

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110121\
 Data File : VL037947.D
 Acq On : 1 Nov 2021 20:55
 Operator : SY/AP
 Sample : M4426-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Nov 02 06:07:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1579006	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4396004	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3876217	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2722541	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

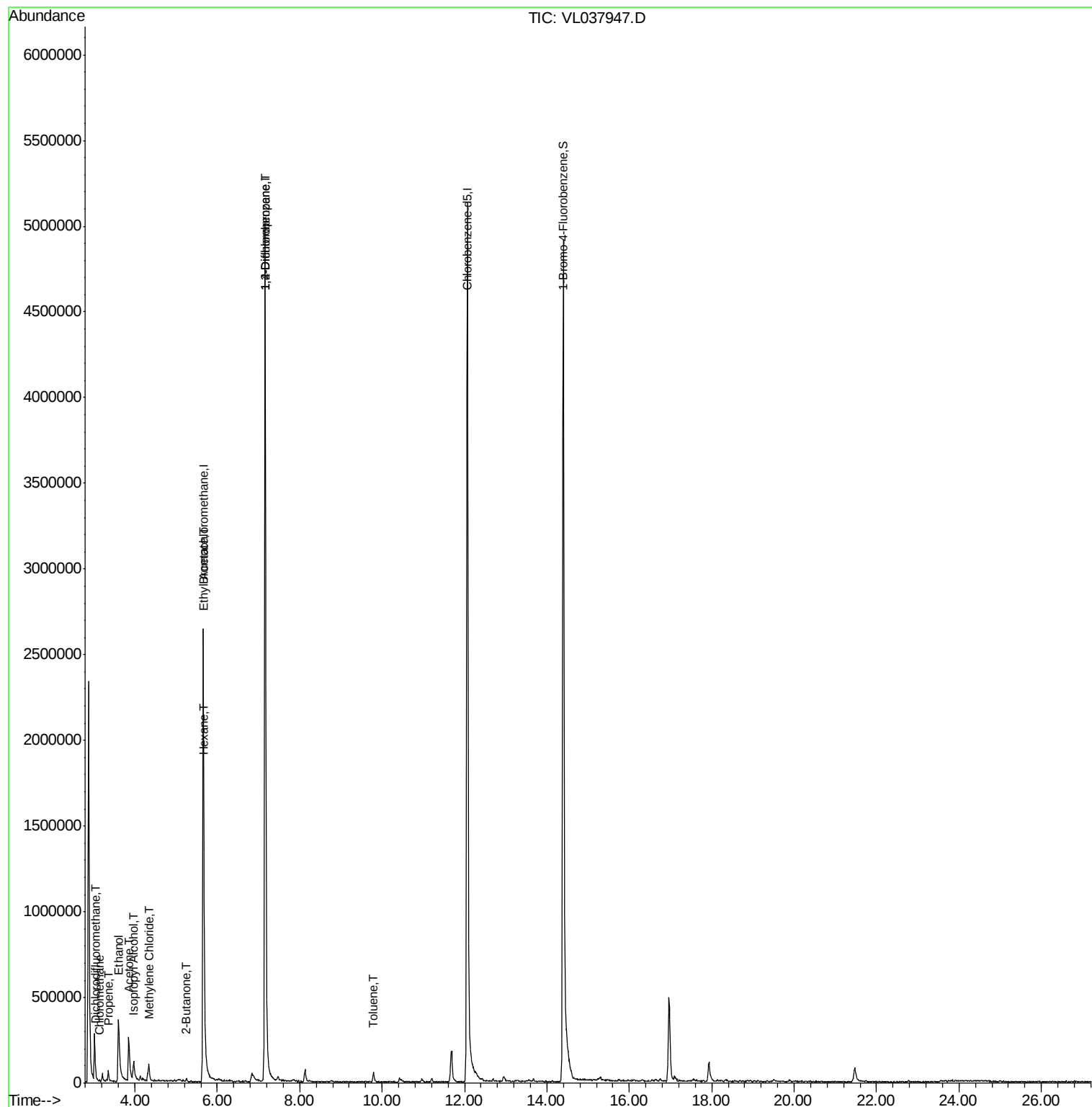
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	10569	0.048	ppbv #	75
4) Chloromethane	3.14	50	3477	0.031	ppbv #	59
9) Propene	3.35	41	14311	0.136	ppbv	87
13) Ethanol	3.60	45	529815	49.831	ppbv	100
15) Acetone	3.85	43	327972	2.514	ppbv	100
19) Isopropyl Alcohol	3.97	45	123001	1.474	ppbv #	90
20) Methylene Chloride	4.34	84	32152	0.449	ppbv #	77
25) Ethyl Acetate	5.67	43	81735	0.211	ppbv #	86
26) Hexane	5.68	57	12263	0.067	ppbv #	1
34) 2-Butanone	5.24	43	10797	0.066	ppbv #	53
39) 1,2-Dichloropropane	7.16	63	1031497	7.658	ppbv #	28
53) Toluene	9.78	91	17426	0.045	ppbv #	1

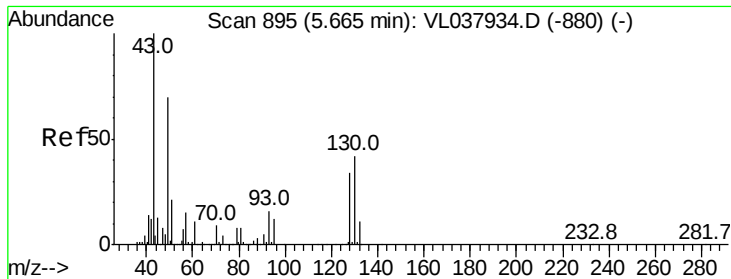
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 02 06:07:10 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 02 05:54:07 2021
QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DL

