

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038734.D
 Acq On : 24 Mar 2022 3:09
 Operator : SY/AP
 Sample : N2050-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P87

Quant Time: Mar 24 04:37:07 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	5.66	49	721720	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1917582	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1764528	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1242090	9.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.80%

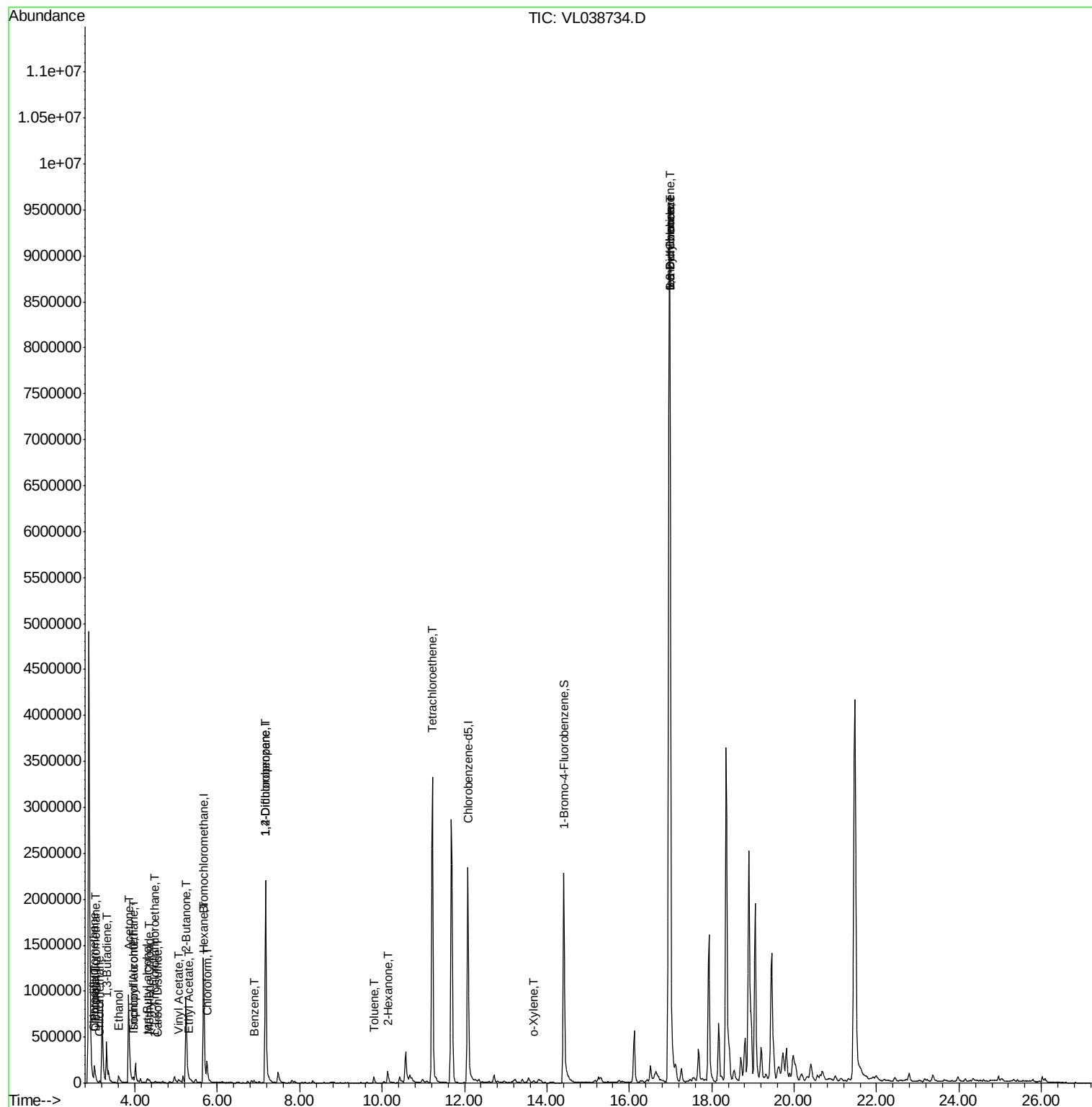
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	28802	0.297	ppbv 98
3) Chlorodifluoromethane	2.99	51	35358	0.464	ppbv 92
4) Chloromethane	3.14	50	23349	0.558	ppbv 95
9) Propene	3.02	41	80210	2.180	ppbv 94
11) Trichlorofluoromethane	3.95	101	24630	0.288	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	6153	0.093	ppbv 97
13) Ethanol	3.61	45	52990	13.054	ppbv # 3
15) Acetone	3.85	43	1233378	19.805	ppbv # 88
16) 1,3-Butadiene	3.31	39	120399	3.407	ppbv # 15
17) tert-Butyl alcohol	4.29	59	43287	0.796	ppbv 96
19) Isopropyl Alcohol	3.97	45	12799	0.371	ppbv # 91
20) Methylene Chloride	4.35	84	11705	0.446	ppbv 90
23) Vinyl Acetate	5.06	43	31918	0.529	ppbv # 82
25) Ethyl Acetate	5.33	43	21165	0.135	ppbv # 80
26) Hexane	5.69	57	7539	0.107	ppbv # 1
27) Carbon Disulfide	4.55	76	4513	0.066	ppbv # 86
29) Chloroform	5.75	83	170277	1.515	ppbv 97
34) 2-Butanone	5.24	43	1404533	18.506	ppbv 97
36) Benzene	6.89	78	23116	0.156	ppbv 98
39) 1,2-Dichloropropane	7.17	63	448110	7.745	ppbv # 29
51) 2-Hexanone	10.14	43	117873	1.163	ppbv # 100
52) Tetrachloroethene	11.22	164	932147	17.211	ppbv 98
53) Toluene	9.80	91	51897	0.326	ppbv 99
60) o-Xylene	13.69	91	5180	0.030	ppbv 67
65) tert-Butylbenzene	16.98	119	194987	0.842	ppbv # 25
66) Benzyl Chloride	16.98	91	1463	0.033	ppbv # 65
75) 1,3-Dichlorobenzene	16.99	146	21655	0.169	ppbv # 1

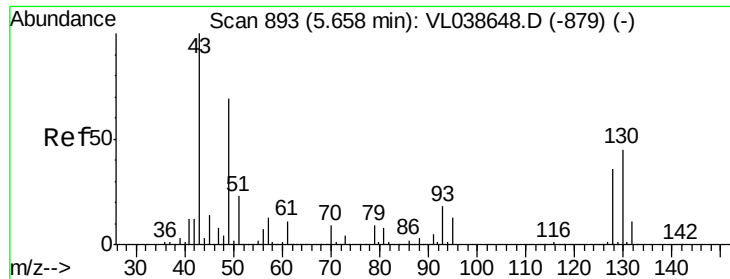
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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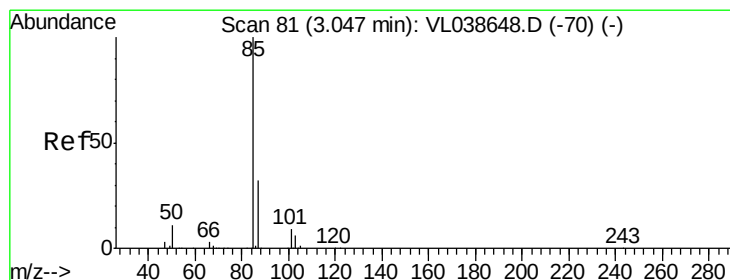
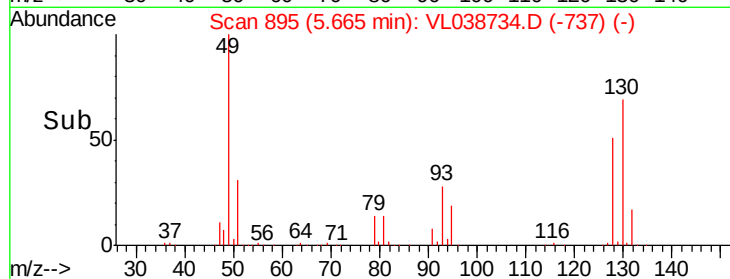
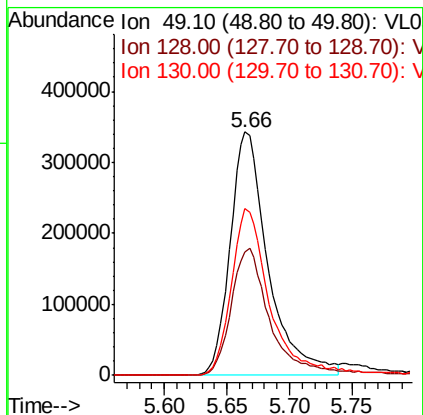
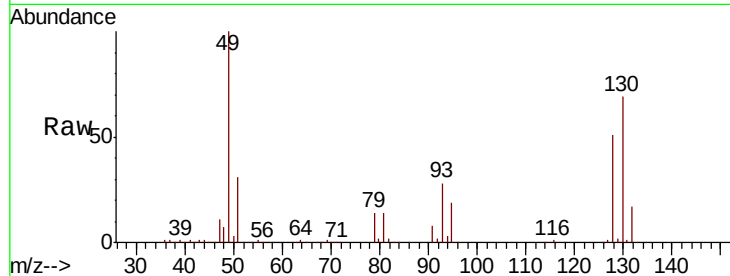
Quant Time: Mar 24 04:37:07 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
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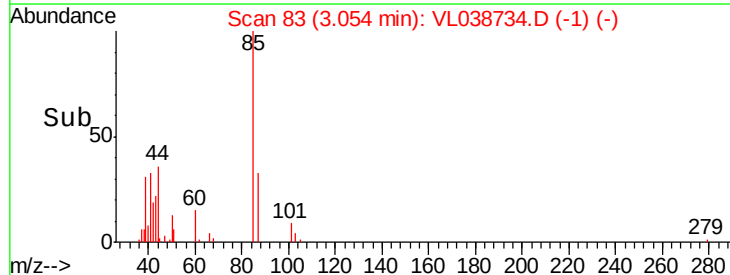
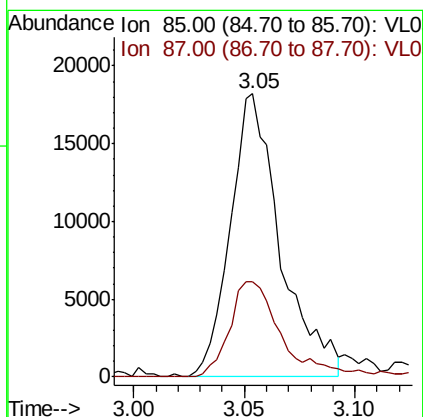
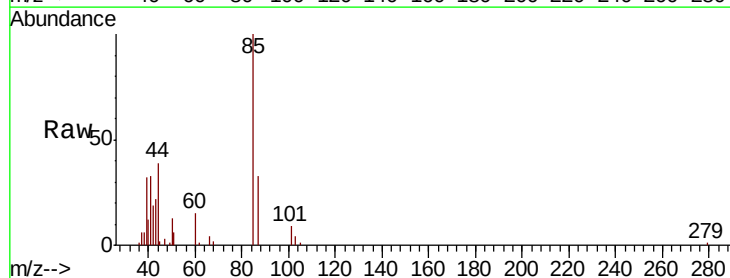
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 C0P87
 Acq: 24 Mar 2022 3:09

