

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082522\
 Data File : VL039589.D
 Acq On : 25 Aug 2022 22:24
 Operator : SY/AP
 Sample : N4351-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Aug 26 06:27:06 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.20	49	877371	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2383438	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2095196	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.78	95	1571331	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

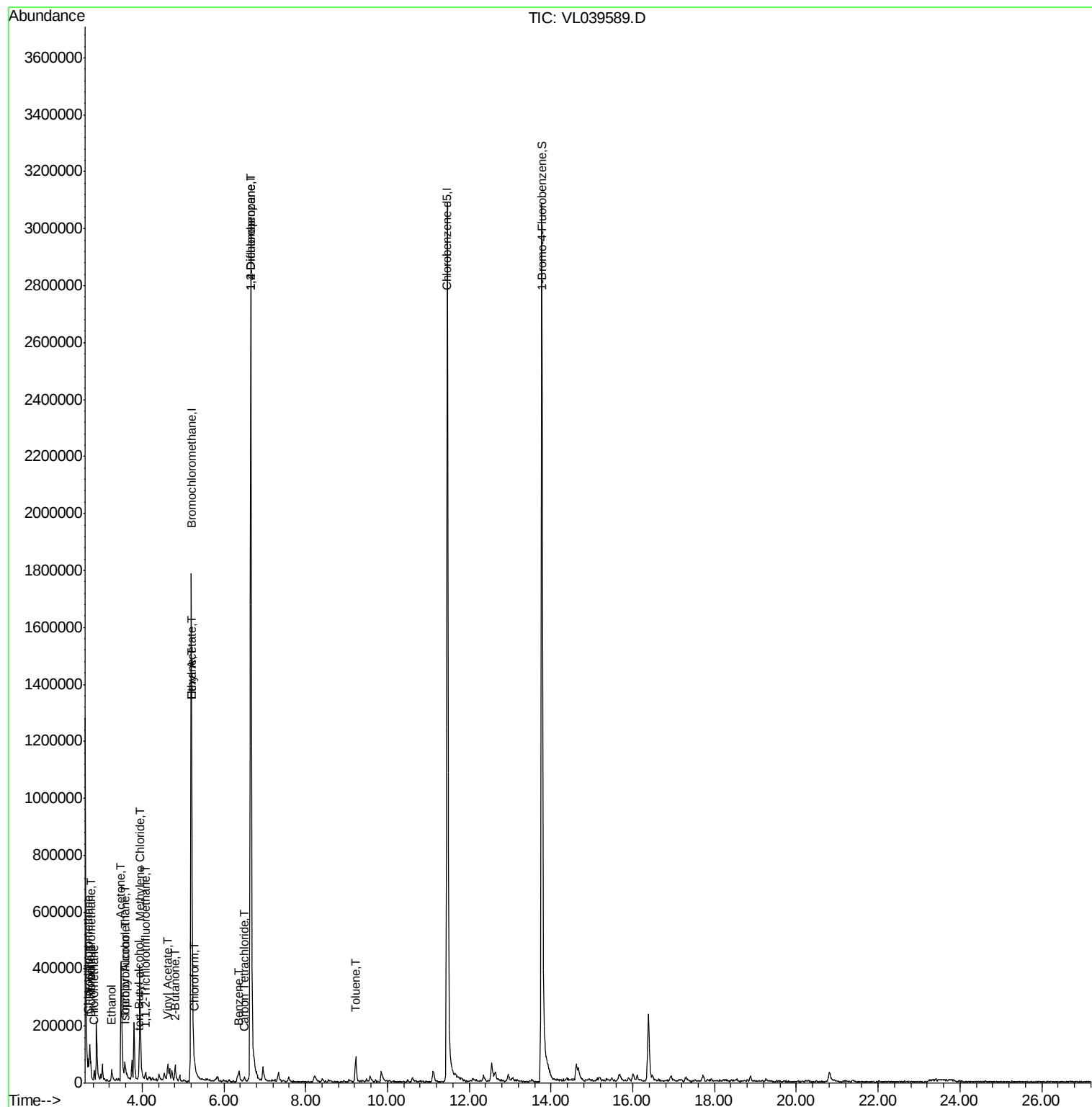
Target Compounds					Ovalue
2) Dichlorodifluoromethane	2.75	85	29380	0.252 ppbv	92
3) Chlorodifluoromethane	2.69	51	65070	0.622 ppbv	92
4) Chloromethane	2.83	50	32033	0.509 ppbv	94
9) Propene	2.72	41	27402	0.573 ppbv	87
11) Trichlorofluoromethane	3.58	101	30525	0.238 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.09	101	6835	0.072 ppbv #	74
13) Ethanol	3.26	45	4296	1.250 ppbv #	1
15) Acetone	3.48	43	472433	4.807 ppbv	92
17) tert-Butyl alcohol	3.91	59	2661	0.032 ppbv #	71
19) Isopropyl Alcohol	3.60	45	10185	0.213 ppbv #	88
20) Methylene Chloride	3.95	84	138900	3.479 ppbv	98
23) Vinyl Acetate	4.63	43	49637	1.062 ppbv #	85
25) Ethyl Acetate	5.22	43	81845	0.389 ppbv #	83
26) Hexane	5.22	57	97540	1.136 ppbv #	42
29) Chloroform	5.28	83	4144	0.031 ppbv #	57
34) 2-Butanone	4.81	43	61570	0.520 ppbv #	84
35) Carbon Tetrachloride	6.50	117	7285	0.057 ppbv #	80
36) Benzene	6.37	78	9311	0.051 ppbv	96
39) 1,2-Dichloropropane	6.66	63	584410	8.555 ppbv #	25
53) Toluene	9.22	91	64183	0.316 ppbv	99