Acq: 1 Nov 2021 20:55

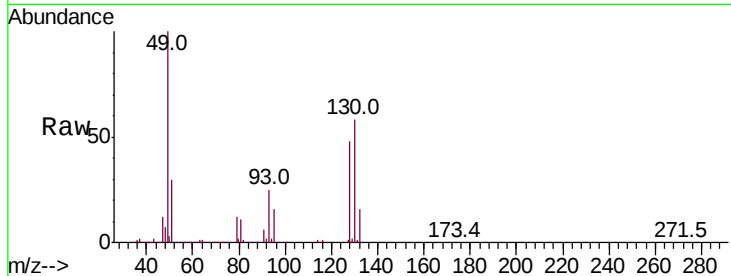
Tot Ion: 49 Resp: 1579006

Ion Ratio Lower Upper

49 100

128 51.4 27.0 81.0

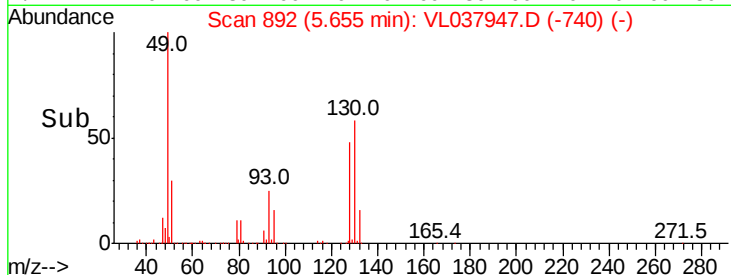
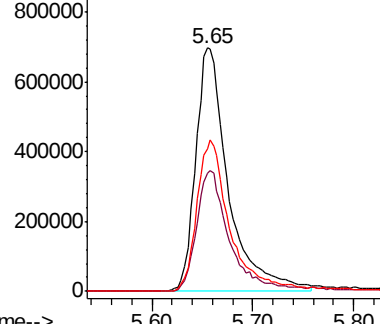
130 63.1 33.4 100.2



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: 0.048 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL037947.D

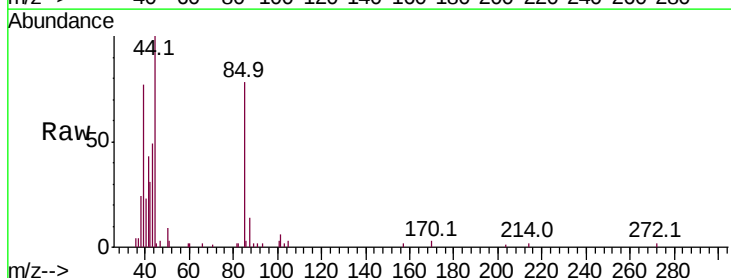
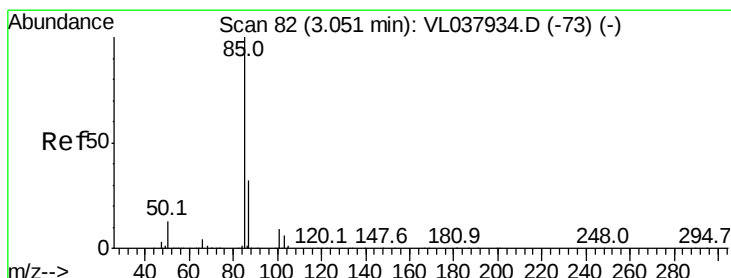
Acq: 1 Nov 2021 20:55

Tgt Ion: 85 Resp: 10569

Ion Ratio Lower Upper

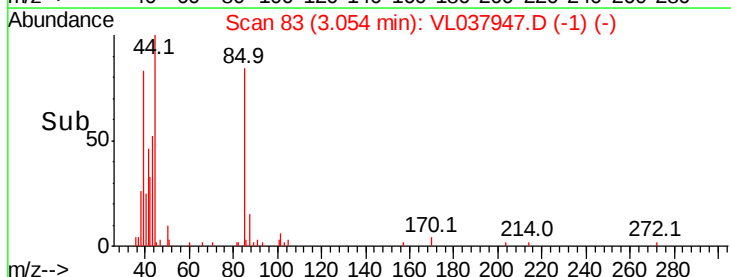
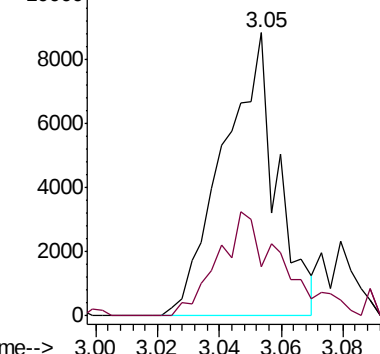
85 100

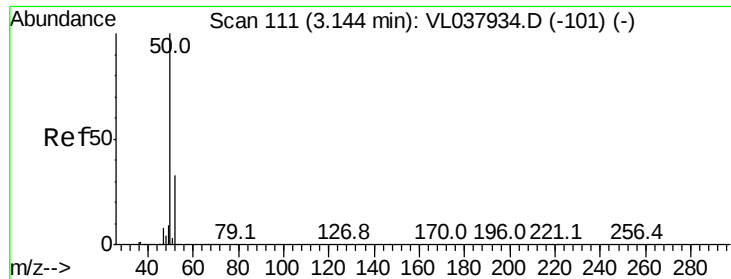
87 17.5 25.3 37.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.031 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

