 2022 6:27

Tgt Ion:101 Resp: 5024

Ion Ratio Lower Upper

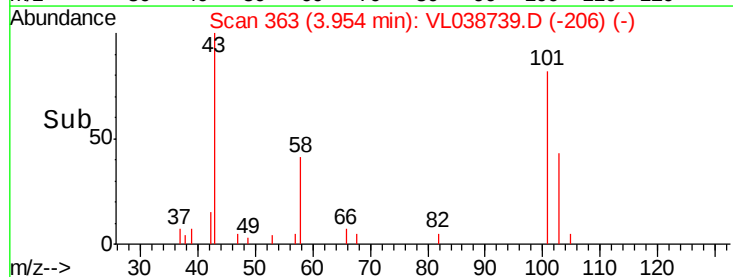
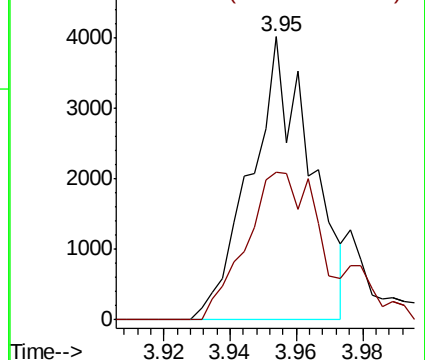
101 100

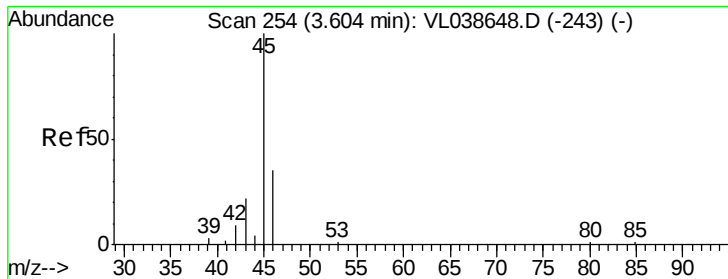
103 52.0 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

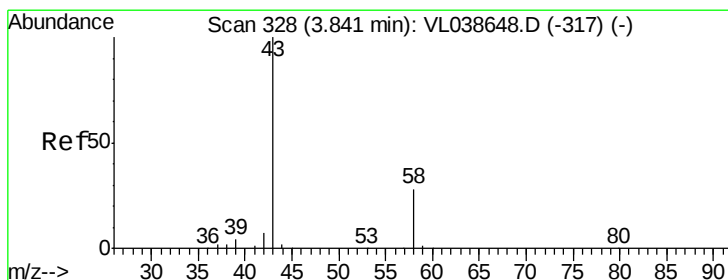
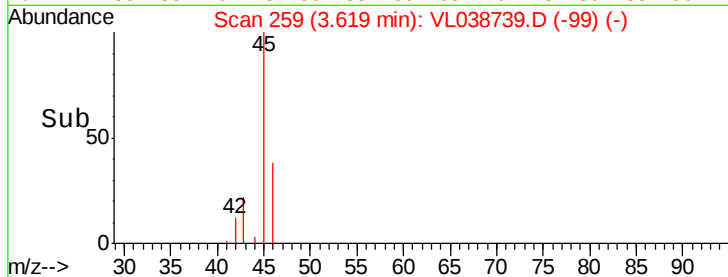
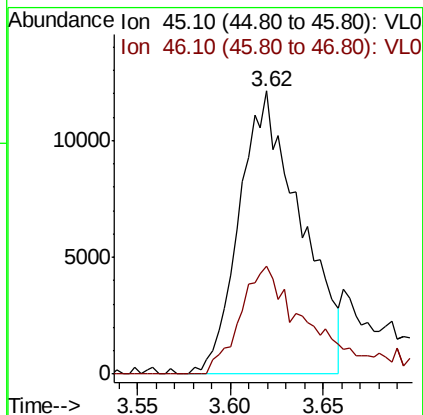
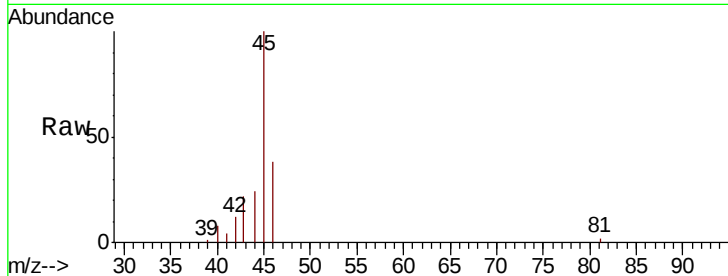
Ion 103.00 (102.70 to 103.70): V





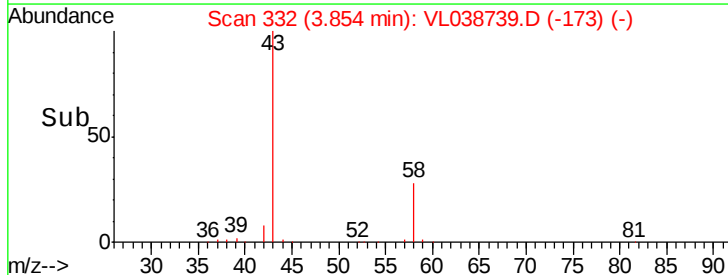
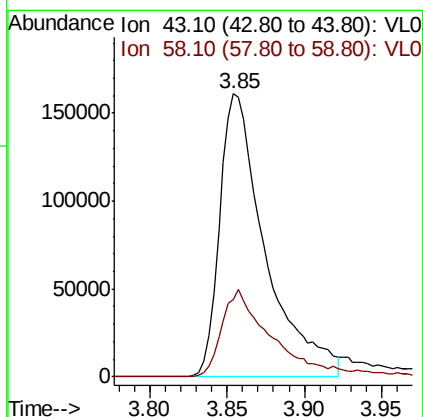
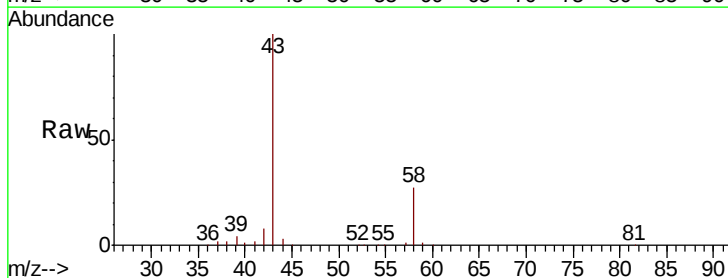
#13
 Ethanol
 Concen: 6.147 ppbv
 RT: 3.62
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 6:27

