

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038168.D
 Acq On : 14 Dec 2021 16:07
 Operator : SY/AP
 Sample : M5045-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 15 04:56:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	1078519	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	2794824	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2406459	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1802474	10.38	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

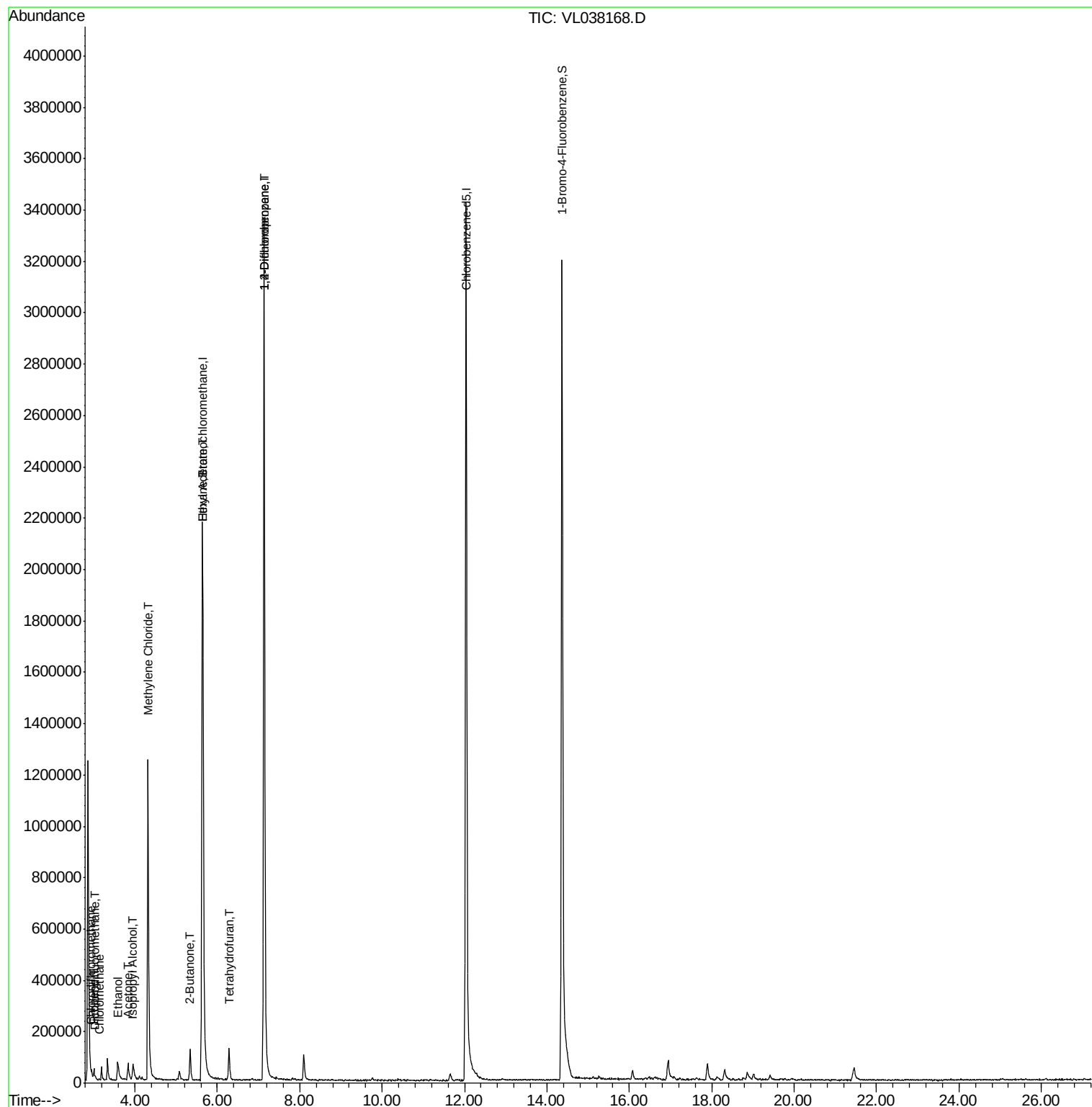
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	7814	0.044	ppbv #	83
3) Chlorodifluoromethane	2.94	51	25439	0.112	ppbv #	68
4) Chloromethane	3.13	50	2336	0.030	ppbv #	76
9) Propene	3.00	41	10329	0.124	ppbv	89
13) Ethanol	3.59	45	102000	12.654	ppbv	99
15) Acetone	3.83	43	86978	0.930	ppbv	98
19) Isopropyl Alcohol	3.96	45	44820	0.663	ppbv #	82
20) Methylene Chloride	4.32	84	524931	10.022	ppbv	96
25) Ethyl Acetate	5.65	43	351833	1.132	ppbv #	78
26) Hexane	5.65	57	457889	3.057	ppbv #	46
34) 2-Butanone	5.34	43	13432	0.119	ppbv #	54
39) 1,2-Dichloropropane	7.13	63	742521	6.943	ppbv #	26
41) Tetrahydrofuran	6.28	42	12640	0.181	ppbv #	36

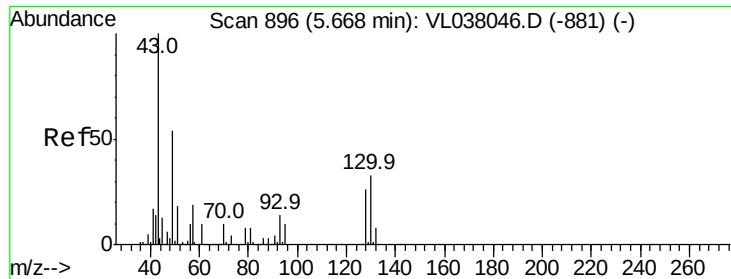
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 16:07