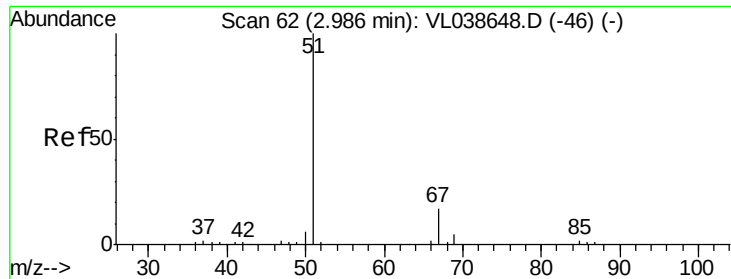
Tot Ion: 49 Resp: 721720
 Ion Ratio Lower Upper
 49 100
 128 55.4 26.2 78.6
 130 71.7 33.7 101.1



#2
 Dichlorodifluoromethane
 Concen: 0.297 ppbv
 RT: 3.05 min Scan# 83
 Delta R.T. 0.01 min
 Lab File: VL038734.D
 Acq: 24 Mar 2022 3:09

Tgt Ion: 85 Resp: 28802
 Ion Ratio Lower Upper
 85 100
 87 33.4 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.464 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP87

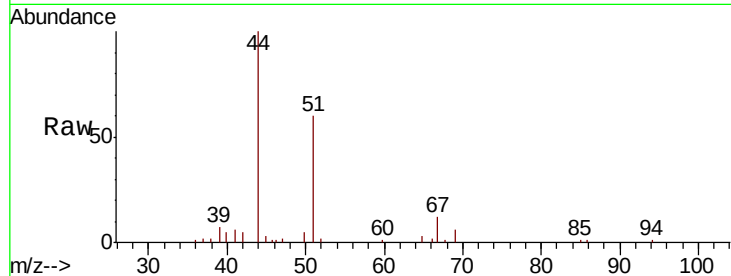
Acq: 24 Mar 2022 3:09

Tot Ion: 51 Resp: 35358

Ion Ratio Lower Upper

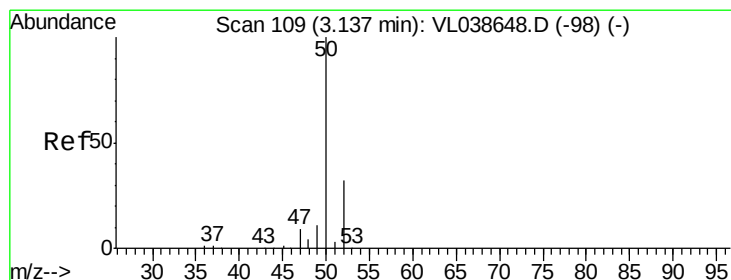
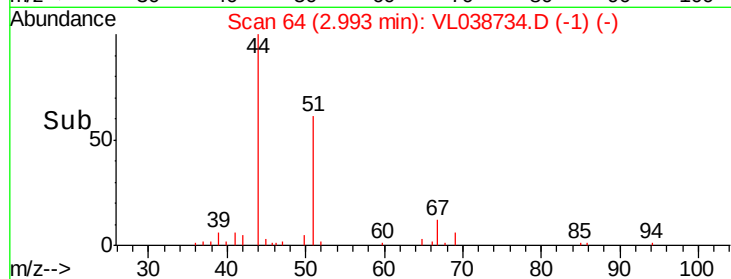
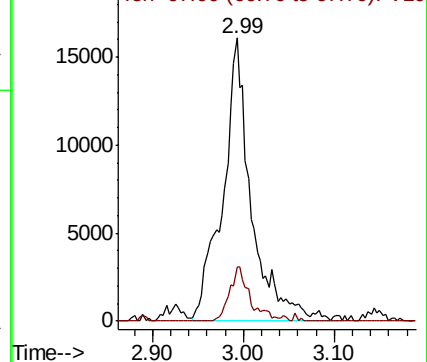
51 100

67 14.2 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: 0.558 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038734.D

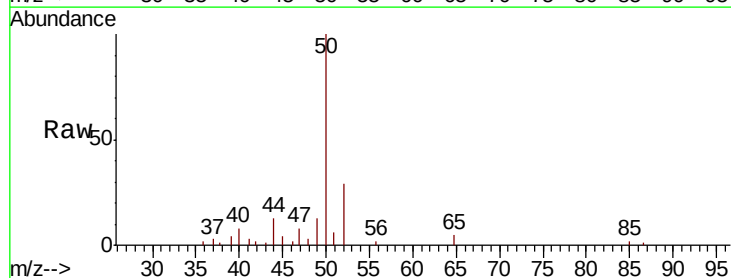
Acq: 24 Mar 2022 3:09

Tgt Ion: 50 Resp: 23349

Ion Ratio Lower Upper

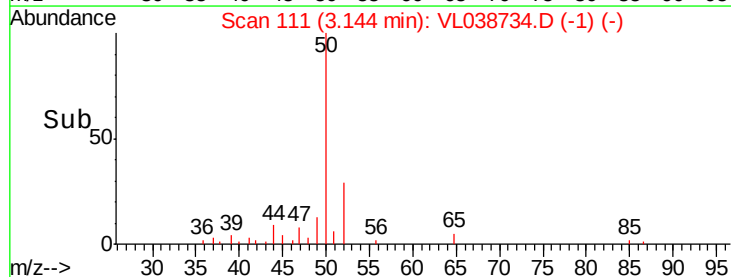
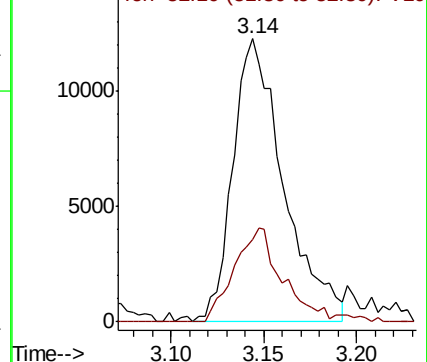
50 100

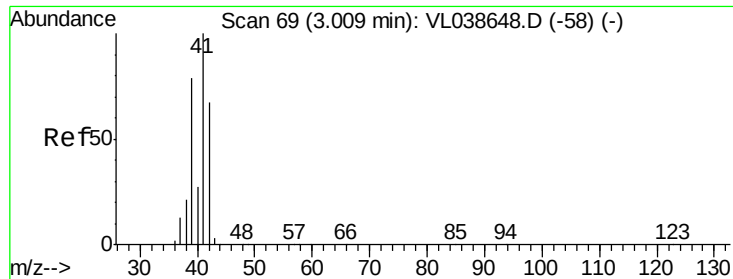
52 29.2 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.180 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

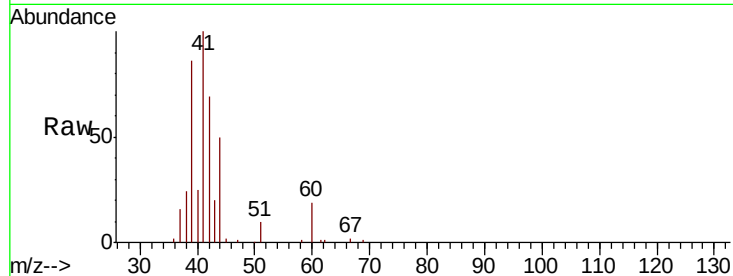
Acq: 24 Mar 2022 C0P87

Tot Ion: 41 Resp: 80210

Ion Ratio Lower Upper

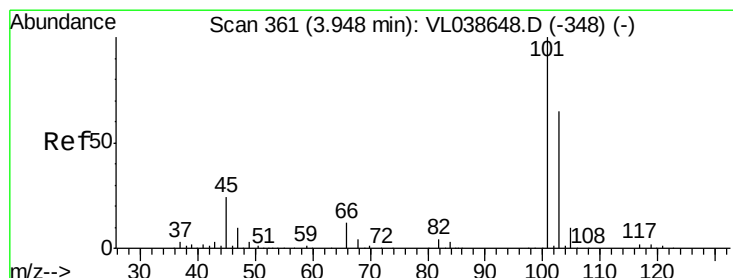
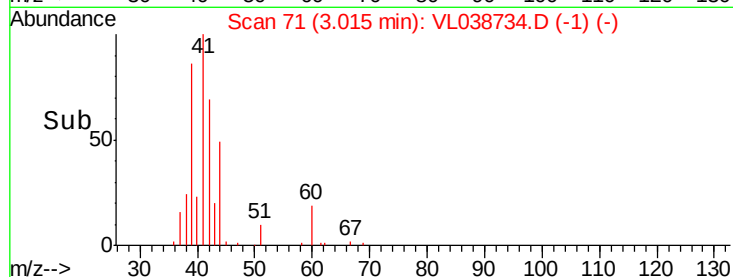
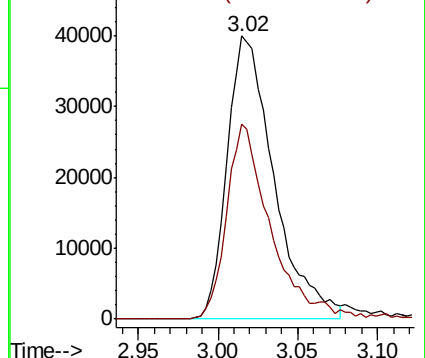
41 100

42 65.4 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: 0.288 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL038734.D

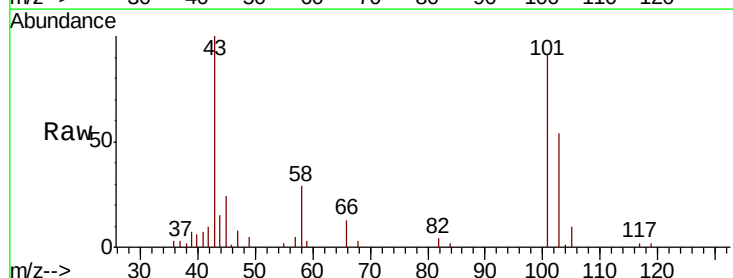
Acq: 24 Mar 2022 3:09

Tgt Ion:101 Resp: 24630

Ion Ratio Lower Upper

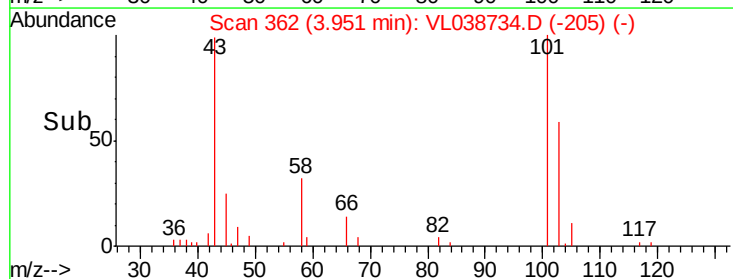
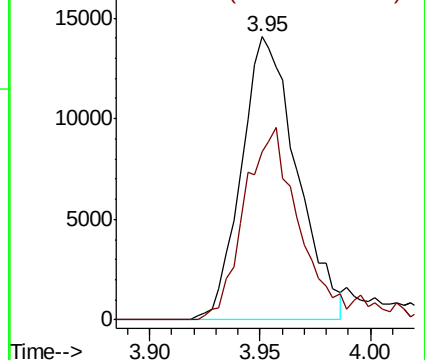
101 100