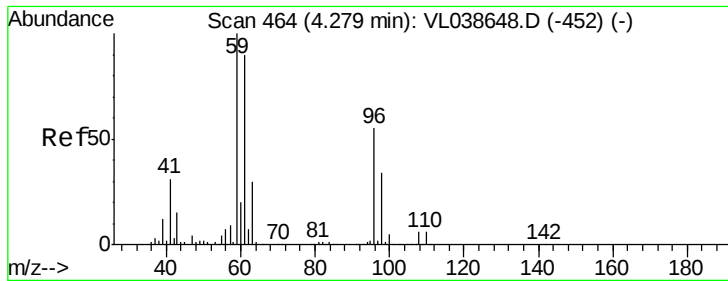
Tot Ion: 45 Resp: 27860
 Ion Ratio Lower Upper
 45 100
 46 47.4 15.1 60.5



#15
 Acetone
 Concen: 4.718 ppbv
 RT: 3.85 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL038739.D
 Acq: 24 Mar 2022 6:27

Tgt Ion: 43 Resp: 328016
 Ion Ratio Lower Upper
 43 100
 58 35.7 23.3 34.9#





#17

tert-Butyl alcohol

Concen: 0.066 ppbv

RT: 4.31 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

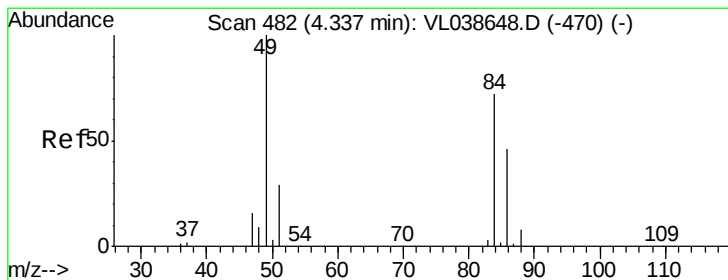
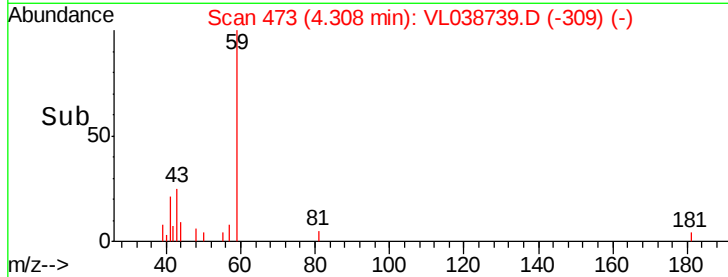
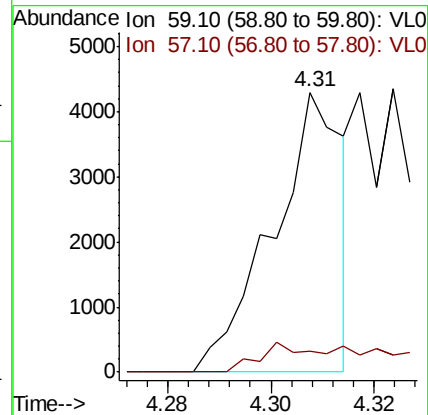
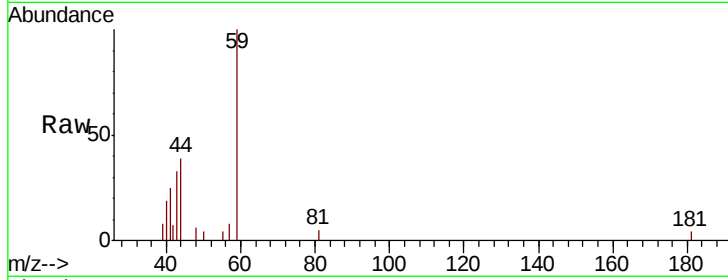
Acq: 24 Mar 2022 6:27

Tot Ion: 59 Resp: 4008

Ion Ratio Lower Upper

59 100

57 26.8 8.2 12.2#



#20

Methylene Chloride

Concen: 0.992 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL038739.D

Acq: 24 Mar 2022 6:27

Tgt Ion: 84 Resp: 29060

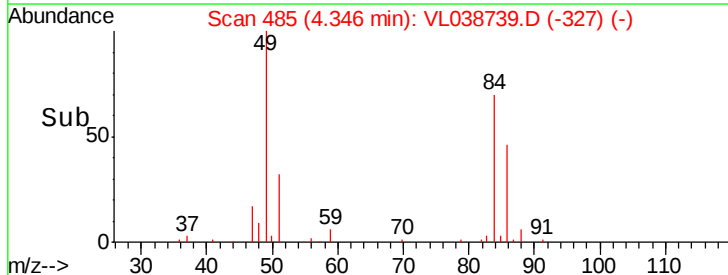
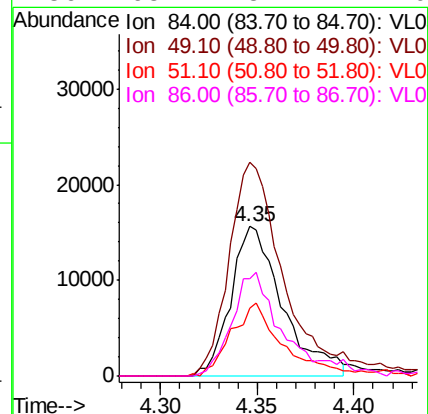
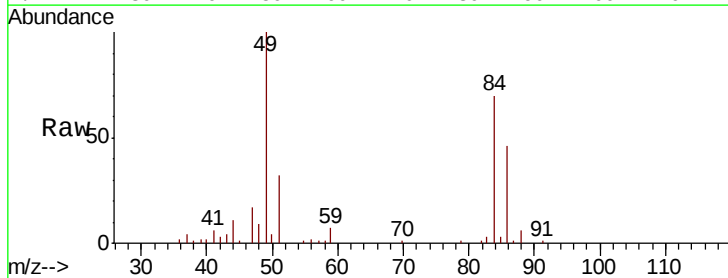
Ion Ratio Lower Upper