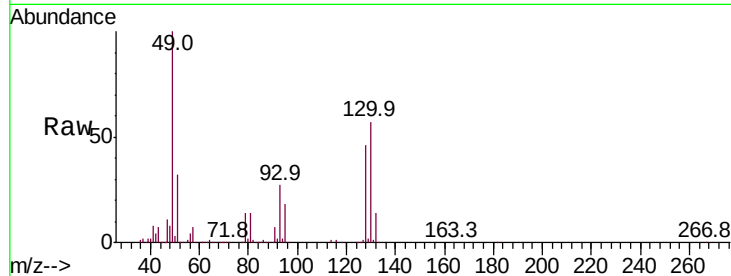
Tot Ion: 49 Resp: 1078519

Ion Ratio Lower Upper

49 100

128 48.4 26.5 79.5

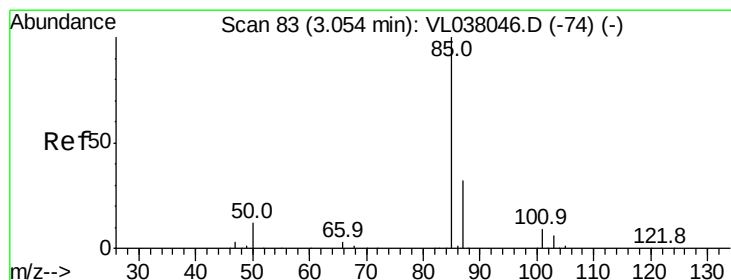
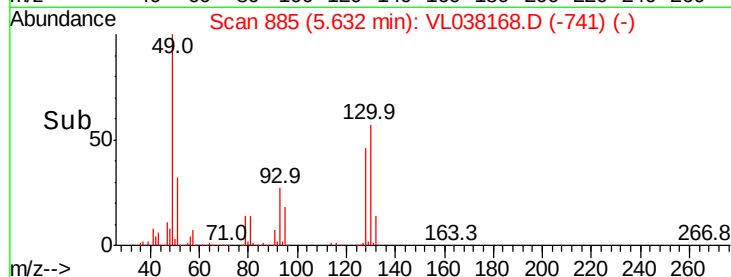
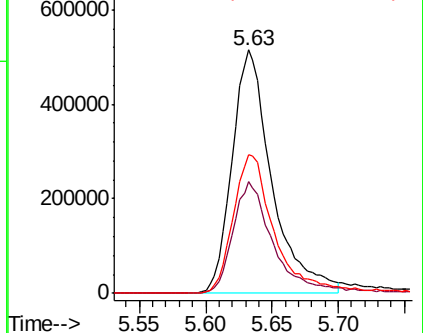
130 61.0 32.5 97.4



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: 0.044 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL038168.D

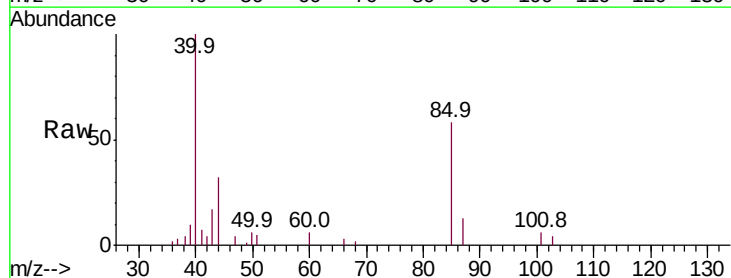
Acq: 14 Dec 2021 16:07

Tgt Ion: 85 Resp: 7814

Ion Ratio Lower Upper

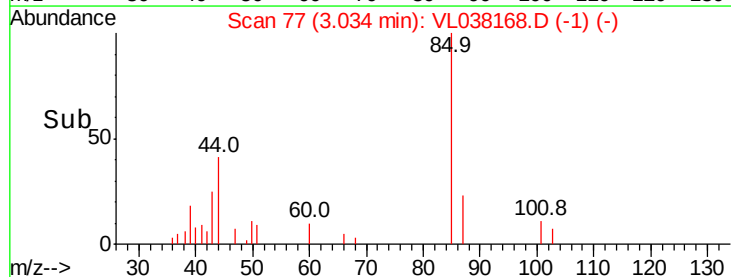
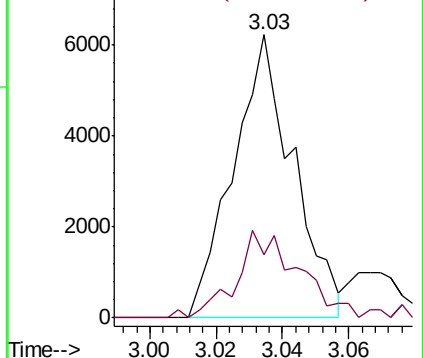
85 100

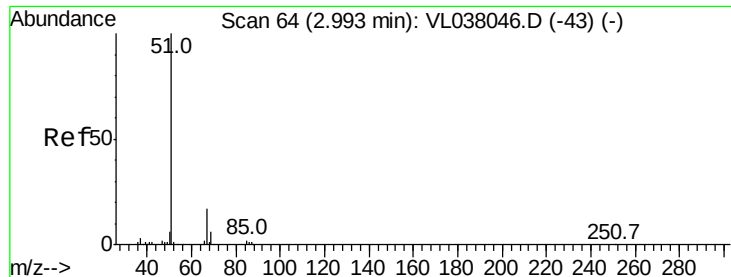
87 22.5 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.112 ppbv

