

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032822\
 Data File : VL038784.D
 Acq On : 28 Mar 2022 23:39
 Operator : SY/AP
 Sample : N2121-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PA3

Quant Time: Mar 29 06:12:56 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	696262	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1896487	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1665088	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1183741	9.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.70%

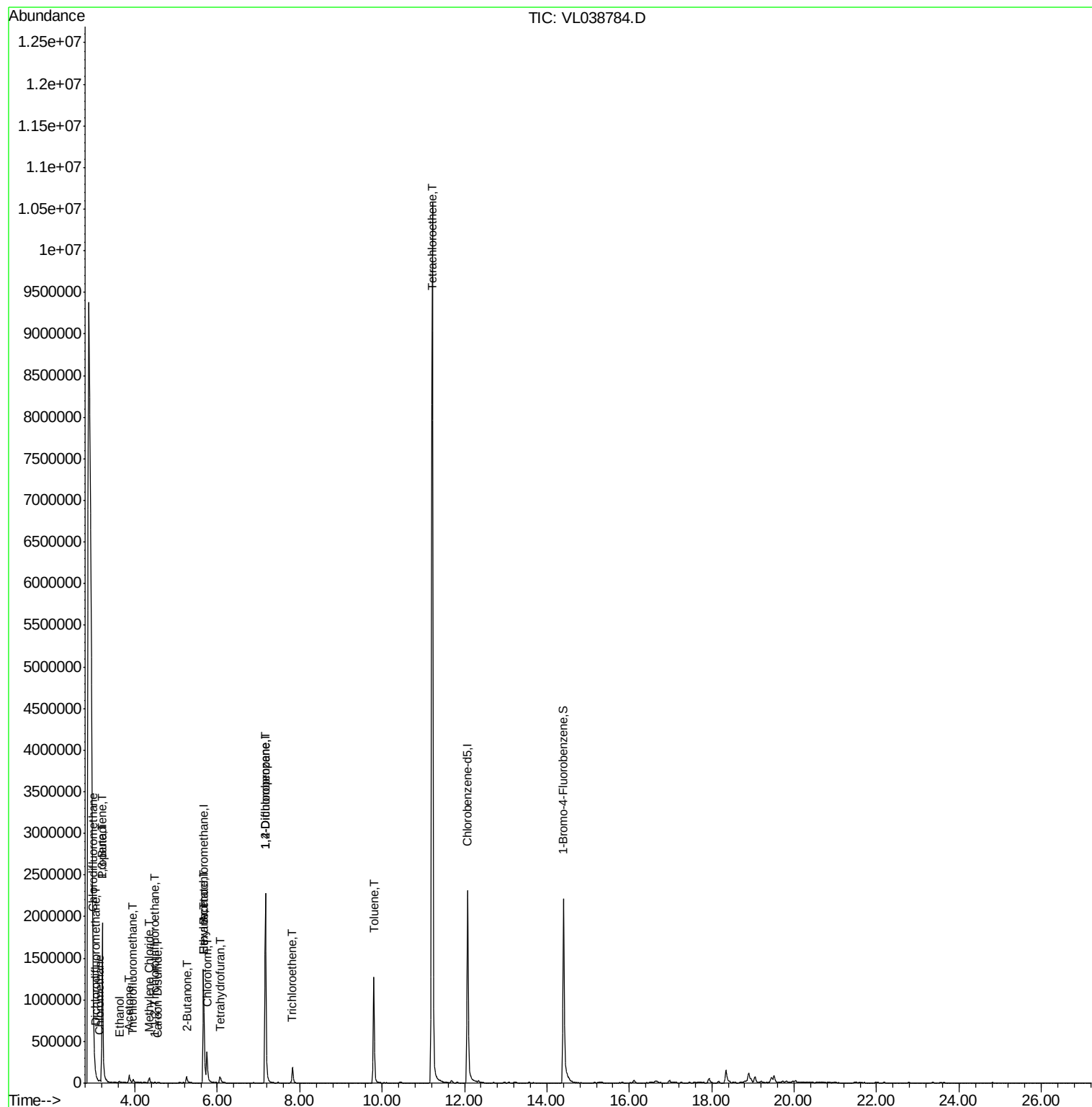
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	17875	0.191	ppbv	98
3) Chlorodifluoromethane	2.99	51	13172	0.179	ppbv #	87
4) Chloromethane	3.14	50	10367	0.257	ppbv	93
9) Propene	3.21	41	733326	20.656	ppbv	93
11) Trichlorofluoromethane	3.95	101	27821	0.337	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4422	0.070	ppbv	92
13) Ethanol	3.61	45	8214	2.097	ppbv #	37
15) Acetone	3.86	43	100515	1.673	ppbv #	78
16) 1,3-Butadiene	3.21	39	330304	9.688	ppbv #	7
20) Methylene Chloride	4.35	84	28533	1.128	ppbv	93
25) Ethyl Acetate	5.68	43	9996	0.066	ppbv #	82
26) Hexane	5.68	57	12524	0.185	ppbv #	42
27) Carbon Disulfide	4.55	76	7172	0.108	ppbv #	5
29) Chloroform	5.74	83	277646	2.561	ppbv	96
34) 2-Butanone	5.25	43	45834	0.611	ppbv #	53
38) Trichloroethene	7.83	130	66106	1.078	ppbv #	85
39) 1,2-Dichloropropane	7.17	63	444779	7.773	ppbv #	28
41) Tetrahydrofuran	6.06	42	51319	0.919	ppbv	94
52) Tetrachloroethene	11.22	164	3213797	60.001	ppbv	96
53) Toluene	9.80	91	1090377	6.933	ppbv	98

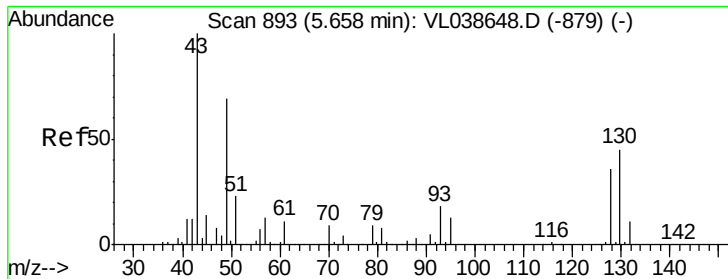
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COPA3

Acq: 28 Mar 2022 23:39

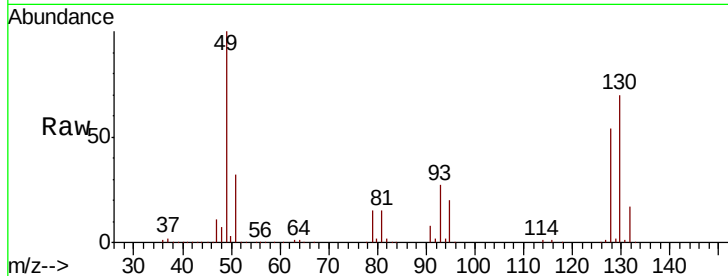
Tot Ion: 49 Resp: 696262

Ion Ratio Lower Upper

49 100

128 57.8 26.2 78.6

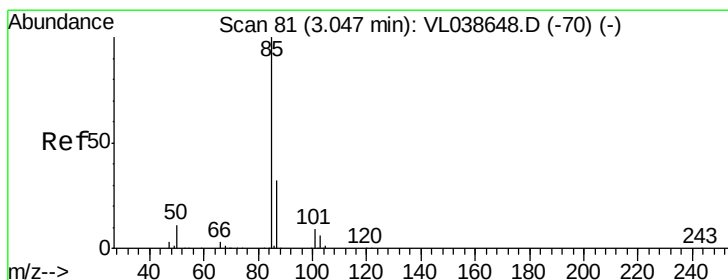
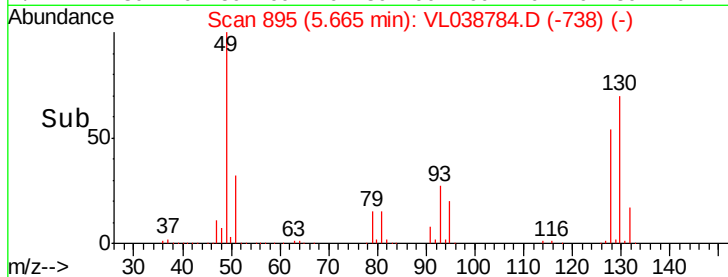
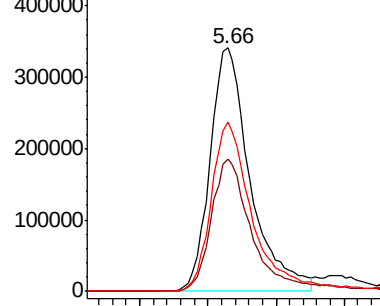
130 74.4 33.7 101.1



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: 0.191 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038784.D