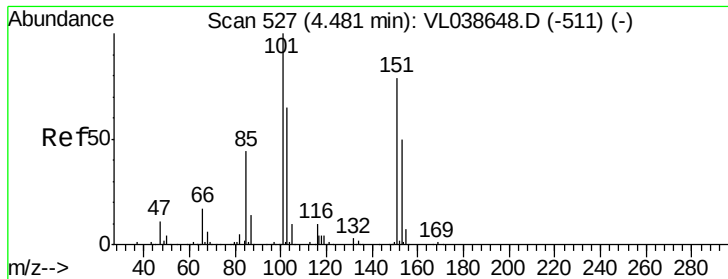
103 59.4 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

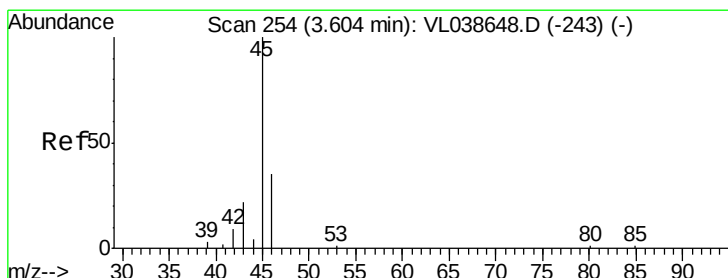
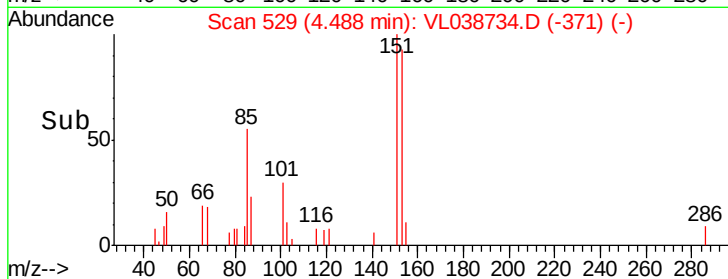
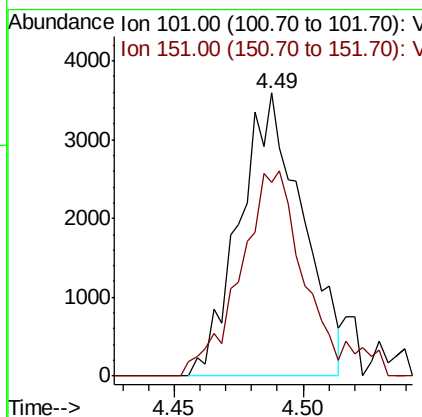
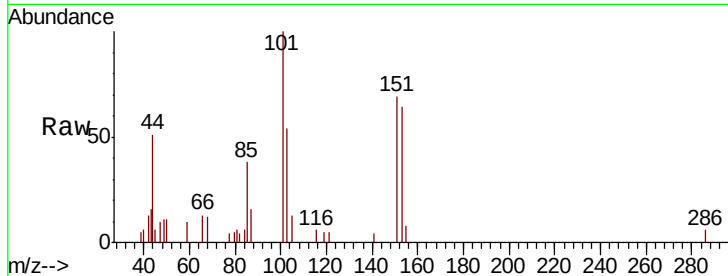
Ion 103.00 (102.70 to 103.70): V





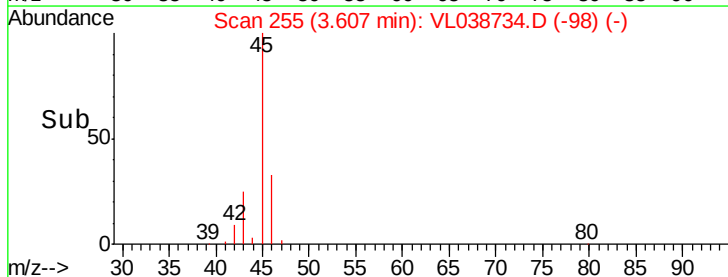
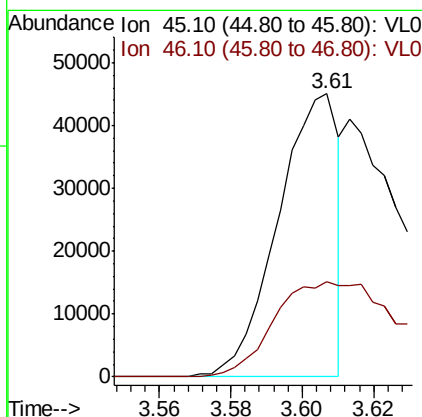
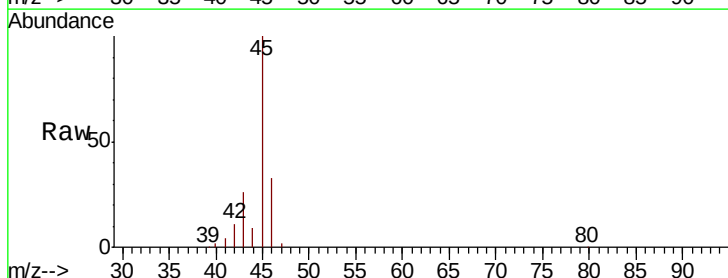
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.093 ppbv
 RT: 4.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 3:09

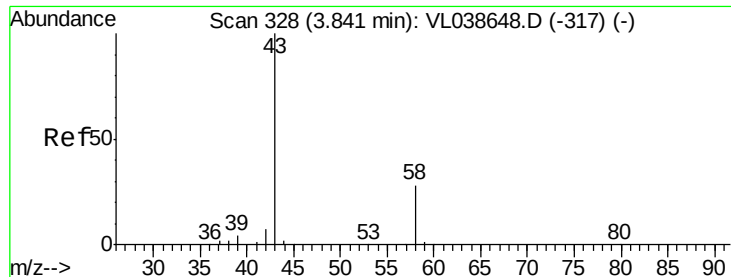
Tot Ion:101 Resp: 6153
 Ion Ratio Lower Upper
 101 100
 151 76.0 62.9 94.3



#13
 Ethanol
 Concen: 13.054 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. 0.00 min
 Lab File: VL038734.D
 Acq: 24 Mar 2022 3:09

Tgt Ion: 45 Resp: 52990
 Ion Ratio Lower Upper
 45 100
 46 95.9 15.1 60.5#





#15

Acetone

Concen: 19.805 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

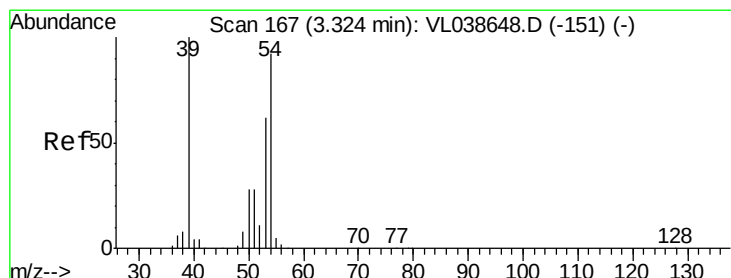
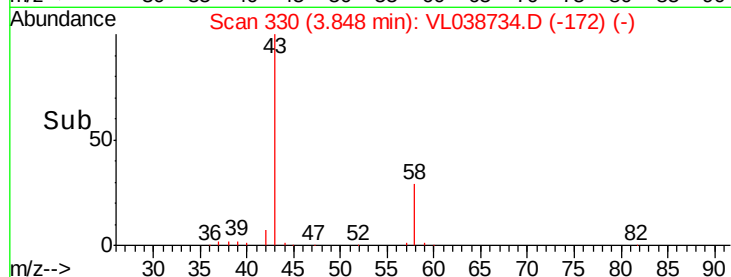
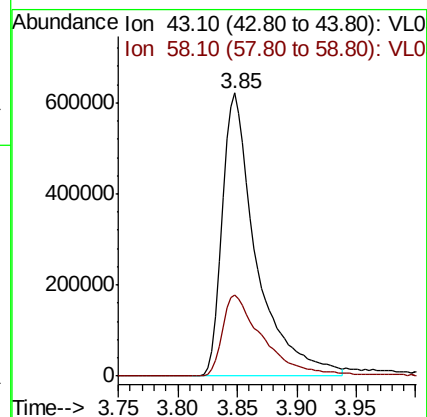
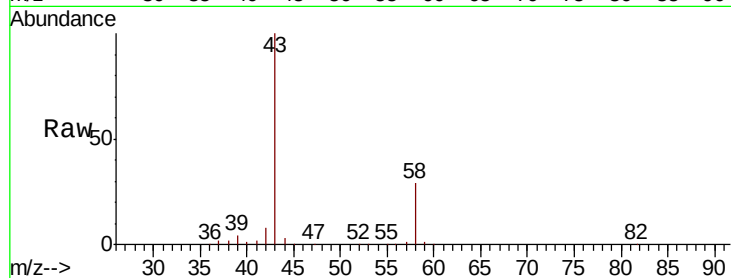
Acq: 24 Mar 2022 3:09

Tot Ion: 43 Resp: 1233378

Ion Ratio Lower Upper

43 100

58 35.6 23.3 34.9#



#16

1,3-Butadiene

Concen: 3.407 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL038734.D

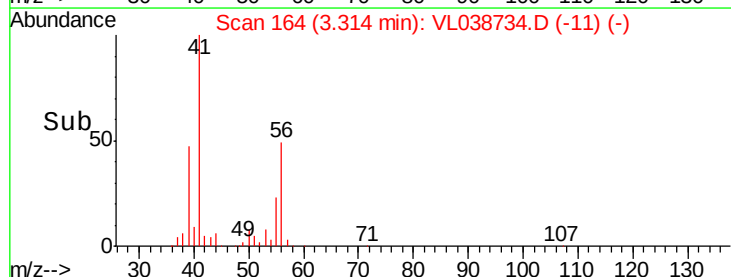
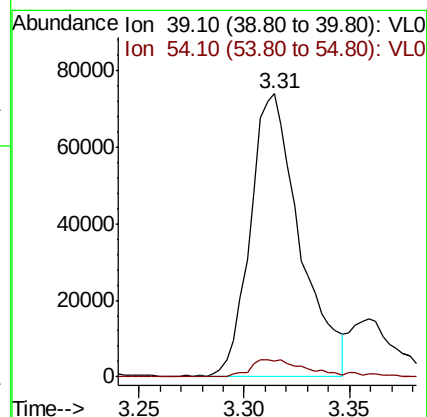
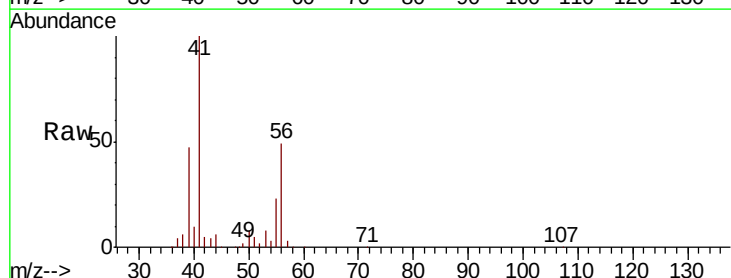
Acq: 24 Mar 2022 3:09