RT: 2.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

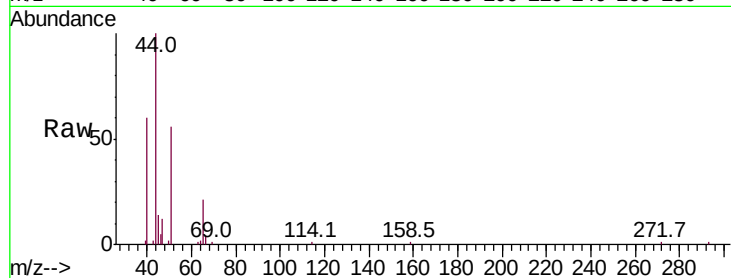
Acq: 14 Dec 2021 16:07

Tot Ion: 51 Resp: 25439

Ion Ratio Lower Upper

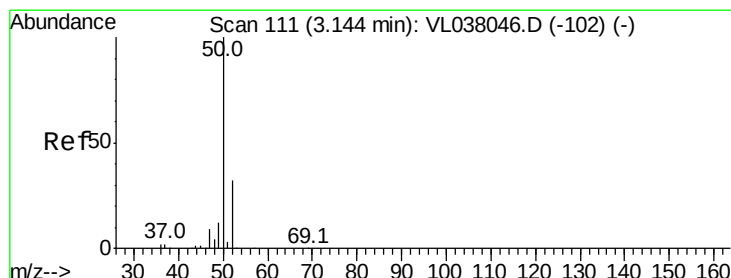
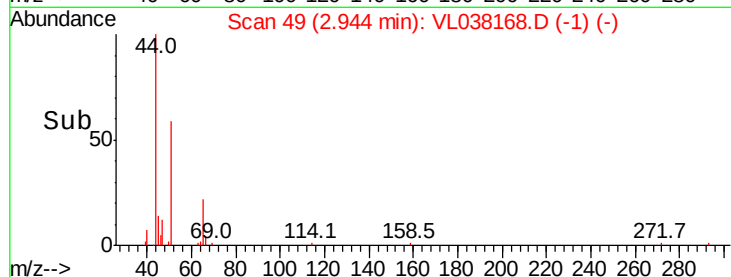
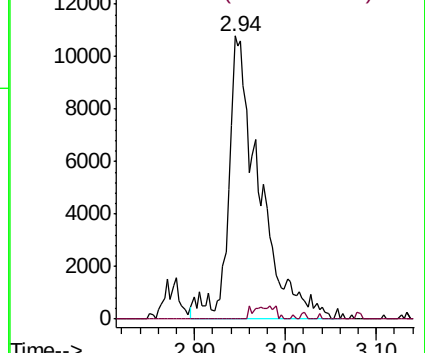
51 100

67 3.3 13.8 20.8#



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: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL038168.D

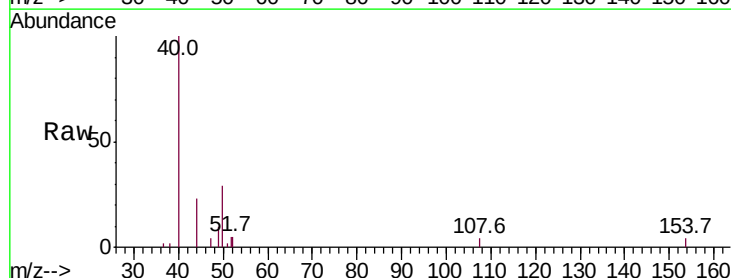
Acq: 14 Dec 2021 16:07

Tgt Ion: 50 Resp: 2336

Ion Ratio Lower Upper

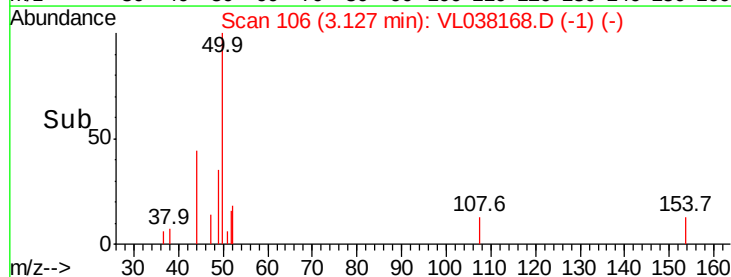
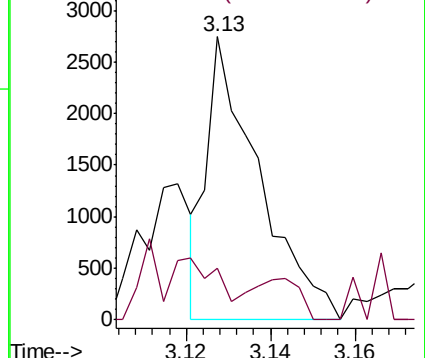
50 100

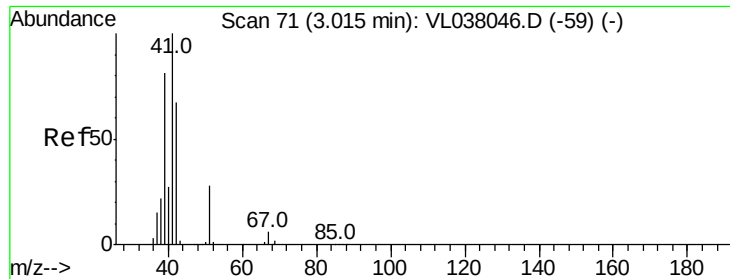
52 18.1 25.4 38.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.124 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

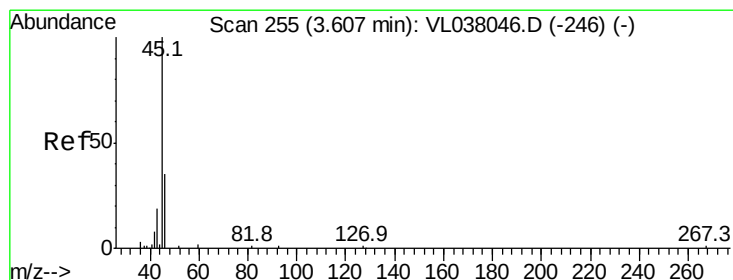
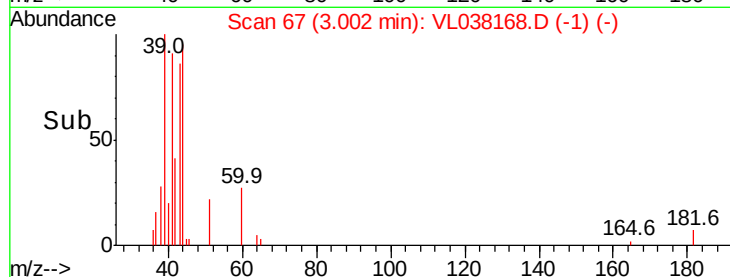
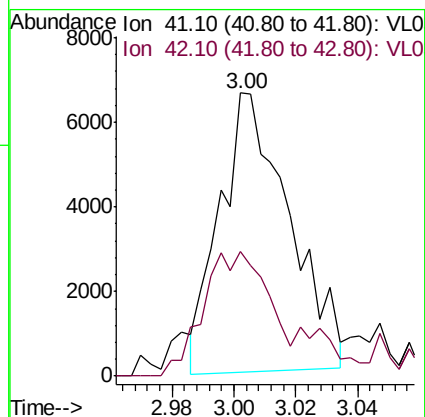
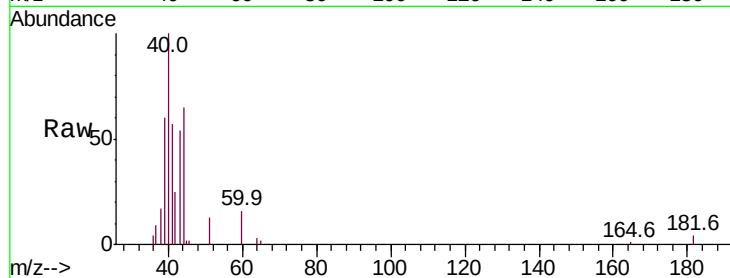
Acq: 14 Dec 2021 16:07