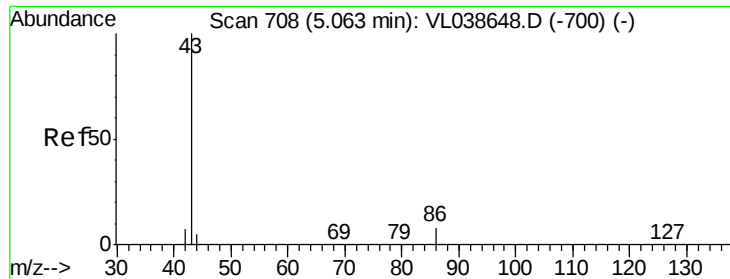
84 100

49 141.8 111.2 166.8

51 43.2 32.8 49.2

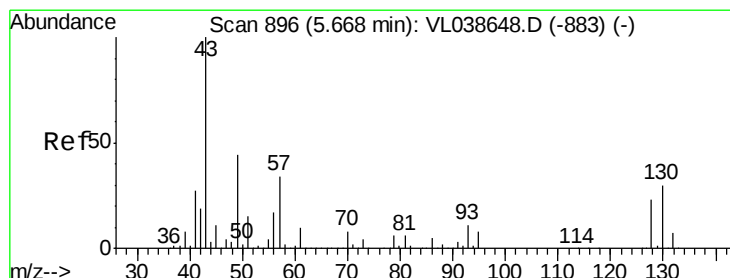
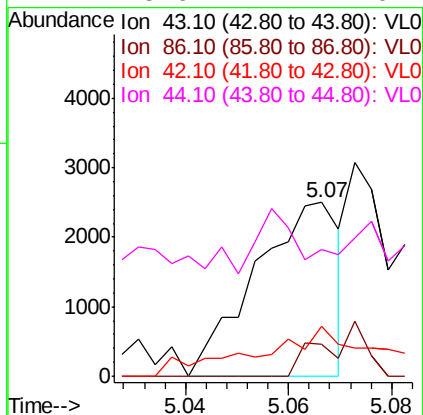
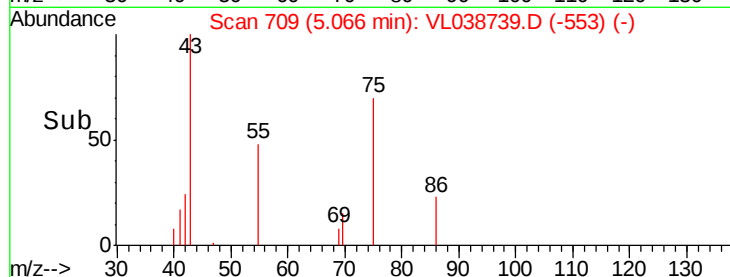
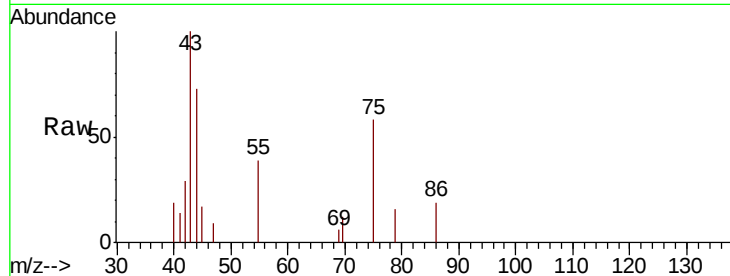
86 65.1 51.4 77.0





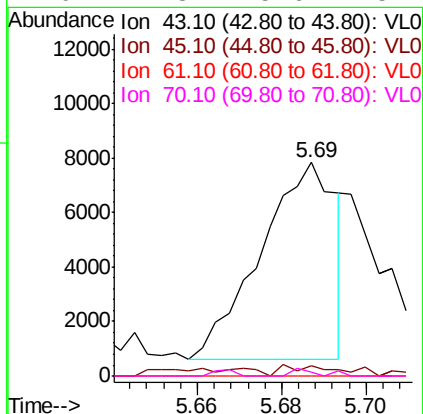
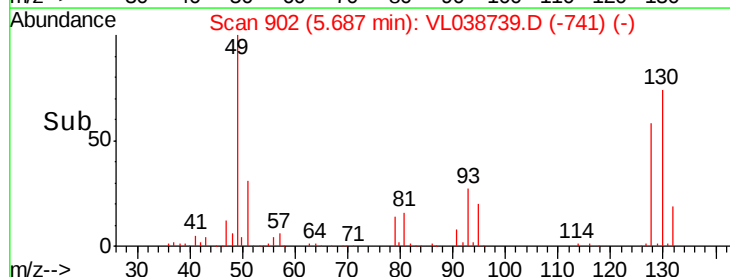
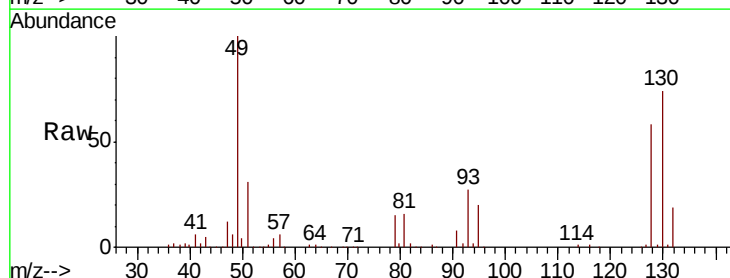
#23
 Vinyl Acetate
 Concen: 0.042 ppbv
 RT: 5.07 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 24 Mar 2022 6:27