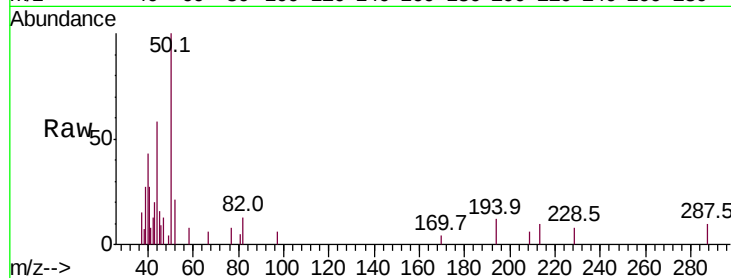
Acq: 1 Nov 2021 20:55

Tot Ion: 50 Resp: 3477

Ion Ratio Lower Upper

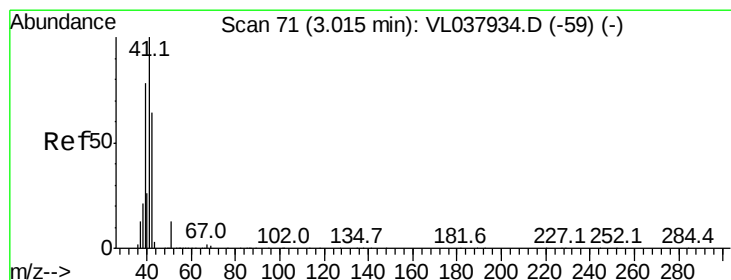
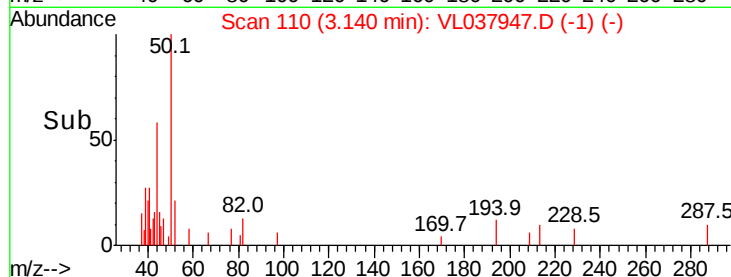
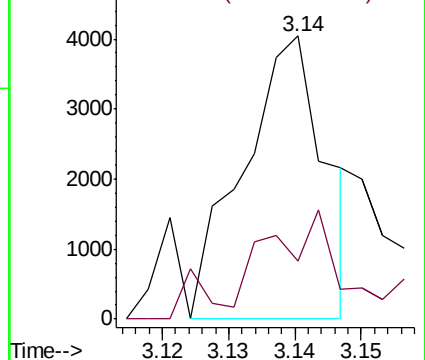
50 100

52 10.0 26.3 39.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.136 ppbv

RT: 3.35 min Scan# 176

Delta R.T. 0.34 min

Lab File: VL037947.D

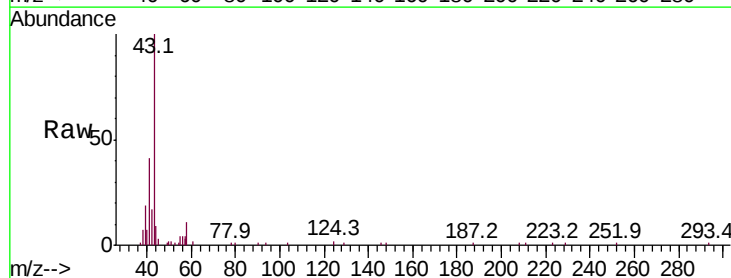
Acq: 1 Nov 2021 20:55

Tgt Ion: 41 Resp: 14311

Ion Ratio Lower Upper

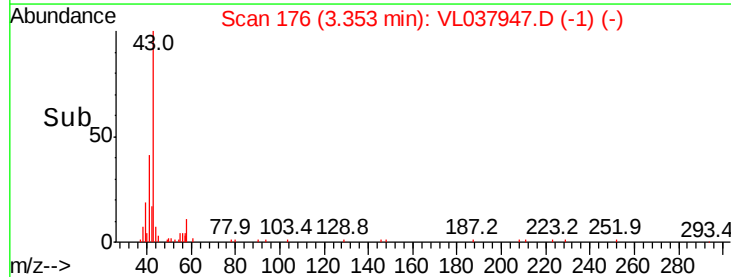
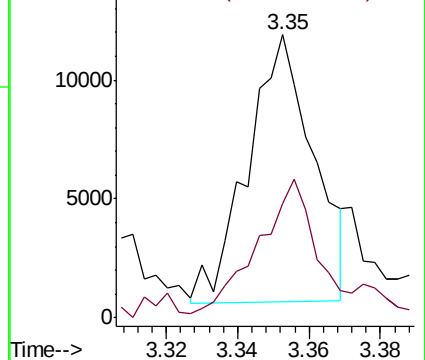
41 100

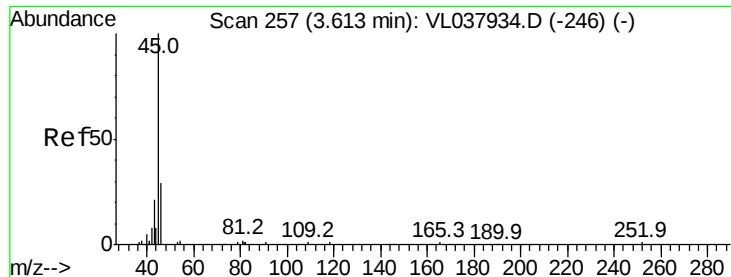
42 60.9 57.6 86.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

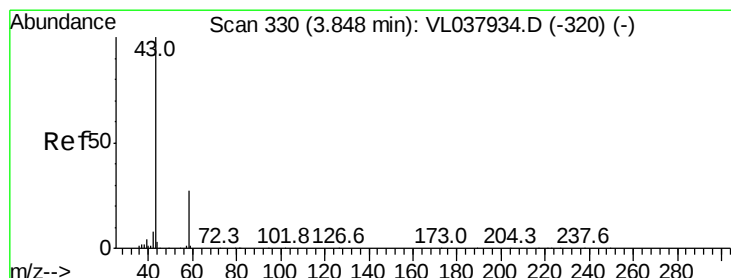
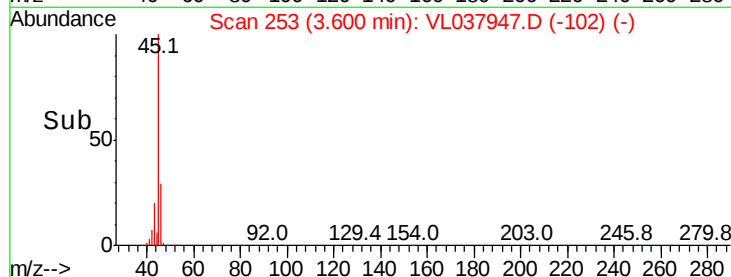
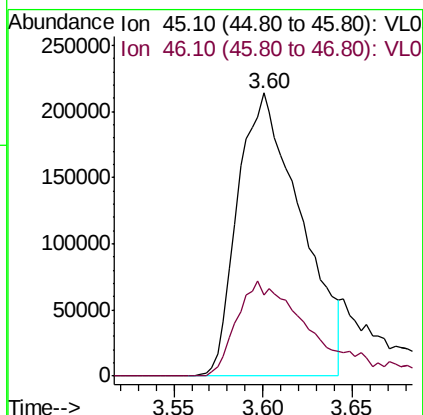
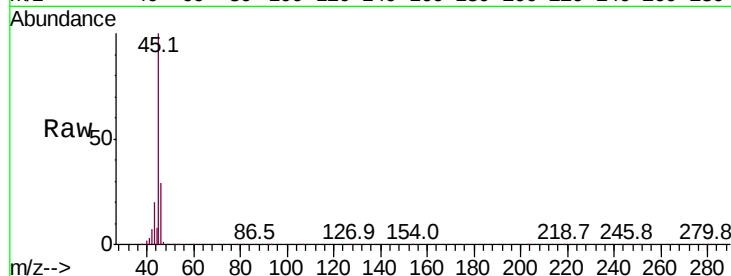
Ion 42.10 (41.80 to 42.80): VL0