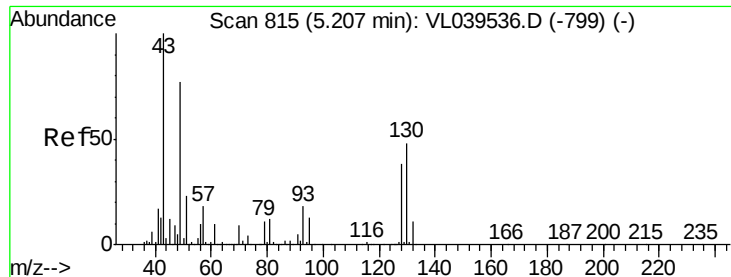
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Aug 2022 22:24

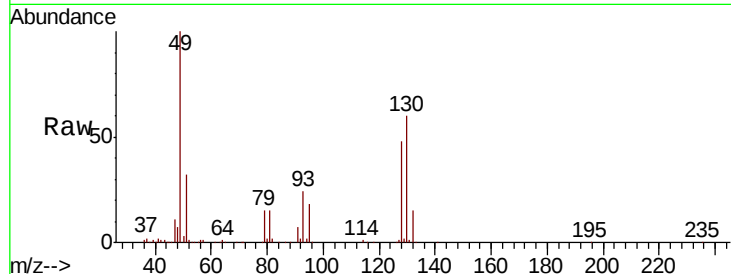
Tot Ion: 49 Resp: 877371

Ion Ratio Lower Upper

49 100

128 51.9 26.7 80.0

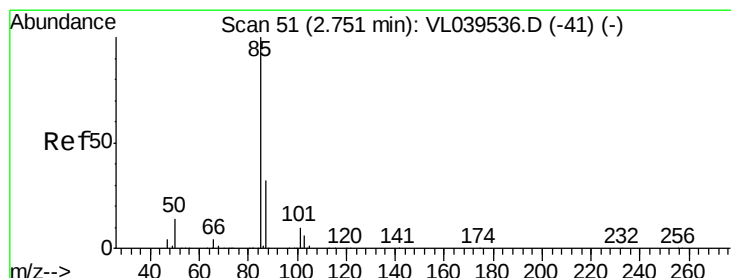
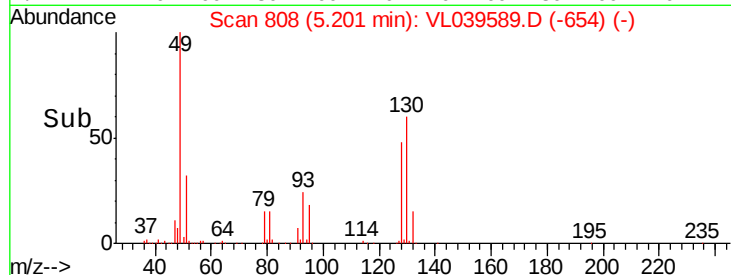
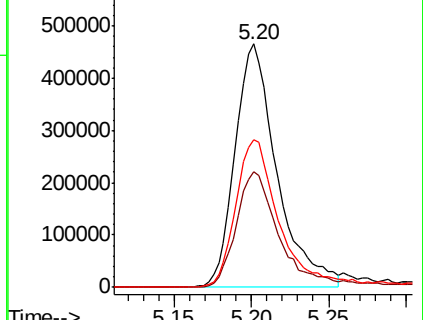
130 65.6 34.3 102.8



