

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071322\
 Data File : VL039474.D
 Acq On : 13 Jul 2022 21:19
 Operator : SY/AP
 Sample : N3660-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-7DL

Quant Time: Jul 14 01:23:34 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1075447	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3124066	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	2801271	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2182926	10.50	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

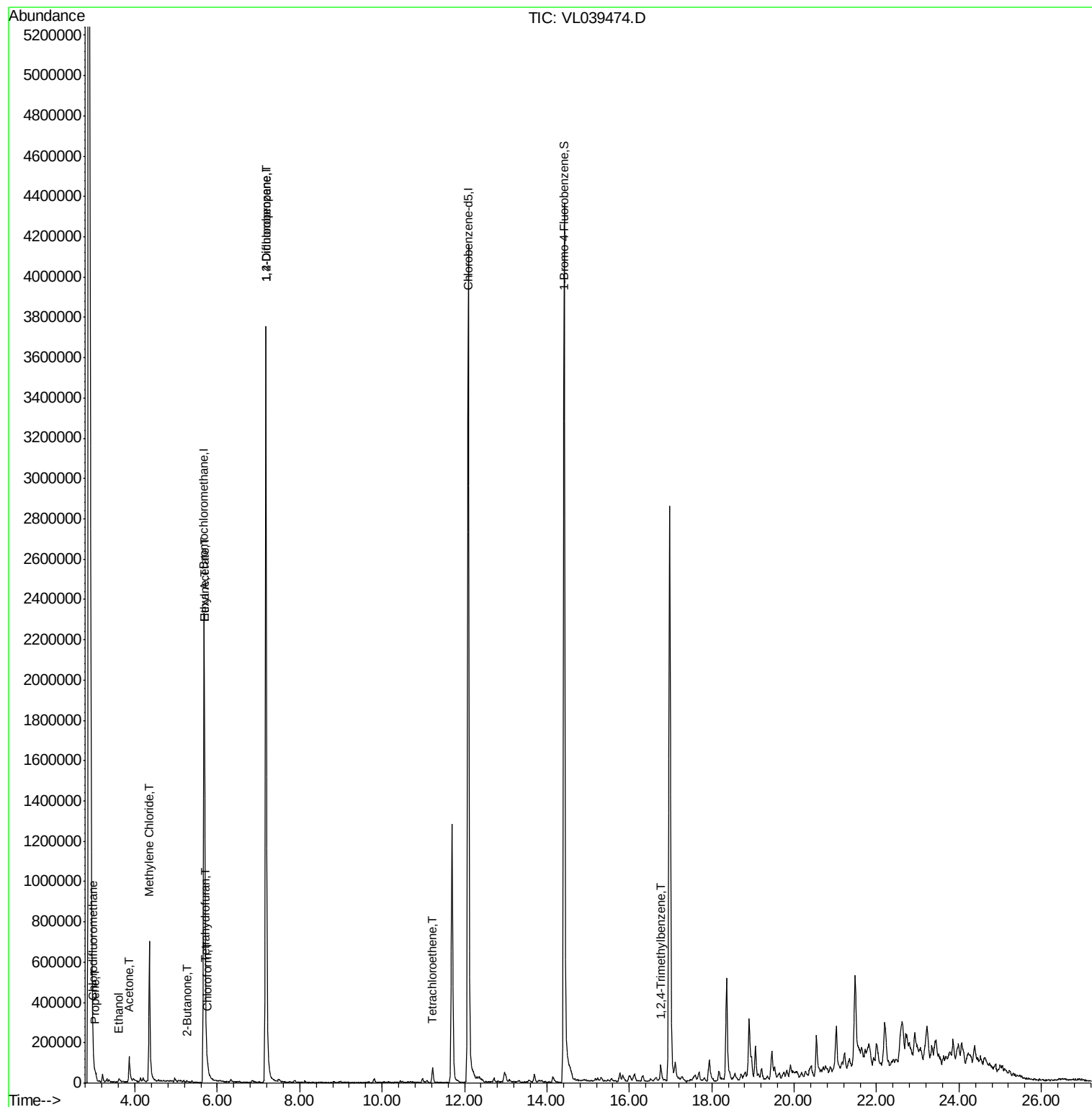
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.00	51	5123	0.04	ppbv	97
9) Propene	3.03	41	5774	0.09	ppbv #	68
13) Ethanol	3.61	45	6643	1.86	ppbv #	23
15) Acetone	3.85	43	152900	1.20	ppbv #	86
20) Methylene Chloride	4.35	84	278172	5.49	ppbv	94
25) Ethyl Acetate	5.69	43	273412	1.05	ppbv #	76
26) Hexane	5.69	57	385932	3.67	ppbv #	39
29) Chloroform	5.76	83	8238	0.05	ppbv	99
34) 2-Butanone	5.26	43	5462	0.03	ppbv #	25
39) 1,2-Dichloropropane	7.18	63	750408	8.31	ppbv #	25
41) Tetrahydrofuran	5.73	42	3507	0.04	ppbv #	39
52) Tetrachloroethene	11.22	164	14190	0.15	ppbv #	61
74) 1,2,4-Trimethylbenzene	16.77	105	17199	0.05	ppbv #	67

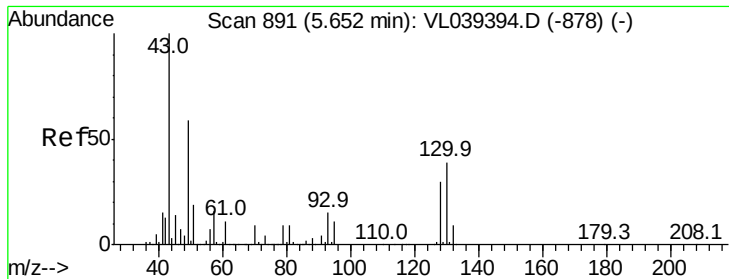
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Jul 2022 21:19 SG-7DL