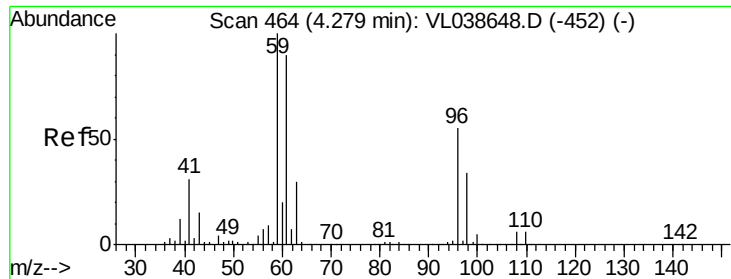
Tgt Ion: 39 Resp: 120399

Ion Ratio Lower Upper

39 100

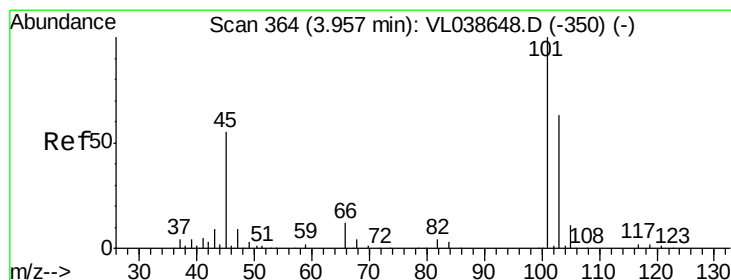
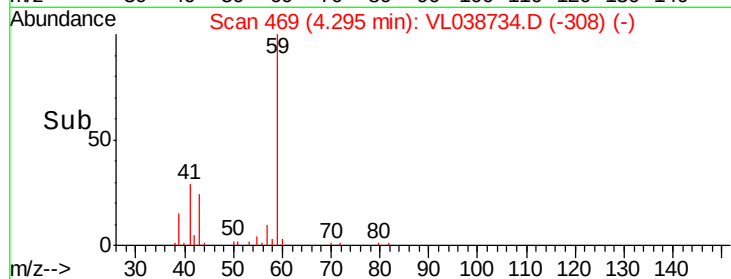
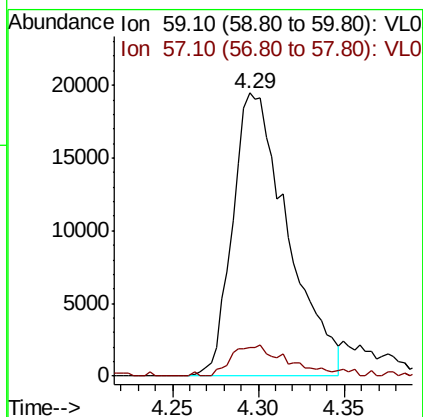
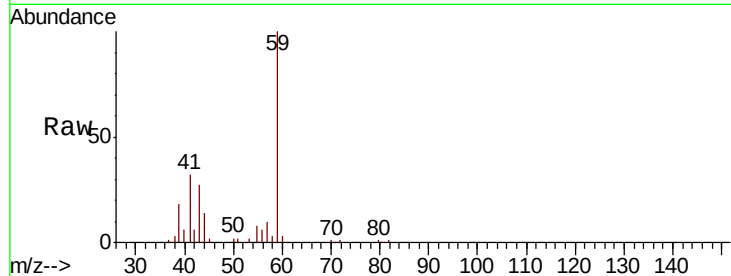
54 7.8 69.1 103.7#





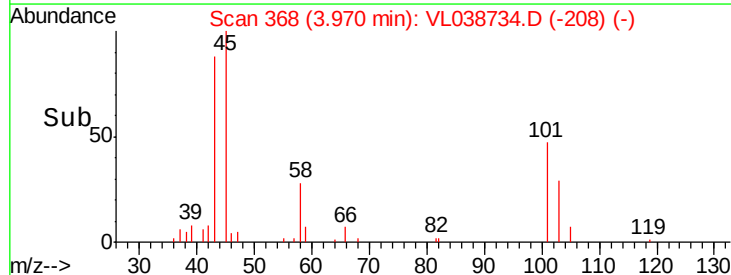
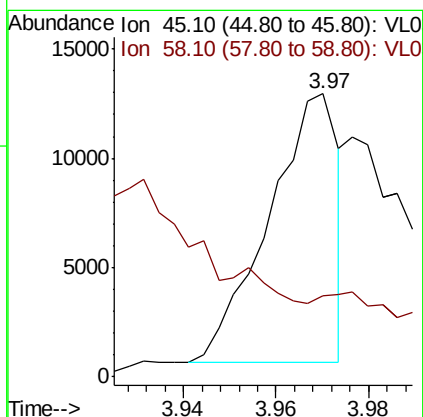
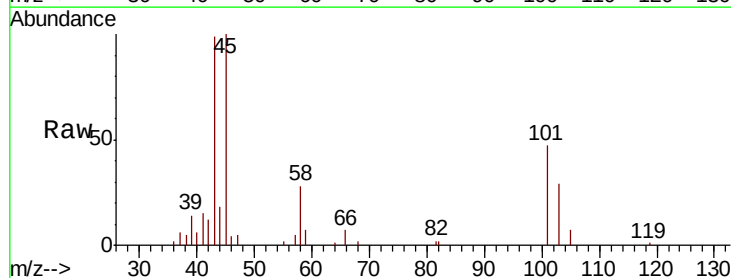
#17
 tert-Butyl alcohol
 Concen: 0.796 ppbv
 RT: 4.29
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 3:09

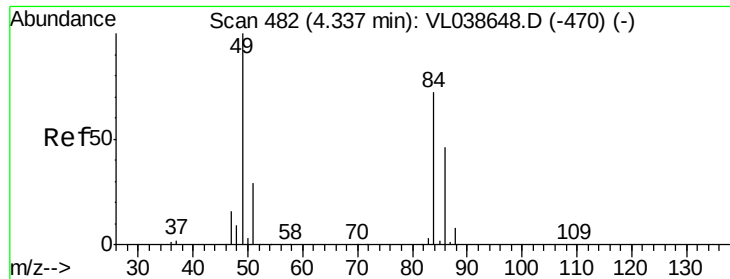
Tot Ion: 59 Resp: 43287
 Ion Ratio Lower Upper
 59 100
 57 11.8 8.2 12.2



#19
 Isopropyl Alcohol
 Concen: 0.371 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL038734.D
 Acq: 24 Mar 2022 3:09

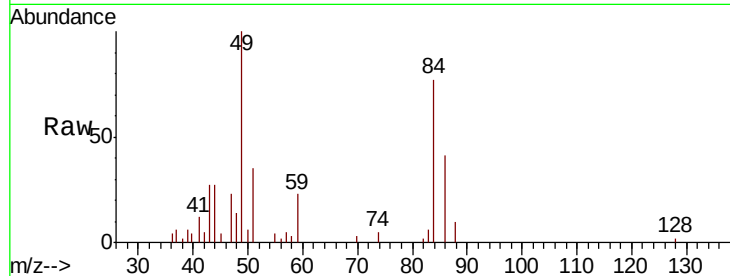
Tgt Ion: 45 Resp: 12799
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.3 3.5#



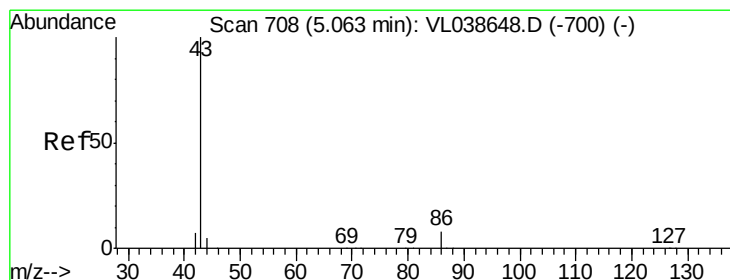
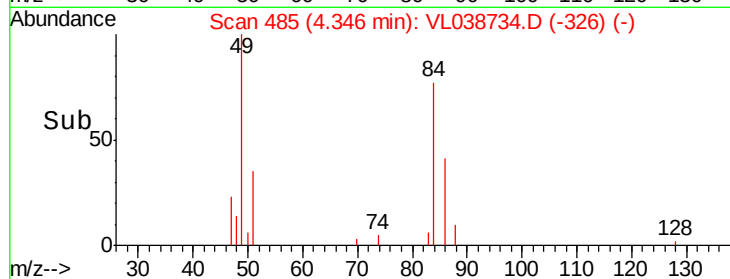
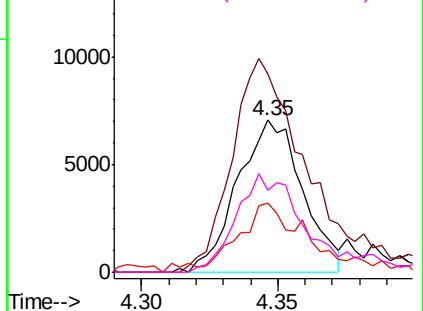


#20
Methvlene Chloride
Concen: 0.446 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 3:09

Tot Ion: 84 Resp: 11705
Ion Ratio Lower Upper
84 100
49 126.4 111.2 166.8
51 39.4 32.8 49.2
86 53.8 51.4 77.0

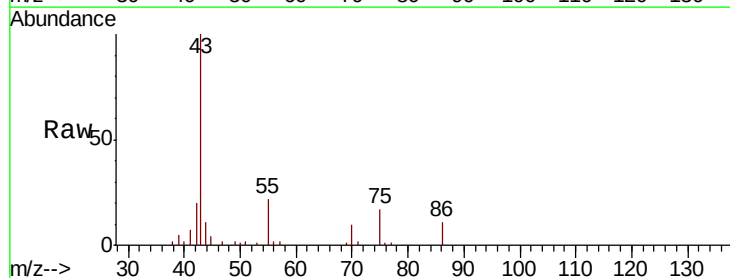


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

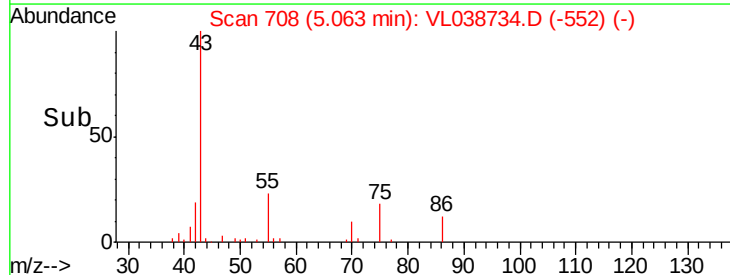
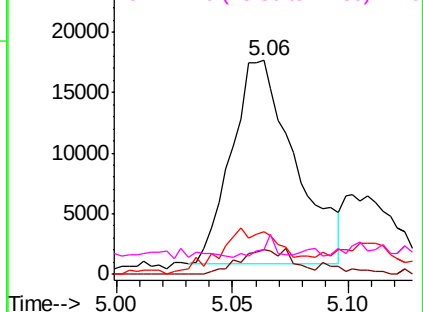


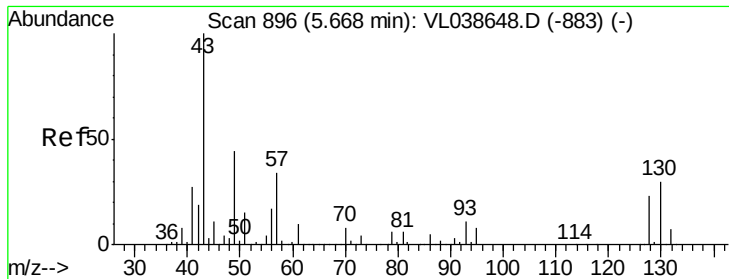
#23
Vinyl Acetate
Concen: 0.529 ppbv
RT: 5.06 min Scan# 708
Delta R.T. 0.00 min
Lab File: VL038734.D
Acq: 24 Mar 2022 3:09

Tgt Ion: 43 Resp: 31918
Ion Ratio Lower Upper
43 100
86 11.8 5.6 8.4#
42 18.4 6.8 10.2#
44 7.9 4.2 6.2#