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: 0.252 ppbv

RT: 2.75 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL039589.D

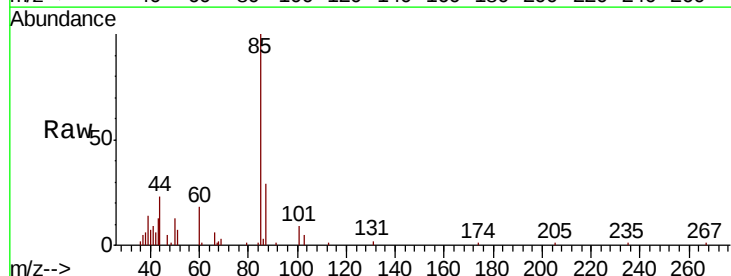
Acq: 25 Aug 2022 22:24

Tgt Ion: 85 Resp: 29380

Ion Ratio Lower Upper

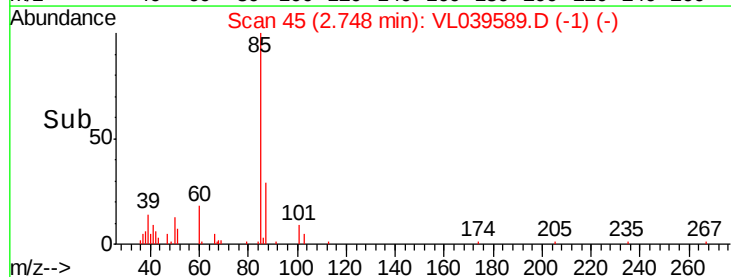
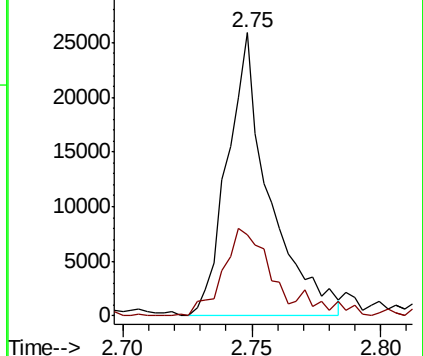
85 100

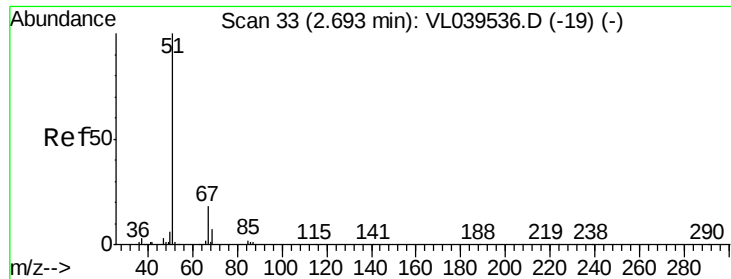
87 28.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.622 ppbv