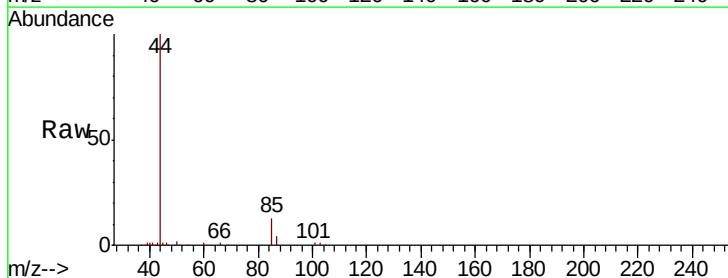
Acq: 28 Mar 2022 23:39

Tgt Ion: 85 Resp: 17875

Ion Ratio Lower Upper

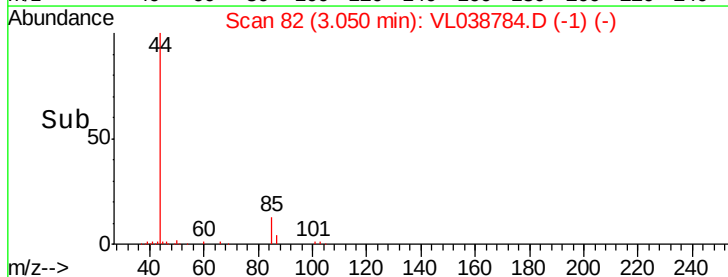
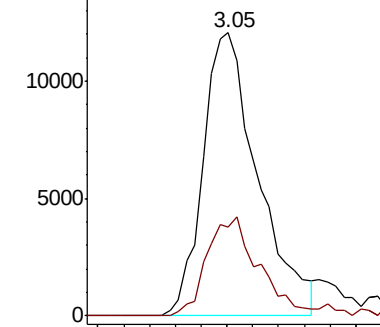
85 100

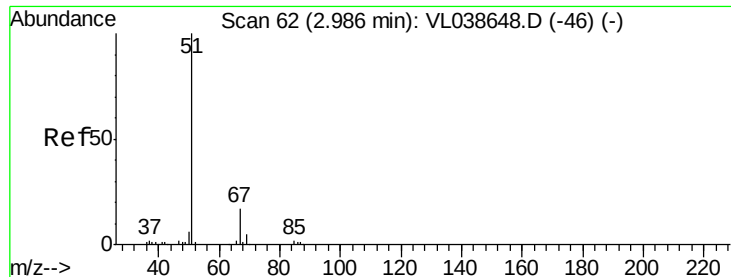
87 31.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.179 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COPA3

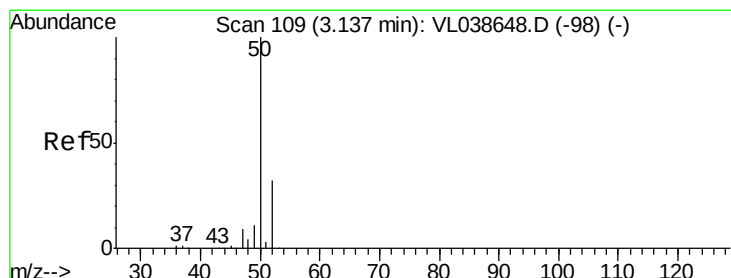
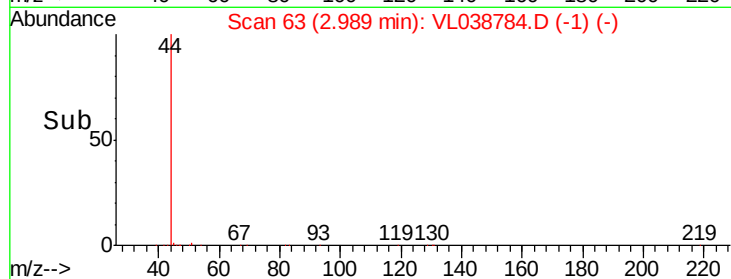
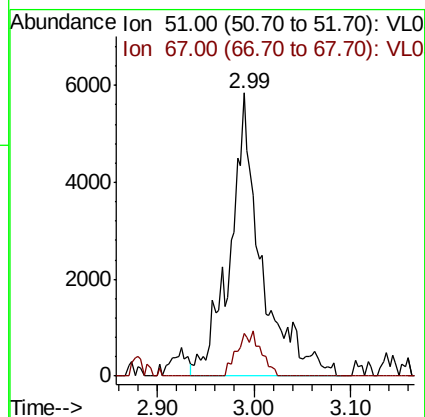
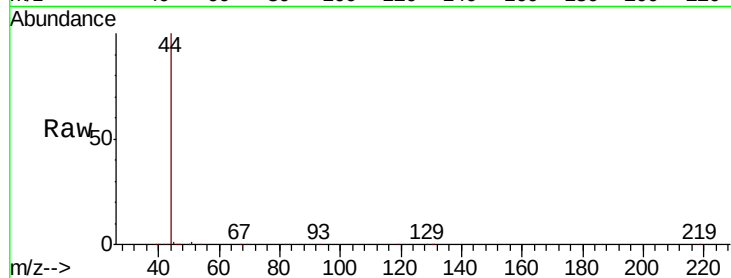
Acq: 28 Mar 2022 23:39

Tot Ion: 51 Resp: 13172

Ion Ratio Lower Upper

51 100

67 11.9 14.1 21.1#



#4

Chloromethane

Concen: 0.257 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL038784.D

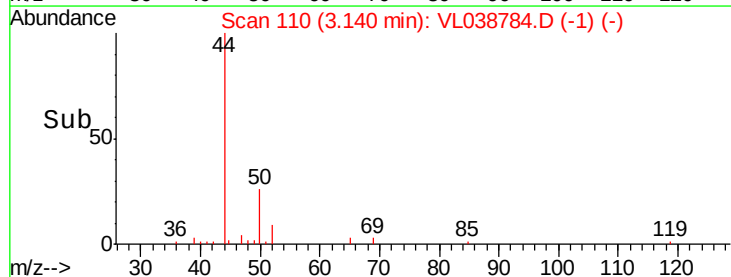
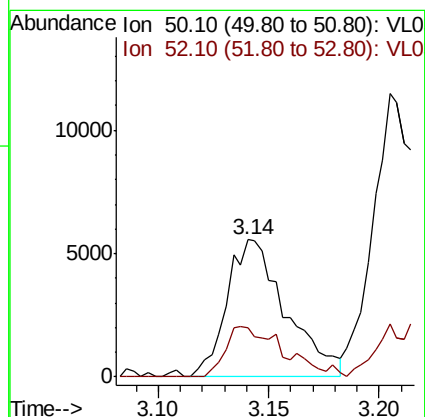
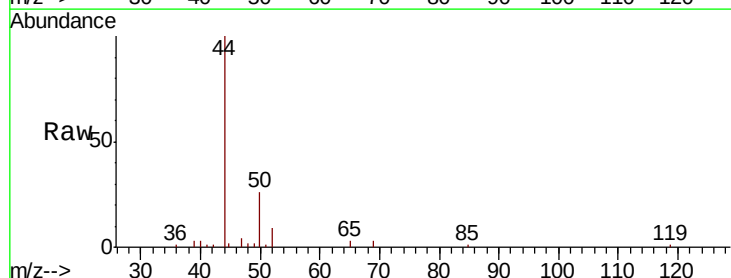
Acq: 28 Mar 2022 23:39