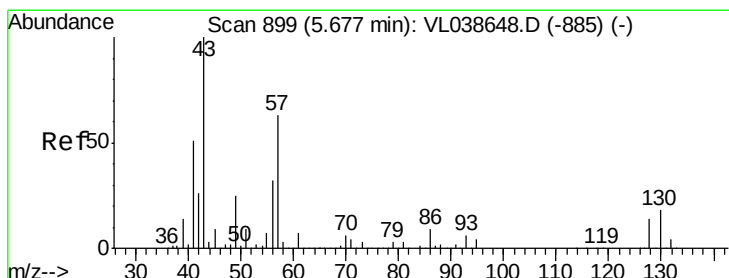
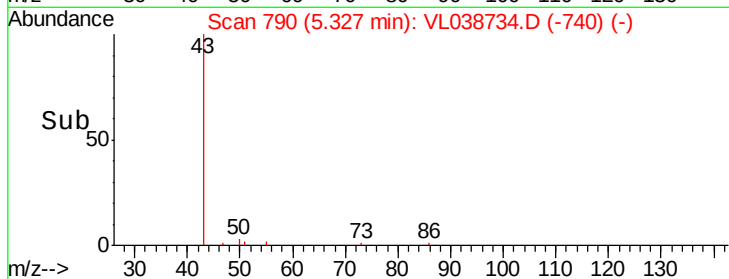
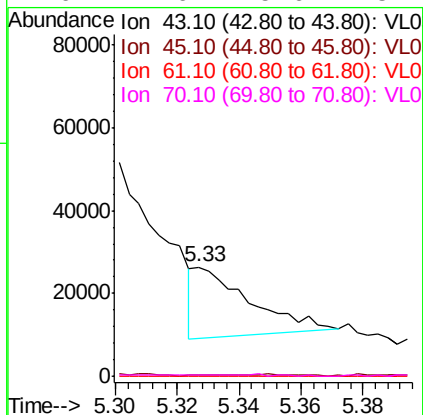
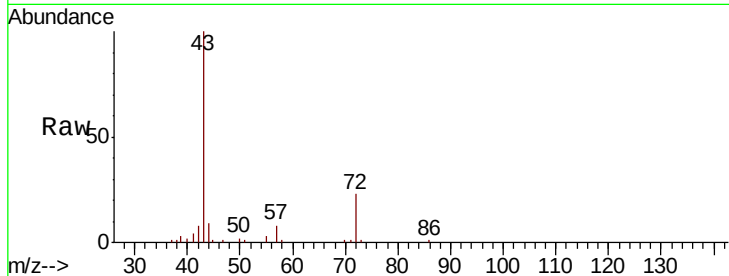
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





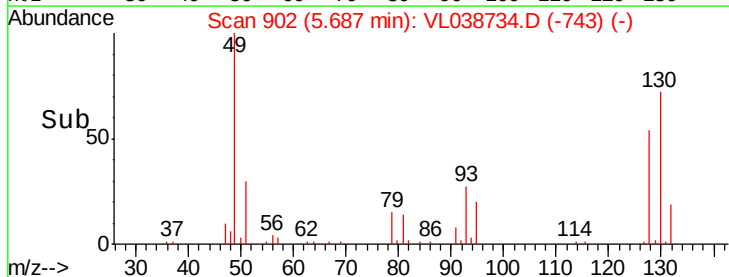
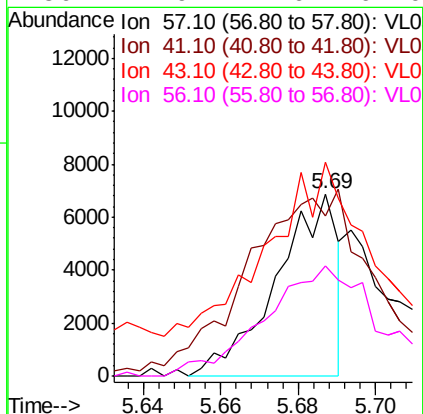
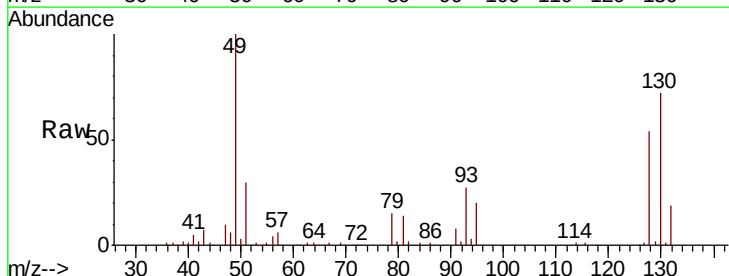
#25
Ethyl Acetate
Concen: 0.135 ppbv
RT: 5.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP87
Acq: 24 Mar 2022 3:09

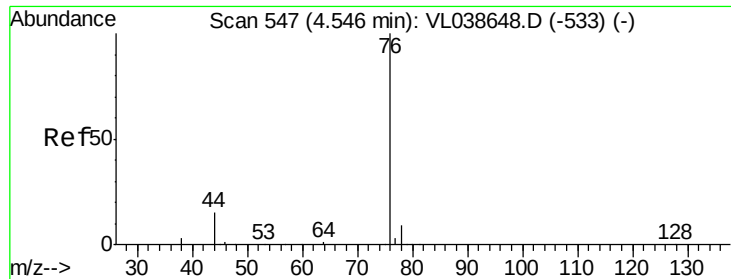
Tot Ion:	43	Resp:	21165
Ion	Ratio	Lower	Upper
43	100		
45	3.8	8.2	12.4#
61	0.0	8.3	12.5#
70	2.6	5.6	8.4#



#26
Hexane
Concen: 0.107 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL038734.D
Acq: 24 Mar 2022 3:09

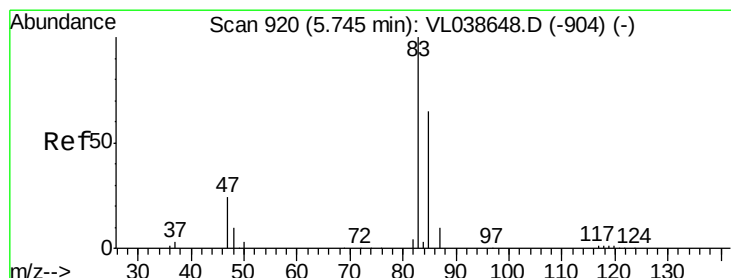
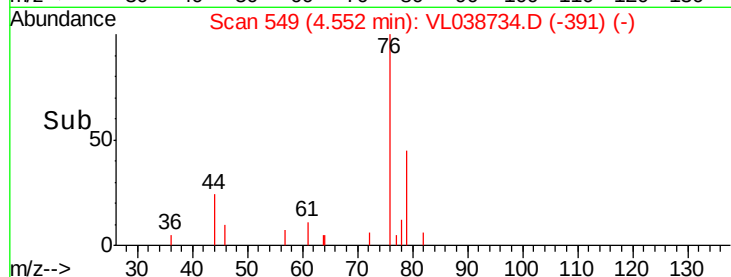
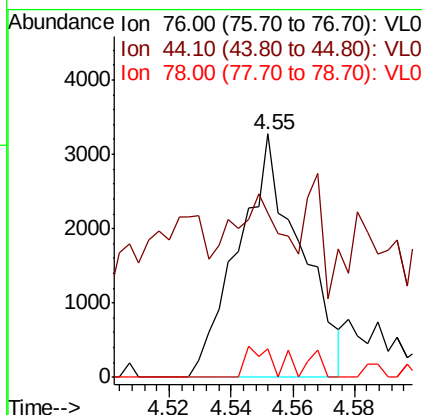
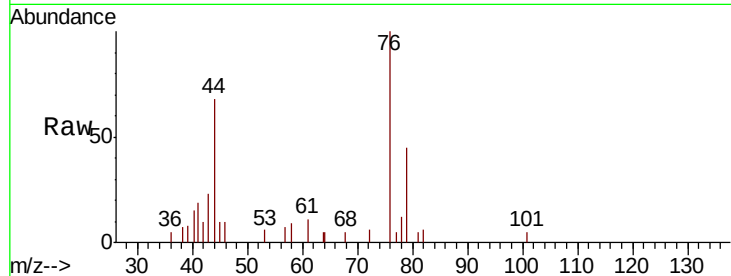
Tgt Ion:	57	Resp:	7539
Ion	Ratio	Lower	Upper
57	100		
41	0.0	67.0	100.4#
43	0.0	184.2	276.2#
56	122.9	42.6	64.0#





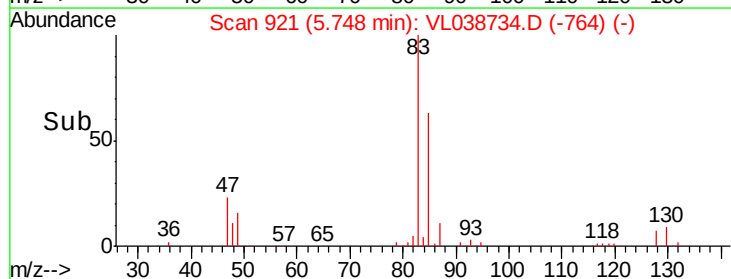
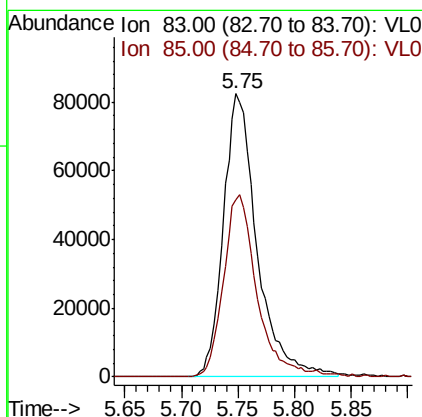
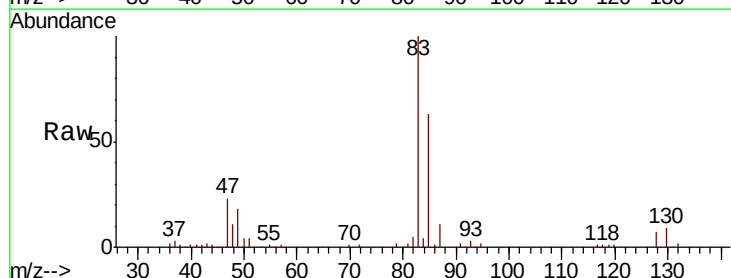
#27
Carbon Disulfide
Concen: 0.066 ppbv
RT: 4.55
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP87
Acq: 24 Mar 2022 3:09

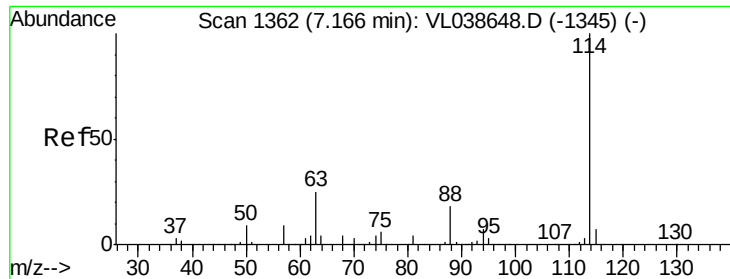
Tot Ion: 76 Resp: 4513
Ion Ratio Lower Upper
76 100
44 24.0 12.4 18.6#
78 8.7 7.8 11.8



#29
Chloroform
Concen: 1.515 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL038734.D
Acq: 24 Mar 2022 3:09