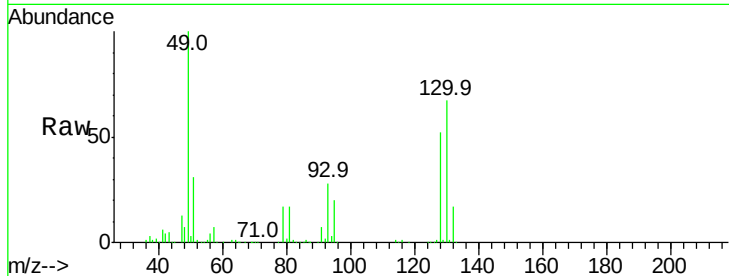
Tgt Ion: 49 Resp: 1075447

Ion Ratio Lower Upper

49 100

128 56.5 26.7 80.0

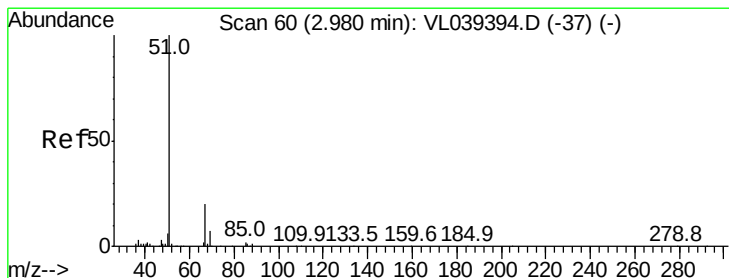
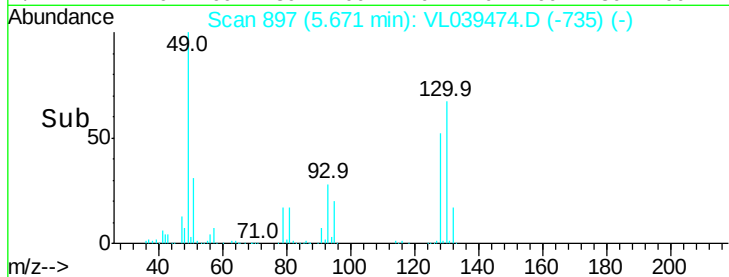
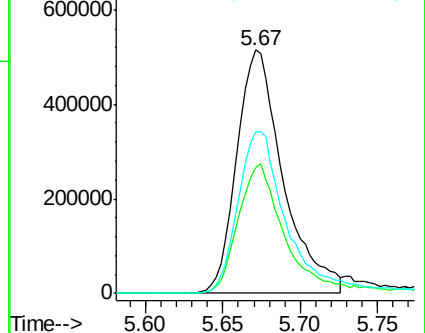
130 73.0 34.3 102.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.04 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL039474.D

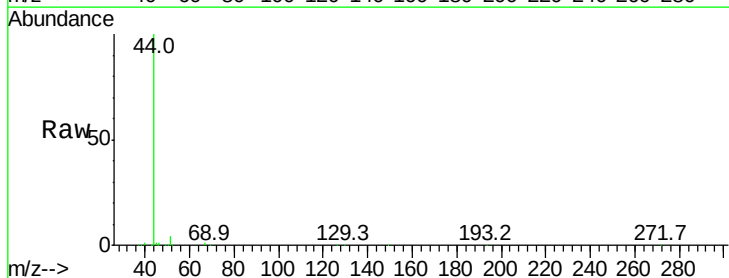
Acq: 13 Jul 2022 21:19

Tgt Ion: 51 Resp: 5123

Ion Ratio Lower Upper

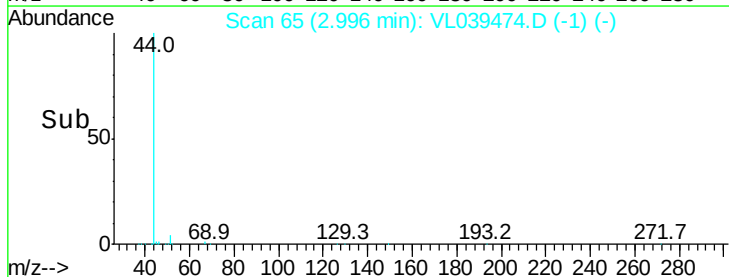
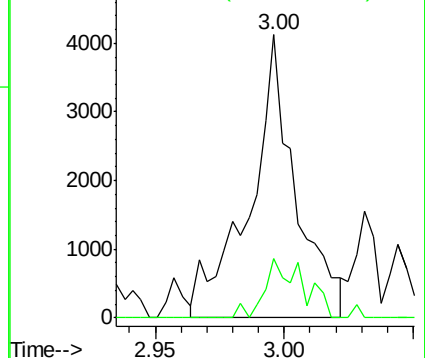
51 100

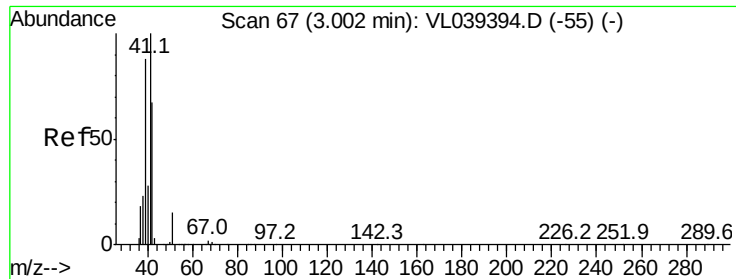
67 18.1 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.09 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-7DL

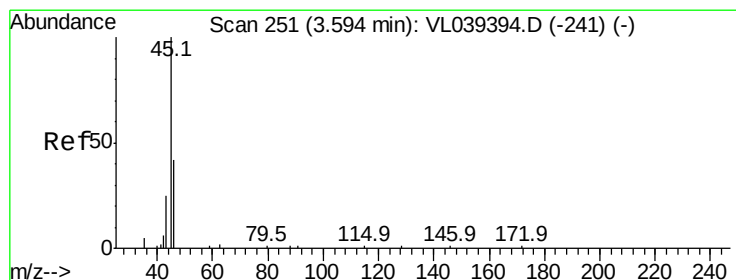
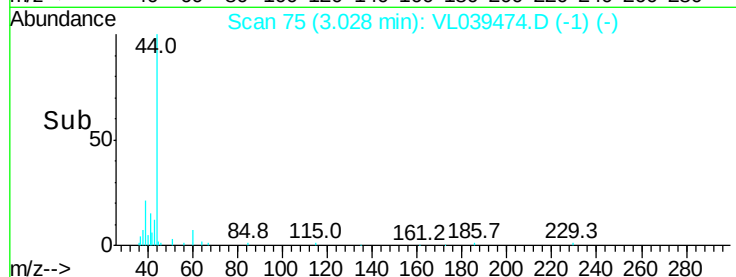
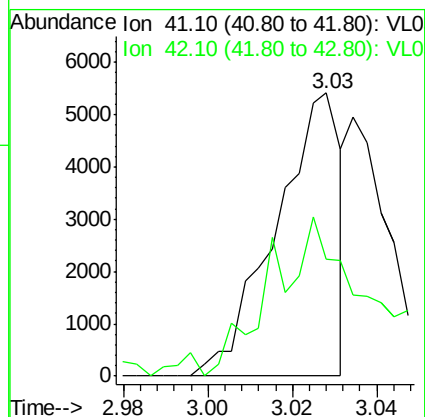
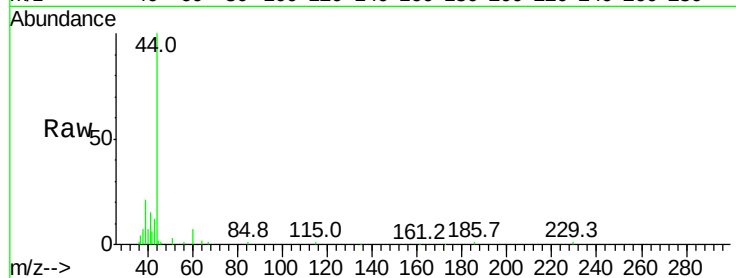
Acq: 13 Jul 2022 21:19