Tot Ion: 41 Resp: 10329

Ion Ratio Lower Upper

41 100

42 58.5 53.8 80.8



#13

Ethanol

Concen: 12.654 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL038168.D

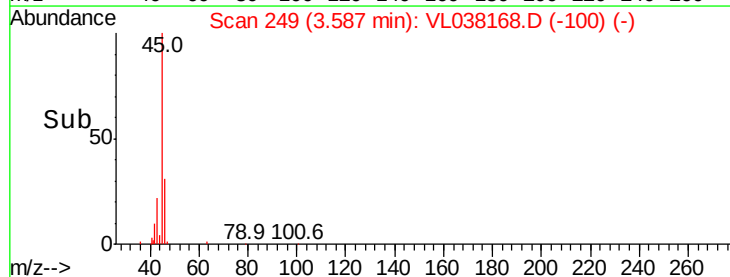
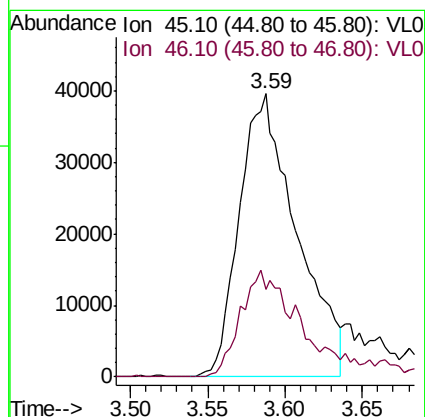
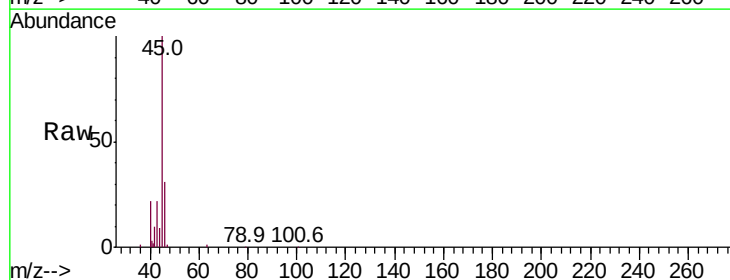
Acq: 14 Dec 2021 16:07

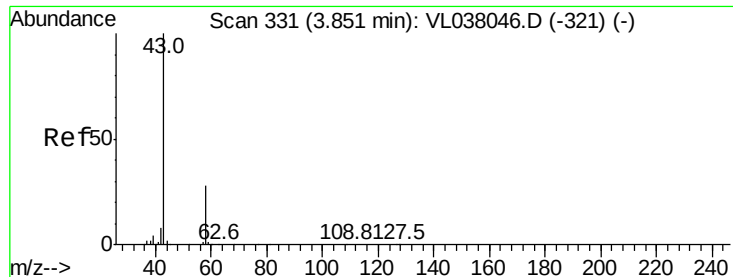
Tgt Ion: 45 Resp: 102000

Ion Ratio Lower Upper

45 100

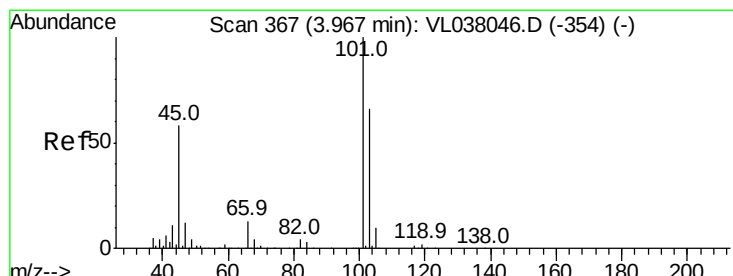
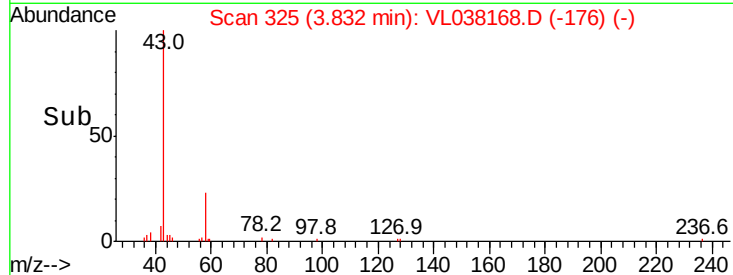
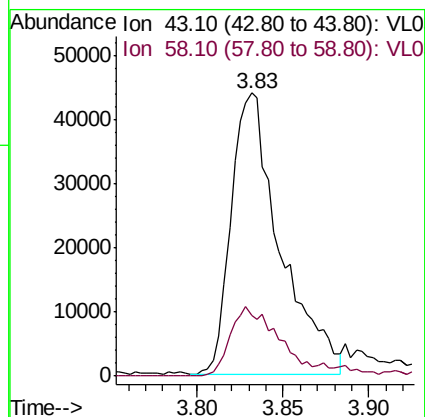
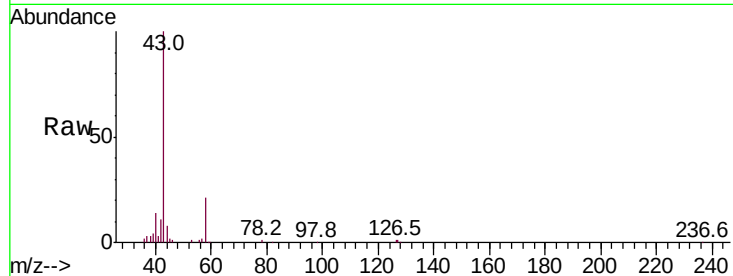
46 43.2 17.6 70.2