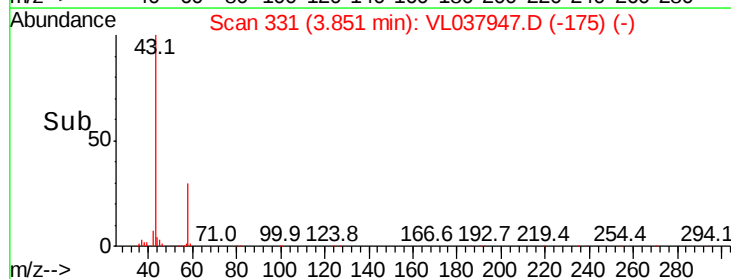
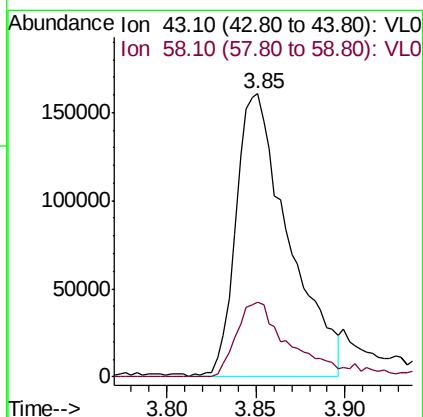
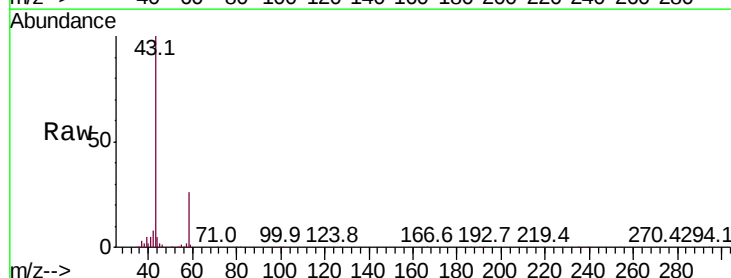
#13
Ethanol
Concen: 49.831 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Nov 2021 20:55

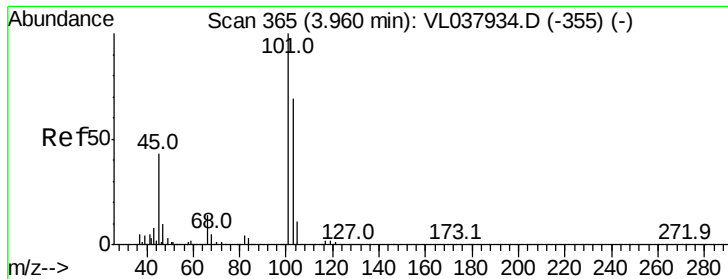
Tot Ion: 45 Resp: 529815
Ion Ratio Lower Upper
45 100
46 43.8 17.4 69.8



#15
Acetone
Concen: 2.514 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL037947.D
Acq: 1 Nov 2021 20:55

Tgt Ion: 43 Resp: 327972
Ion Ratio Lower Upper
43 100
58 29.1 23.3 34.9





#19

Isopropyl Alcohol

Concen: 1.474 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

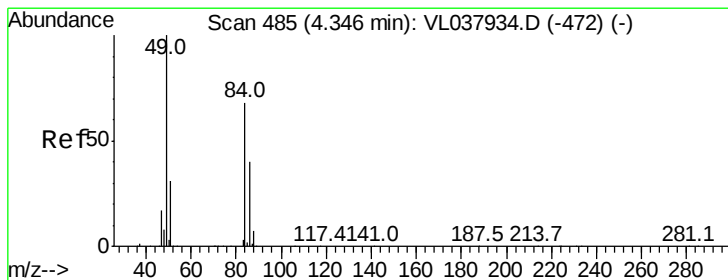
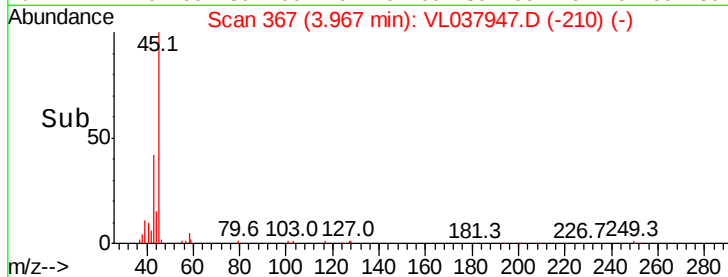
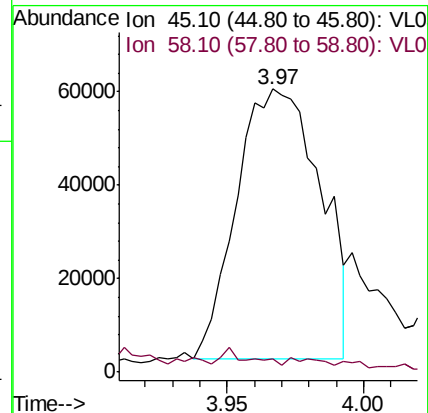
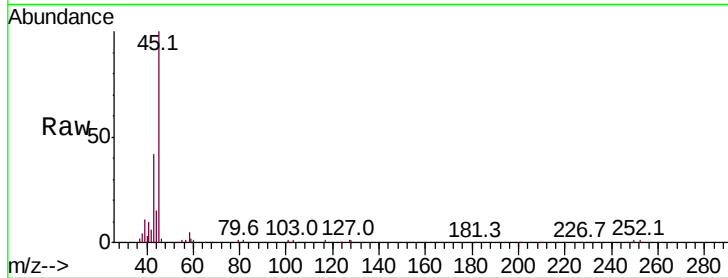
Acq: 1 Nov 2021 20:55