Tgt Ion: 41 Resp: 5774

Ion Ratio Lower Upper

41 100

42 95.2 55.2 82.8#



#13

Ethanol

Concen: 1.86 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL039474.D

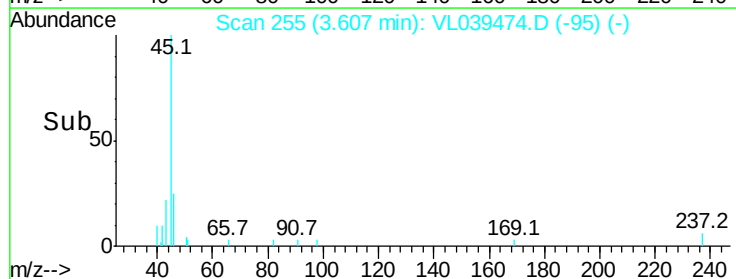
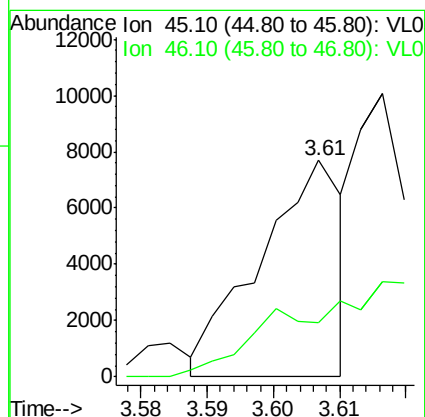
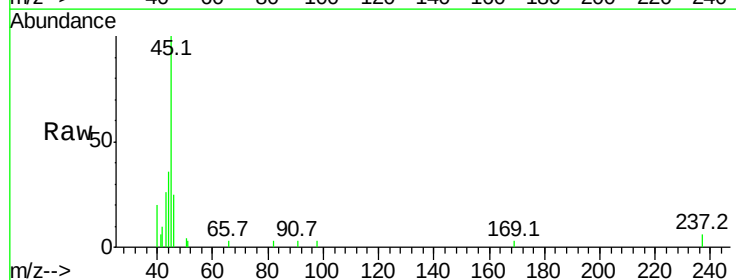
Acq: 13 Jul 2022 21:19

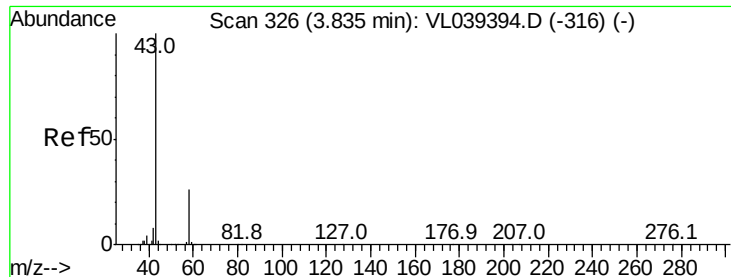
Tgt Ion: 45 Resp: 6643

Ion Ratio Lower Upper

45 100

46 0.0 22.8 91.2#





#15

Acetone

Concen: 1.20 ppbv

RT: 3.85

Delta R.T.

Lab File:

Acq: 13 Jul 2022 21:19

Instrument:

MSVOA_1

ClientSampleId:

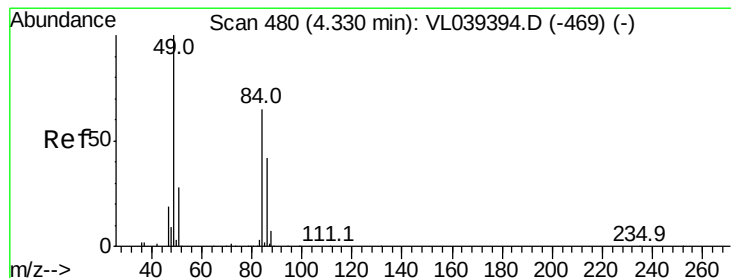
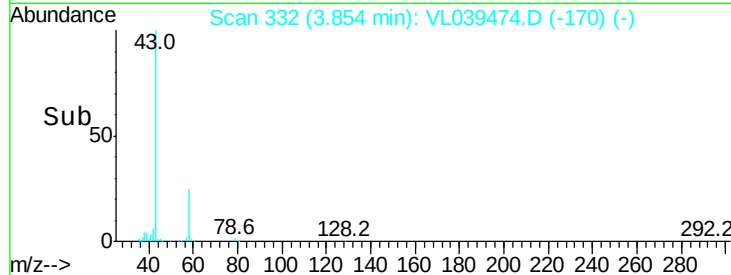
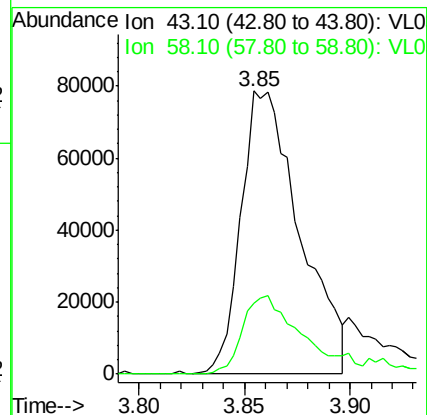
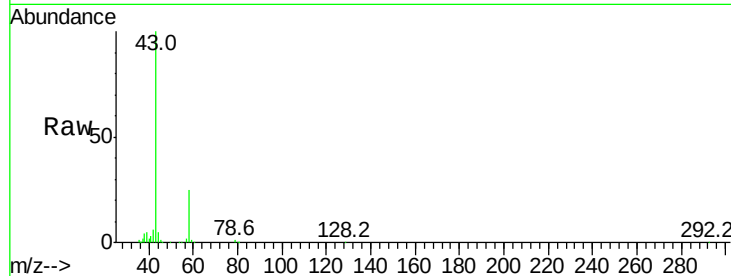
SG-7DL