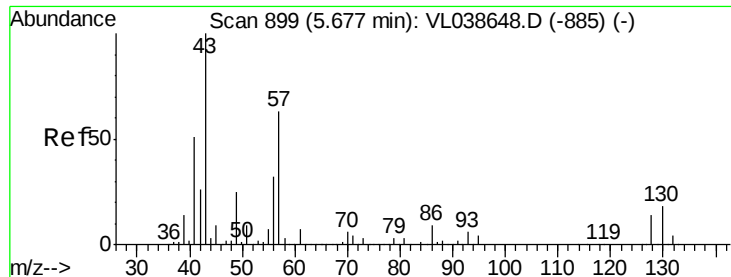
Tot Ion:	43	Resp:	2822
Ion	Ratio	Lower	Upper
43	100		
86	18.6	5.6	8.4#
42	22.8	6.8	10.2#
44	3.6	4.2	6.2#



#25
 Ethyl Acetate
 Concen: 0.051 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.02 min
 Lab File: VL038739.D
 Acq: 24 Mar 2022 6:27

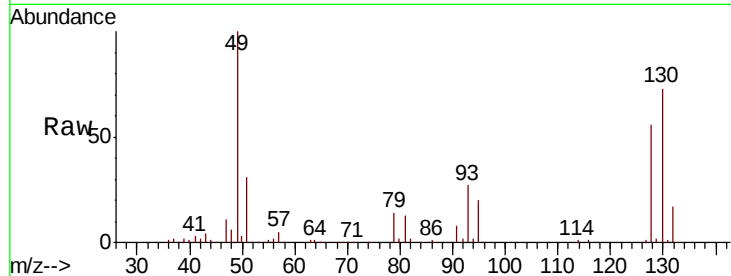
Tgt Ion:	43	Resp:	8975
Ion	Ratio	Lower	Upper
43	100		
45	4.9	8.2	12.4#
61	0.0	8.3	12.5#
70	2.3	5.6	8.4#





#26
Hexane
Concen: 0.169 ppbv
RT: 5.68 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Mar 2022 6:27

Tot Ion	57	Resp	13273
Ion	Ratio	Lower	Upper
57	100		
41	138.8	67.0	100.4#
43	121.4	184.2	276.2#
56	0.0	42.6	64.0#



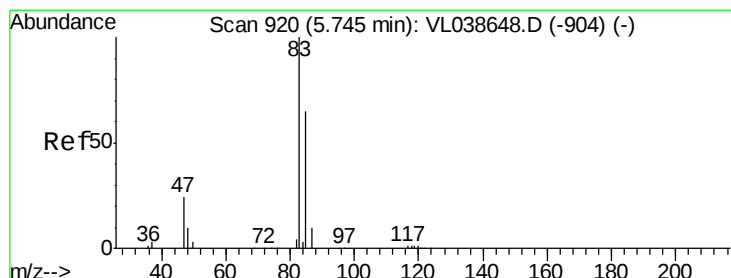
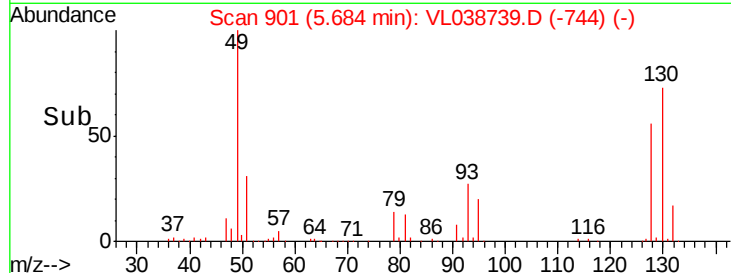
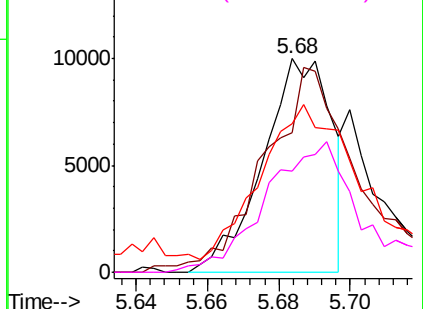
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

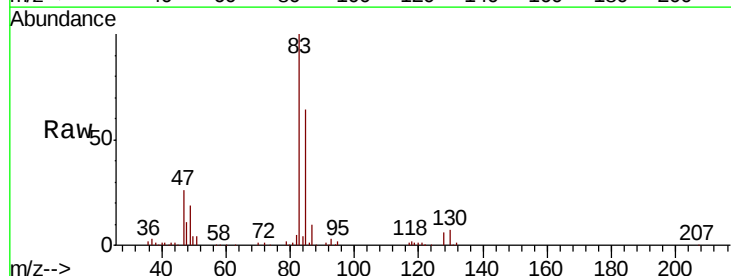
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 1.963 ppbv
RT: 5.75 min Scan# 922
Delta R.T.: 0.01 min
Lab File: VL038739.D
Acq: 24 Mar 2022 6:27

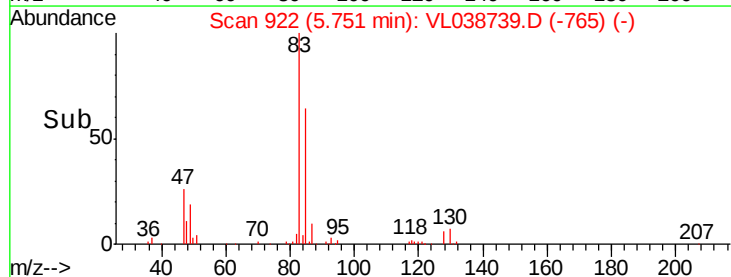
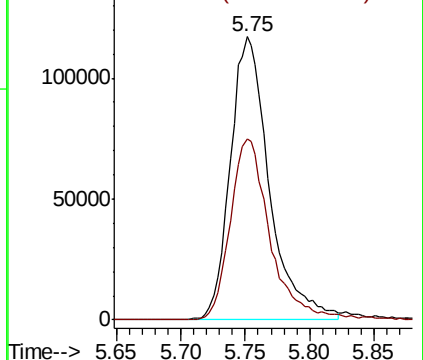
Tgt Ion	83	Resp	246333
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.7	77.5