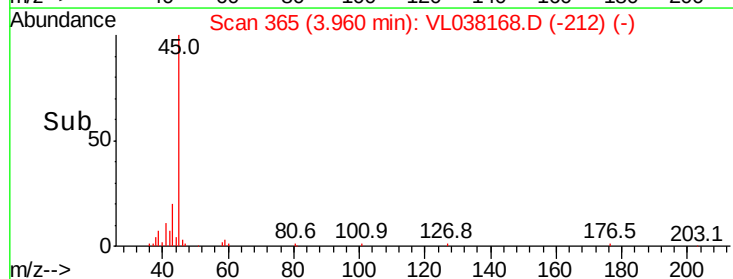
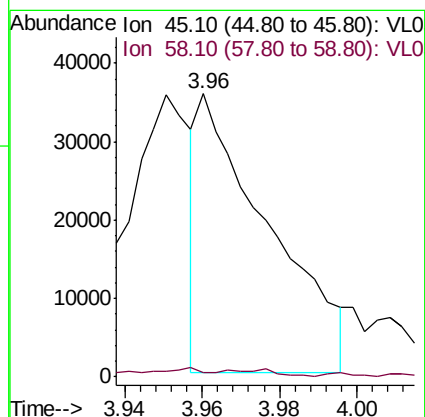
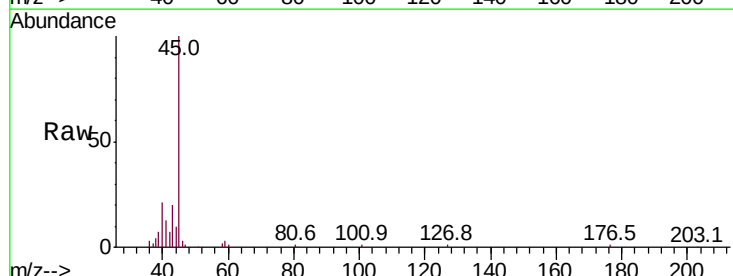
#15
Acetone
Concen: 0.930 ppbv
RT: 3.83
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 16:07

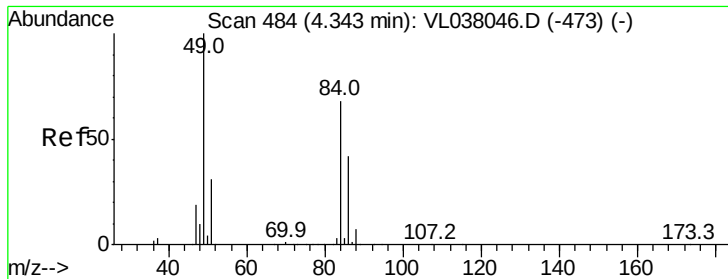
Tot Ion: 43 Resp: 86978
Ion Ratio Lower Upper
43 100
58 26.9 22.4 33.6



#19
Isopropyl Alcohol
Concen: 0.663 ppbv
RT: 3.96 min Scan# 365
Delta R.T. -0.01 min
Lab File: VL038168.D
Acq: 14 Dec 2021 16:07

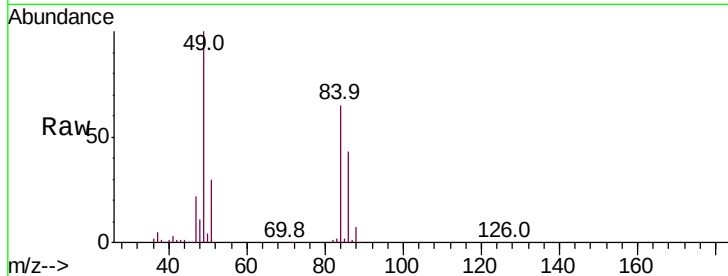
Tgt Ion: 45 Resp: 44820
Ion Ratio Lower Upper
45 100
58 8.5 1.4 2.0#





#20
Methvlene Chloride
Concen: 10.022 ppbv
RT: 4.32
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 16:07

Tot Ion:	84	Resp:	524931
Ion	Ratio	Lower	Upper
84	100		
49	154.0	118.2	177.2
51	46.7	36.8	55.2
86	65.5	49.0	73.6



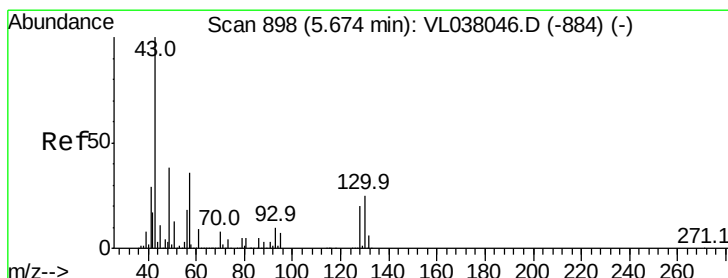
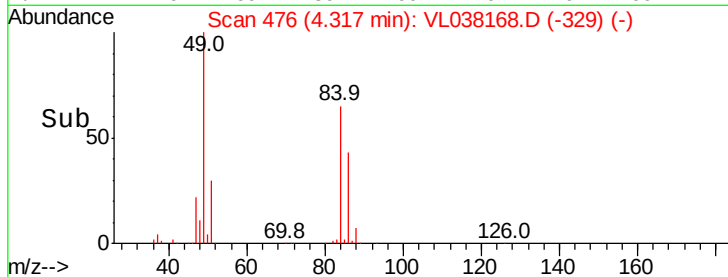
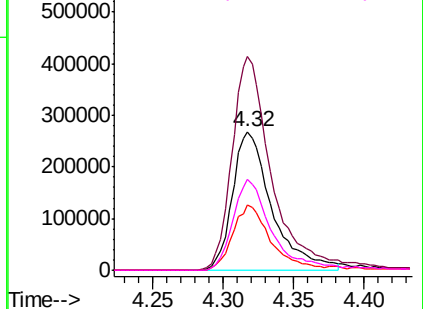
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

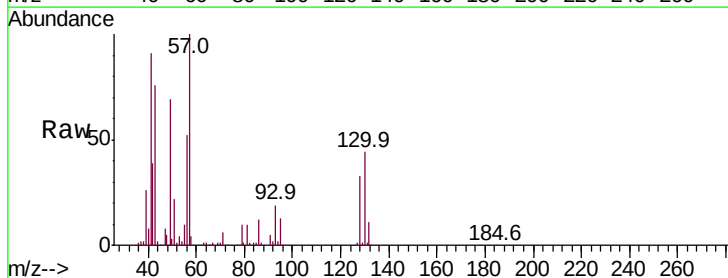
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 1.132 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL038168.D
Acq: 14 Dec 2021 16:07

Tgt Ion:	43	Resp:	351833
Ion	Ratio	Lower	Upper
43	100		
45	0.9	7.9	11.9#
61	0.8	7.8	11.6#
70	1.7	5.8	8.8#



