

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038725.D
 Acq On : 23 Mar 2022 21:10
 Operator : SY/AP
 Sample : N2047-03DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PA1DL

Quant Time: Mar 24 04:35:29 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	5.65	49	879838	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2353066	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2022061	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1437134	9.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.70%

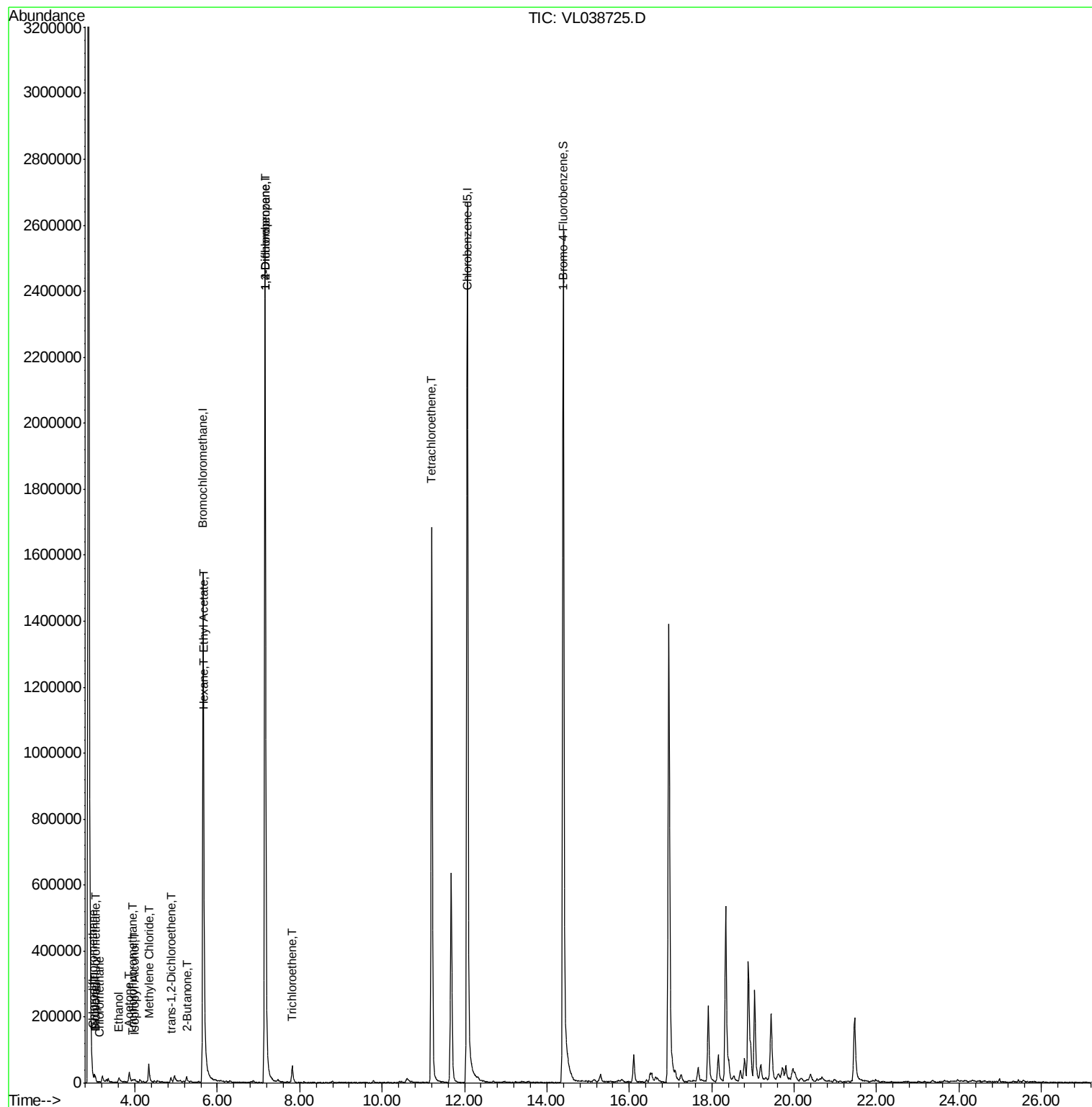
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	10421	0.088	ppbv	94
3) Chlorodifluoromethane	2.99	51	6093	0.066	ppbv	94
4) Chloromethane	3.14	50	1548	0.030	ppbv #	87
9) Propene	3.02	41	6444	0.144	ppbv	87
11) Trichlorofluoromethane	3.94	101	4916	0.047	ppbv #	68
13) Ethanol	3.61	45	15888	3.210	ppbv	77
15) Acetone	3.85	43	35162	0.463	ppbv #	85
19) Isopropyl Alcohol	3.98	45	4979	0.118	ppbv #	65
20) Methylene Chloride	4.34	84	14082	0.440	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	3053	0.082	ppbv	85
25) Ethyl Acetate	5.67	43	10378	0.054	ppbv #	77
26) Hexane	5.68	57	14503	0.170	ppbv #	41
34) 2-Butanone	5.25	43	21612	0.232	ppbv #	85
38) Trichloroethene	7.82	130	11066	0.145	ppbv #	81
39) 1,2-Dichloropropane	7.16	63	543415	7.654	ppbv #	29
52) Tetrachloroethene	11.21	164	458420	6.898	ppbv	97

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

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Quant Time: Mar 24 04:35:29 2022
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COPA1DL

Acq: 23 Mar 2022 21:10

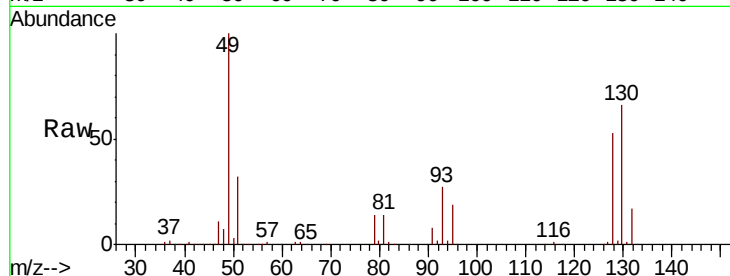
Tot Ion: 49 Resp: 879838

Ion Ratio Lower Upper

49 100

128 56.5 26.2 78.6

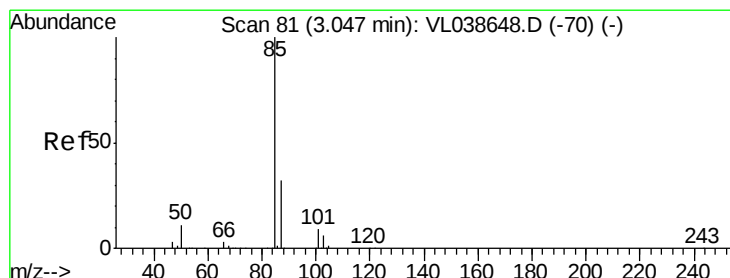
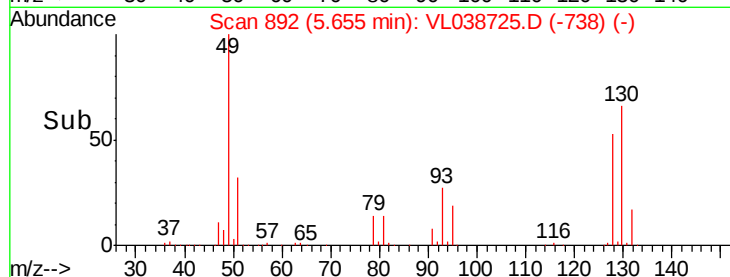
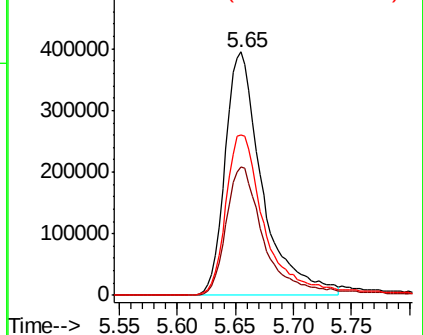
130 71.9 33.7 101.1