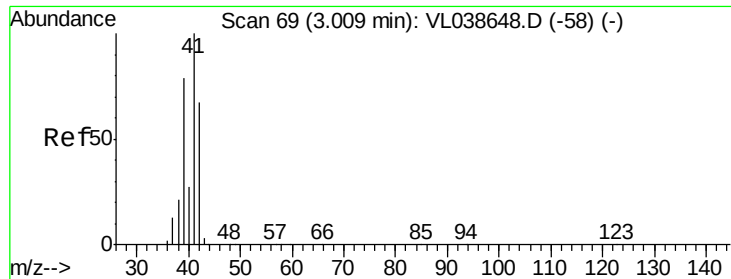
Tgt Ion: 50 Resp: 10367

Ion Ratio Lower Upper

50 100

52 35.5 25.5 38.3





#9

Propene

Concen: 20.656 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

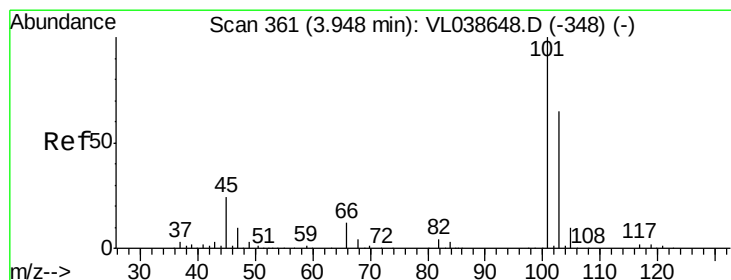
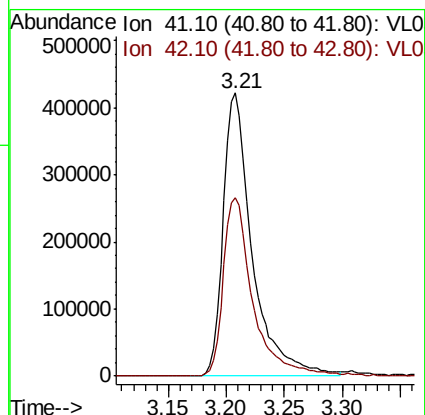
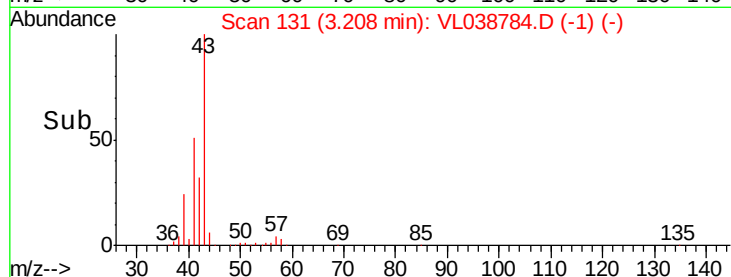
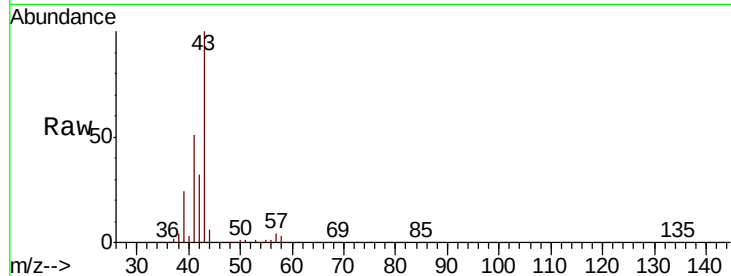
Acq: 28 Mar 2022 23:39

Tot Ion: 41 Resp: 73326

Ion Ratio Lower Upper

41 100

42 64.9 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.337 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL038784.D

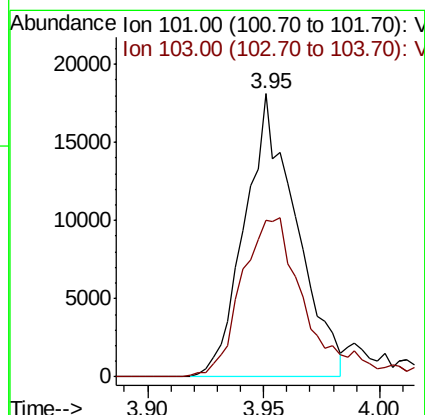
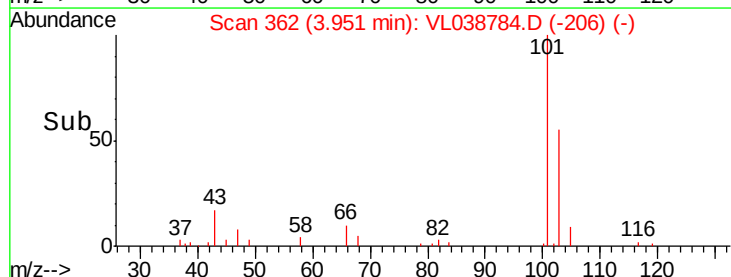
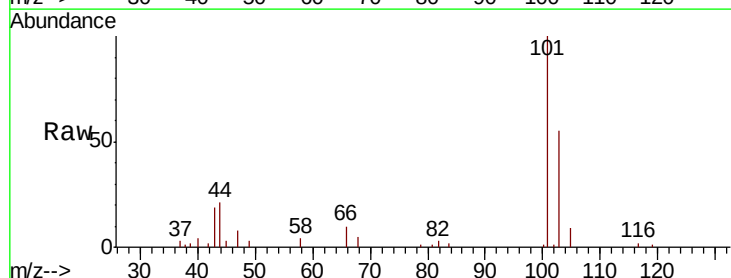
Acq: 28 Mar 2022 23:39

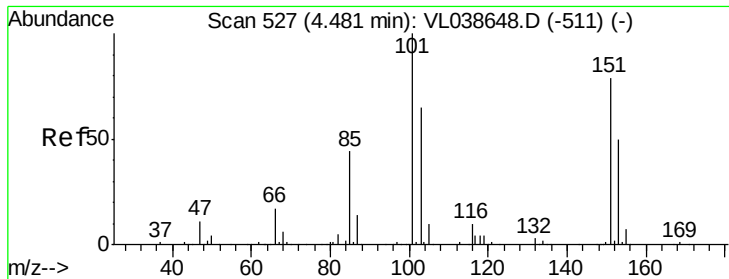
Tgt Ion: 101 Resp: 27821

Ion Ratio Lower Upper

101 100

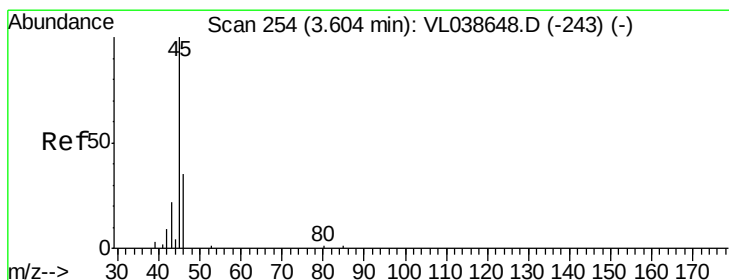
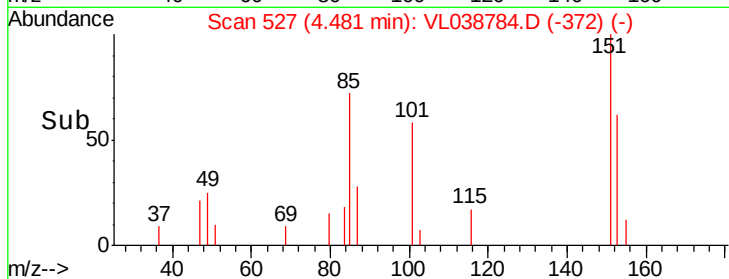
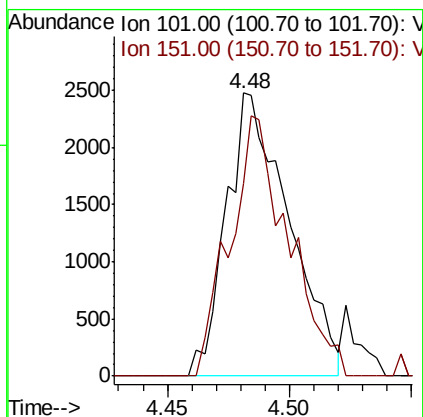
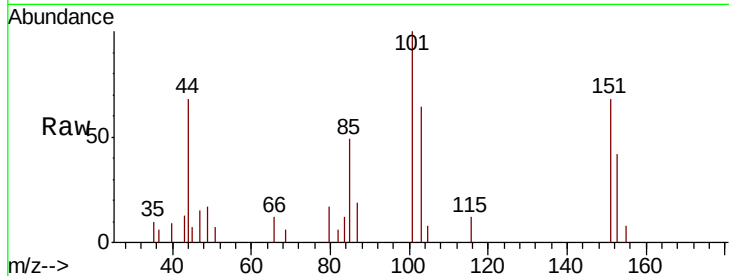
103 54.6 51.9 77.9





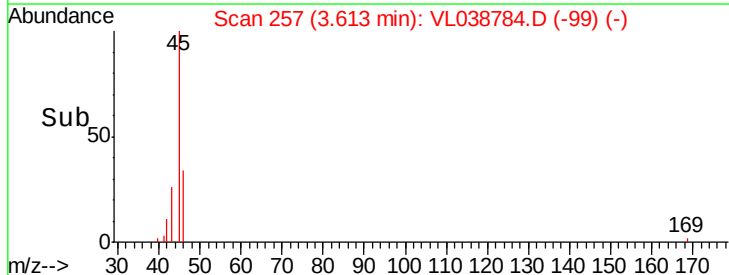
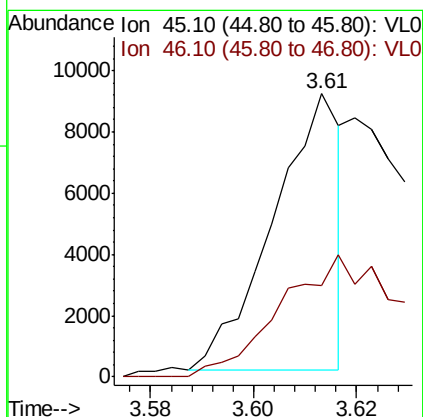
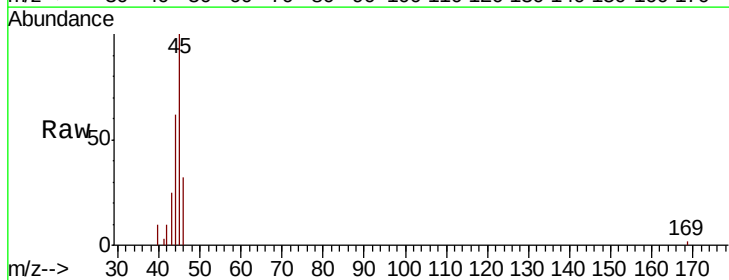
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.070 ppbv
 RT: 4.48
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Mar 2022 23:39