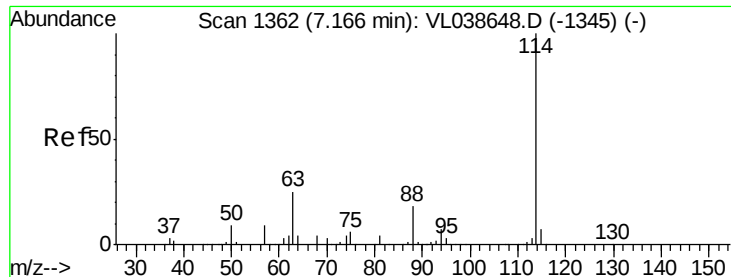


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

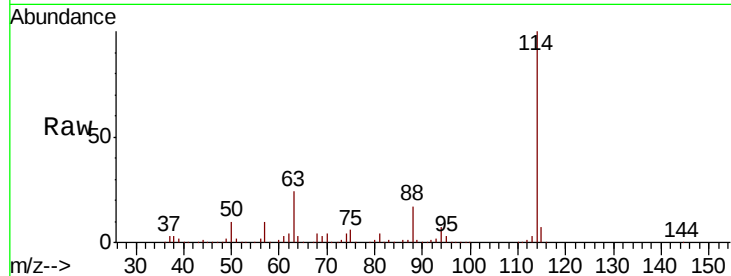




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 6:27

Tot Ion:114 Resp: 2174992

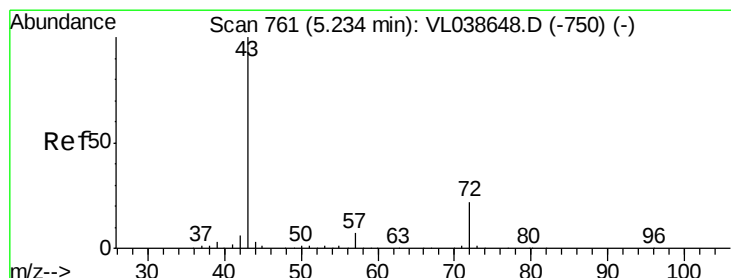
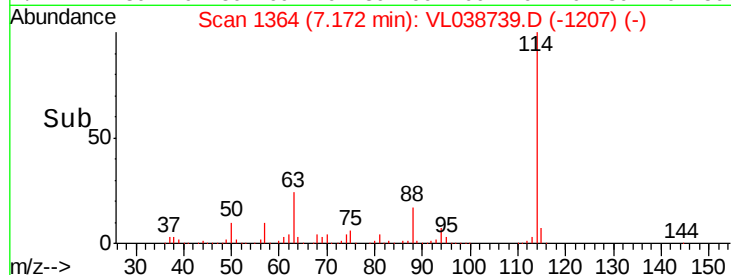
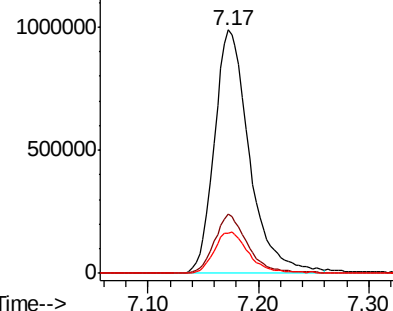
Ion	Ratio	Lower	Upper
114	100		
63	23.5	19.4	29.0
88	17.2	13.9	20.9



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

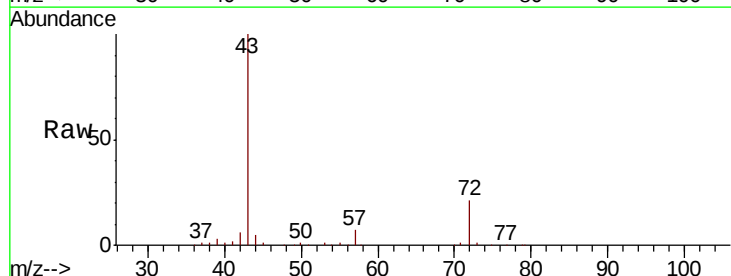
Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 3.006 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.02 min
 Lab File: VL038739.D
 Acq: 24 Mar 2022 6:27

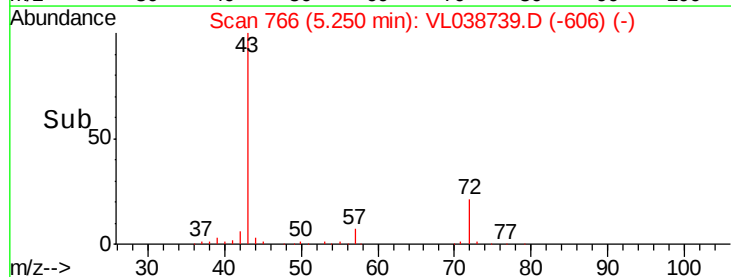
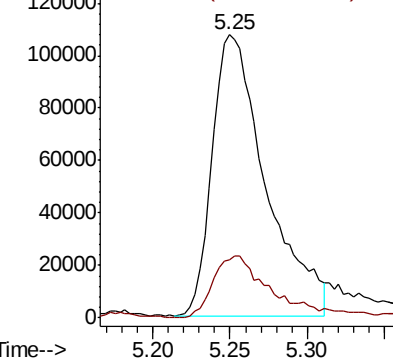
Tgt Ion: 43 Resp: 258738

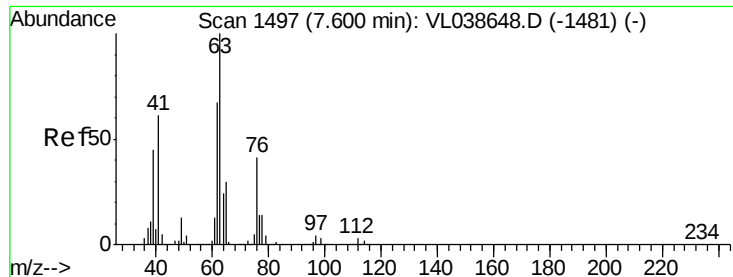
Ion	Ratio	Lower	Upper
43	100		
72	25.6	17.8	26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