Tot Ion: 45 Resp: 123001

Ion Ratio Lower Upper

45 100

58 8.4 4.0 6.0#



#20

Methylene Chloride

Concen: 0.449 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037947.D

Acq: 1 Nov 2021 20:55

Tgt Ion: 84 Resp: 32152

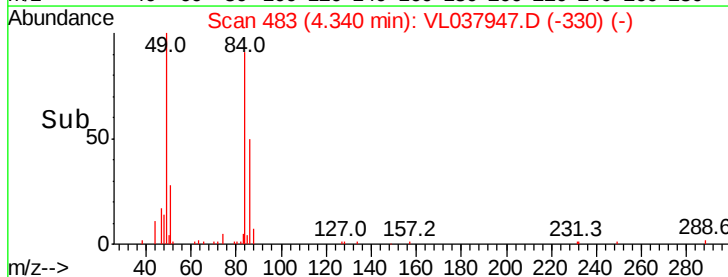
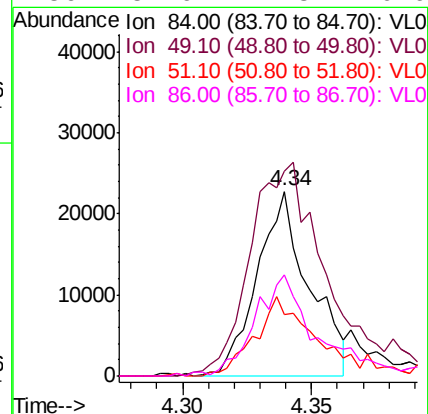
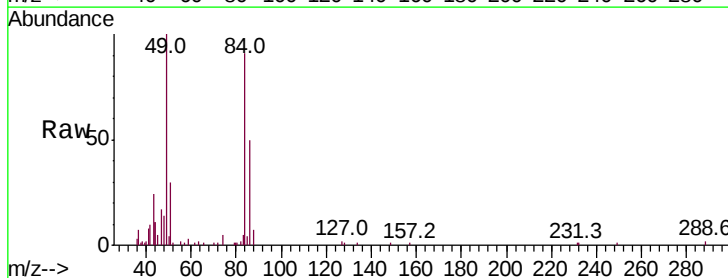
Ion Ratio Lower Upper

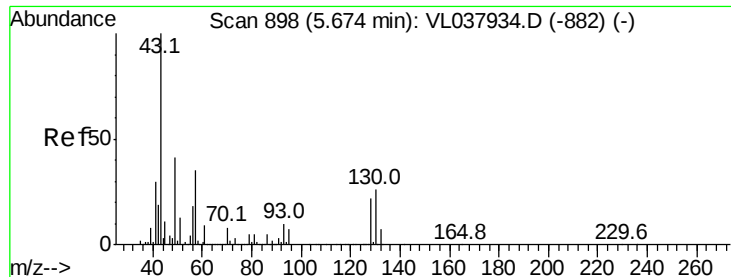
84 100

49 108.3 117.5 176.3#

51 32.9 35.9 53.9#

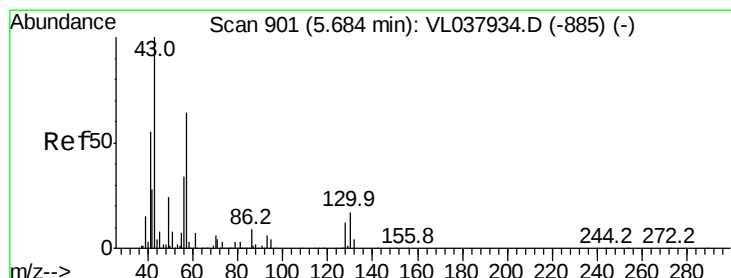
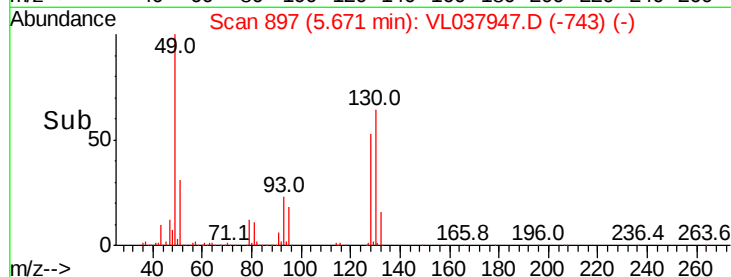
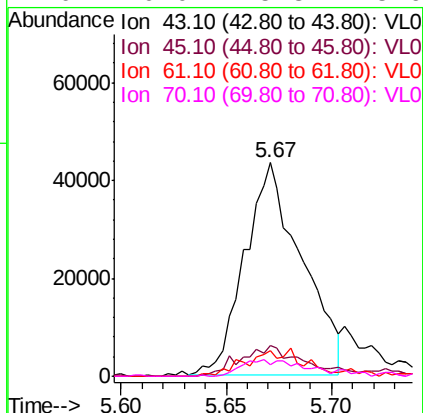
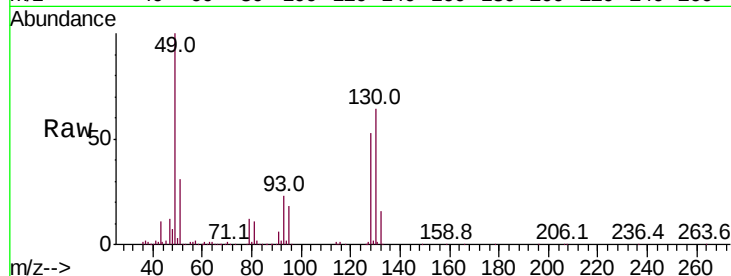
86 52.9 47.3 70.9