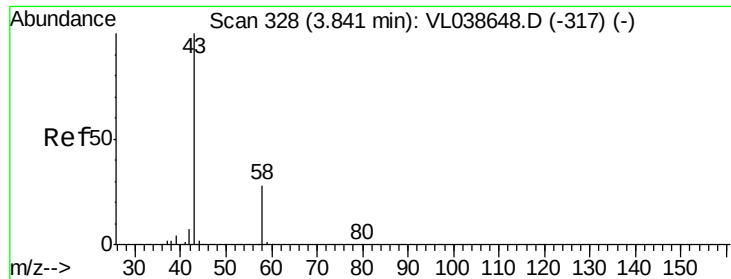
Tot Ion:101 Resp: 4422
 Ion Ratio Lower Upper
 101 100
 151 85.5 62.9 94.3



#13
 Ethanol
 Concen: 2.097 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.01 min
 Lab File: VL038784.D
 Acq: 28 Mar 2022 23:39

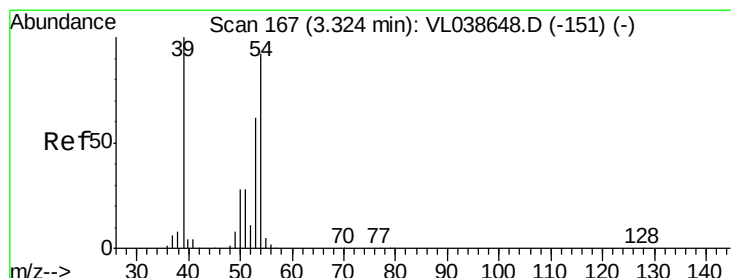
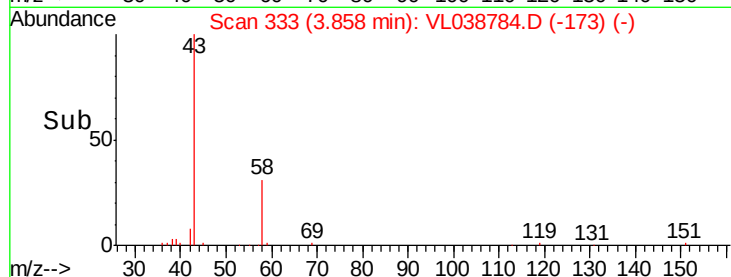
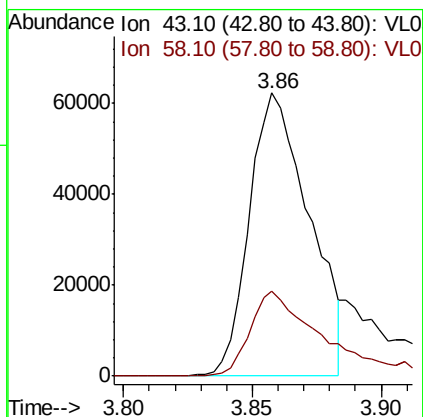
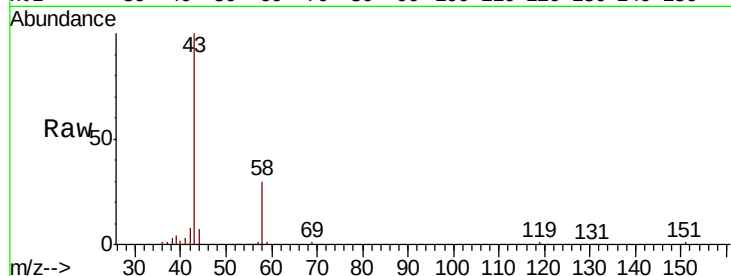
Tgt Ion: 45 Resp: 8214
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.1 60.5#





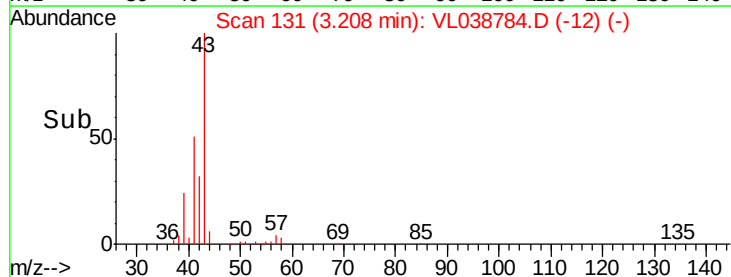
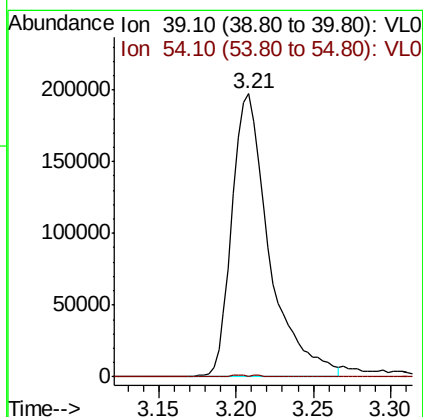
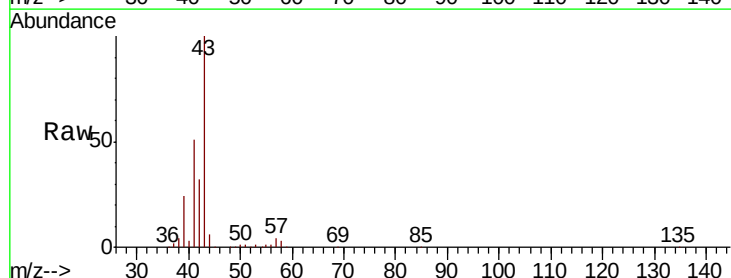
#15
Acetone
Concen: 1.673 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COPA3
Acq: 28 Mar 2022 23:39

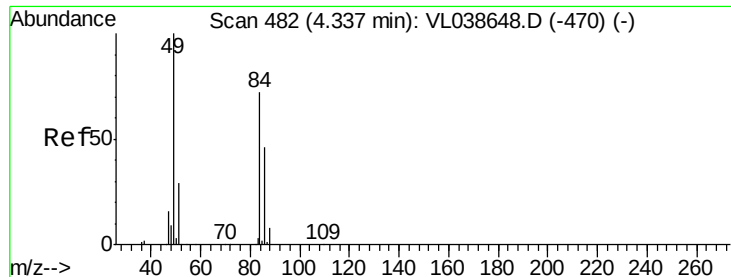
Tot Ion: 43 Resp: 100515
Ion Ratio Lower Upper
43 100
58 40.6 23.3 34.9#



#16
1,3-Butadiene
Concen: 9.688 ppbv
RT: 3.21 min Scan# 131
Delta R.T. -0.12 min
Lab File: VL038784.D
Acq: 28 Mar 2022 23:39

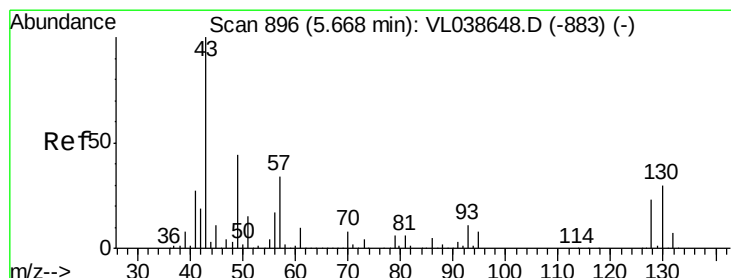
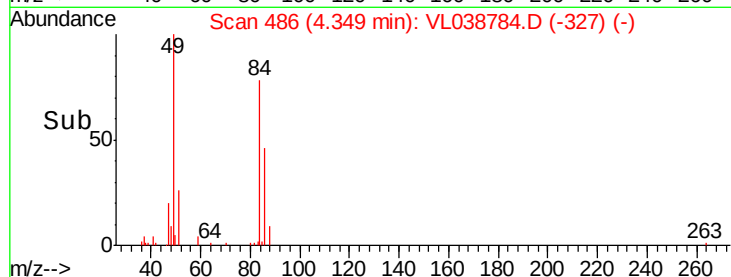
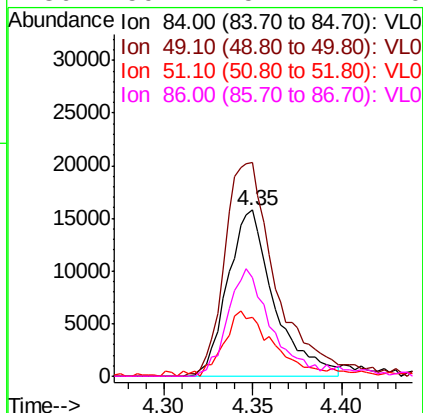
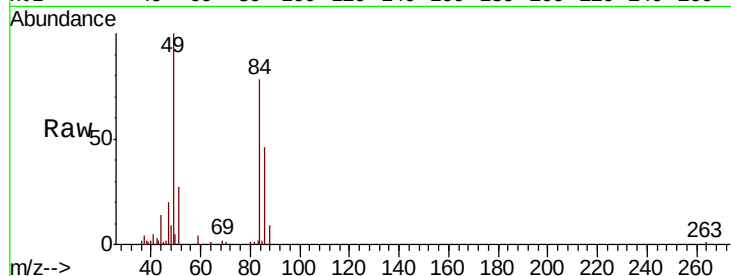
Tgt Ion: 39 Resp: 330304
Ion Ratio Lower Upper
39 100
54 0.7 69.1 103.7#