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: 0.088 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038725.D

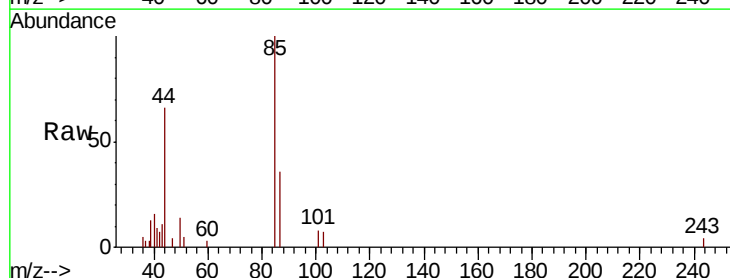
Acq: 23 Mar 2022 21:10

Tgt Ion: 85 Resp: 10421

Ion Ratio Lower Upper

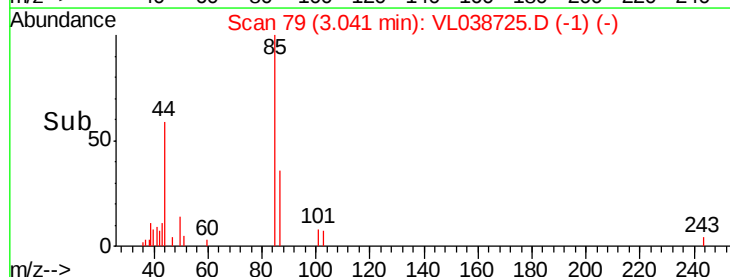
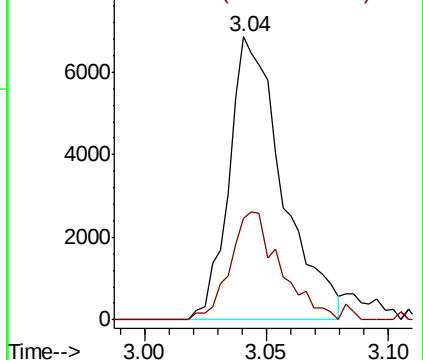
85 100

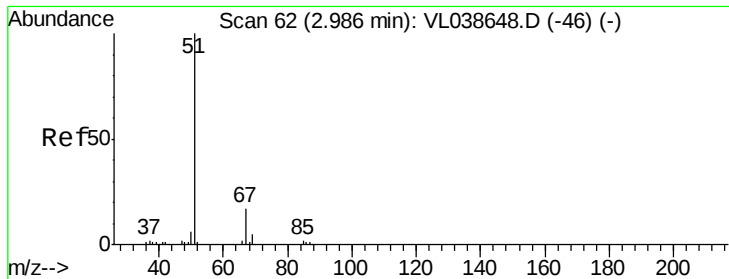
87 36.1 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.066 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: COPA1DL

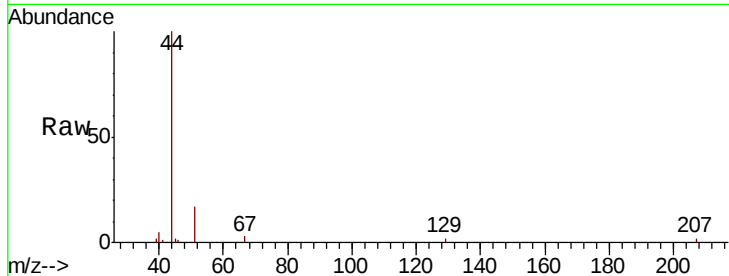
Acq: 23 Mar 2022 21:10

Tot Ion: 51 Resp: 6093

Ion Ratio Lower Upper

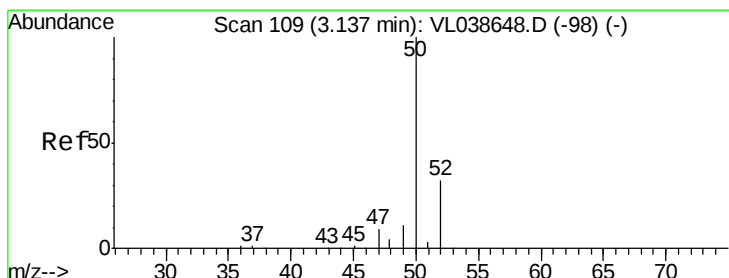
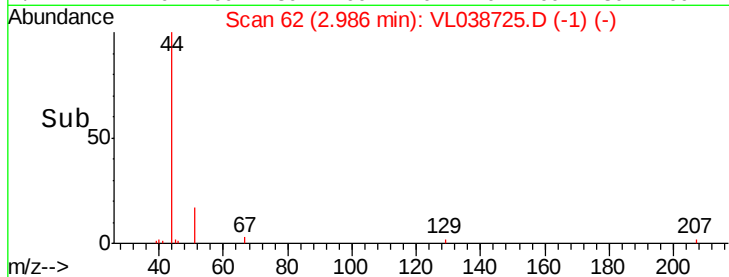
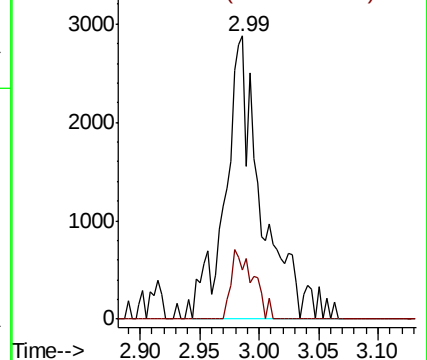
51 100

67 15.0 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: 0.030 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038725.D

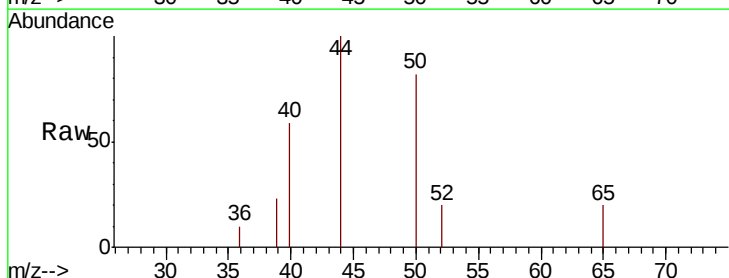
Acq: 23 Mar 2022 21:10

Tgt Ion: 50 Resp: 1548

Ion Ratio Lower Upper

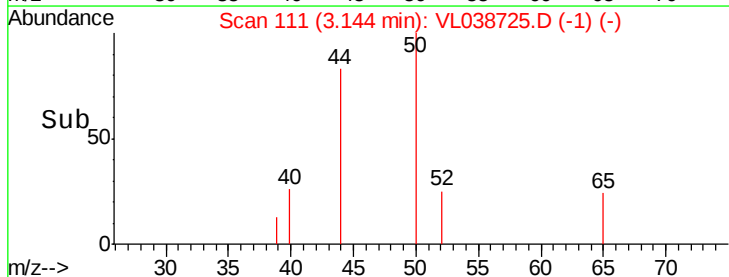
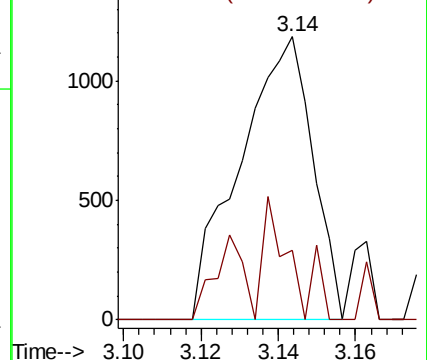
50 100