RT: 2.69 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId: OA1

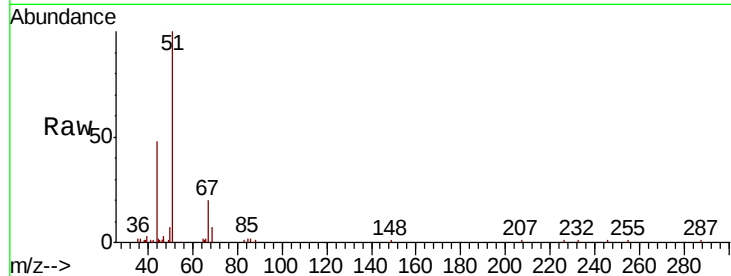
Acq: 25 Aug 2022 22:24

Tot Ion: 51 Resp: 65070

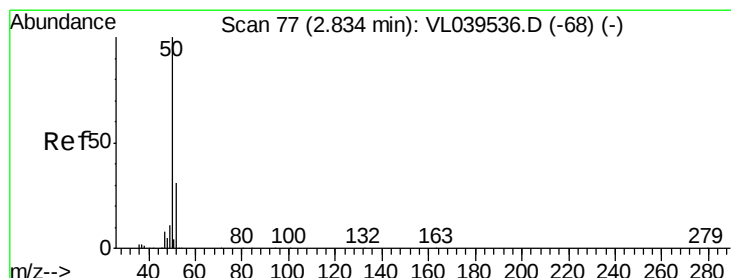
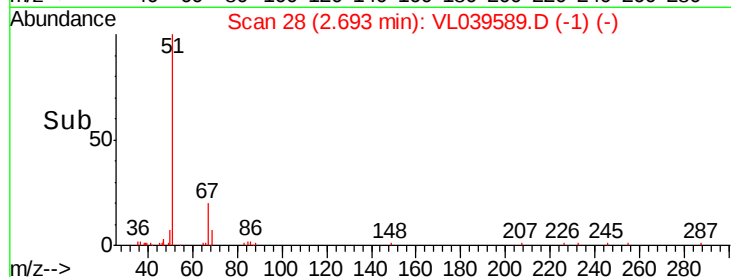
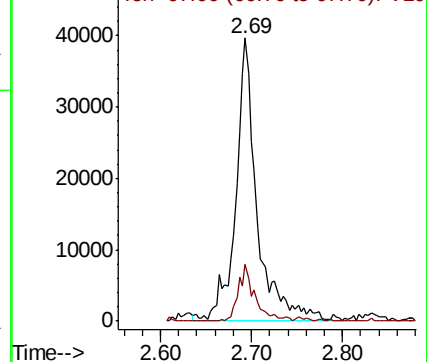
Ion Ratio Lower Upper

51 100

67 16.0 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.509 ppbv

RT: 2.83 min Scan# 70

Delta R.T. -0.01 min

Lab File: VL039589.D

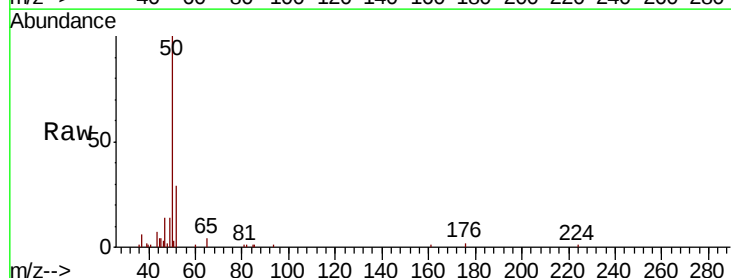
Acq: 25 Aug 2022 22:24

Tgt Ion: 50 Resp: 32033

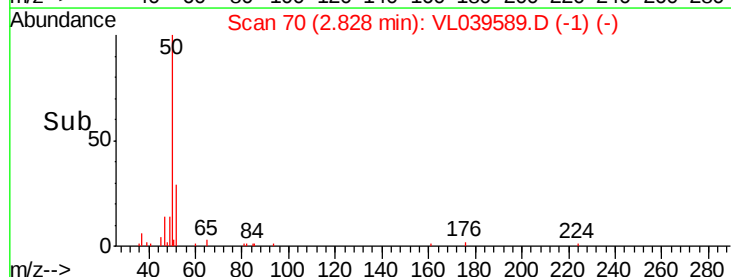
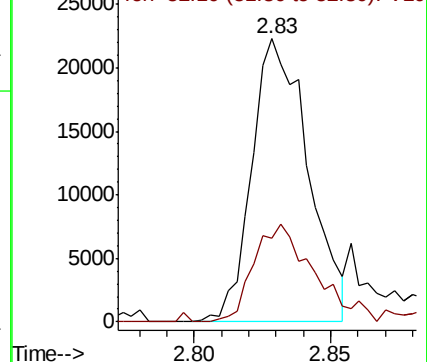
Ion Ratio Lower Upper