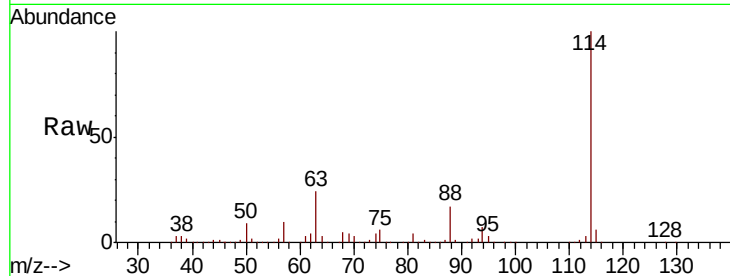
Tgt Ion: 83 Resp: 170277
Ion Ratio Lower Upper
83 100
85 62.6 51.7 77.5



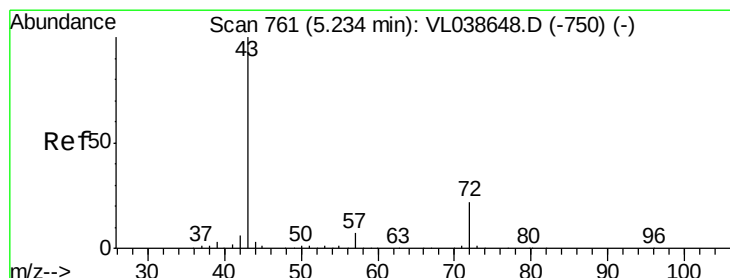
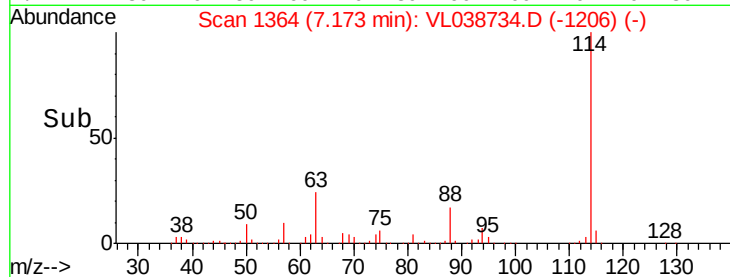
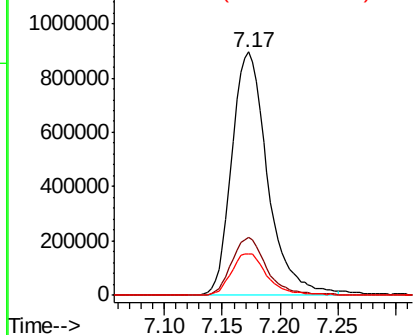


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 3:09

Tot Ion:114 Resp: 1917582
 Ion Ratio Lower Upper
 114 100
 63 23.6 19.4 29.0
 88 17.3 13.9 20.9

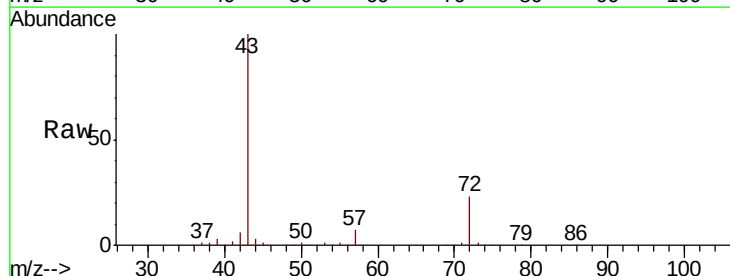


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

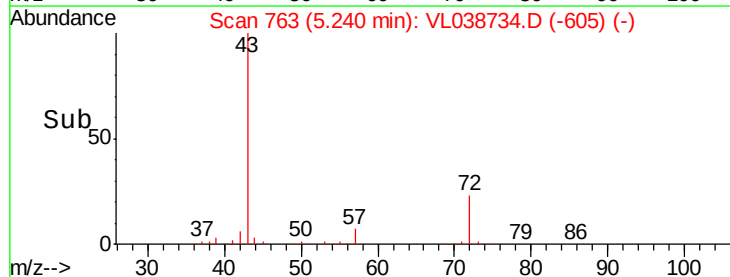
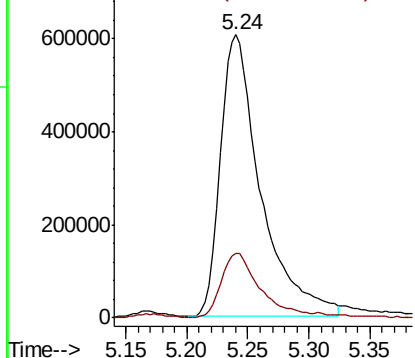


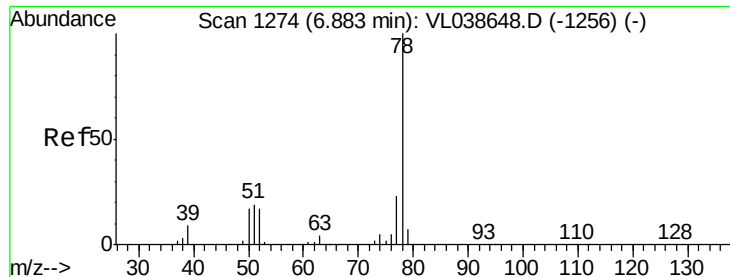
#34
 2-Butanone
 Concen: 18.506 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL038734.D
 Acq: 24 Mar 2022 3:09

Tgt Ion: 43 Resp: 1404533
 Ion Ratio Lower Upper
 43 100
 72 23.6 17.8 26.8



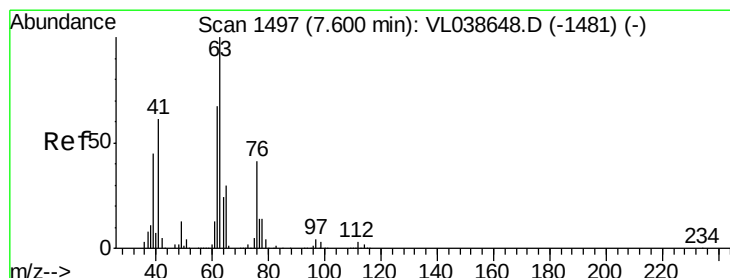
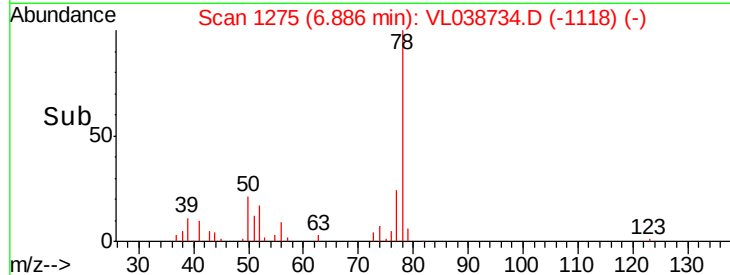
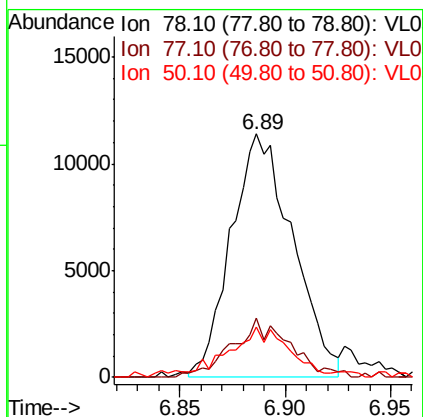
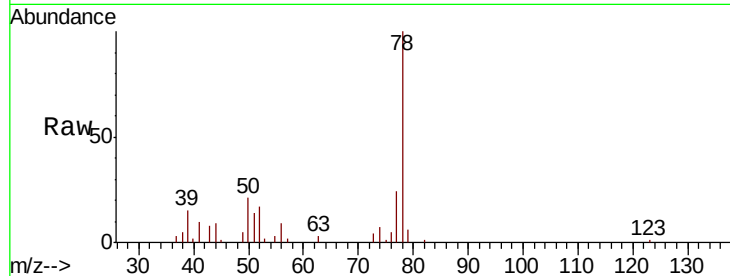
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





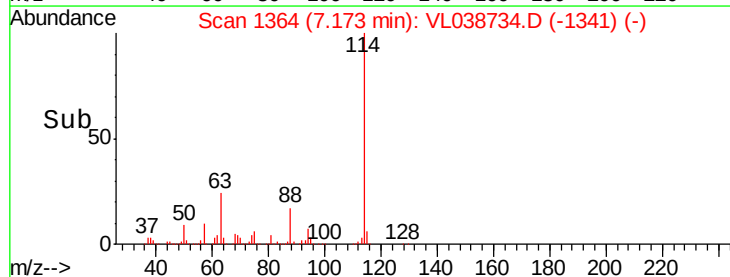
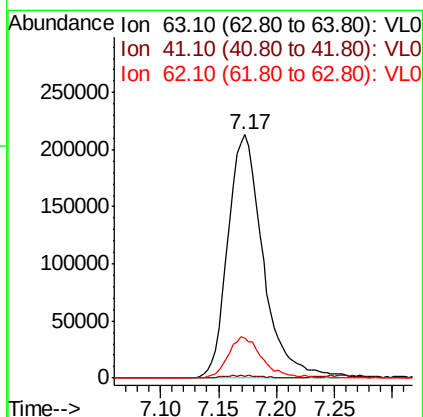
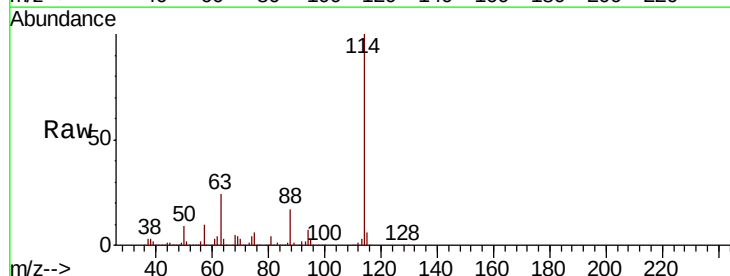
#36
Benzene
Concen: 0.156 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 3:09

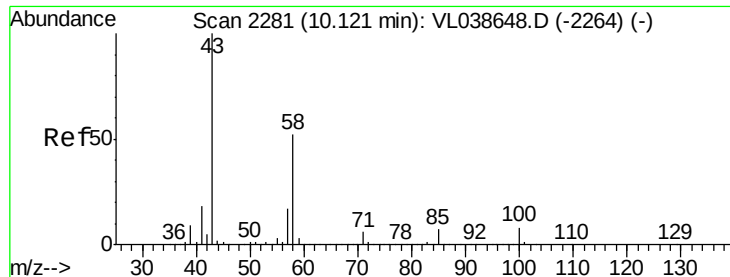
Tot Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.1	27.1
50	19.0	13.6	20.4



#39
1,2-Dichloropropane
Concen: 7.745 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.43 min
Lab File: VL038734.D
Acq: 24 Mar 2022 3:09

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.5	49.0	73.6#
62	16.3	53.9	80.9#





#51

2-Hexanone

Concen: 1.163 ppbv

RT: 10.14 Instrument:

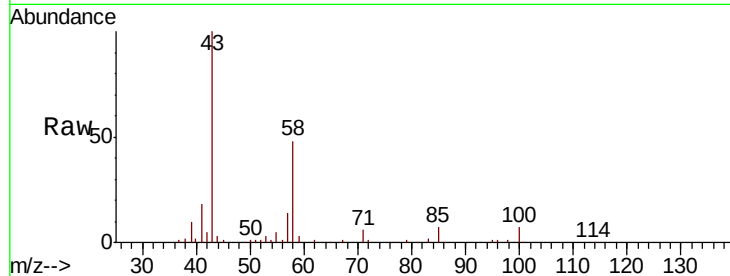
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