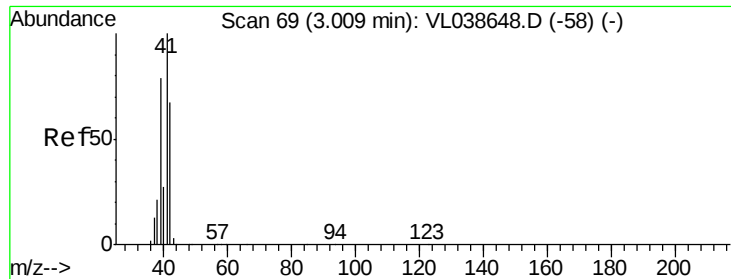
52 24.6 25.5 38.3#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.144 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

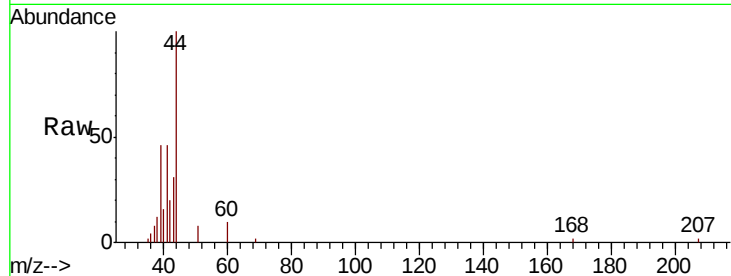
Acq: 23 Mar 2022 21:10

Tot Ion: 41 Resp: 6444

Ion Ratio Lower Upper

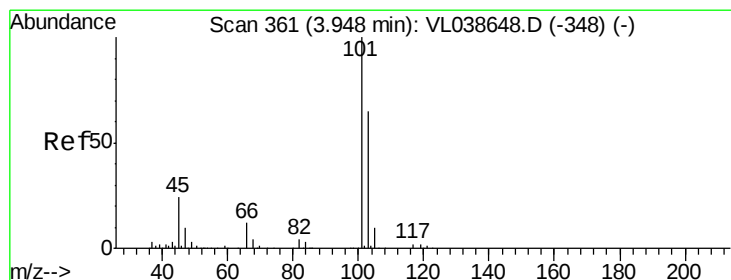
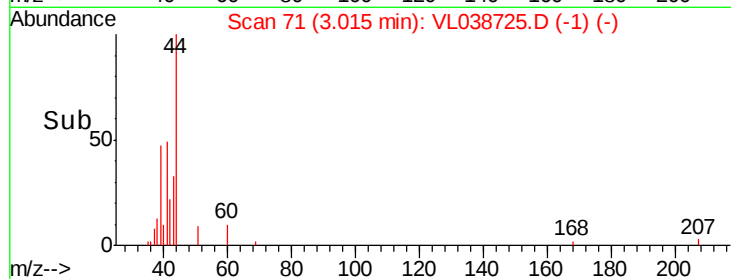
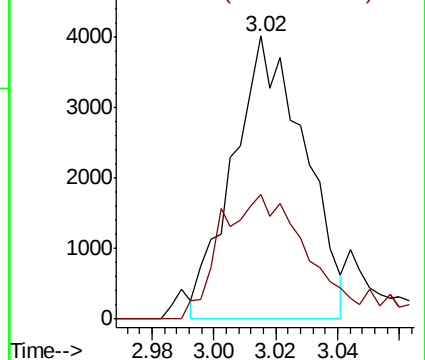
41 100

42 59.7 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: 0.047 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL038725.D

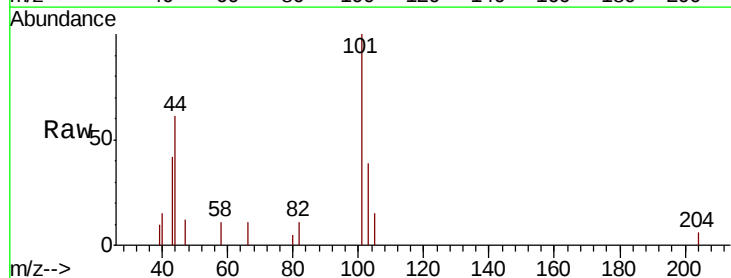
Acq: 23 Mar 2022 21:10

Tgt Ion: 101 Resp: 4916

Ion Ratio Lower Upper

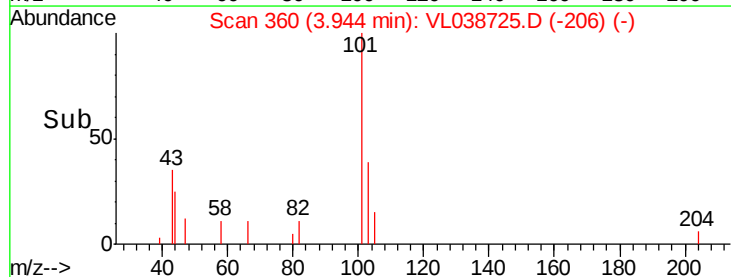
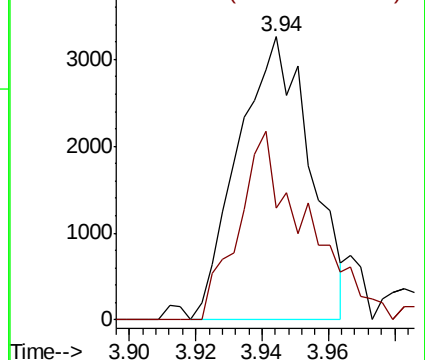
101 100