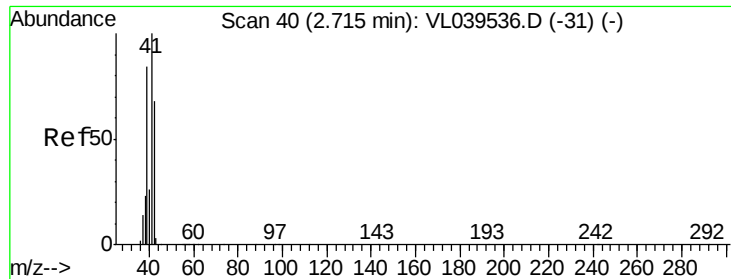
50 100

52 29.4 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.573 ppbv

RT: 2.72 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

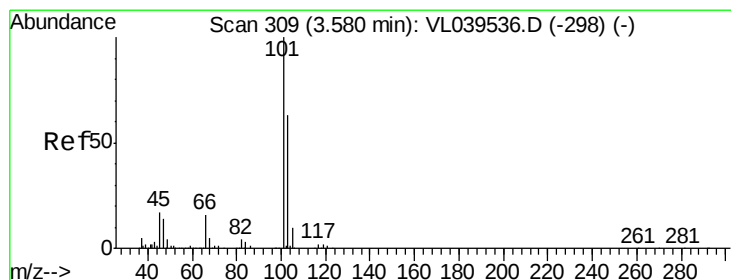
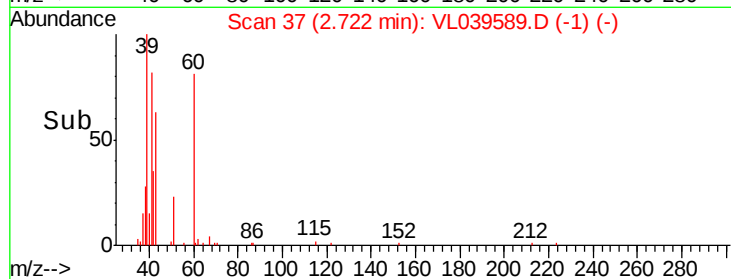
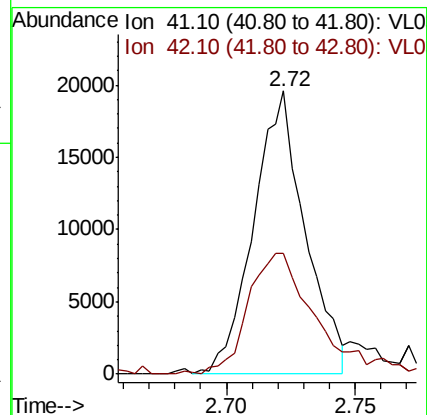
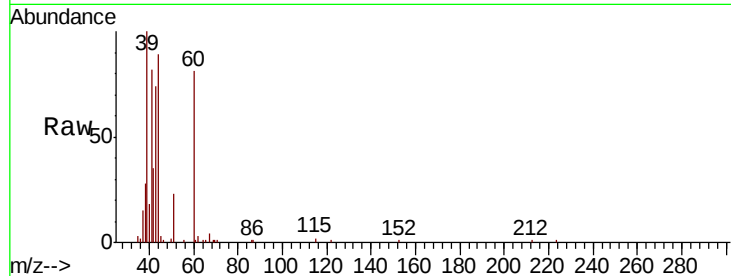
Acq: 25 Aug 2022 22:24

Tot Ion: 41 Resp: 27402

Ion Ratio Lower Upper

41 100

42 58.3 55.2 82.8



#11

Trichlorofluoromethane

Concen: 0.238 ppbv

RT: 3.58 min Scan# 303

Delta R.T. -0.00 min

Lab File: VL039589.D

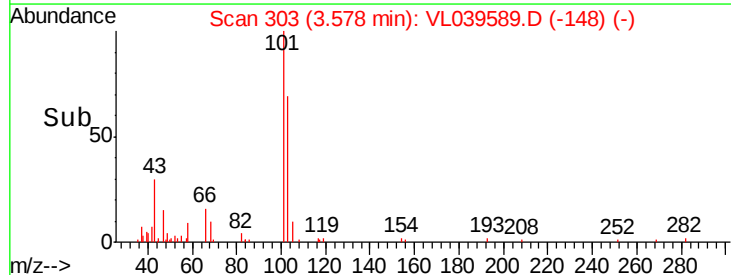
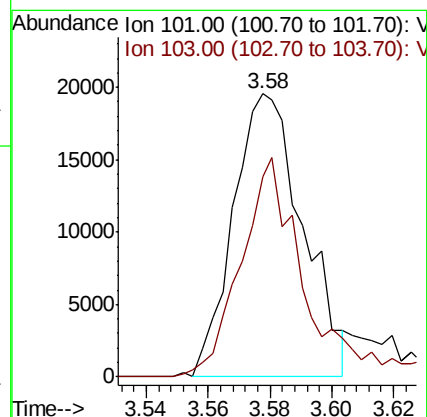
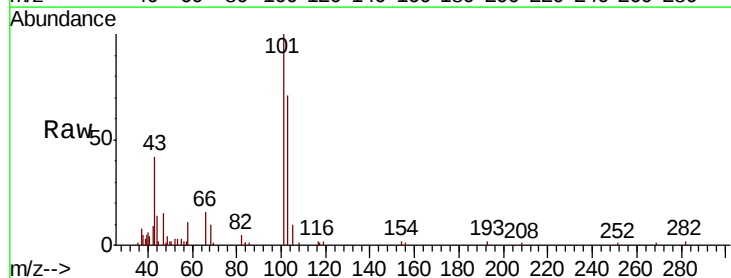
Acq: 25 Aug 2022 22:24