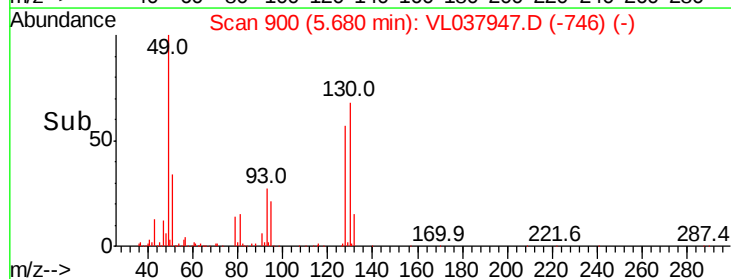
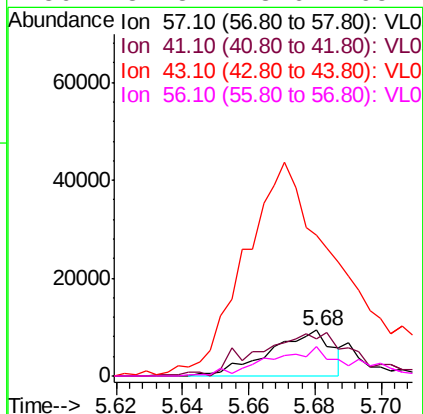
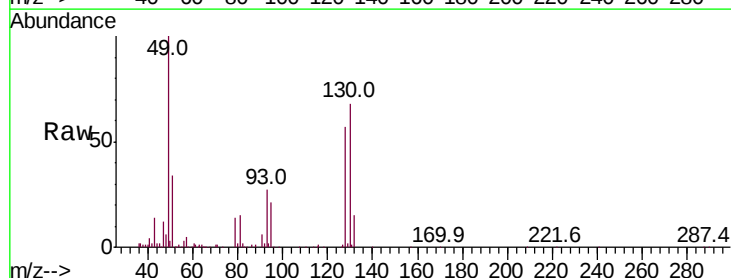
#25
Ethyl Acetate
Concen: 0.211 ppbv
RT: 5.67 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Nov 2021 20:55

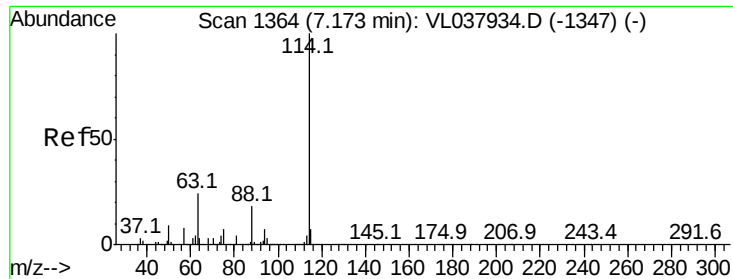
Tot Ion	43	Resp	81735
Ion Ratio	Lower	Upper	
43	100		
45	18.2	8.1	12.1#
61	14.2	8.1	12.1#
70	10.0	5.8	8.6#



#26
Hexane
Concen: 0.067 ppbv
RT: 5.68 min Scan# 900
Delta R.T.: -0.00 min
Lab File: VL037947.D
Acq: 1 Nov 2021 20:55

Tgt Ion	57	Resp	12263
Ion Ratio	Lower	Upper	
57	100		
41	170.1	71.0	106.6#
43	780.7	173.0	259.6#
56	84.8	43.6	65.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16

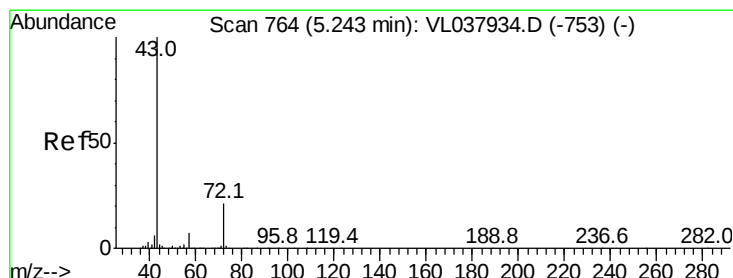
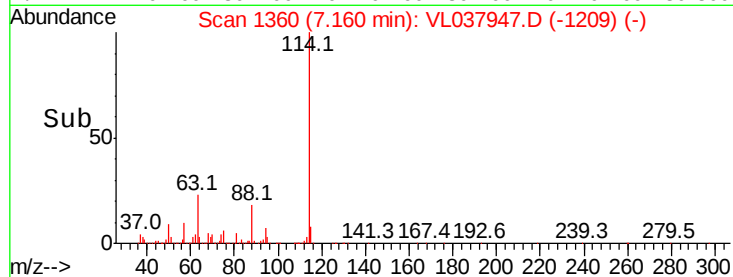
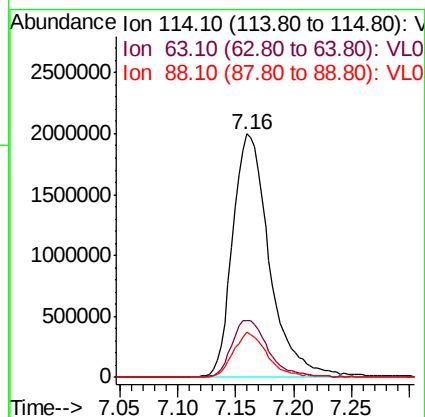
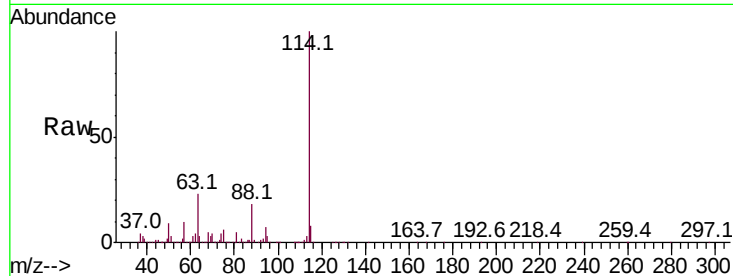
Delta R.T. MSVOA_L