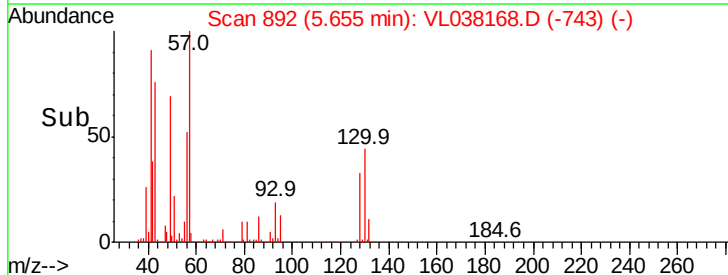
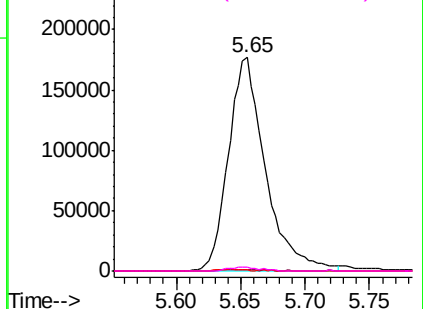
Abundance

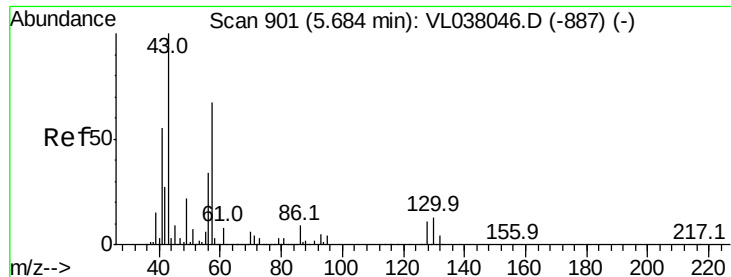
Ion 43.10 (42.80 to 43.80): VL0

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: 3.057 ppbv

RT: 5.65 Instrument:

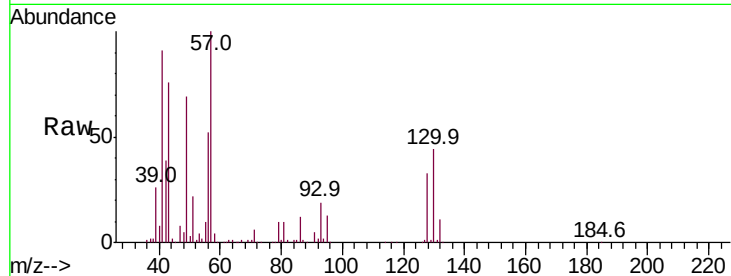
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 16:07

Tot Ion: 57 Resp: 457889

Ion	Ratio	Lower	Upper
57	100		
41	93.7	71.4	107.2
43	78.5	174.6	261.8#
56	55.6	43.2	64.8

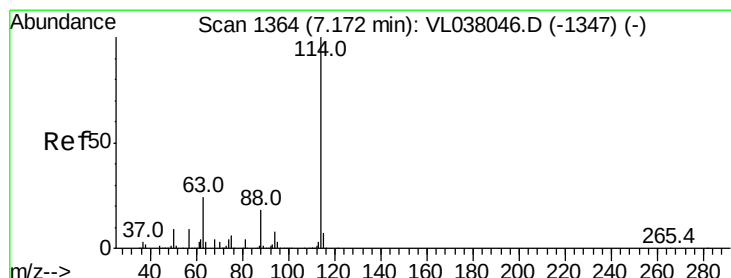
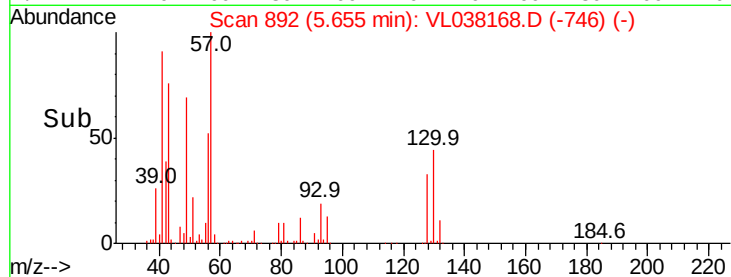
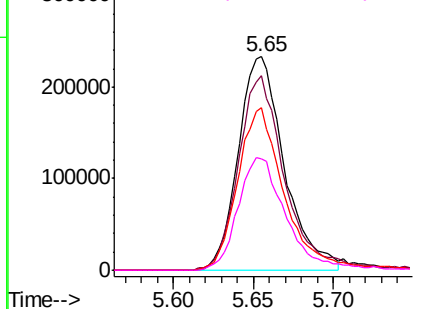


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.14 min Scan# 1353

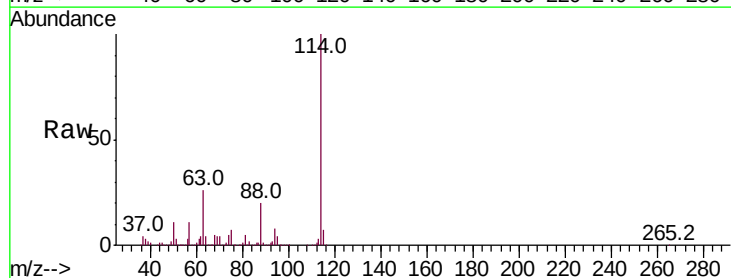
Delta R.T. -0.04 min

Lab File: VL038168.D

Acq: 14 Dec 2021 16:07

Tgt Ion: 114 Resp: 2794824

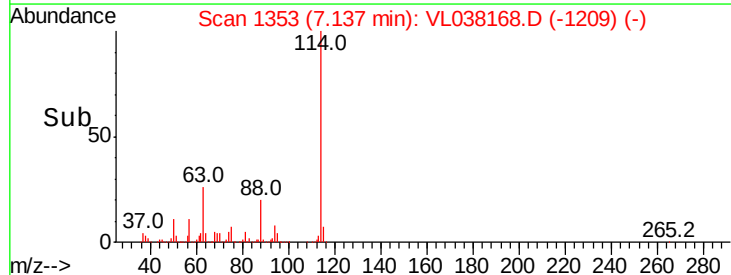
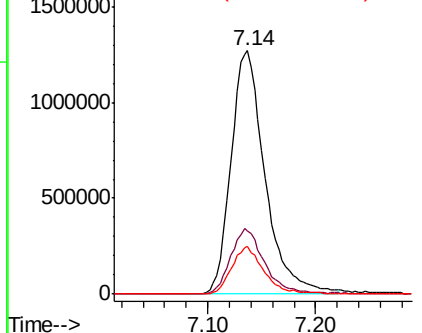
Ion	Ratio	Lower	Upper
114	100		
63	27.2	19.7	29.5
88	19.1	14.4	21.6