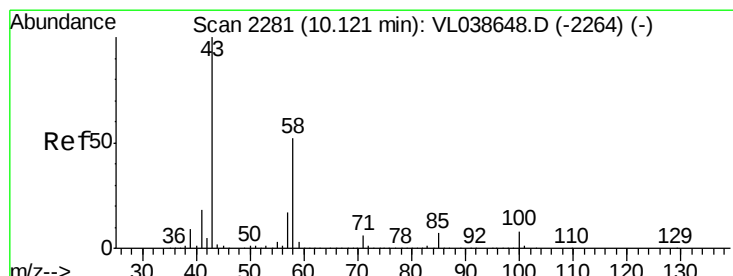
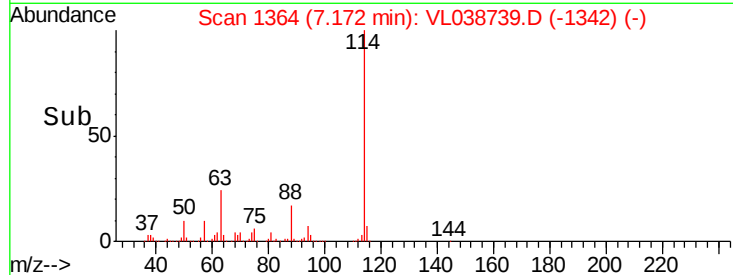
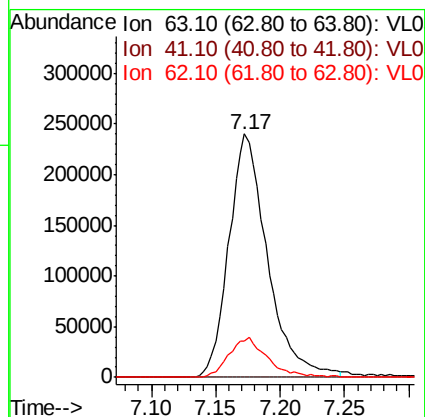
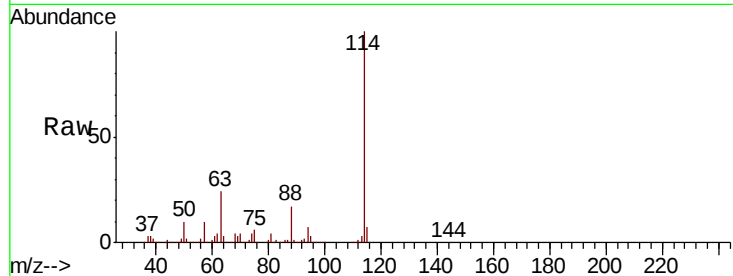
Ion 72.10 (71.80 to 72.80): VL0





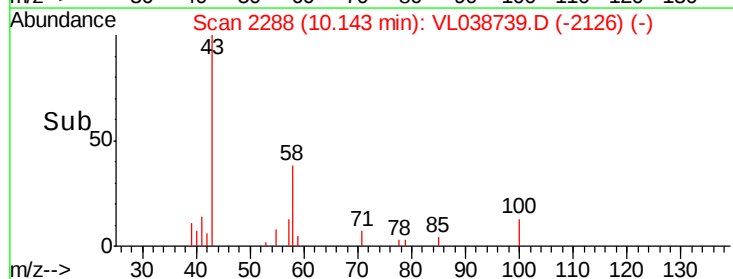
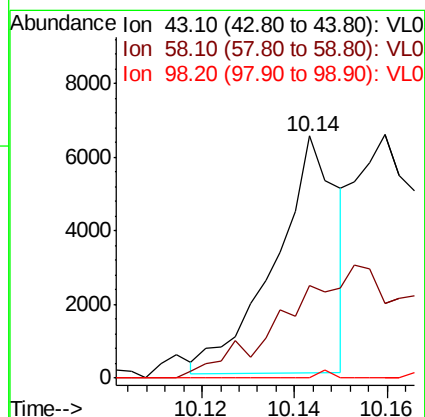
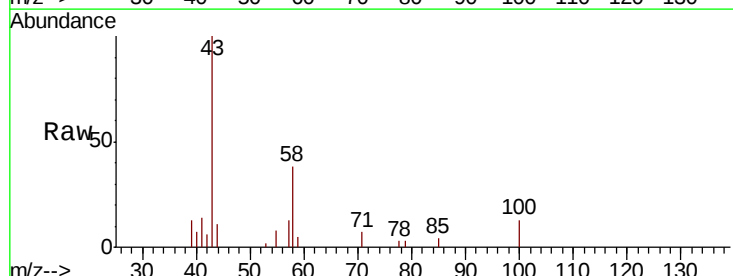
#39
 1,2-Dichloropropane
 Concen: 7.567 ppbv
 RT: 7.17
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 24 Mar 2022 6:27

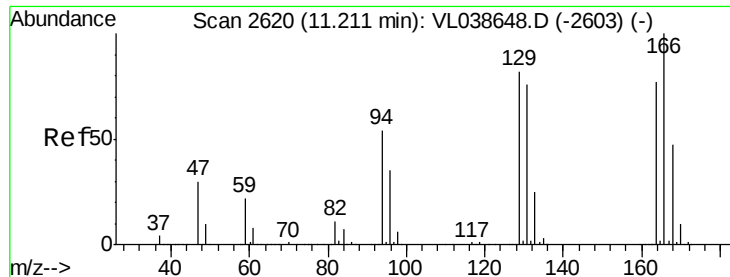
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.2	49.0	73.6#
62	14.9	53.9	80.9#



#51
 2-Hexanone
 Concen: 0.052 ppbv
 RT: 10.14 min Scan# 2288
 Delta R.T.: 0.02 min
 Lab File: VL038739.D
 Acq: 24 Mar 2022 6:27