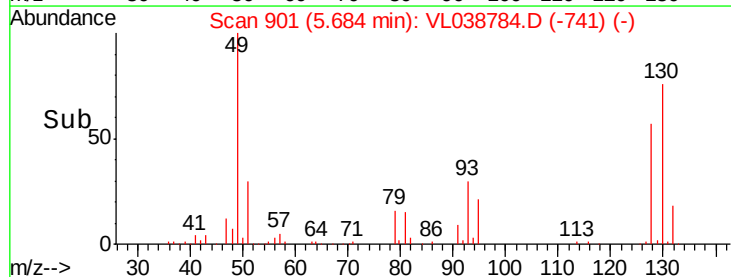
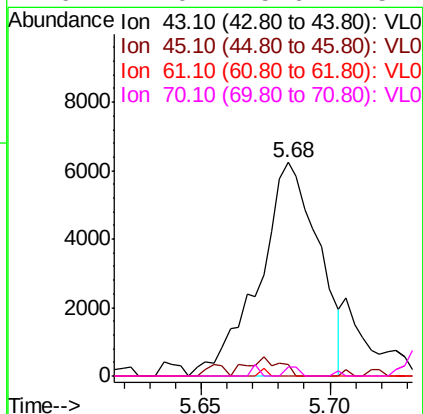
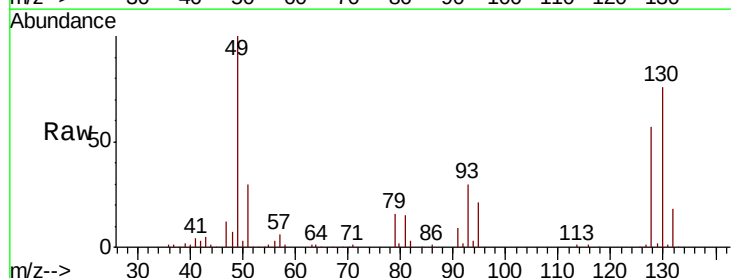
#20
Methvlene Chloride
Concen: 1.128 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COPA3
Acq: 28 Mar 2022 23:39

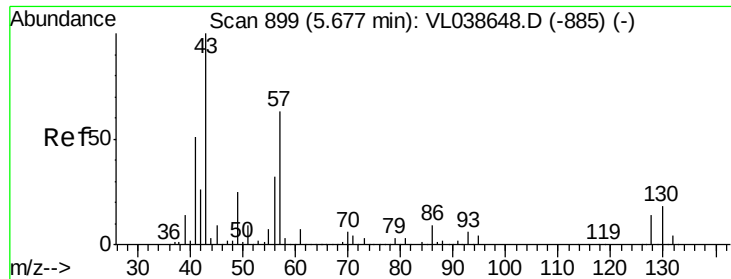
Tot Ion:	84	Resp:	28533
Ion	Ratio	Lower	Upper
84	100		
49	133.1	111.2	166.8
51	33.4	32.8	49.2
86	59.1	51.4	77.0



#25
Ethyl Acetate
Concen: 0.066 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.02 min
Lab File: VL038784.D
Acq: 28 Mar 2022 23:39

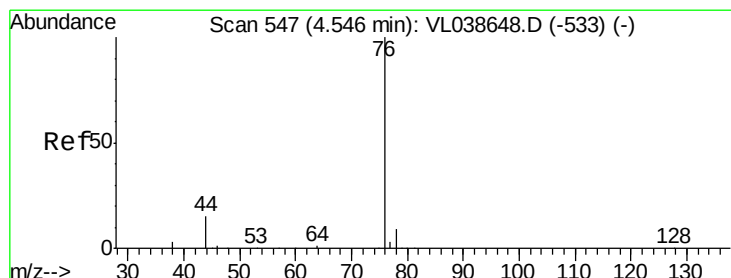
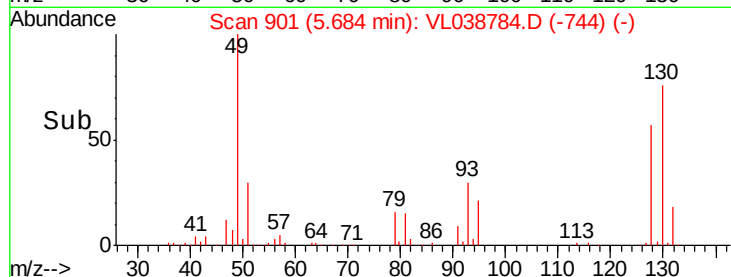
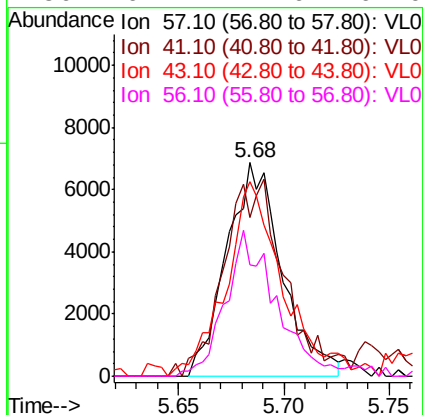
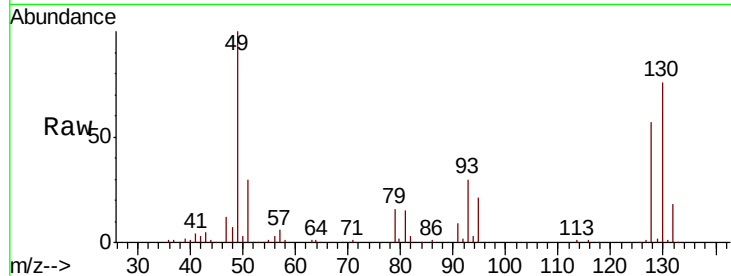
Tgt Ion:	43	Resp:	9996
Ion	Ratio	Lower	Upper
43	100		
45	6.4	8.2	12.4#
61	0.5	8.3	12.5#
70	2.0	5.6	8.4#





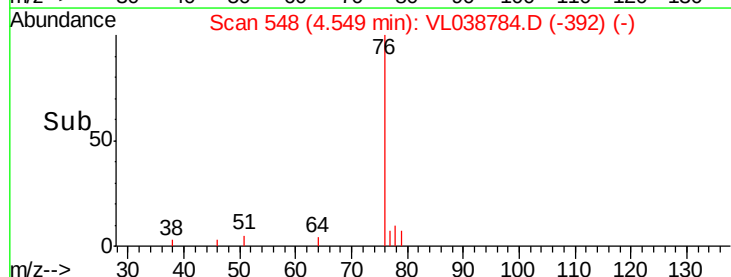
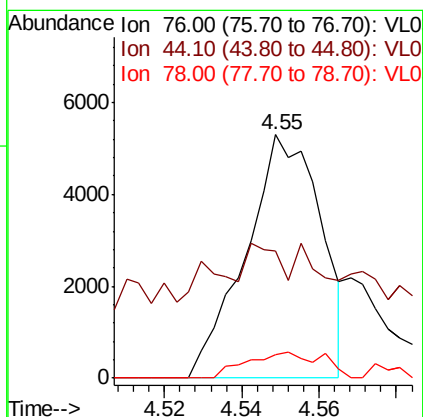
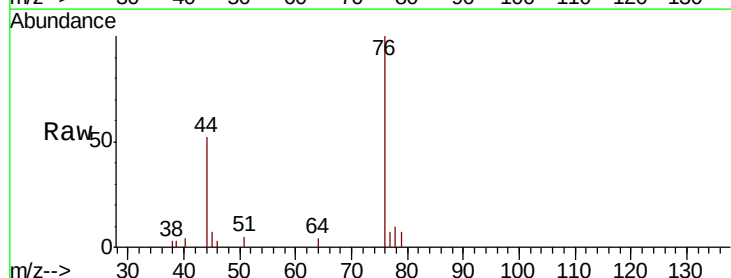
#26
Hexane
Concen: 0.185 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Mar 2022 23:39