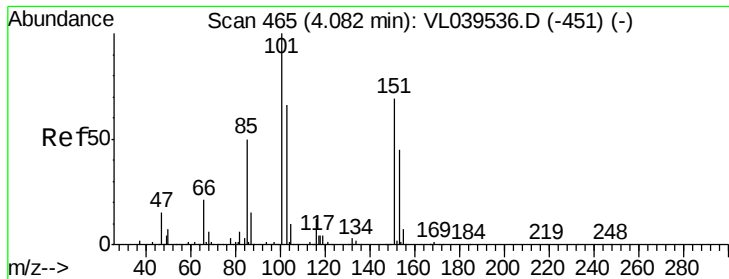
Tgt Ion:101 Resp: 30525

Ion Ratio Lower Upper

101 100

103 68.4 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.072 ppbv

RT: 4.09 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

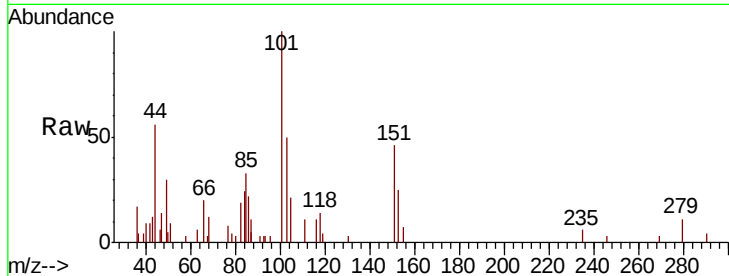
Acq: 25 Aug 2022 22:24

Tot Ion: 101 Resp: 6835

Ion Ratio Lower Upper

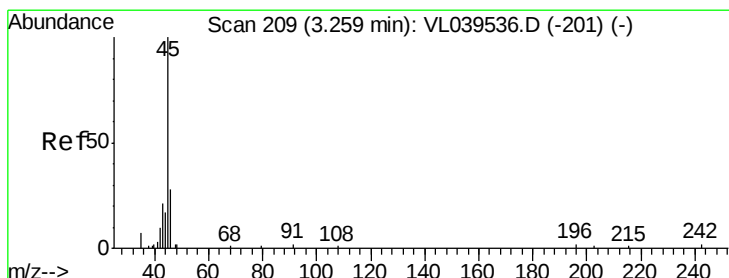
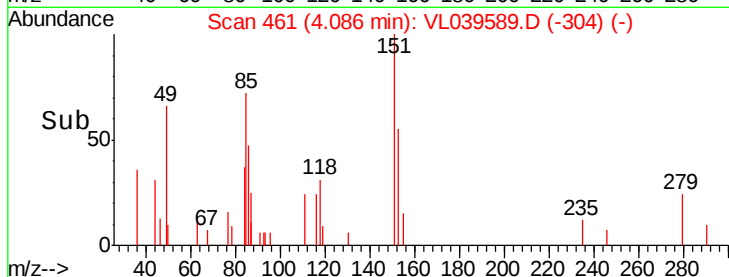
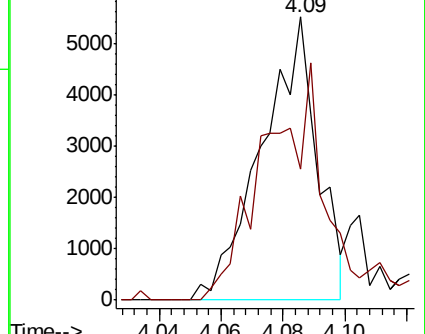
101 100

151 95.2 58.9 88.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 1.250 ppbv