Lab File: ClientSampleId : IA1DL

Acq: 1 Nov 2021 20:55

Tot Ion:114 Resp: 4396004

Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.4	29.0
88	17.7	14.2	21.4



#34

2-Butanone

Concen: 0.066 ppbv

RT: 5.24 min Scan# 763

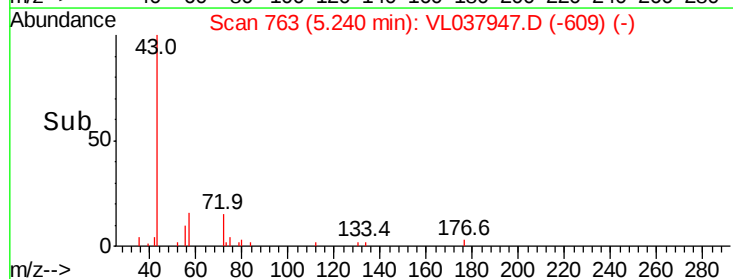
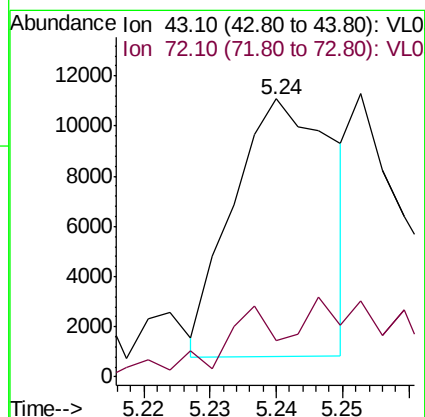
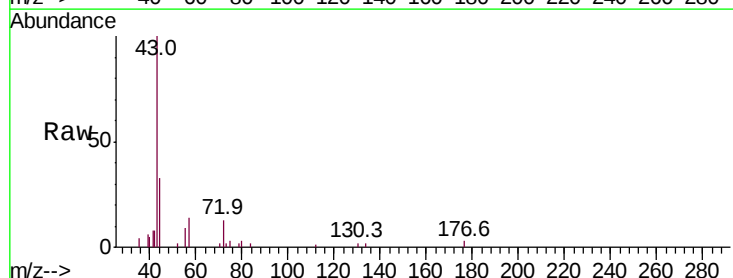
Delta R.T. -0.00 min

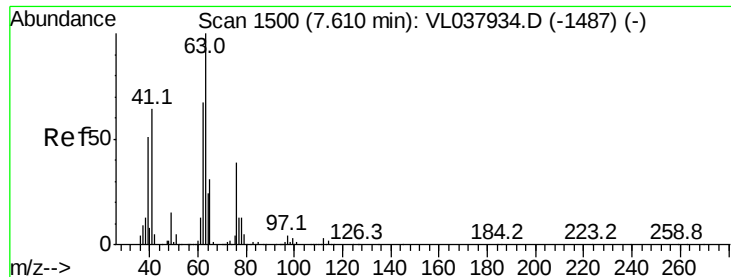
Lab File: VL037947.D

Acq: 1 Nov 2021 20:55

Tgt Ion: 43 Resp: 10797

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.3	27.5#





#39

1,2-Dichloropropane

Concen: 7.658 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 1 Nov 2021 20:55

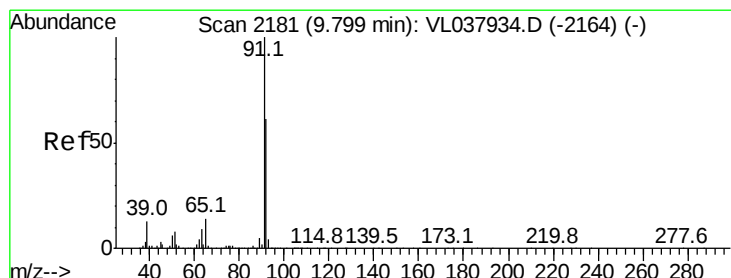
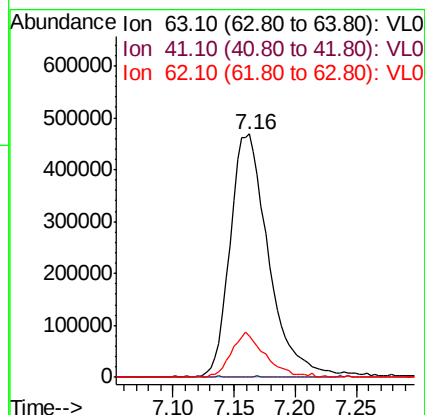
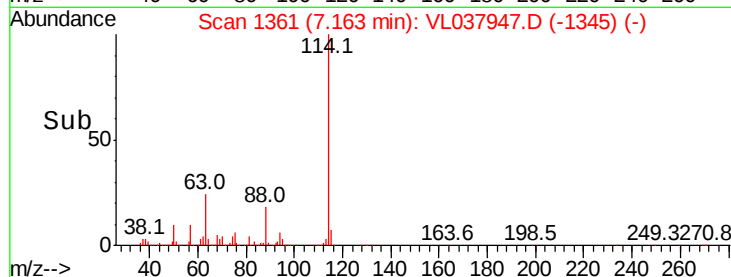
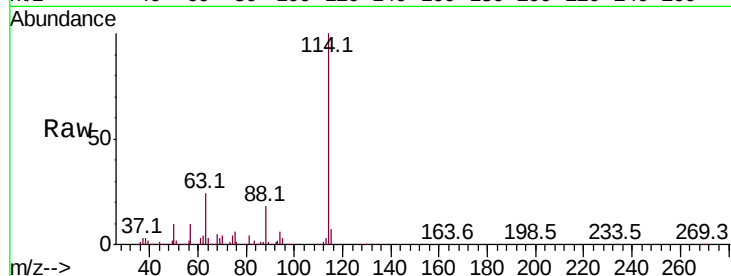
Tot Ion: 63 Resp: 1031497