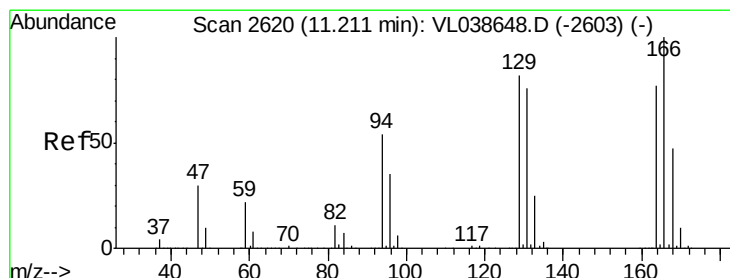
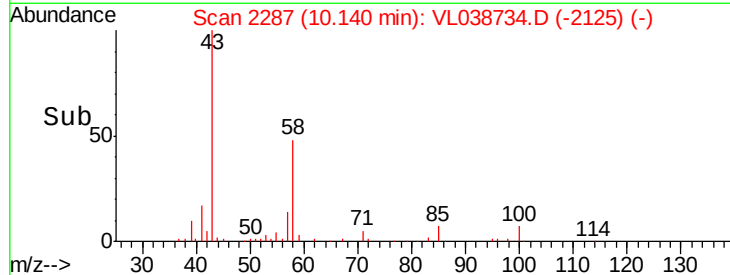
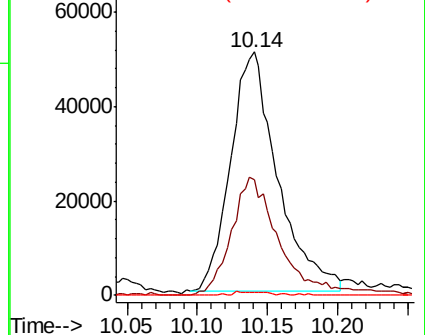
Acq: 24 Mar 2022 3:09

Tot Ion: 43 Resp: 117873

Ion	Ratio	Lower	Upper
43	100		
58	51.3	41.2	61.8
98	1.3	0.2	0.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 17.211 ppbv

RT: 11.22 min Scan# 2623

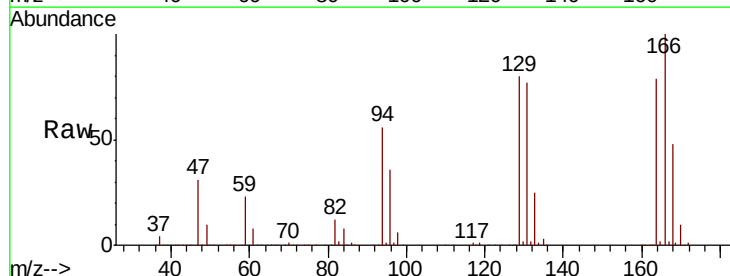
Delta R.T. 0.01 min

Lab File: VL038734.D

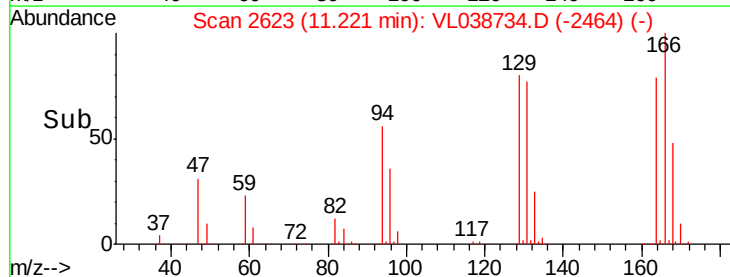
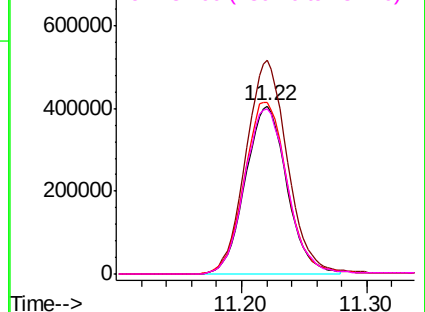
Acq: 24 Mar 2022 3:09

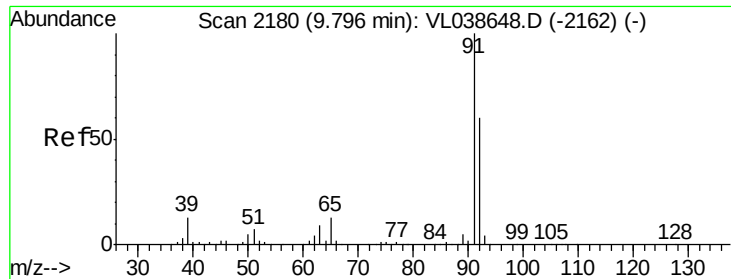
Tgt Ion: 164 Resp: 932147

Ion	Ratio	Lower	Upper
164	100		
166	127.0	103.3	154.9
129	101.9	85.2	127.8
131	98.4	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: 0.326 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

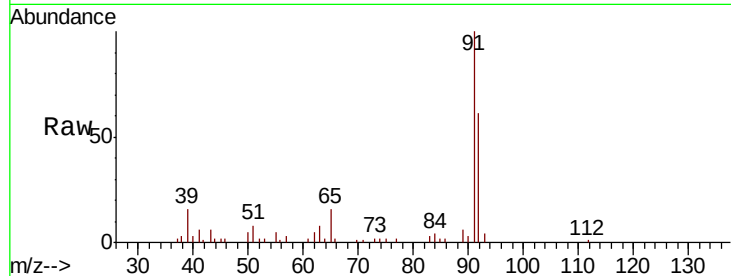
Acq: 24 Mar 2022 3:09 COP87

Tot Ion: 91 Resp: 51897

Ion Ratio Lower Upper

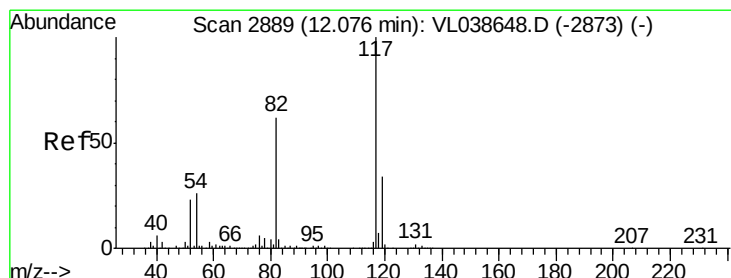
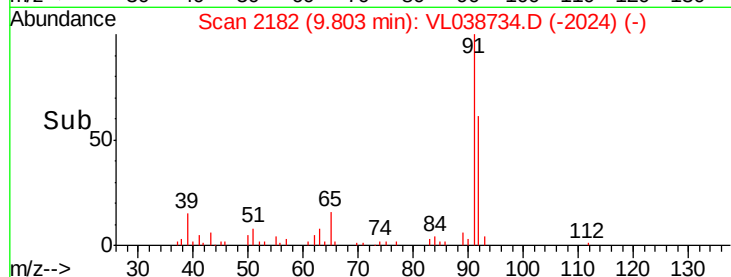
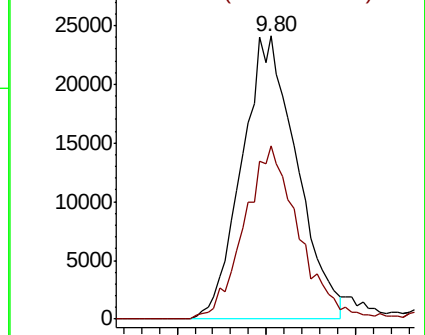
91 100

92 61.7 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. 0.00 min

Lab File: VL038734.D

Acq: 24 Mar 2022 3:09

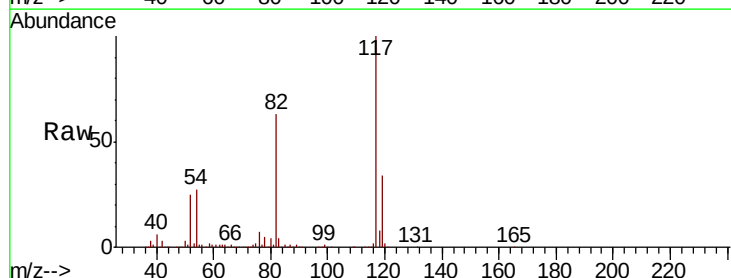
Tgt Ion: 117 Resp: 1764528

Ion Ratio Lower Upper

117 100

82 63.9 51.6 77.4

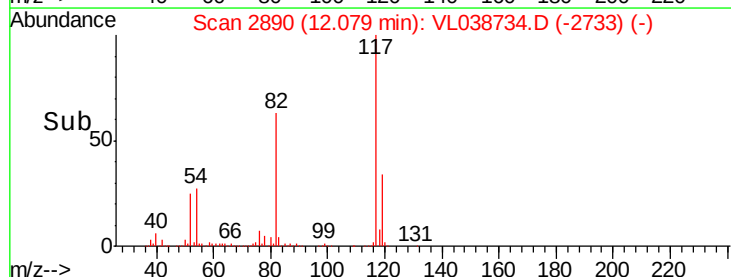
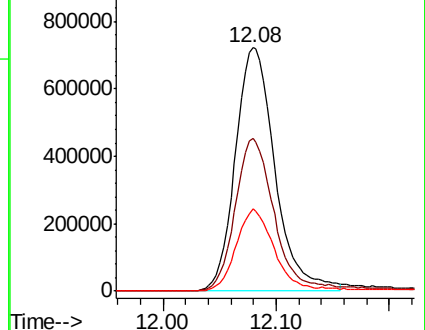
119 34.2 26.9 40.3

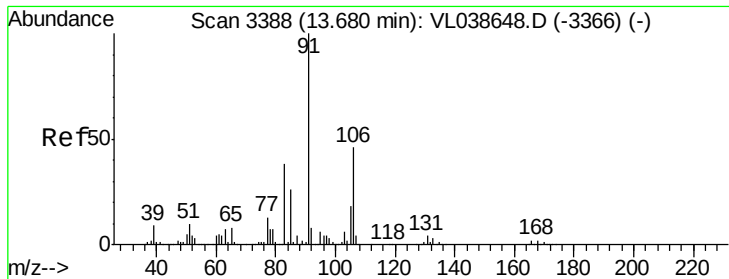


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

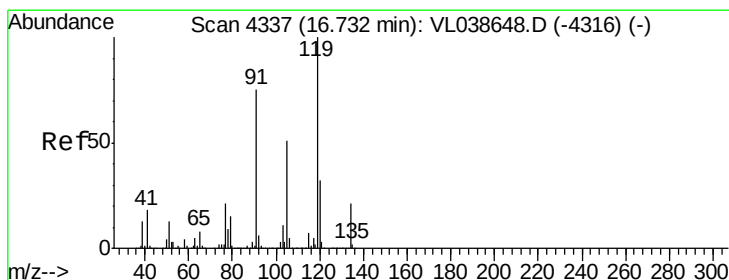
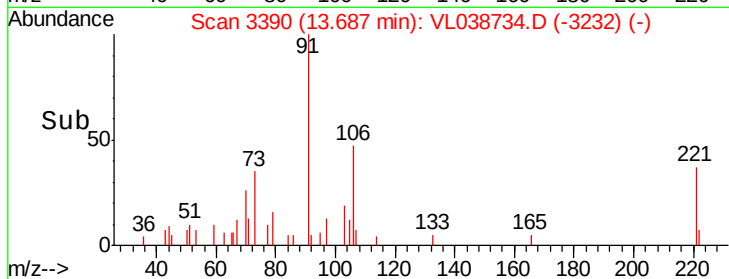
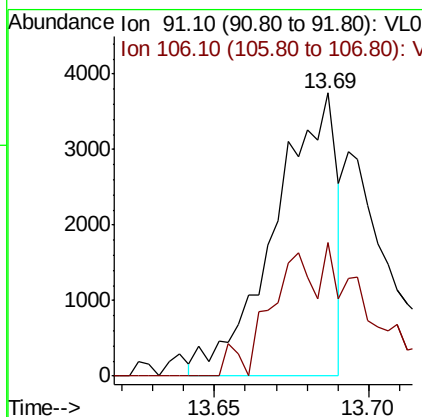
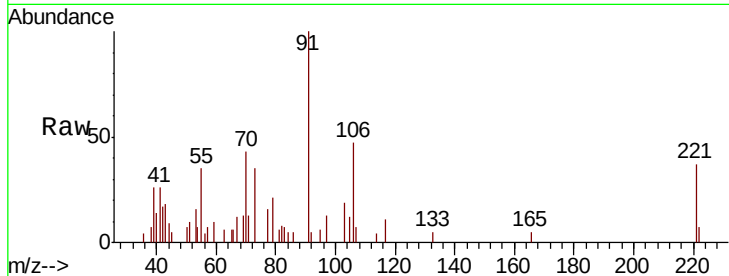
Ion 119.10 (118.80 to 119.80): V