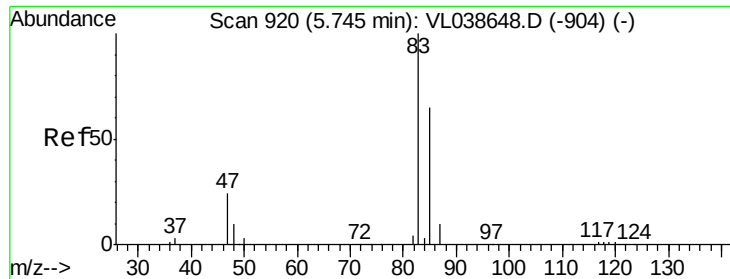
Tot Ion: 57 Resp: 12524
Ion Ratio Lower Upper
57 100
41 100.4 67.0 100.4
43 94.5 184.2 276.2#
56 64.4 42.6 64.0#



#27
Carbon Disulfide
Concen: 0.108 ppbv
RT: 4.55 min Scan# 548
Delta R.T. 0.00 min
Lab File: VL038784.D
Acq: 28 Mar 2022 23:39

Tgt Ion: 76 Resp: 7172
Ion Ratio Lower Upper
76 100
44 78.3 12.4 18.6#
78 13.3 7.8 11.8#





#29

Chloroform

Concen: 2.561 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

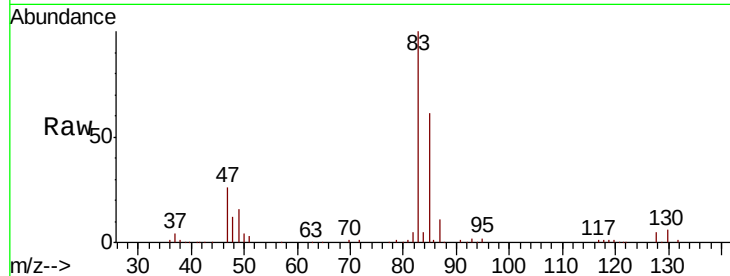
Acq: 28 Mar 2022 23:39

Tot Ion: 83 Resp: 277646

Ion Ratio Lower Upper

83 100

85 61.4 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.74

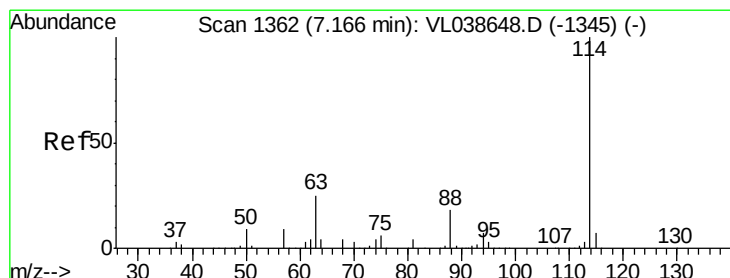
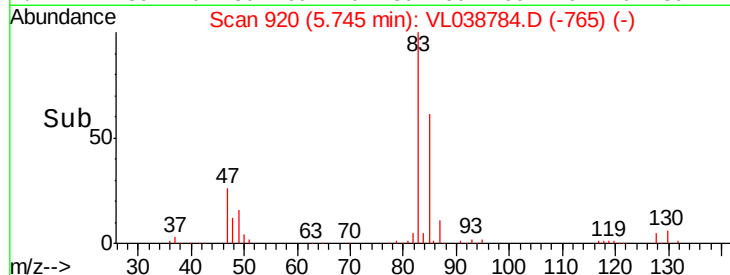
150000

100000

50000

0

Time-->



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VL038784.D

Acq: 28 Mar 2022 23:39

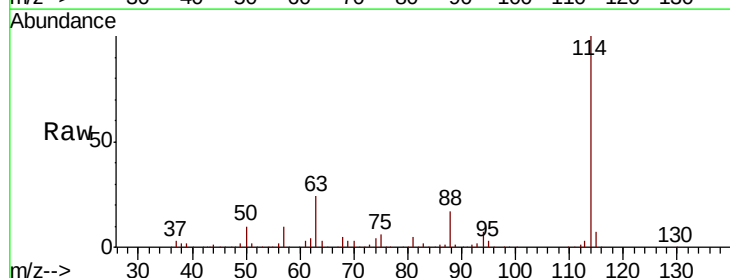
Tgt Ion: 114 Resp: 1896487

Ion Ratio Lower Upper

114 100

63 24.0 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

7.17

1200000

1000000

800000

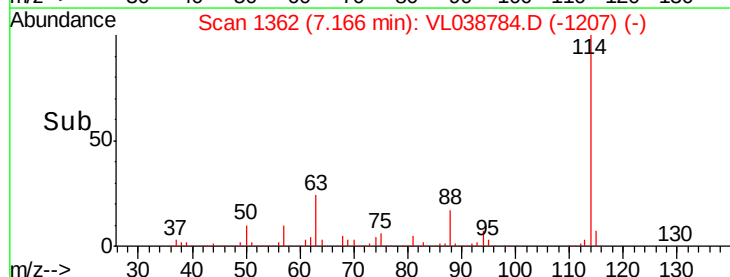
600000

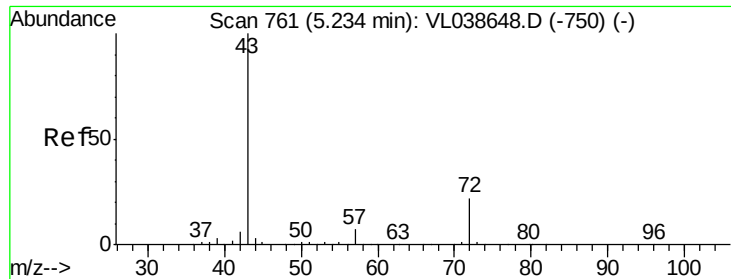
400000

200000

0

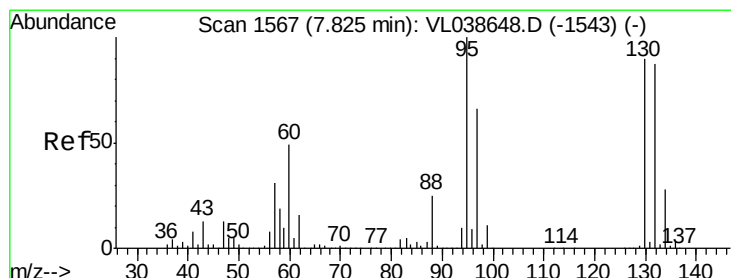
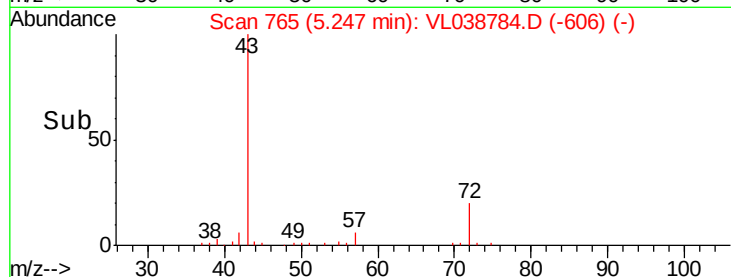
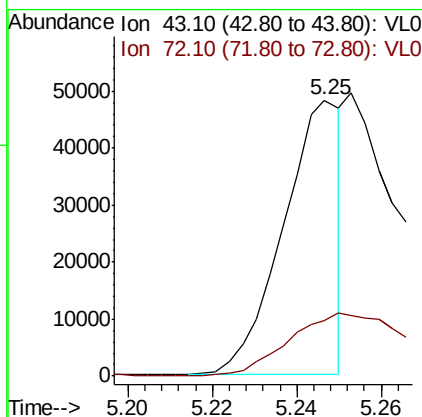
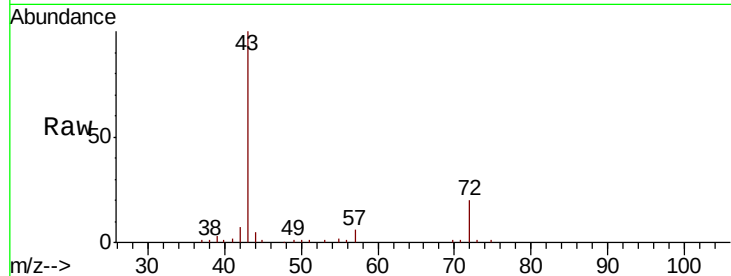
Time-->