Tgt Ion: 43 Resp: 152900

Ion Ratio Lower Upper

43 100

58 33.3 21.0 31.6#



#20

Methylene Chloride

Concen: 5.49 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.02 min

Lab File: VL039474.D

Acq: 13 Jul 2022 21:19

Tgt Ion: 84 Resp: 278172

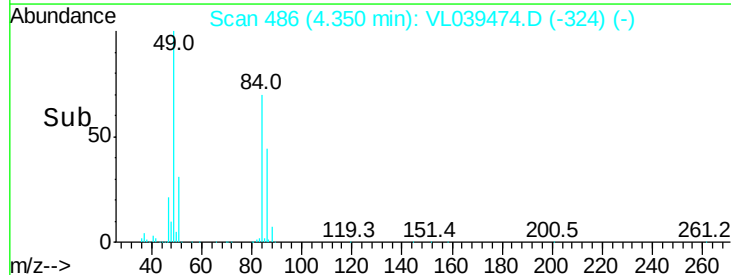
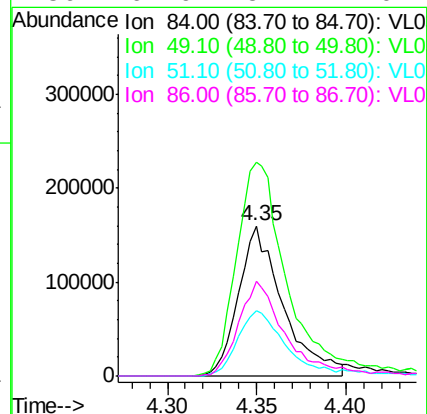
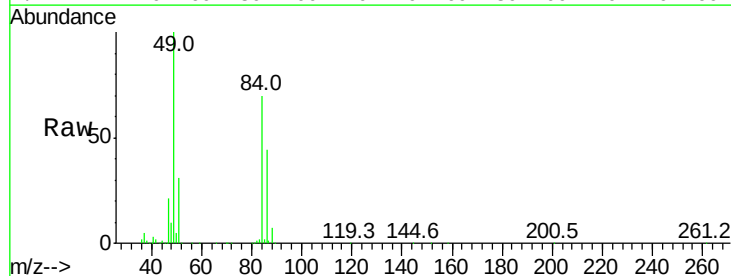
Ion Ratio Lower Upper

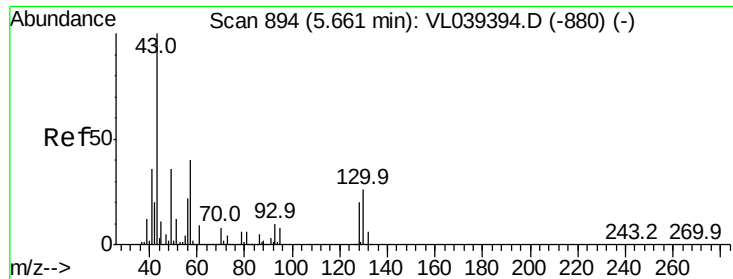
84 100

49 142.4 123.1 184.7

51 43.3 34.4 51.6

86 62.9 51.1 76.7





#25

Ethyl Acetate

Concen: 1.05 ppbv

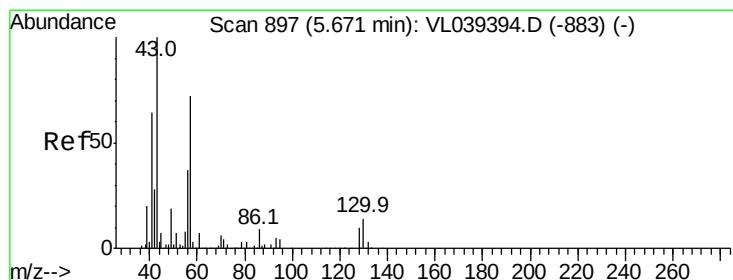
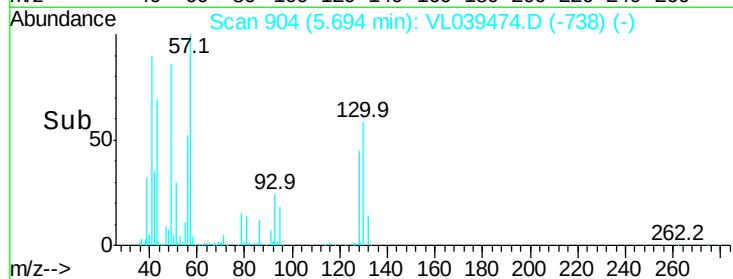
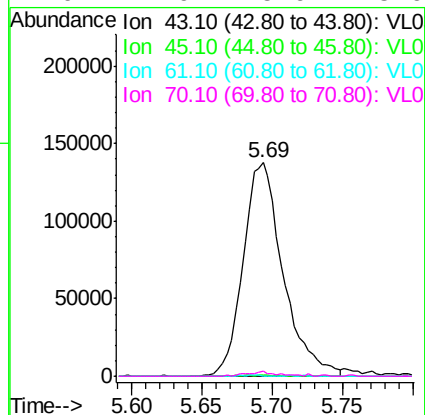
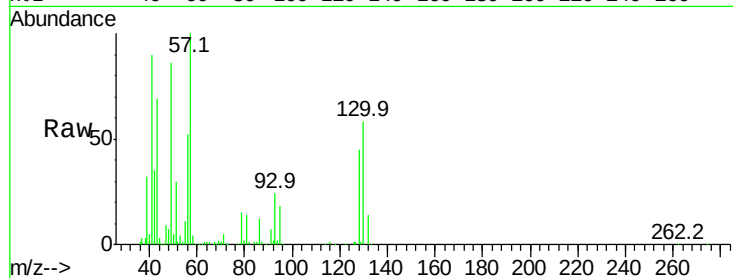
RT: 5.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Jul 2022 21:19

Tgt Ion:	43	Resp:	273412
Ion	Ratio	Lower	Upper
43	100		
45	0.5	8.2	12.4#
61	0.4	8.3	12.5#
70	1.9	5.9	8.9#