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.2	61.8#
98	0.0	0.2	0.4#





#52

Tetrachloroethene

Concen: 0.138 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 6:27

Tot Ion:164 Resp: 8467

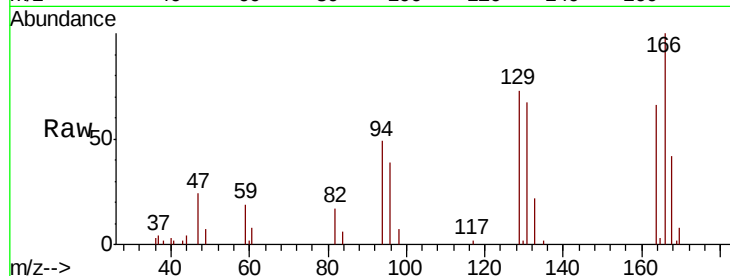
Ion Ratio Lower Upper

164 100

166 145.0 103.3 154.9

129 113.5 85.2 127.8

131 97.6 78.3 117.5

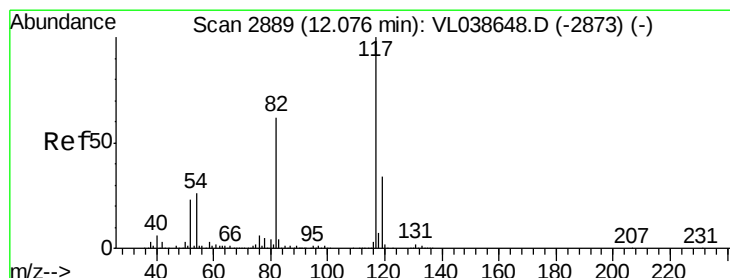
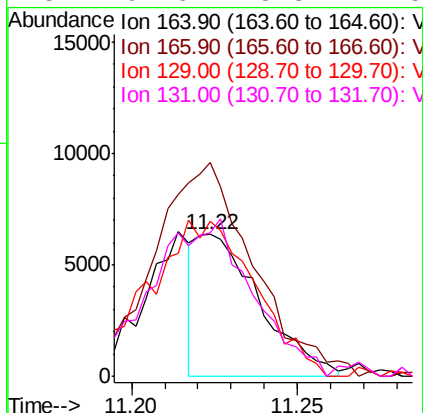
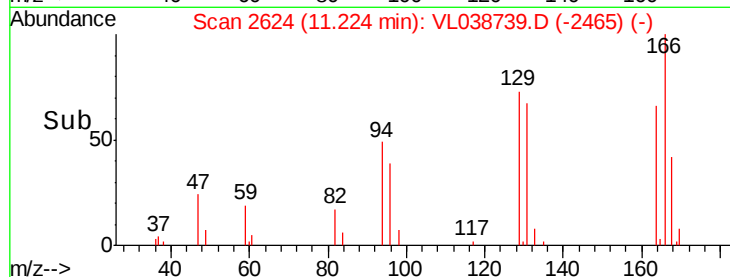


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.01 min

Lab File: VL038739.D

Acq: 24 Mar 2022 6:27

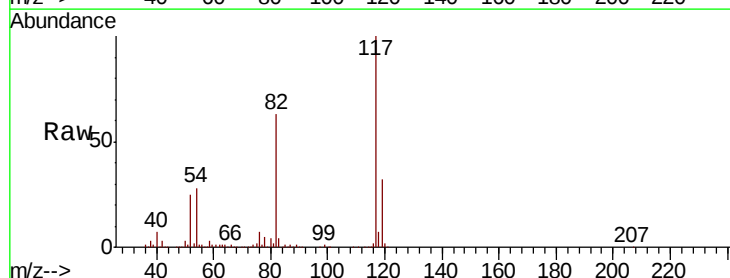
Tgt Ion:117 Resp: 1854397

Ion Ratio Lower Upper

117 100

82 65.1 51.6 77.4

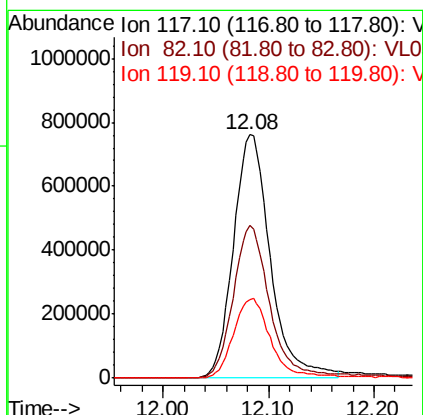
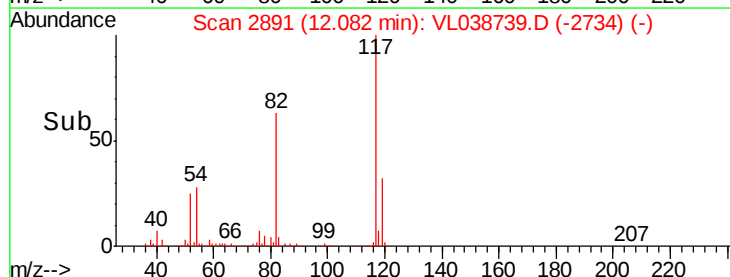
119 34.0 26.9 40.3