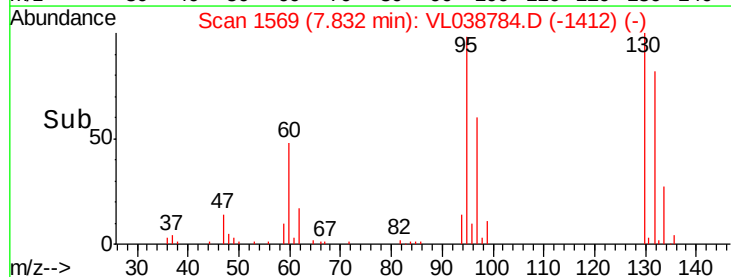
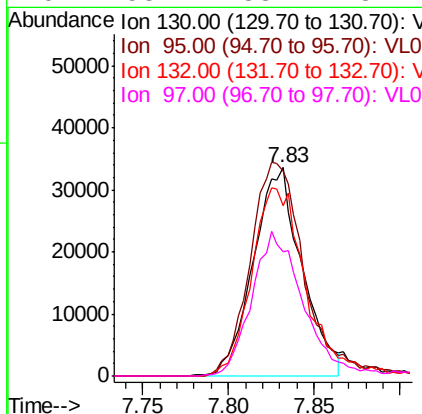
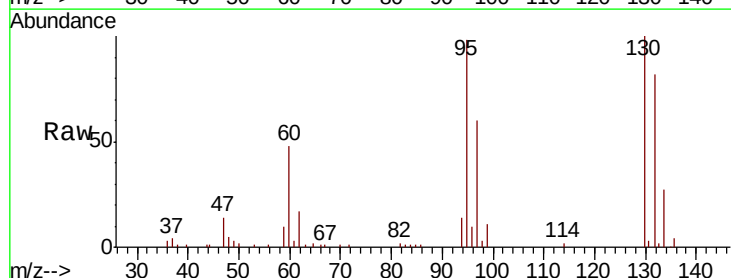
#34
2-Butanone
Concen: 0.611 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COPA3
Acq: 28 Mar 2022 23:39

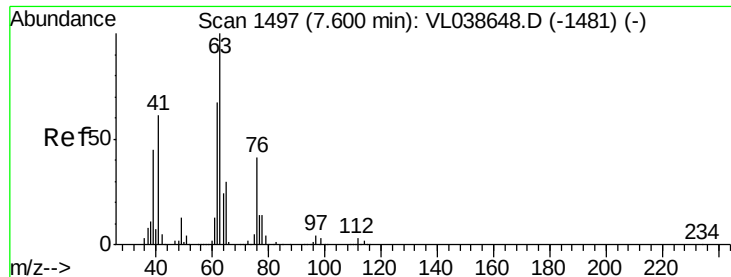
Tot Ion: 43 Resp: 45834
Ion Ratio Lower Upper
43 100
72 0.0 17.8 26.8#



#38
Trichloroethene
Concen: 1.078 ppbv
RT: 7.83 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VL038784.D
Acq: 28 Mar 2022 23:39

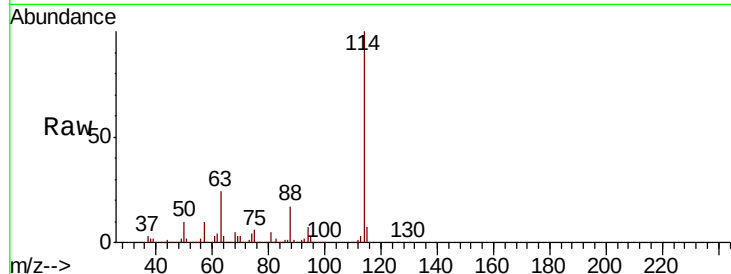
Tgt Ion:130 Resp: 66106
Ion Ratio Lower Upper
130 100
95 95.8 88.9 133.3
132 81.8 77.4 116.0
97 58.2 58.2 87.4#



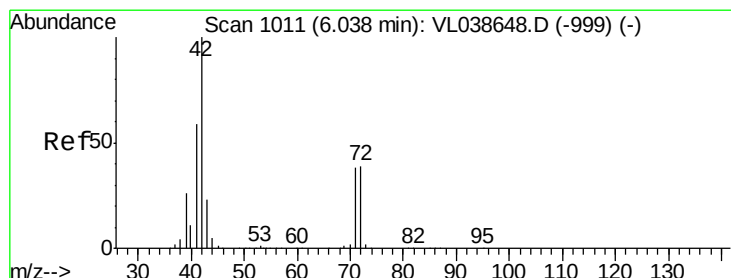
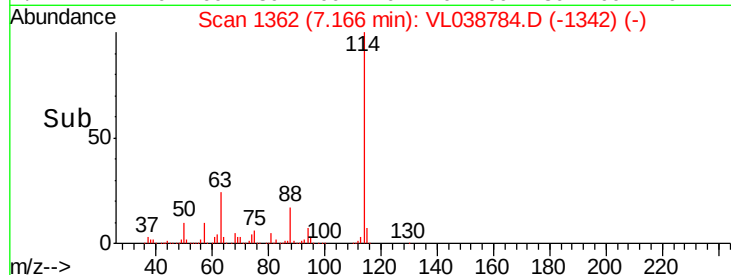
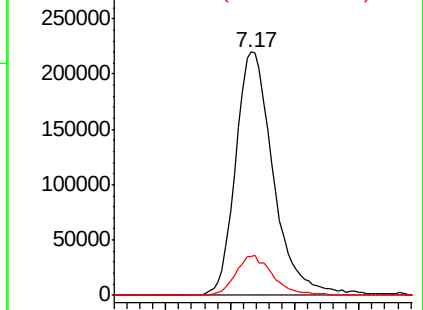


#39
 1,2-Dichloropropane
 Concen: 7.773 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 COPA3
 Acq: 28 Mar 2022 23:39

Tot Ion	63	Resp	444779
Ion Ratio	Lower	Upper	
63	100		
41	0.0	49.0	73.6#
62	16.0	53.9	80.9#

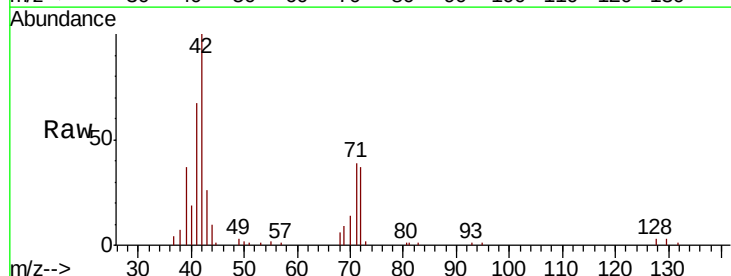


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

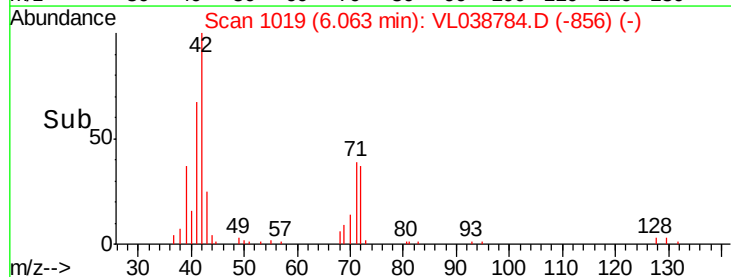
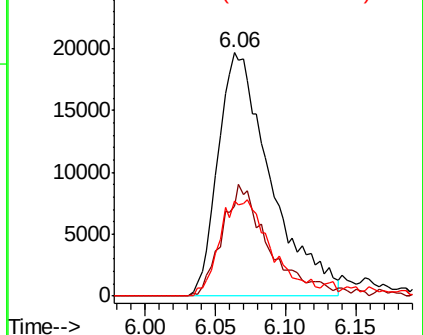


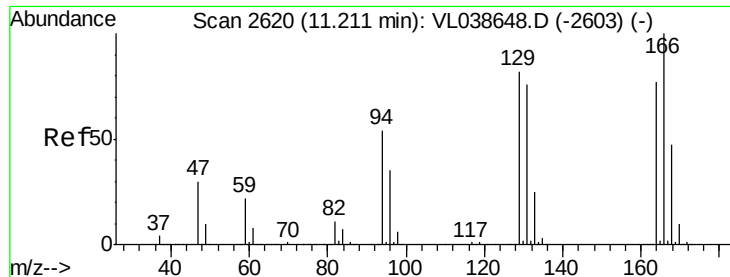
#41
 Tetrahydrofuran
 Concen: 0.919 ppbv
 RT: 6.06 min Scan# 1019
 Delta R.T. 0.03 min
 Lab File: VL038784.D
 Acq: 28 Mar 2022 23:39

Tgt Ion	42	Resp	51319
Ion Ratio	Lower	Upper	
42	100		
72	43.4	32.5	48.7
71	43.3	31.4	47.2



Abundance Ion 42.10 (41.80 to 42.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0
 Ion 71.10 (70.80 to 71.80): VL0