RT: 3.26 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL039589.D

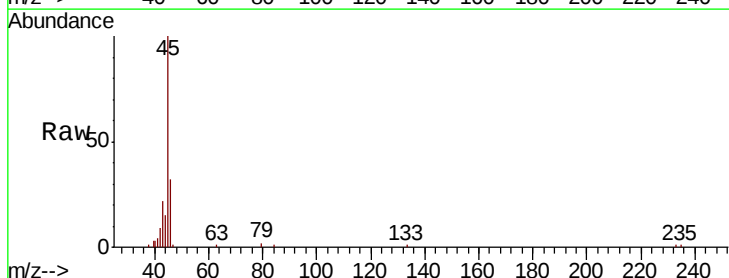
Acq: 25 Aug 2022 22:24

Tgt Ion: 45 Resp: 4296

Ion Ratio Lower Upper

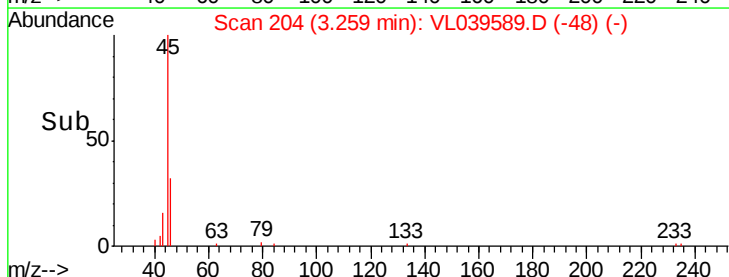
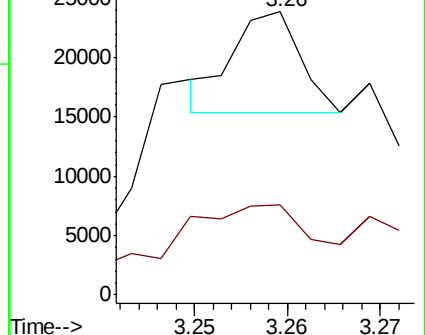
45 100

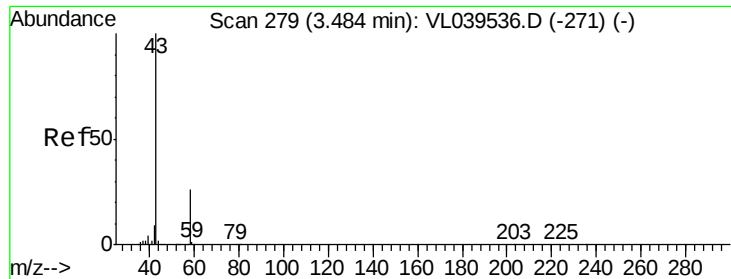
46 435.8 22.8 91.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.807 ppbv

RT: 3.48

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

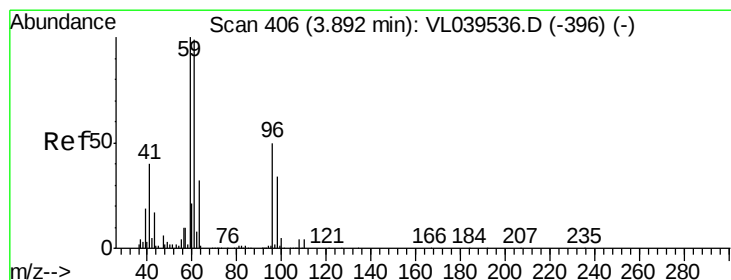
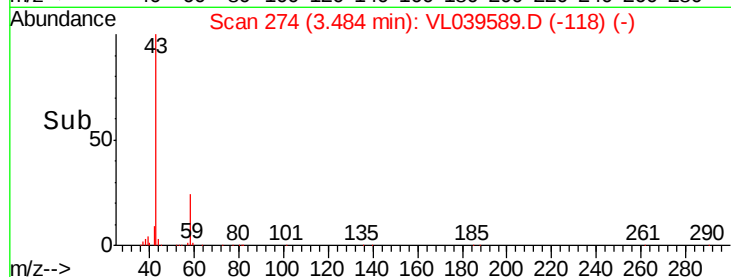
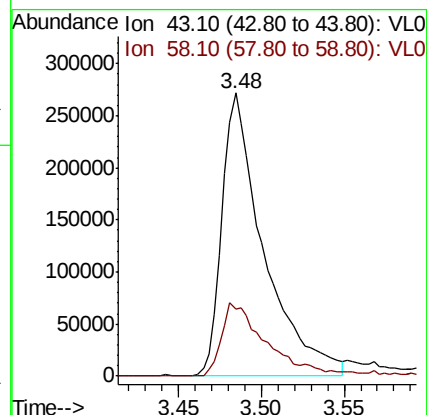
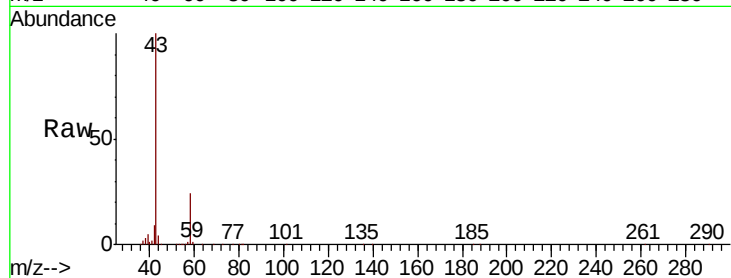
Acq: 25 Aug 2022 22:24