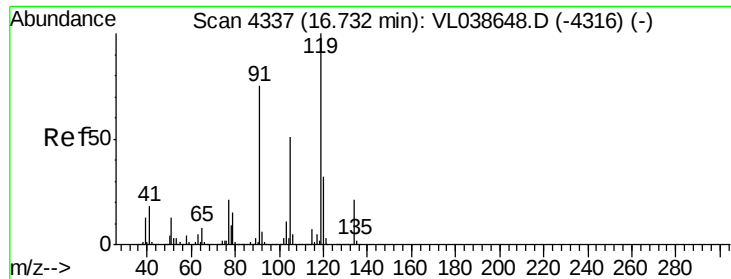


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

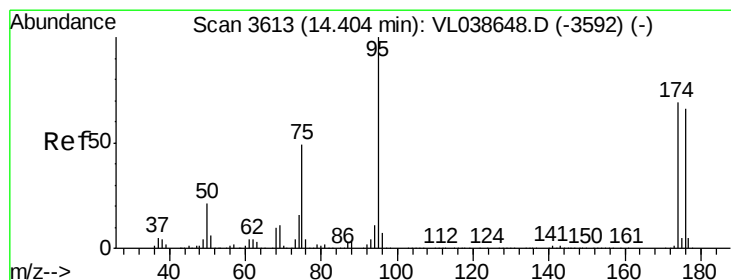
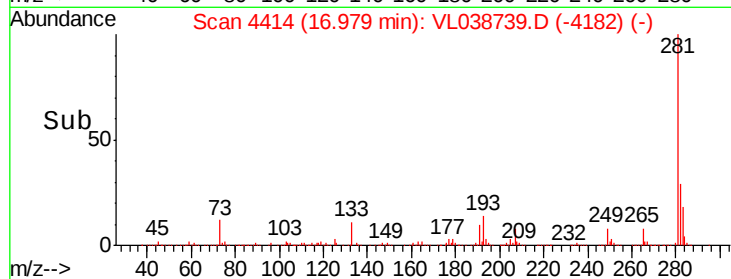
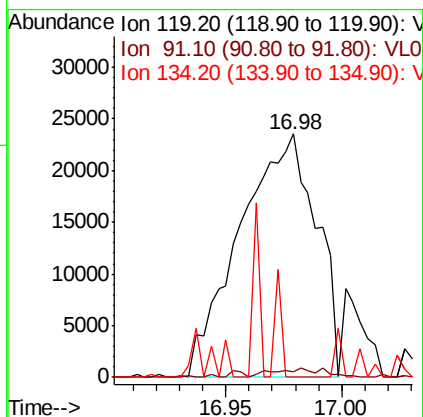
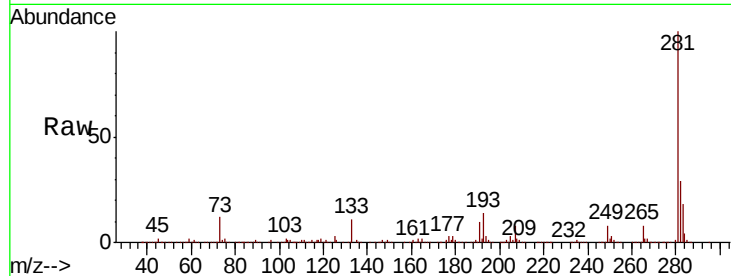
Ion 119.10 (118.80 to 119.80): V





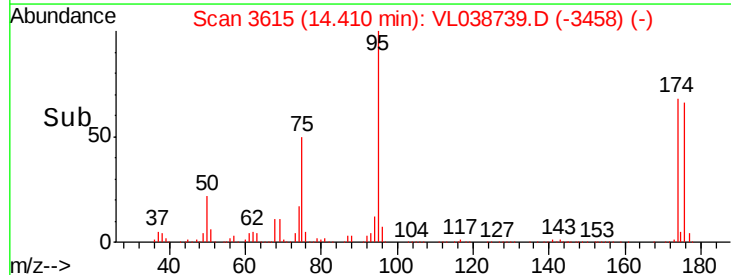
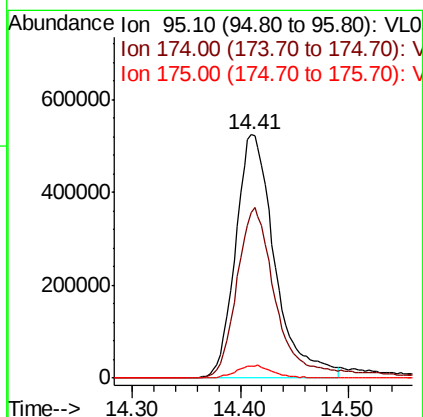
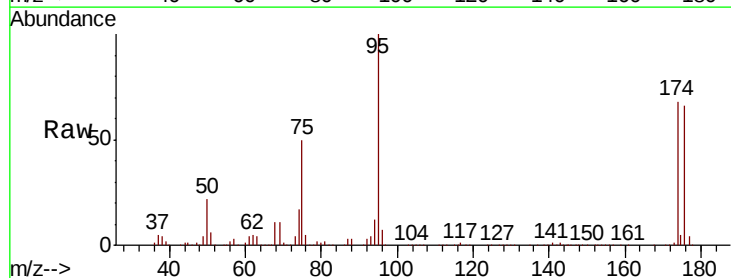
#65
tert-Butylbenzene
Concen: 0.222 ppbv
RT: 16.98
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 24 Mar 2022 6:27

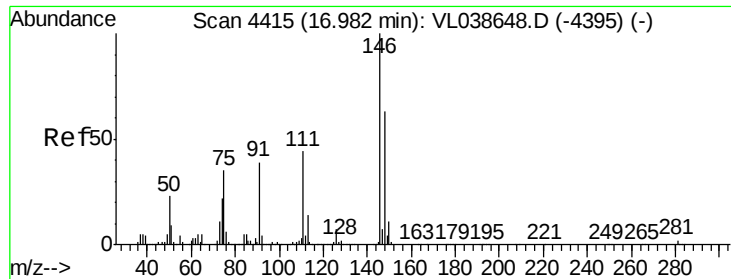
Tot Ion: 119 Resp: 53884
Ion Ratio Lower Upper
119 100
91 3.2 61.2 91.8#
134 14.4 16.3 24.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.344 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. 0.01 min
Lab File: VL038739.D
Acq: 24 Mar 2022 6:27

Tgt Ion: 95 Resp: 1328409
Ion Ratio Lower Upper
95 100
174 73.1 56.1 84.1
175 5.4 4.2 6.2





#75

1,3-Dichlorobenzene

Concen: 0.031 ppbv

RT: 16.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 8.27

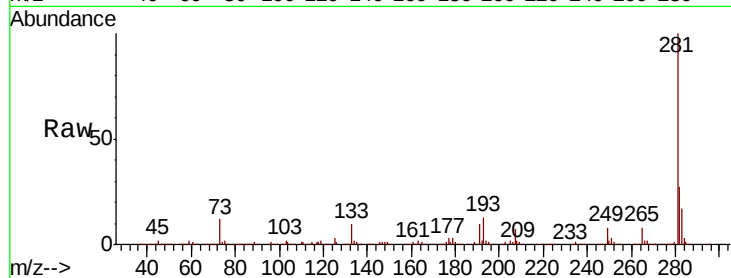
Tot Ion:146 Resp: 4226

Ion Ratio Lower Upper

146 100

111 0.0 22.2 66.6#

148 0.0 32.5 97.5#



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