#52

Tetrachloroethene

Concen: 60.001 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

COPA3

Acq: 28 Mar 2022 23:39

Tot Ion:164 Resp: 3213797

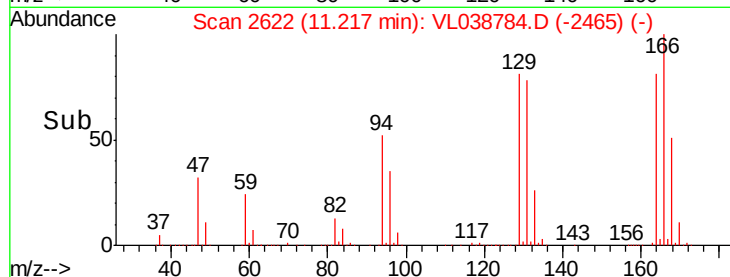
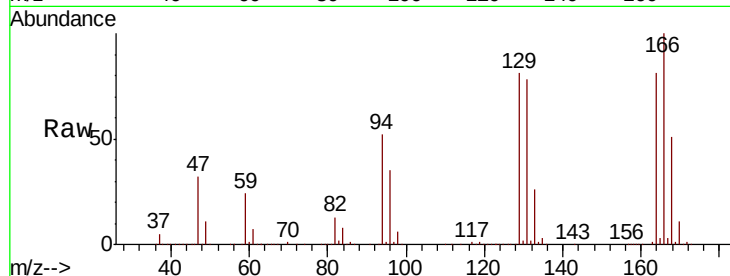
Ion Ratio Lower Upper

164 100

166 123.3 103.3 154.9

129 100.4 85.2 127.8

131 96.1 78.3 117.5

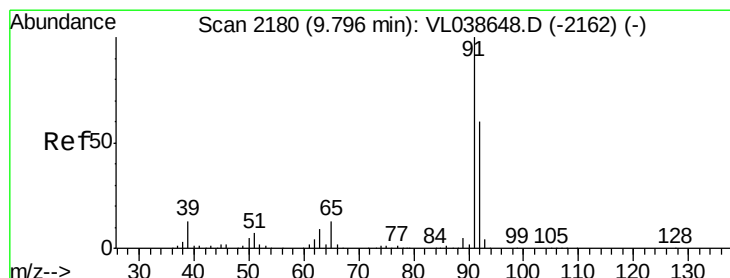
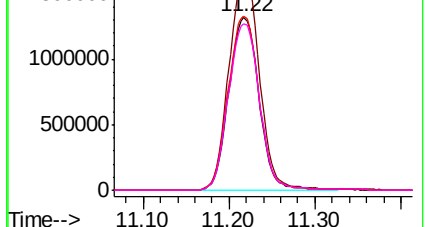


Abundance Ion 163.90 (163.60 to 164.60): V

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: 6.933 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL038784.D

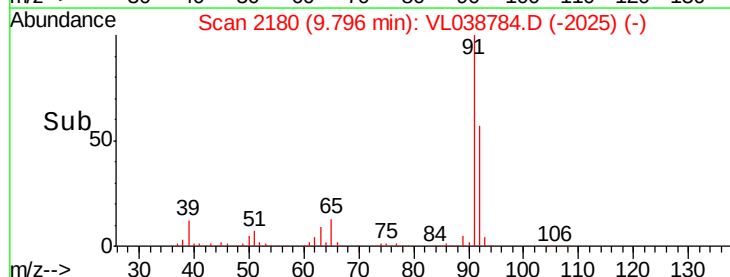
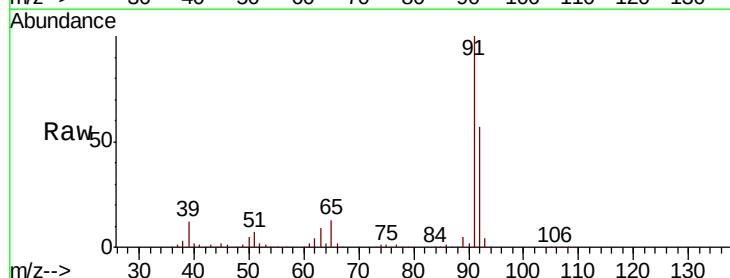
Acq: 28 Mar 2022 23:39

Tgt Ion: 91 Resp: 1090377

Ion Ratio Lower Upper

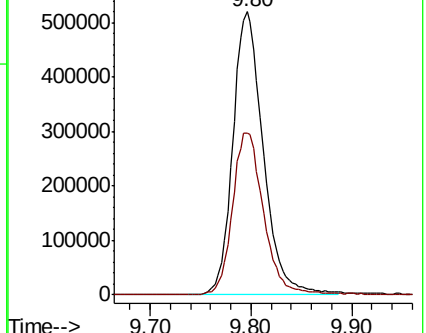
91 100

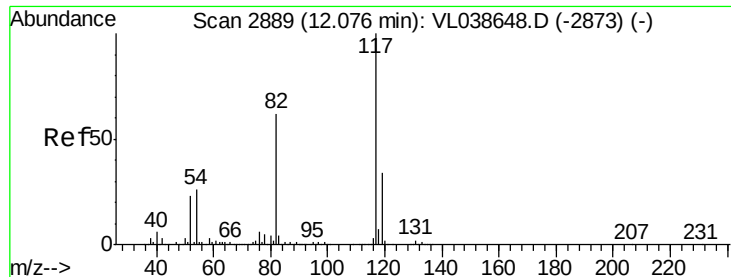
92 59.0 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

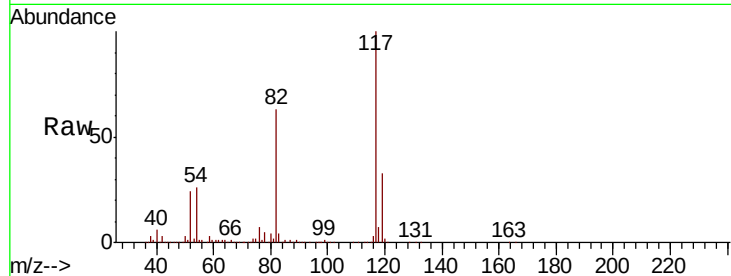




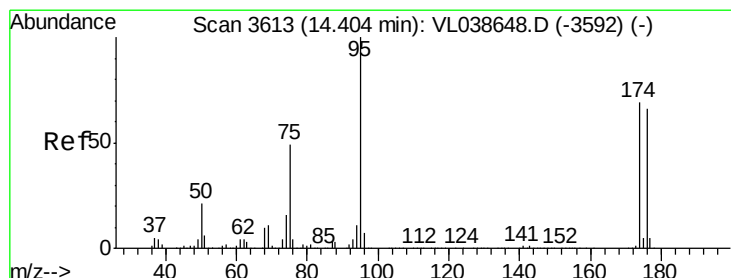
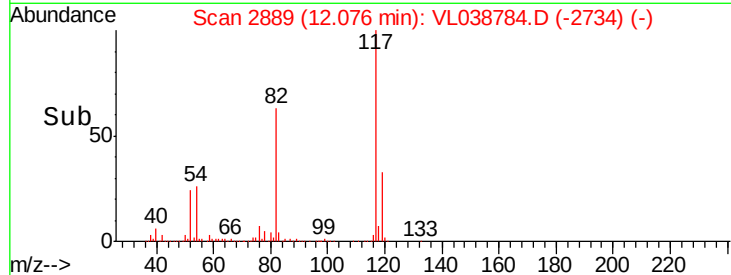
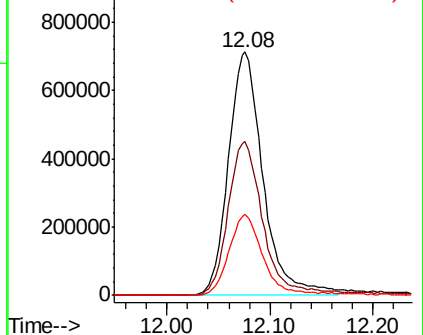
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 COPA3
 Acq: 28 Mar 2022 23:39

Tot Ion: 117 Resp: 1665088

Ion	Ratio	Lower	Upper
117	100		
82	66.1	51.6	77.4
119	33.8	26.9	40.3



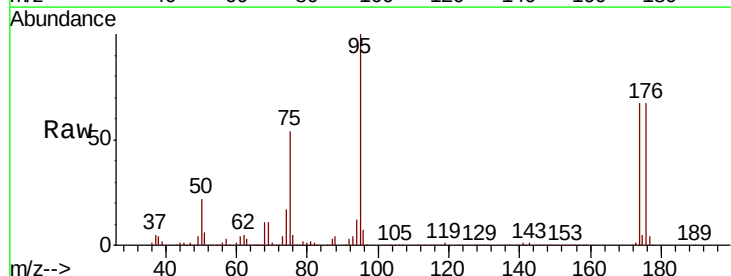
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.273 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T.: -0.00 min
 Lab File: VL038784.D
 Acq: 28 Mar 2022 23:39

Tgt Ion: 95 Resp: 1183741

Ion	Ratio	Lower	Upper
95	100		
174	74.0	56.1	84.1
175	5.1	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