Ion Ratio Lower Upper

63 100

41 0.0 51.6 77.4#

62 17.2 53.5 80.3#



#53

Toluene

Concen: 0.045 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.02 min

Lab File: VL037947.D

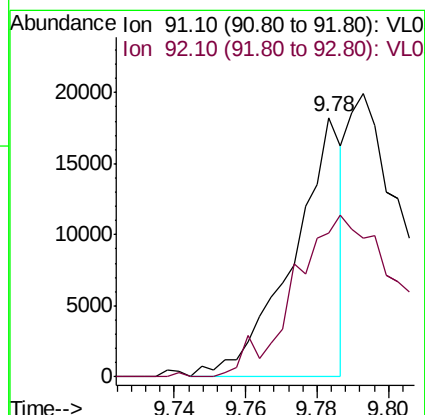
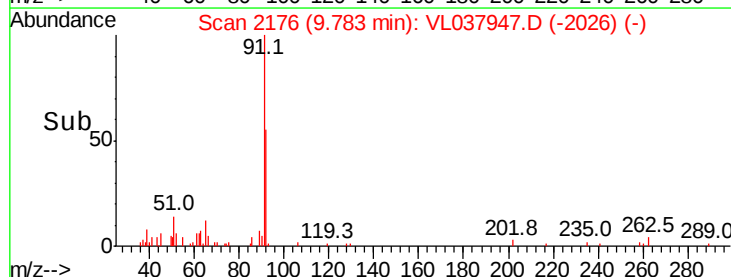
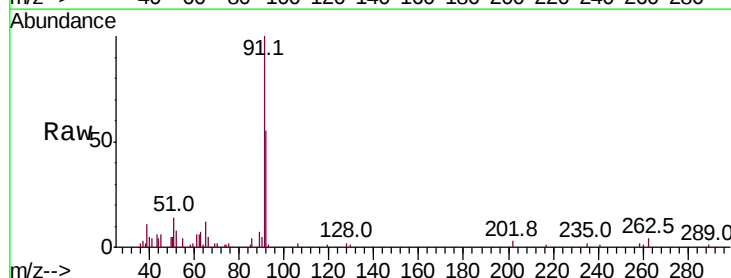
Acq: 1 Nov 2021 20:55

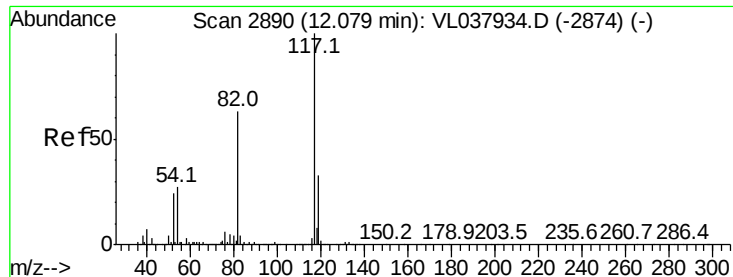
Tgt Ion: 91 Resp: 17426

Ion Ratio Lower Upper

91 100

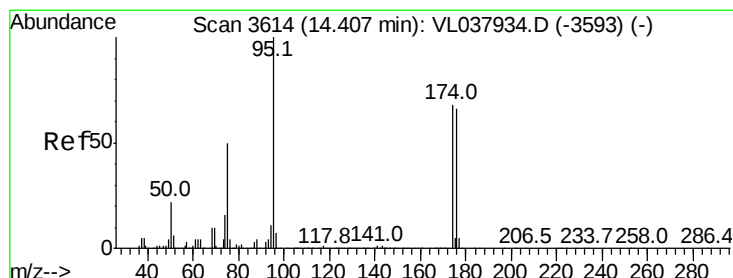
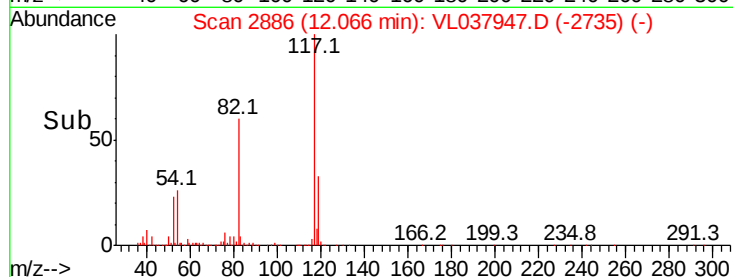
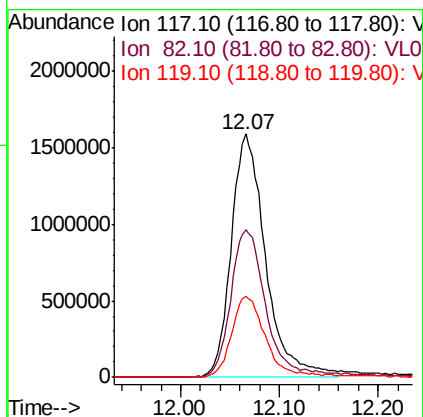
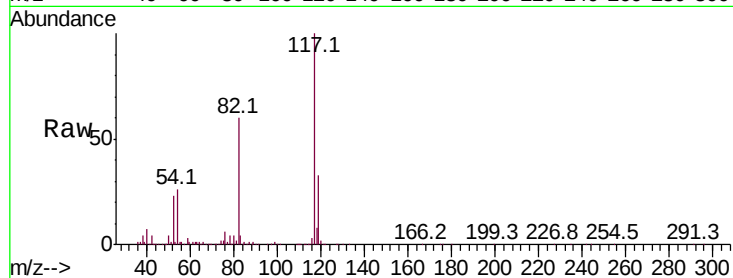
92 143.3 48.2 72.4#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 1 Nov 2021 20:55

Tot Ion: 117 Resp: 3876217
Ion Ratio Lower Upper
117 100
82 64.0 51.0 76.6
119 34.2 26.9 40.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.663 ppbv
RT: 14.40 min Scan# 3611
Delta R.T.: -0.01 min
Lab File: VL037947.D
Acq: 1 Nov 2021 20:55

Tgt Ion: 95 Resp: 2722541
Ion Ratio Lower Upper
95 100
174 75.7 58.3 87.5
175 5.6 4.6 6.8