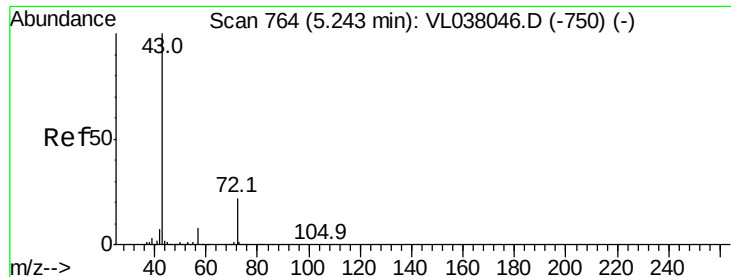


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

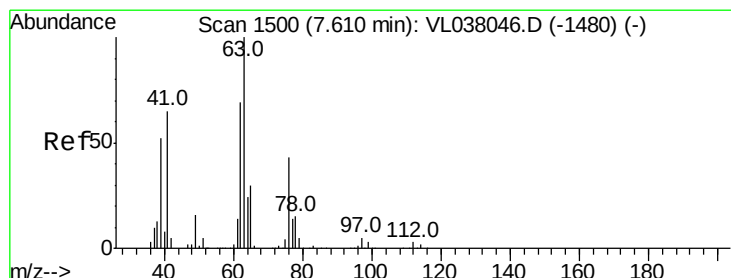
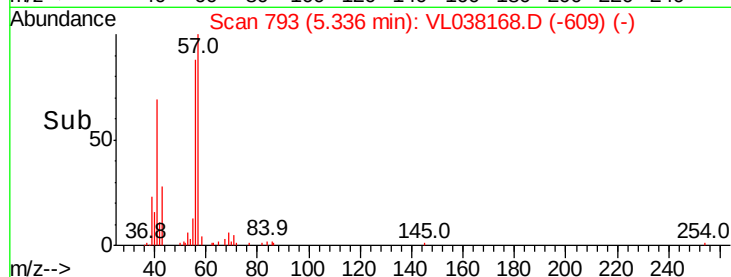
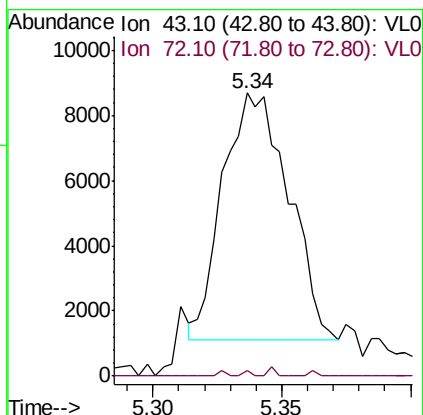
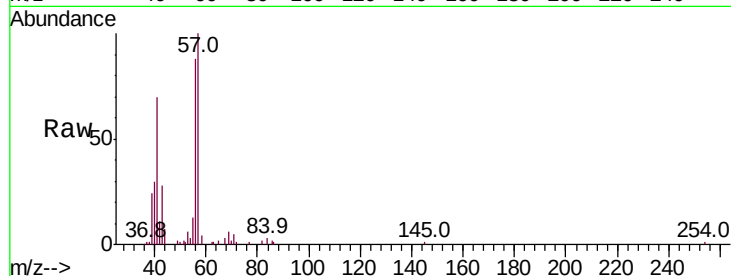
Ion 88.10 (87.80 to 88.80): VL0





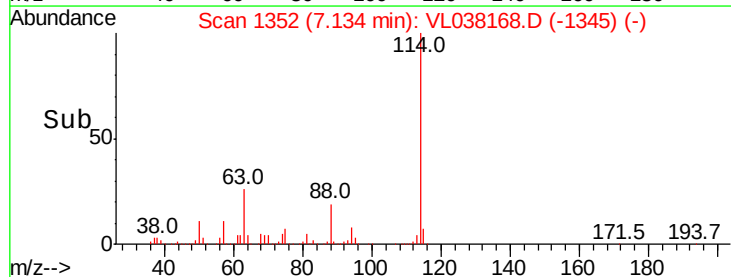
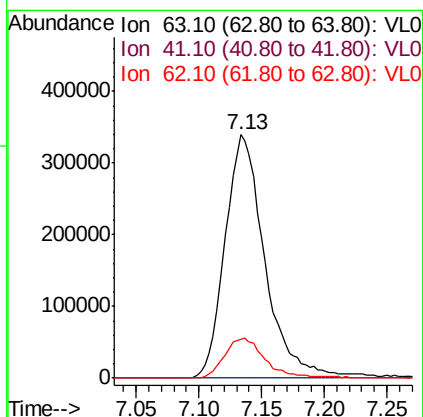
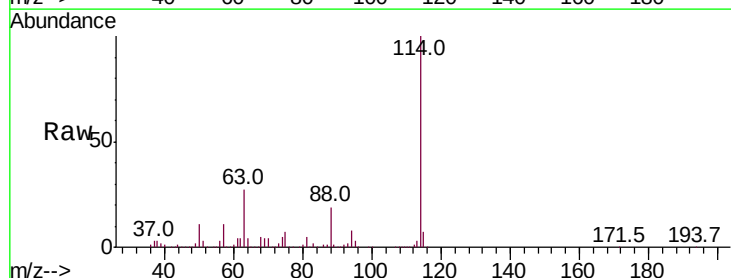
#34
2-Butanone
Concen: 0.119 ppbv
RT: 5.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 16:07

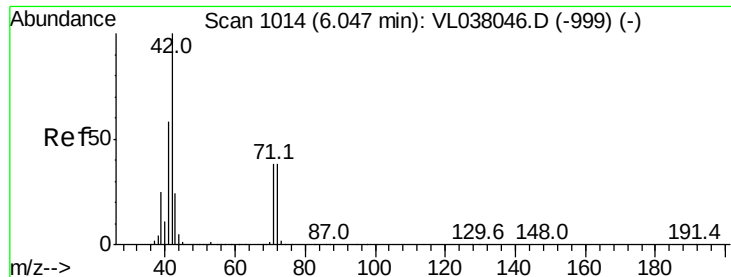
Tot Ion: 43 Resp: 13432
Ion Ratio Lower Upper
43 100
72 1.1 18.8 28.2#



#39
1,2-Dichloropropane
Concen: 6.943 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.48 min
Lab File: VL038168.D
Acq: 14 Dec 2021 16:07

Tgt Ion: 63 Resp: 742521
Ion Ratio Lower Upper
63 100
41 0.0 52.3 78.5#
62 15.7 55.1 82.7#