#26

Hexane

Concen: 3.67 ppbv

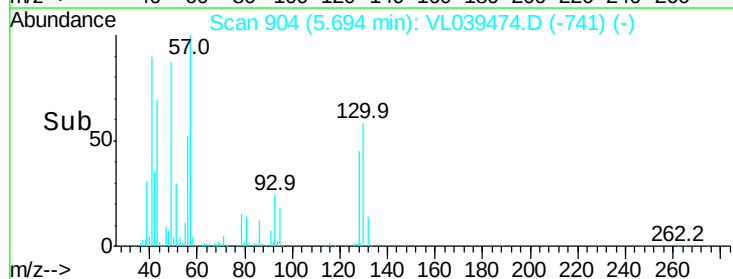
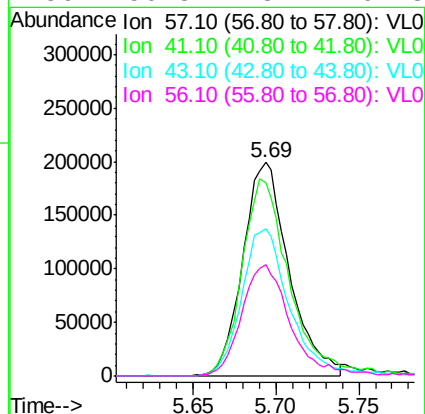
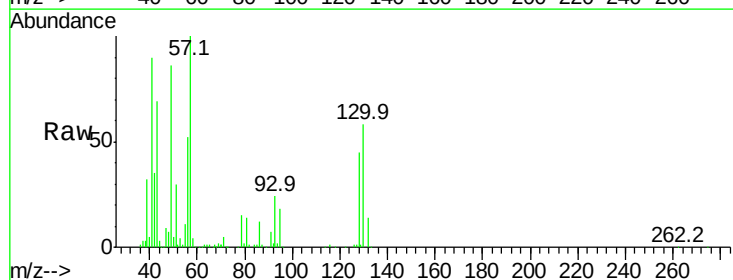
RT: 5.69 min Scan# 904

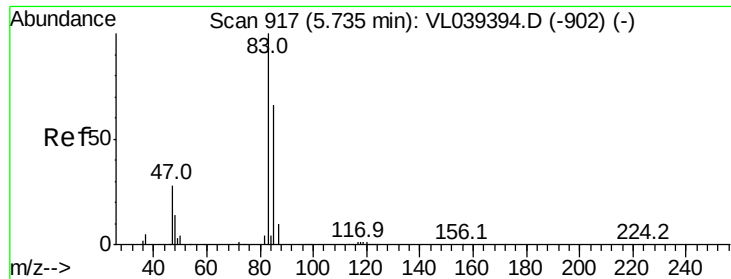
Delta R.T. 0.02 min

Lab File: VL039474.D

Acq: 13 Jul 2022 21:19

Tgt Ion:	57	Resp:	385932
Ion	Ratio	Lower	Upper
57	100		
41	96.8	76.9	115.3
43	73.2	191.0	286.6#
56	56.3	43.2	64.8





#29

Chloroform

Concen: 0.05 ppbv

RT: 5.76 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-7DL

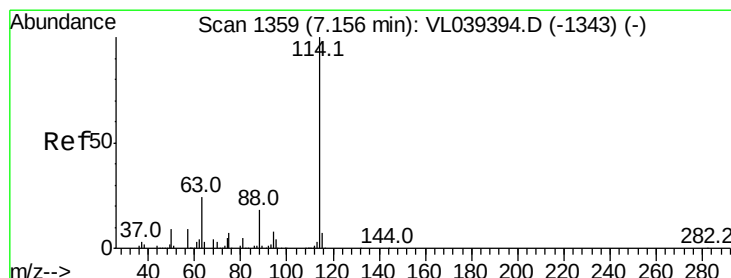
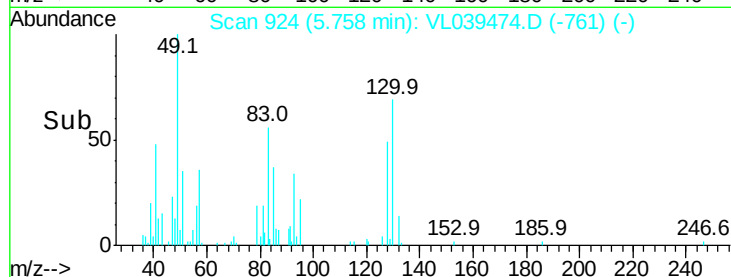
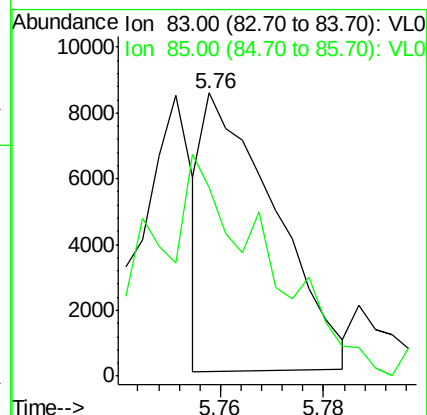
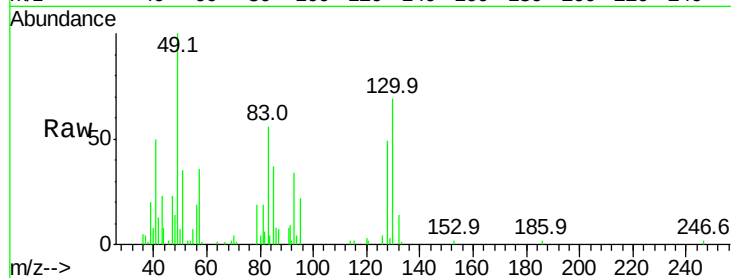
Acq: 13 Jul 2022 21:19

Tgt Ion: 83 Resp: 8238

Ion Ratio Lower Upper

83 100

85 64.8 52.8 79.2



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.02 min

Lab File: VL039474.D

Acq: 13 Jul 2022 21:19

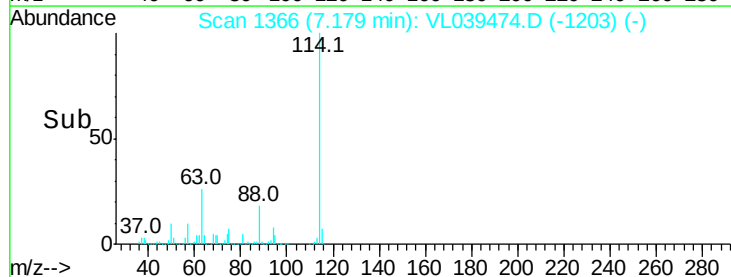
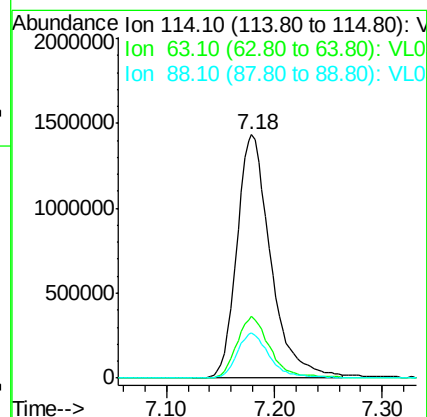
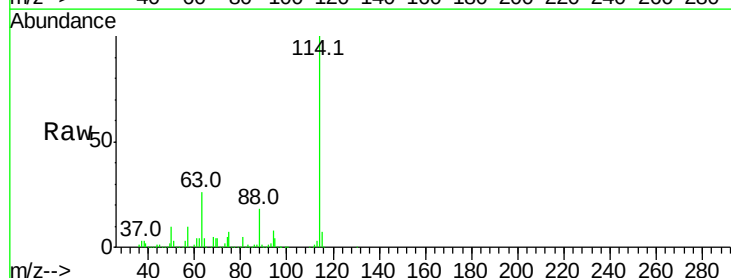
Tgt Ion: 114 Resp: 3124066