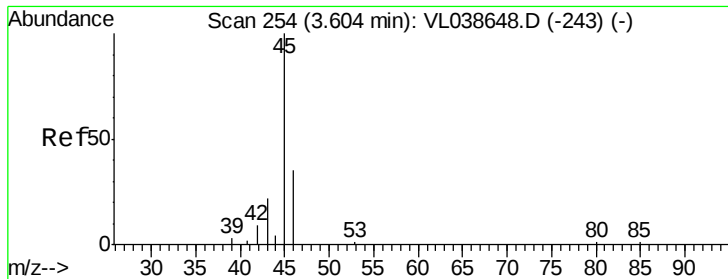
103 39.3 51.9 77.9#



Abundance Ion 101.00 (100.70 to 101.70): V

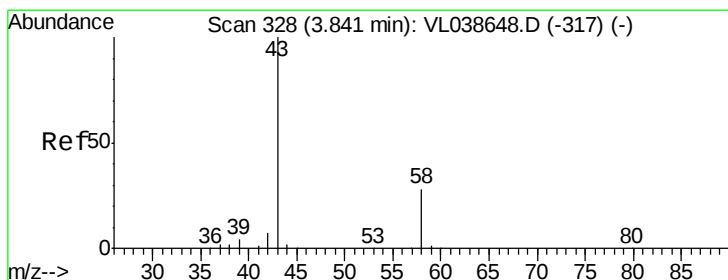
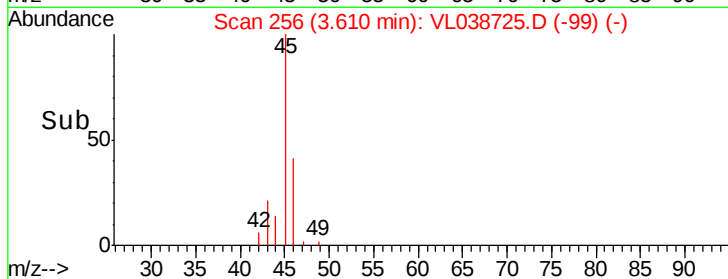
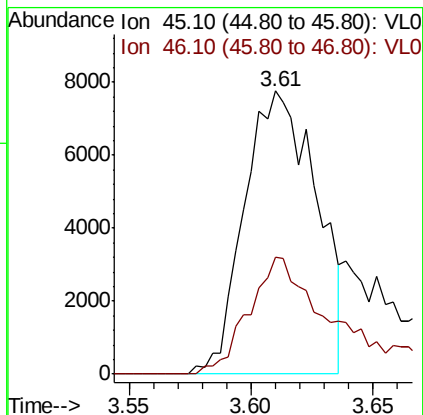
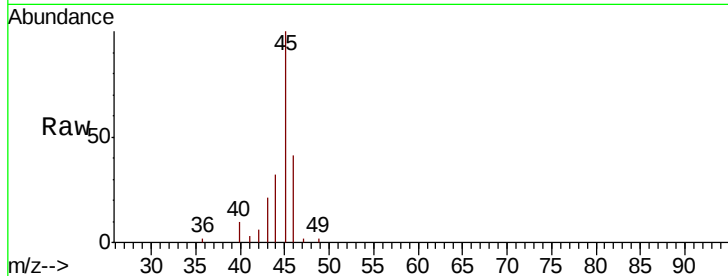
Ion 103.00 (102.70 to 103.70): V





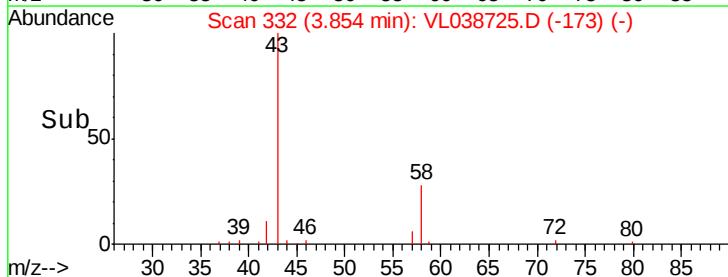
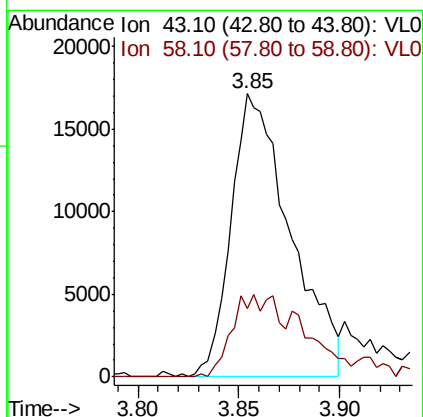
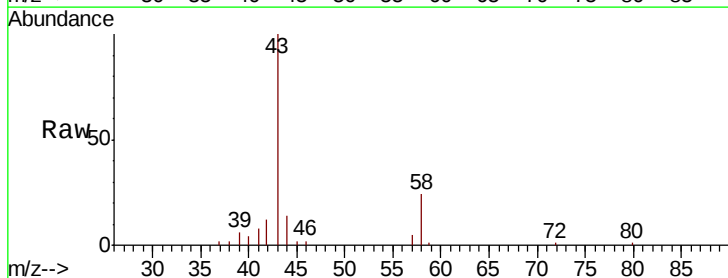
#13
Ethanol
Concen: 3.210 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COPA1DL
Acq: 23 Mar 2022 21:10

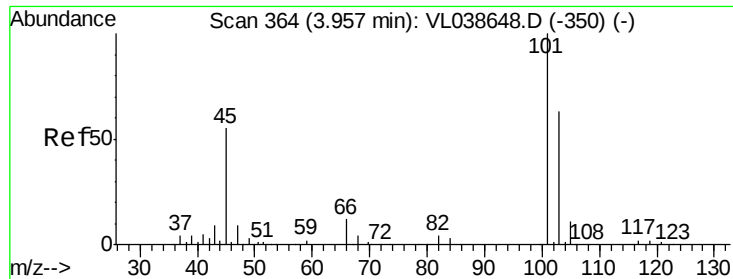
Tot Ion: 45 Resp: 15888
Ion Ratio Lower Upper
45 100
46 51.8 15.1 60.5



#15
Acetone
Concen: 0.463 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL038725.D
Acq: 23 Mar 2022 21:10

Tgt Ion: 43 Resp: 35162
Ion Ratio Lower Upper
43 100
58 37.0 23.3 34.9#





#19

Isopropyl Alcohol

Concen: 0.118 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

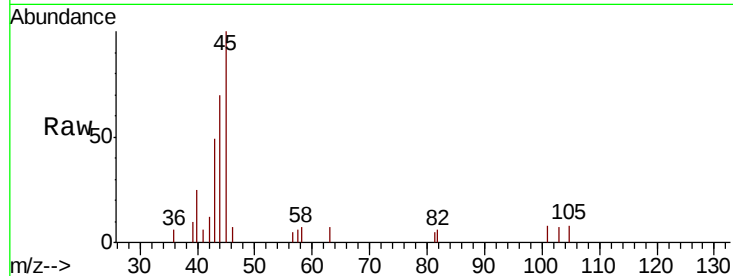
Acq: 23 Mar 2022 21:10

Tot Ion: 45 Resp: 4979

Ion Ratio Lower Upper

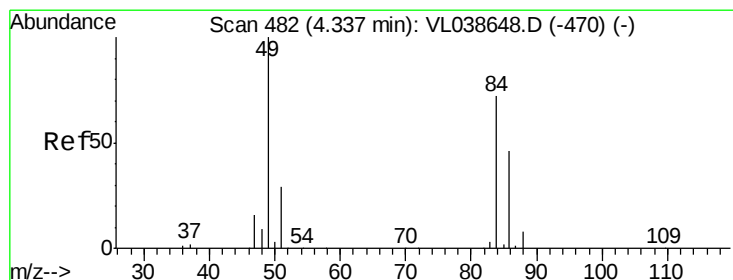
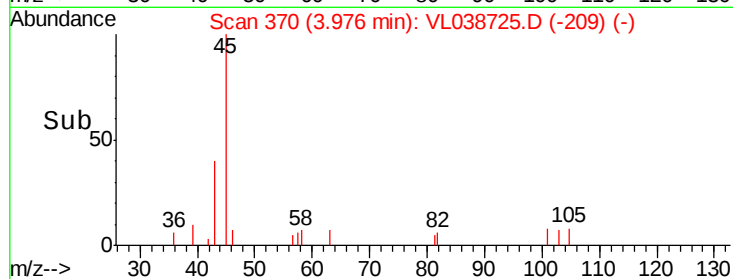
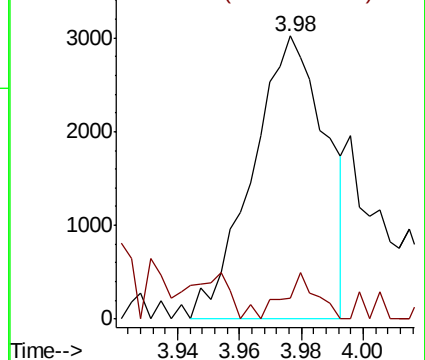
45 100