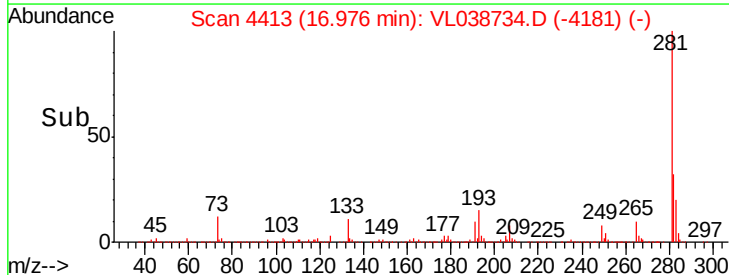
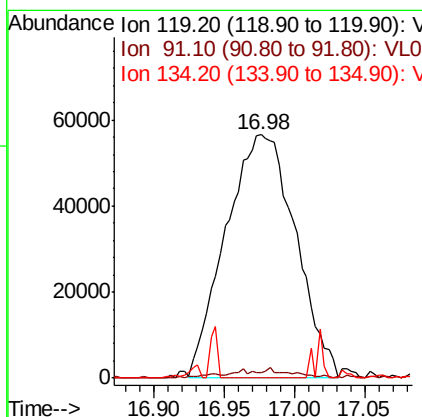
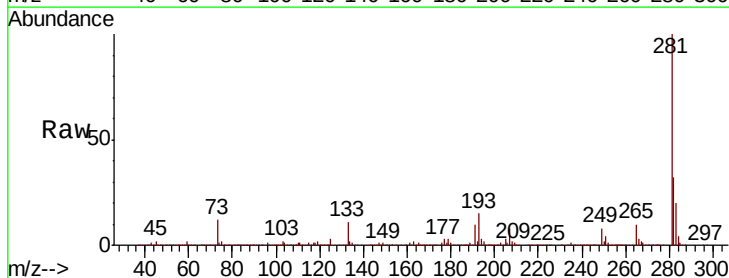
#60
o-Xylene
Concen: 0.030 ppbv
RT: 13.69 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
COP87
Acq: 24 Mar 2022 3:09

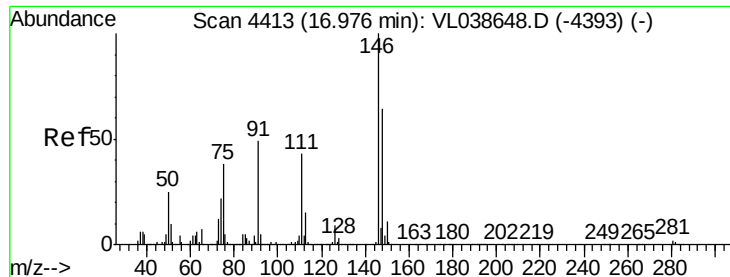
Tot Ion: 91 Resp: 5180
Ion Ratio Lower Upper
91 100
106 69.1 23.5 70.5



#65
tert-Butylbenzene
Concen: 0.842 ppbv
RT: 16.98 min Scan# 4413
Delta R.T.: 0.24 min
Lab File: VL038734.D
Acq: 24 Mar 2022 3:09

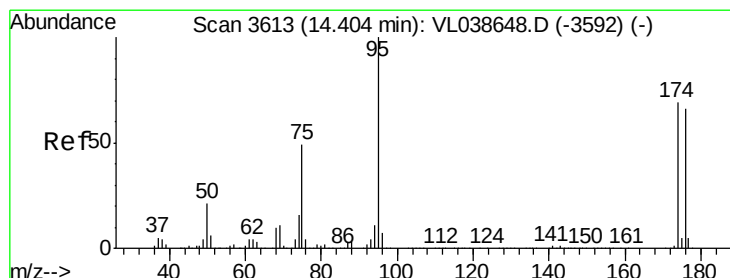
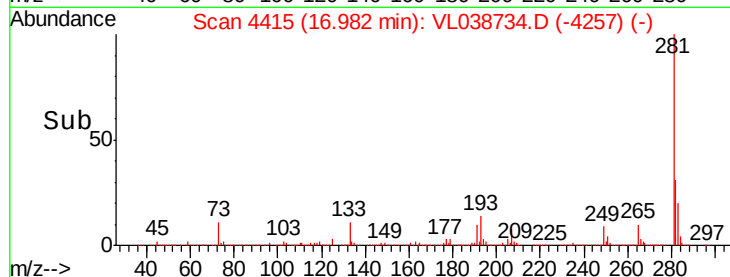
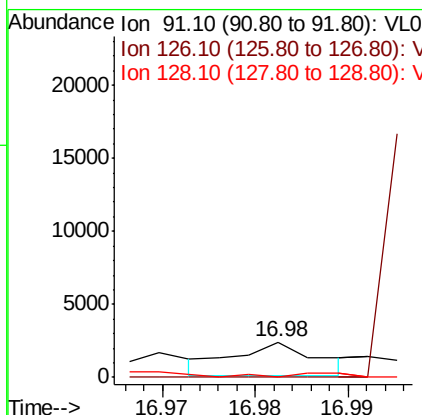
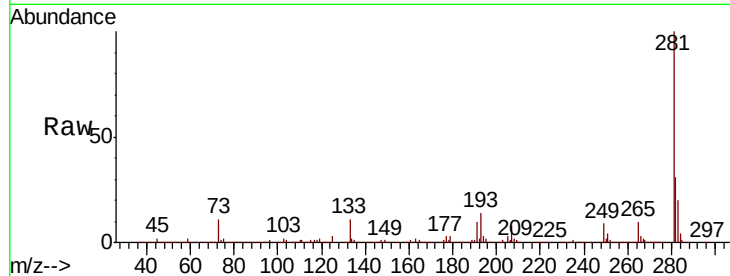
Tgt Ion: 119 Resp: 194987
Ion Ratio Lower Upper
119 100
91 3.3 61.2 91.8#
134 3.1 16.3 24.5#





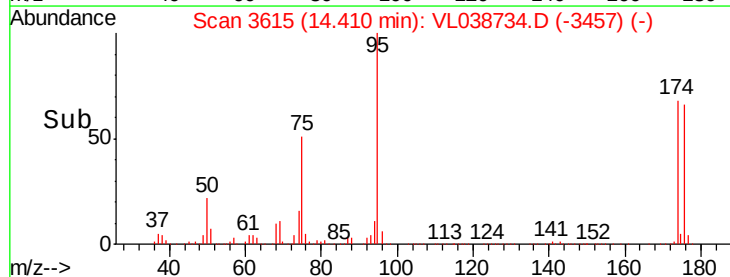
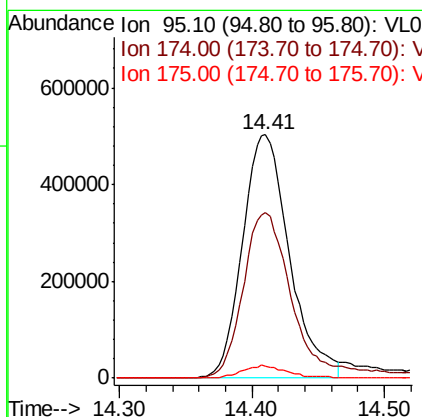
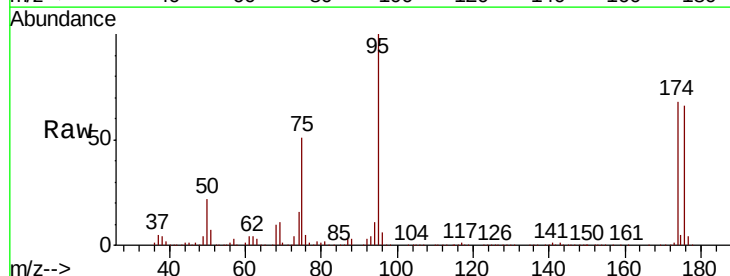
#66
Benzvl Chloride
Concen: 0.033 ppbv
RT: 16.98
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
COP87
Acq: 24 Mar 2022 3:09

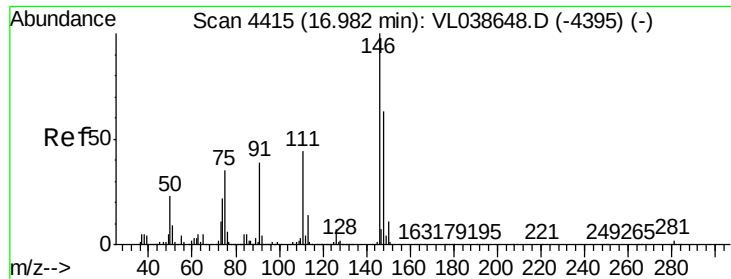
Tot Ion: 91 Resp: 1463
Ion Ratio Lower Upper
91 100
126 0.0 14.3 21.5#
128 0.0 4.6 6.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.181 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. 0.01 min
Lab File: VL038734.D
Acq: 24 Mar 2022 3:09

Tgt Ion: 95 Resp: 1242090
Ion Ratio Lower Upper
95 100
174 74.7 56.1 84.1
175 5.2 4.2 6.2





#75

1,3-Dichlorobenzene

Concen: 0.169 ppbv

RT: 16.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 3.09 COP87

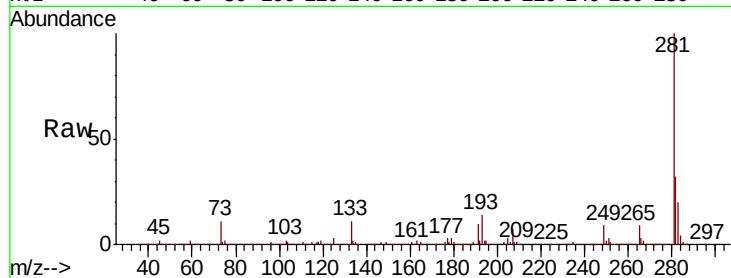
Tot Ion:146 Resp: 21655

Ion Ratio Lower Upper

146 100

111 338.1 22.2 66.6#

148 226.7 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