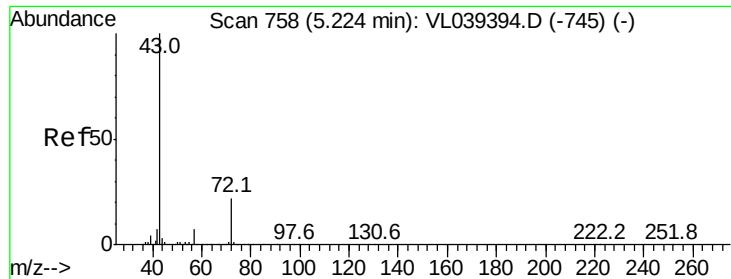
Ion Ratio Lower Upper

114 100

63 25.2 20.2 30.4

88 18.0 14.5 21.7





#34

2-Butanone

Concen: 0.03 ppbv

RT: 5.26 Instrument: MSVOA_1

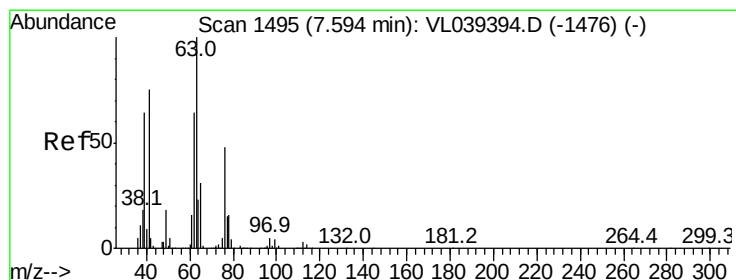
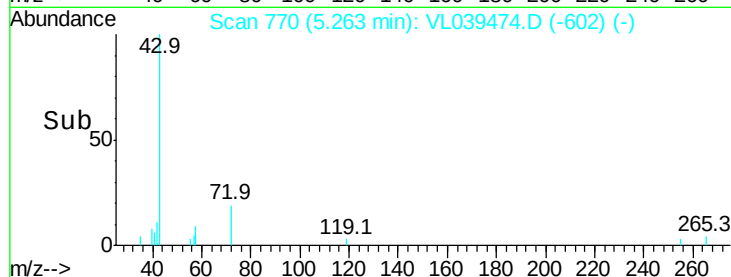
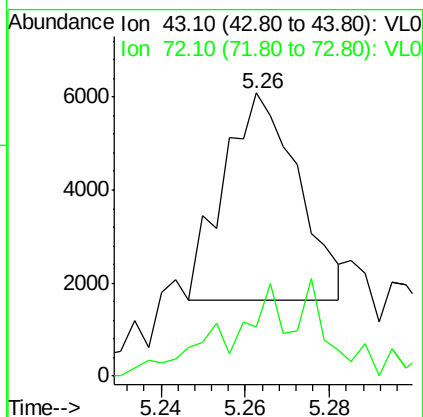
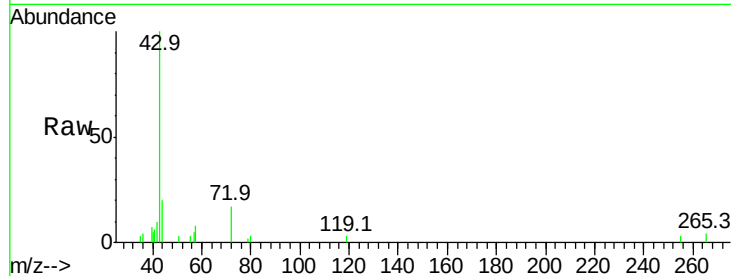
Delta R.T. ClientSampleId:

Lab File: SG-7DL

Acq: 13 Jul 2022 21:19

Tgt Ion: 43 Resp: 5462

Ion	Ratio	Lower	Upper
43	100		
72	58.6	17.9	26.9#



#39

1,2-Dichloropropane

Concen: 8.31 ppbv

RT: 7.18 min Scan# 1366

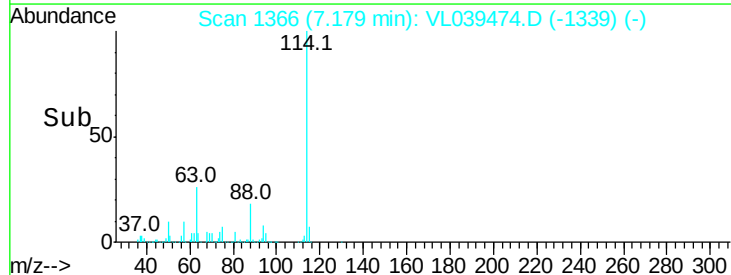
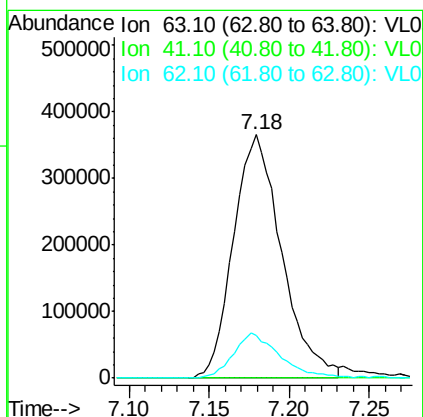
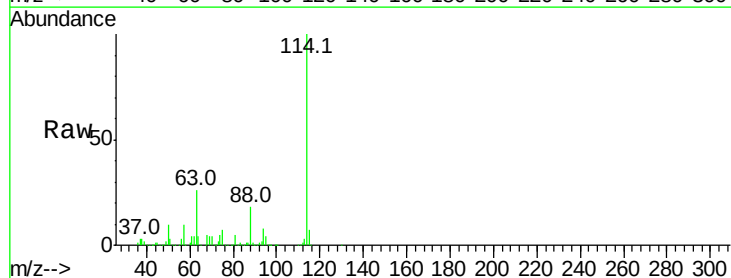
Delta R.T. -0.41 min