58 14.4 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.440 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL038725.D

Acq: 23 Mar 2022 21:10

Tgt Ion: 84 Resp: 14082

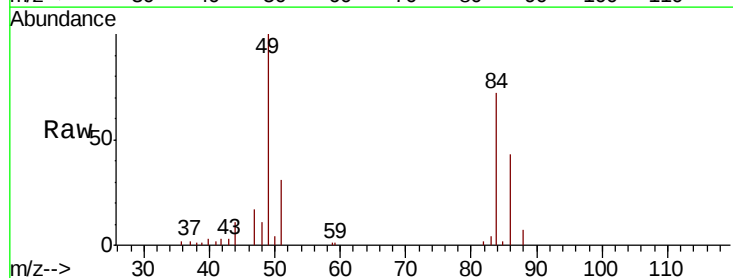
Ion Ratio Lower Upper

84 100

49 139.6 111.2 166.8

51 43.0 32.8 49.2

86 59.6 51.4 77.0

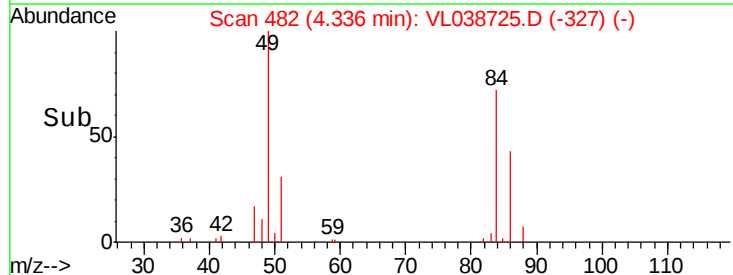
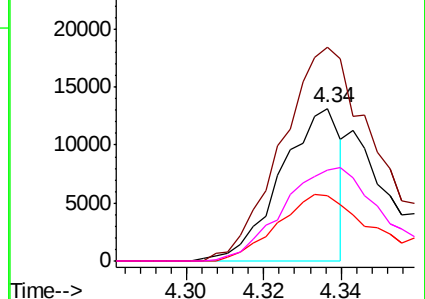


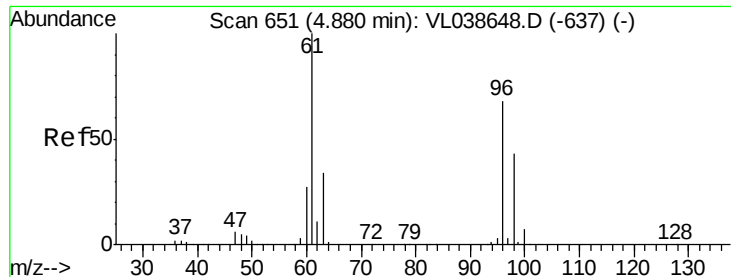
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#22

trans-1,2-Dichloroethene

Concen: 0.082 ppbv

RT: 4.88

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 21:10

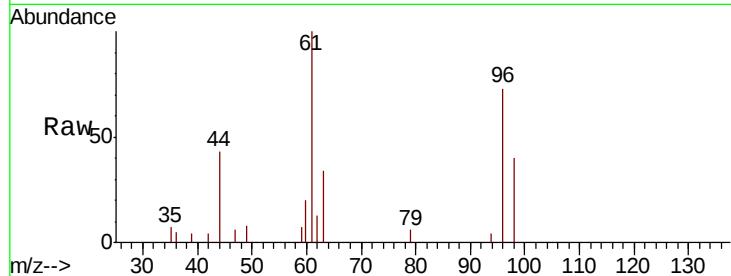
Tot Ion: 96 Resp: 3053

Ion Ratio Lower Upper

96 100

61 129.8 118.3 177.5

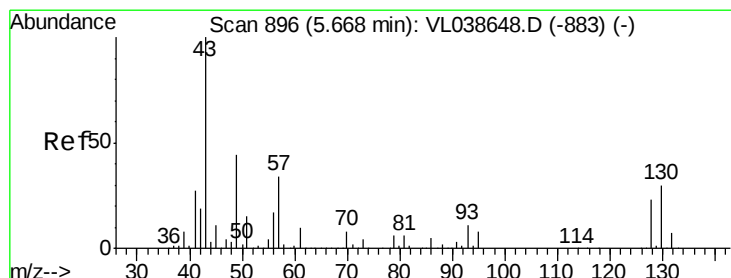
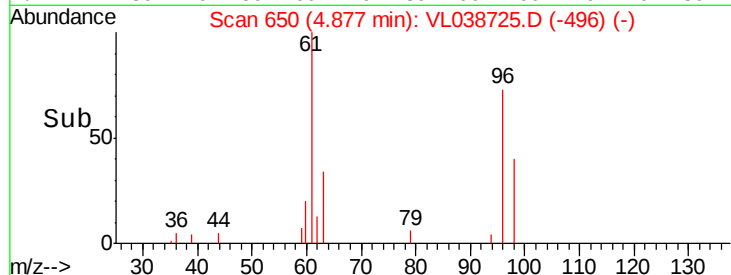
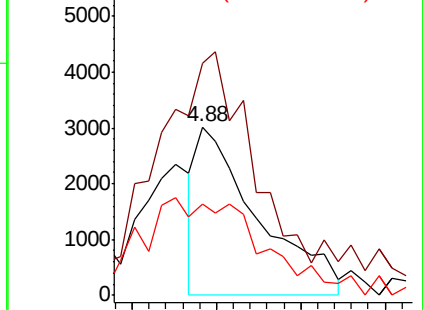
98 52.3 51.3 76.9



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#25

Ethyl Acetate

Concen: 0.054 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL038725.D

Acq: 23 Mar 2022 21:10

Tgt Ion: 43 Resp: 10378

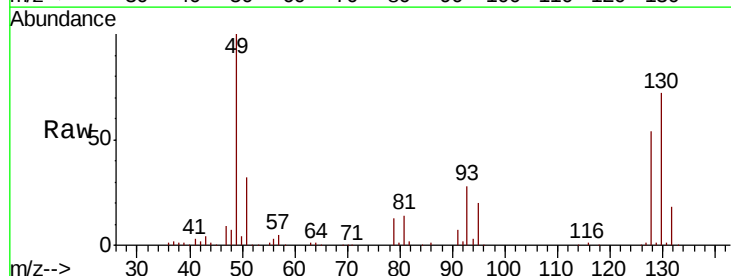
Ion Ratio Lower Upper

43 100

45 2.7 8.2 12.4#

61 0.0 8.3 12.5#

70 0.0 5.6 8.4#

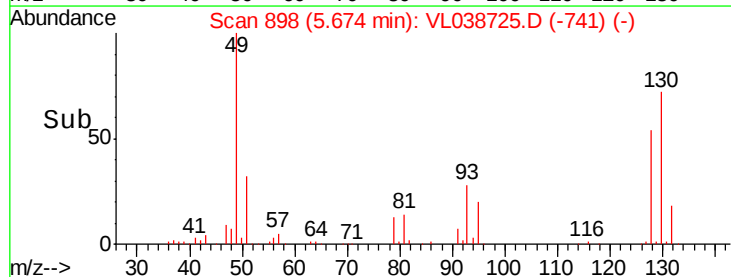
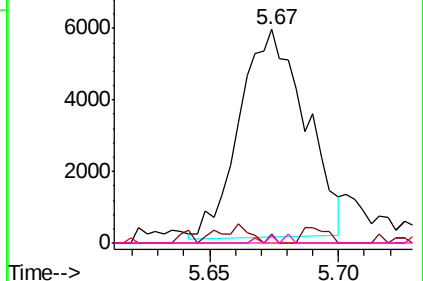