#41

Tetrahydrofuran

Concen: 0.181 ppbv

RT: 6.28 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 16:07

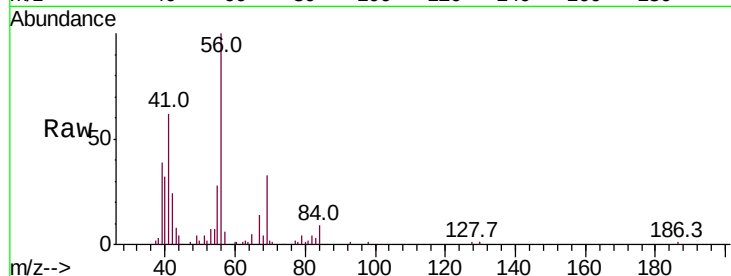
Tot Ion: 42 Resp: 12640

Ion Ratio Lower Upper

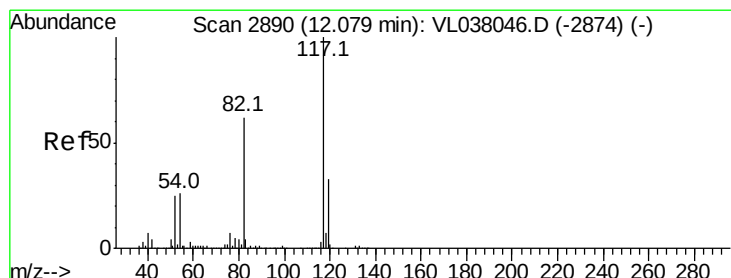
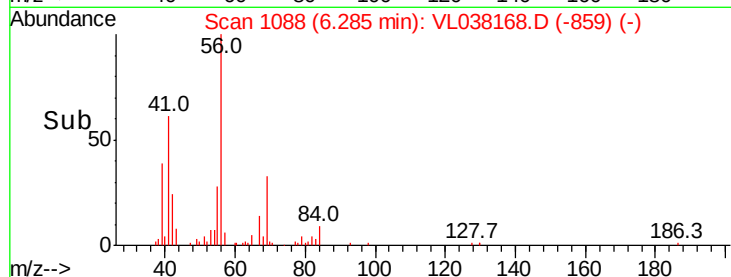
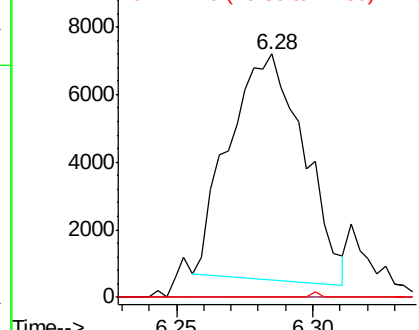
42 100

72 0.0 31.7 47.5#

71 0.0 30.6 46.0#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.04 min Scan# 2878

Delta R.T. -0.04 min

Lab File: VL038168.D

Acq: 14 Dec 2021 16:07

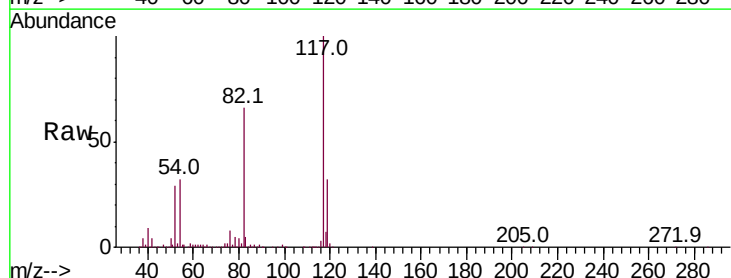
Tgt Ion: 117 Resp: 2406459

Ion Ratio Lower Upper

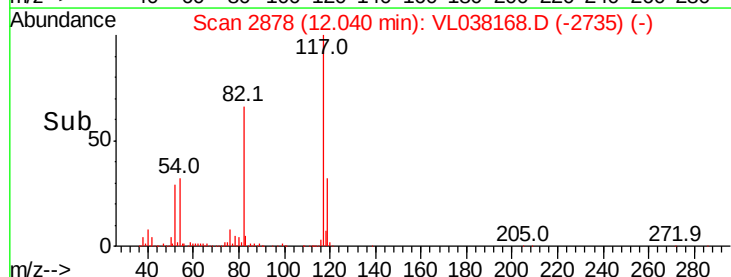
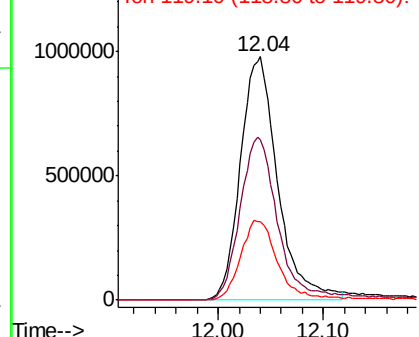
117 100

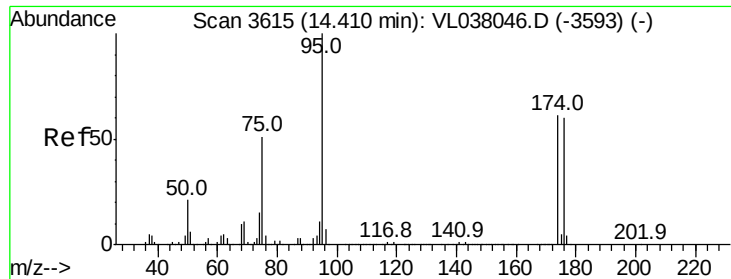
82 71.9 52.8 79.2

119 33.7 26.8 40.2



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: 10.384 ppbv

RT: 14.37

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 18:07

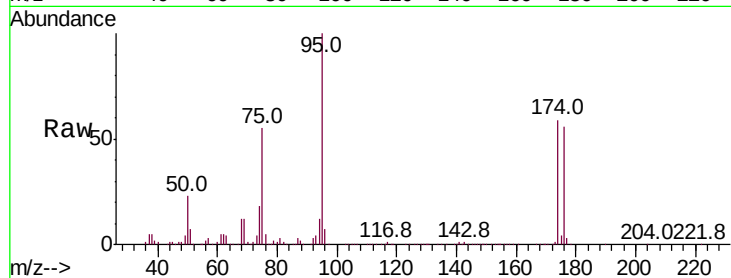
Tot Ion: 95 Resp: 1802474

Ion Ratio Lower Upper

95 100

174 65.5 53.1 79.7

175 4.4 4.0 6.0



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