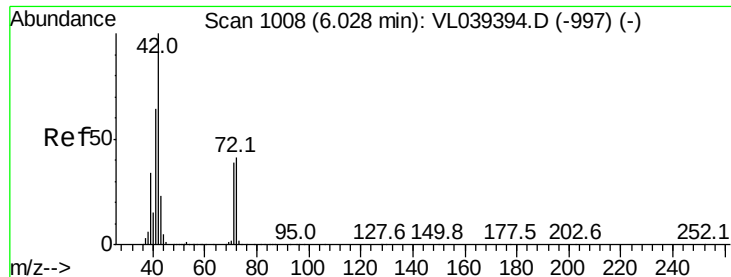
Lab File: VL039474.D

Acq: 13 Jul 2022 21:19

Tgt Ion: 63 Resp: 750408

Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	17.5	51.4	77.0#





#41

Tetrahydrofuran

Concen: 0.04 ppbv

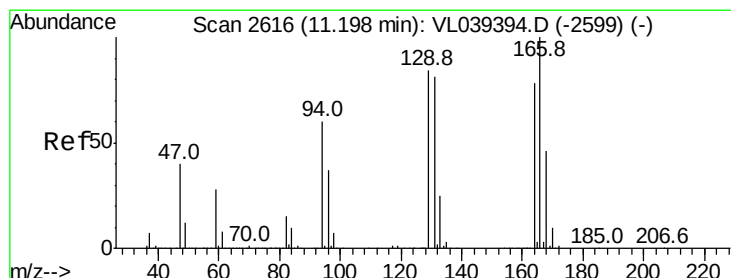
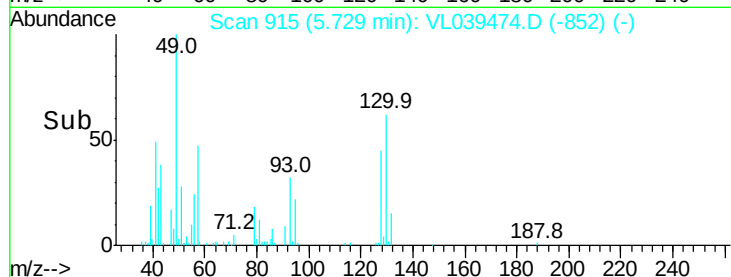
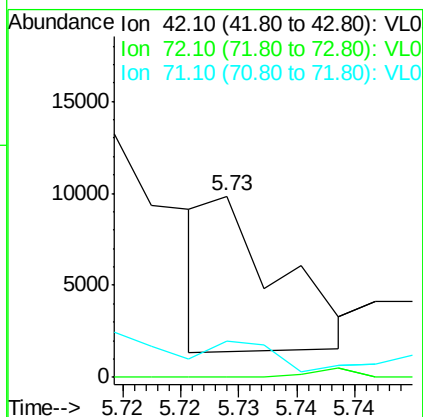
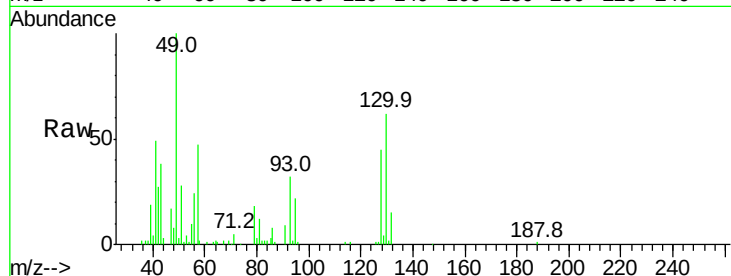
RT: 5.73

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Jul 2022 21:19

Tgt Ion:	42	Resp:	3507
Ion Ratio	Lower	Upper	
42	100		
72	3.9	31.8	47.8#
71	0.0	31.8	47.8#



#52

Tetrachloroethene

Concen: 0.15 ppbv

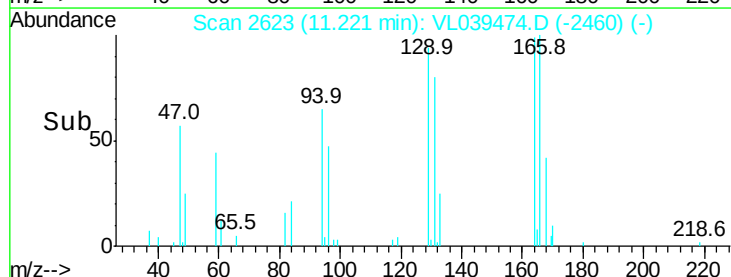
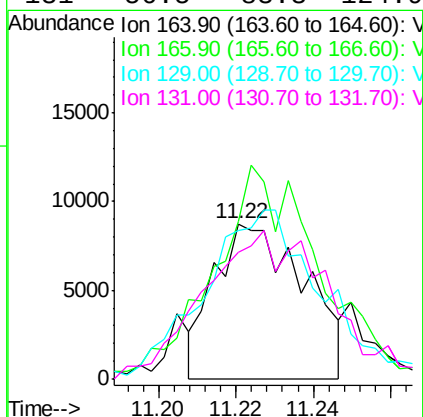
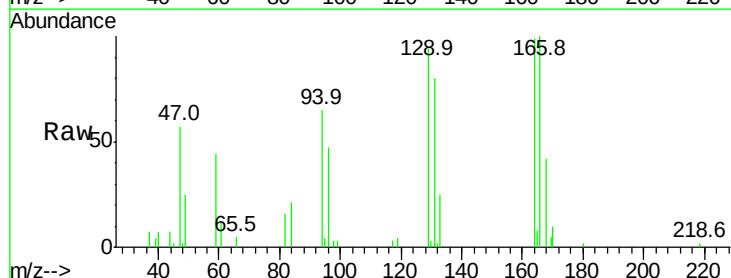
RT: 11.22 min Scan# 2623

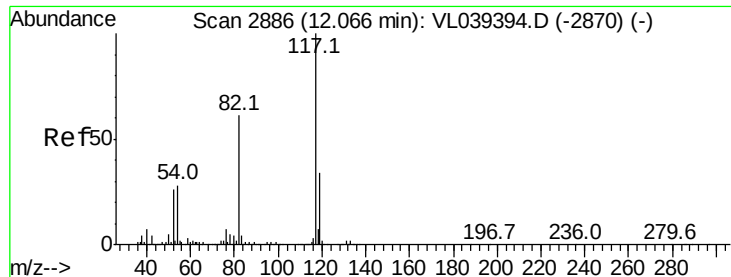
Delta R.T. 0.02 min

Lab File: VL039474.D

Acq: 13 Jul 2022 21:19

Tgt Ion:	164	Resp:	14190
Ion Ratio	Lower	Upper	
164	100		
166	77.3	102.2	153.2#
129	78.5	85.8	128.8#
131	56.5	83.3	124.9#