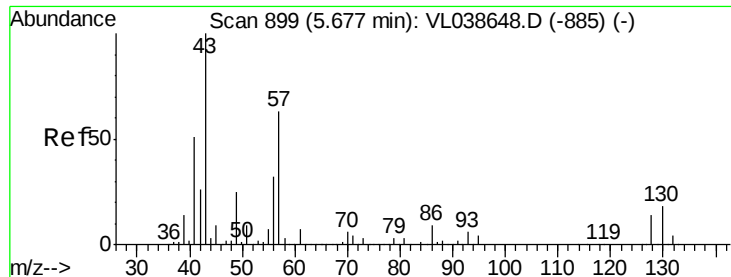
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

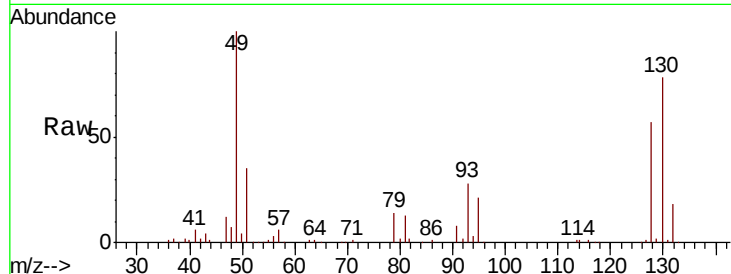
Ion 70.10 (69.80 to 70.80): VL0



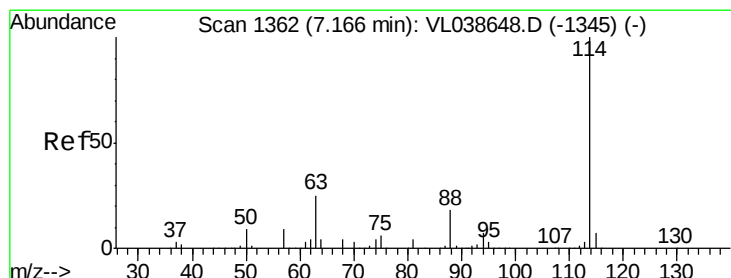
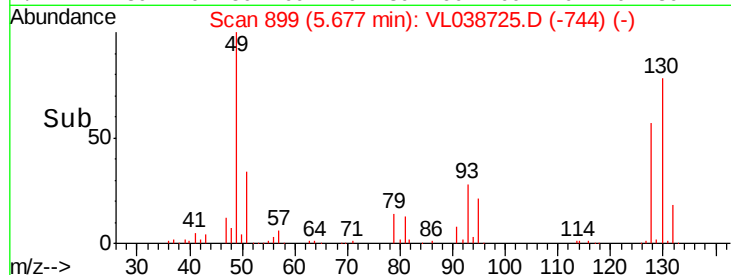
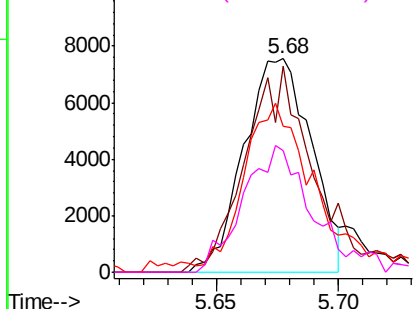


#26
Hexane
Concen: 0.170 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COPA1DL
Acq: 23 Mar 2022 21:10

Tot Ion: 57 Resp: 14503
Ion Ratio Lower Upper
57 100
41 102.5 67.0 100.4#
43 91.5 184.2 276.2#
56 63.5 42.6 64.0

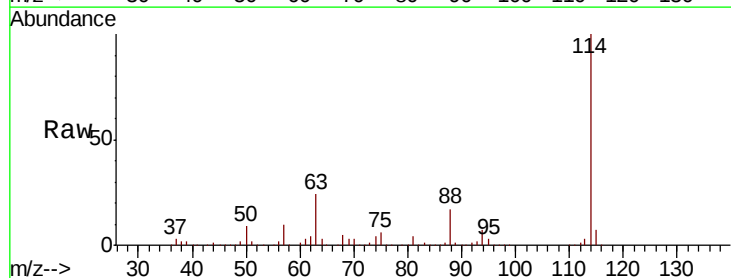


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

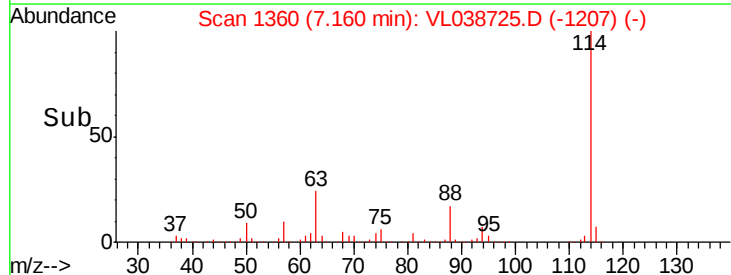
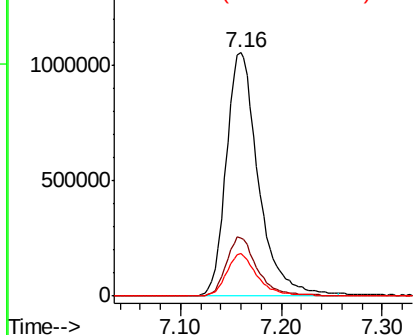


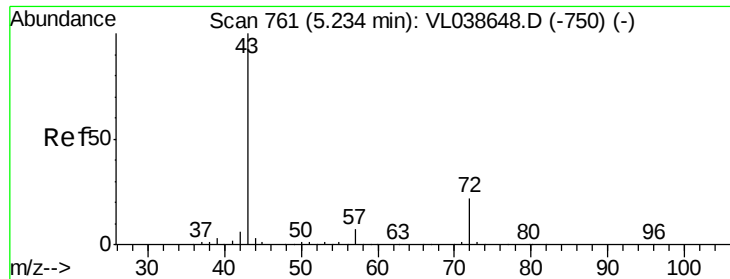
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL038725.D
Acq: 23 Mar 2022 21:10

Tgt Ion: 114 Resp: 2353066
Ion Ratio Lower Upper
114 100
63 23.7 19.4 29.0
88 17.1 13.9 20.9



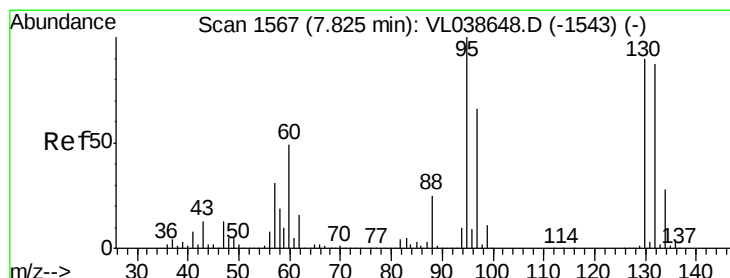
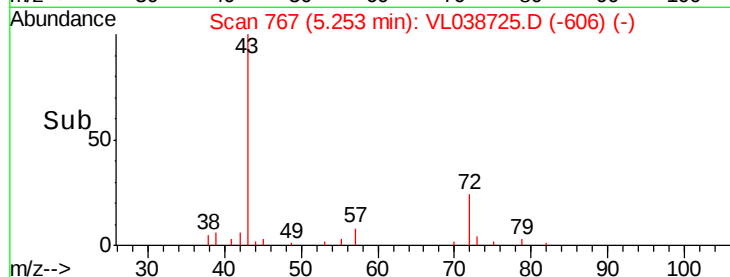
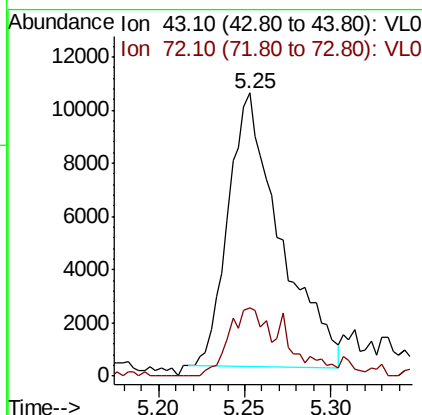
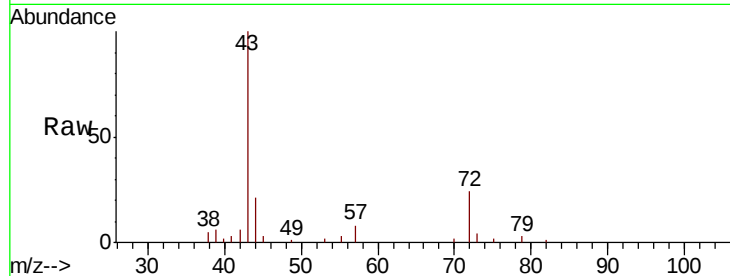
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





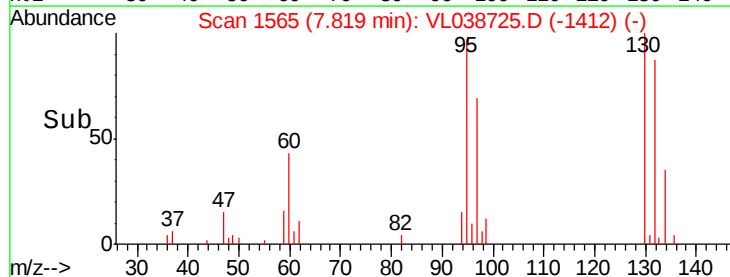
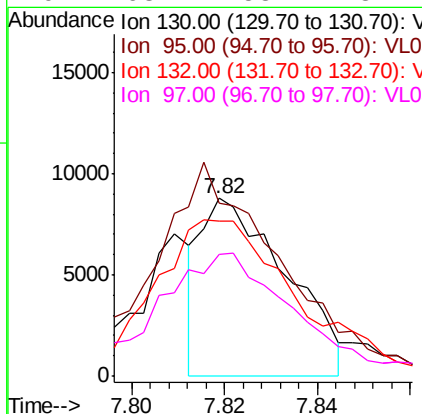
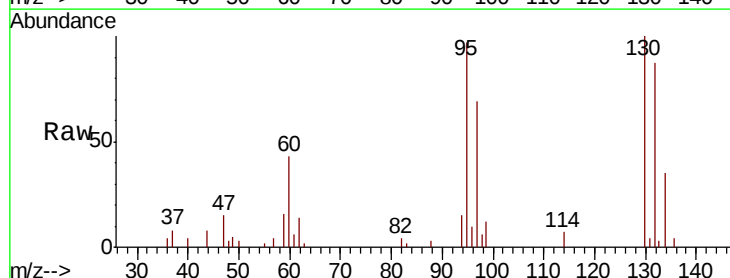
#34
2-Butanone
Concen: 0.232 ppbv
RT: 5.25
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 21:10

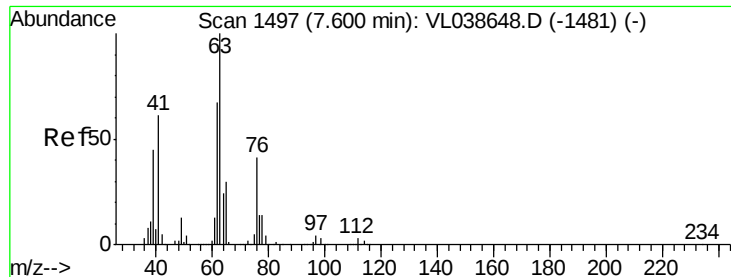
Tot Ion: 43 Resp: 21612
Ion Ratio Lower Upper
43 100
72 29.4 17.8 26.8#



#38
Trichloroethene
Concen: 0.145 ppbv
RT: 7.82 min Scan# 1565
Delta R.T.: -0.01 min
Lab File: VL038725.D
Acq: 23 Mar 2022 21:10

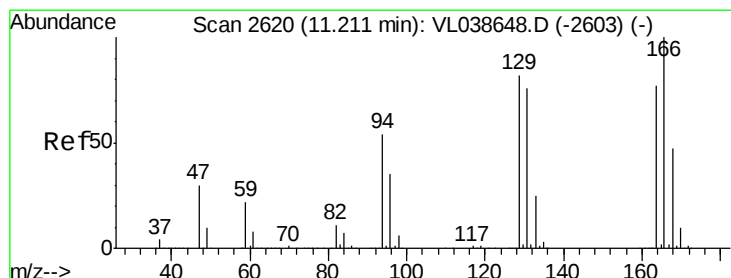
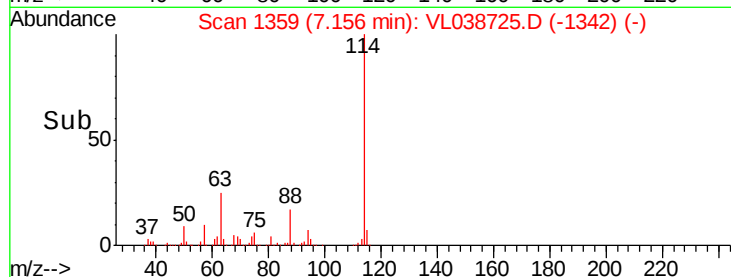
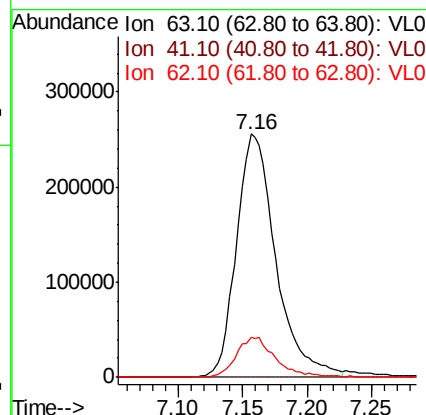
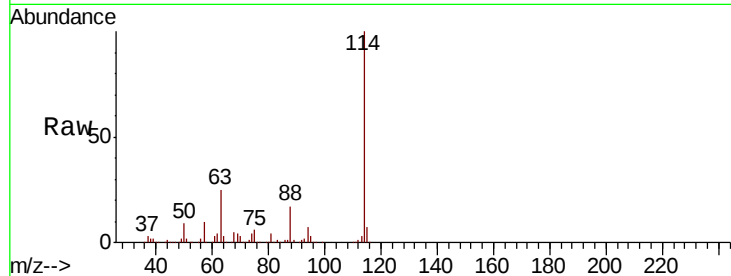
Tgt Ion:130 Resp: 11066
Ion Ratio Lower Upper
130 100
95 89.2 88.9 133.3
132 73.0 77.4 116.0#
97 63.4 58.2 87.4