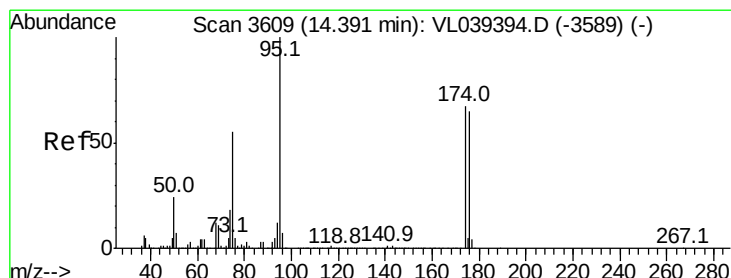
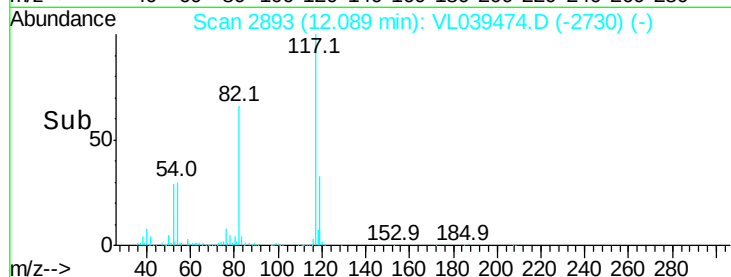
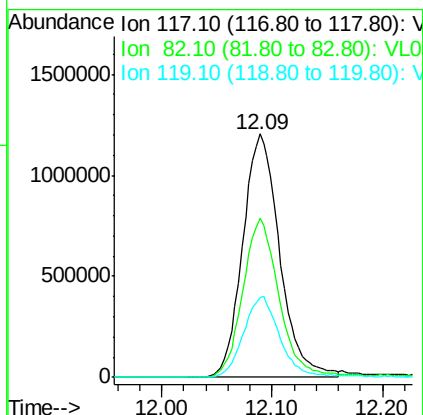
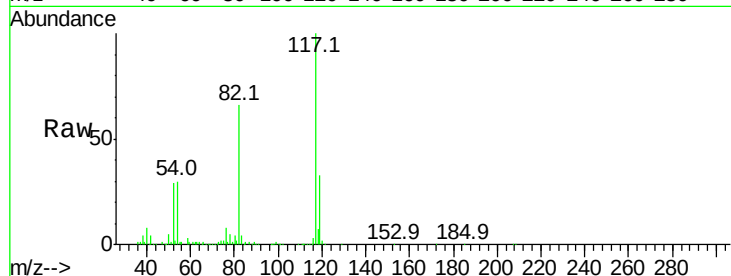




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Jul 2022 21:19

Tgt Ion: 117 Resp: 2801271

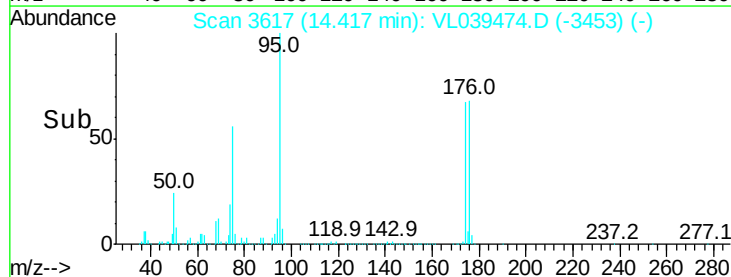
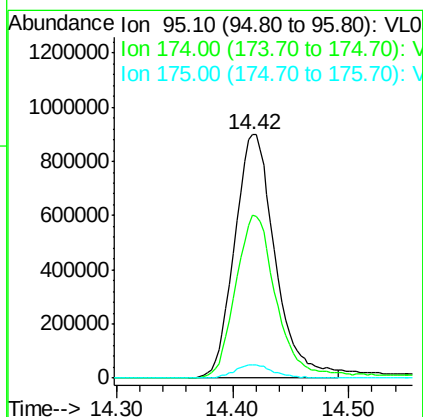
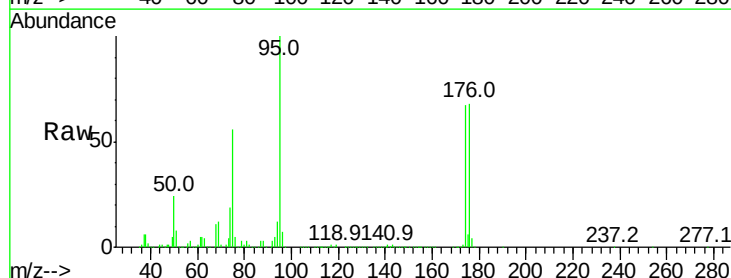
Ion	Ratio	Lower	Upper
117	100		
82	65.9	50.8	76.2
119	33.4	24.1	36.1

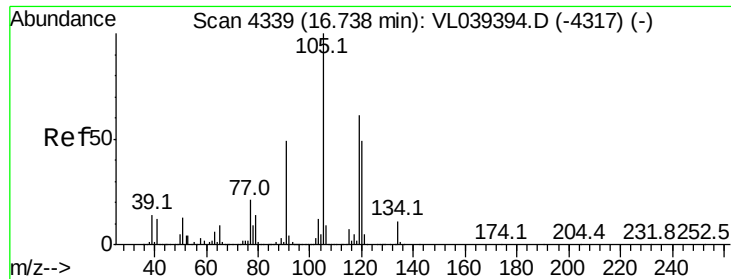


#68
1-Bromo-4-Fluorobenzene
Concen: 10.50 ppbv
RT: 14.42 min Scan# 3617
Delta R.T.: 0.03 min
Lab File: VL039474.D
Acq: 13 Jul 2022 21:19

Tgt Ion: 95 Resp: 2182926

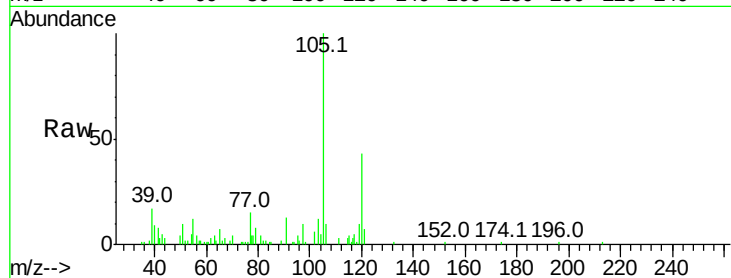
Ion	Ratio	Lower	Upper
95	100		
174	70.1	55.9	83.9
175	5.3	4.2	6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.05 ppbv
 RT: 16.77
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jul 2022 21:19

Tgt Ion:	105	Resp:	17199
Ion Ratio	Lower	Upper	
105	100		
120	37.0	39.5	59.3#
91	8.7	39.2	58.8#
77	18.4	17.2	25.8



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