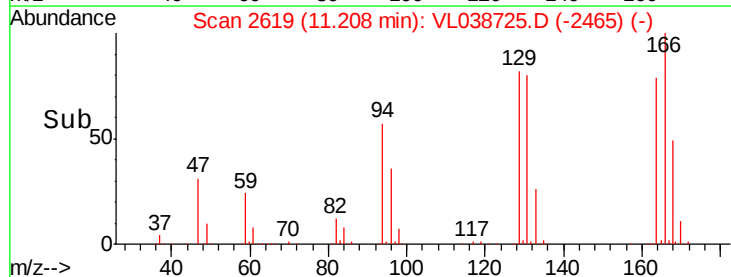
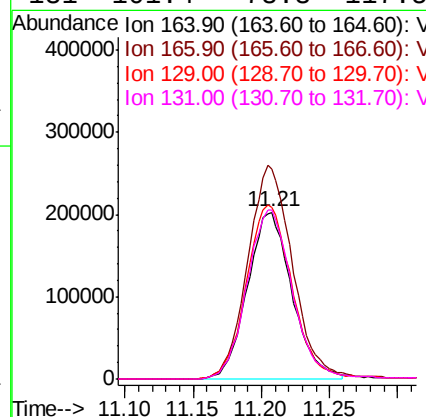
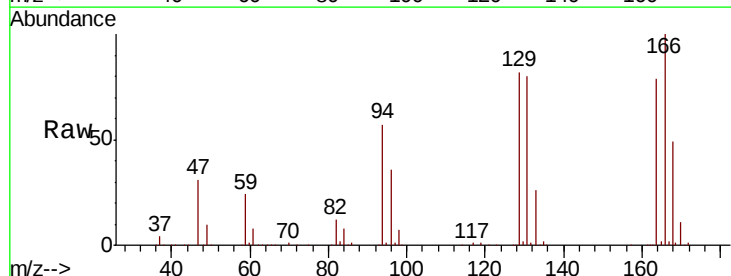
#39
 1,2-Dichloropropane
 Concen: 7.654 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 21:10

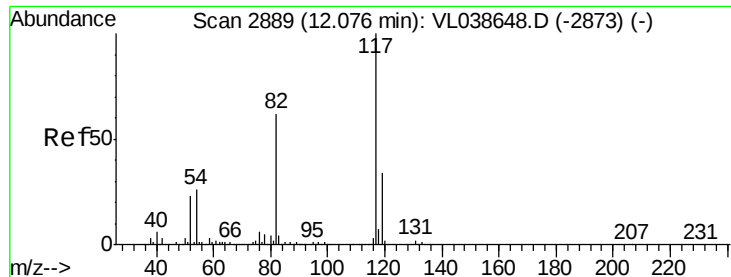
Tot Ion	63	Resp	543415
Ion Ratio	Lower	Upper	
63	100		
41	0.0	49.0	73.6#
62	16.4	53.9	80.9#



#52
 Tetrachloroethene
 Concen: 6.898 ppbv
 RT: 11.21 min Scan# 2619
 Delta R.T. -0.00 min
 Lab File: VL038725.D
 Acq: 23 Mar 2022 21:10

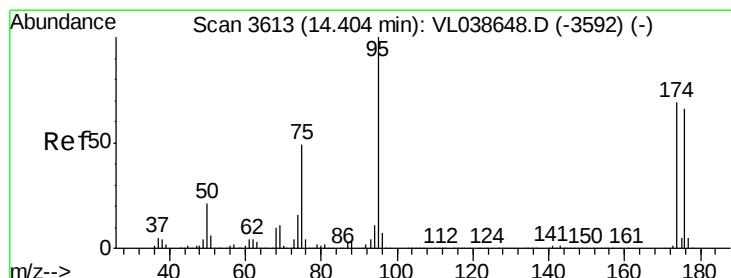
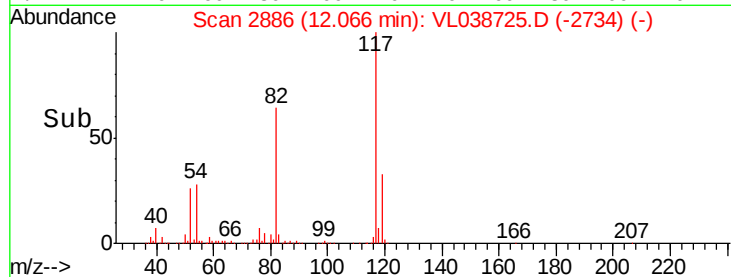
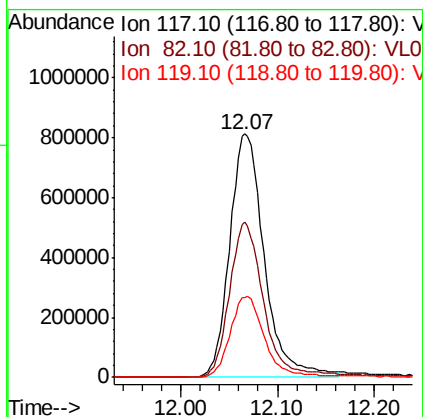
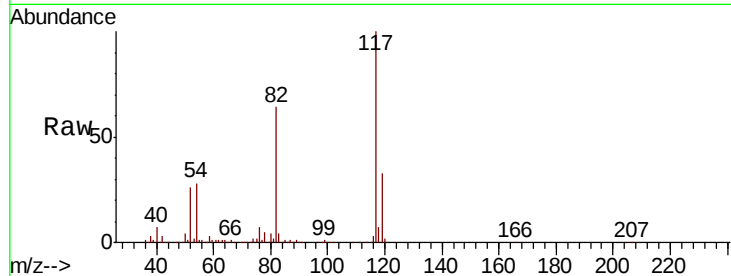
Tgt Ion	164	Resp	458420
Ion Ratio	Lower	Upper	
164	100		
166	125.9	103.3	154.9
129	103.0	85.2	127.8
131	101.4	78.3	117.5





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 C0PA1DL
 Acq: 23 Mar 2022 21:10

Tot Ion: 117 Resp: 2022061
 Ion Ratio Lower Upper
 117 100
 82 65.6 51.6 77.4
 119 34.0 26.9 40.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.270 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T.: -0.01 min
 Lab File: VL038725.D
 Acq: 23 Mar 2022 21:10

Tgt Ion: 95 Resp: 1437134
 Ion Ratio Lower Upper
 95 100
 174 72.7 56.1 84.1
 175 5.3 4.2 6.2