Tot Ion: 43 Resp: 472433

Ion Ratio Lower Upper

43 100

58 30.3 21.0 31.6



#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 3.91 min Scan# 406

Delta R.T. 0.02 min

Lab File: VL039589.D

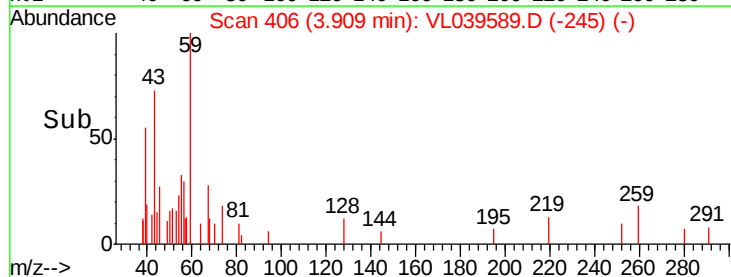
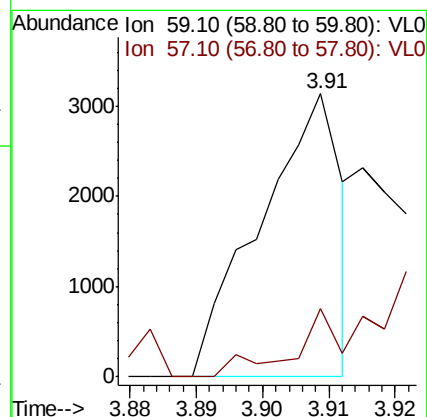
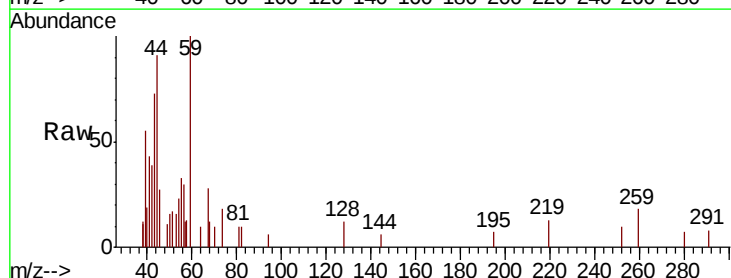
Acq: 25 Aug 2022 22:24

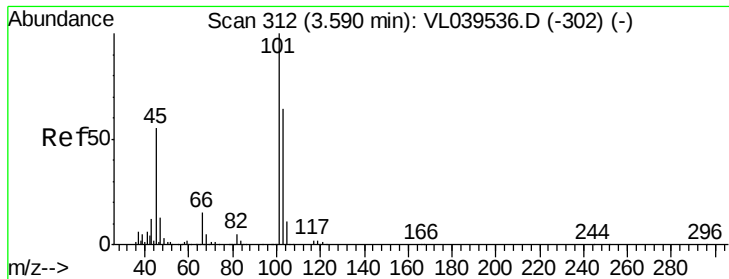
Tgt Ion: 59 Resp: 2661

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.213 ppbv

RT: 3.60 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

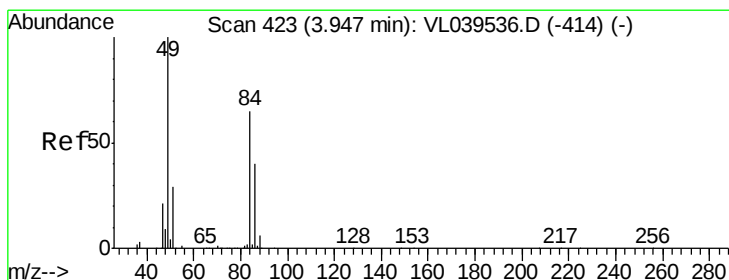
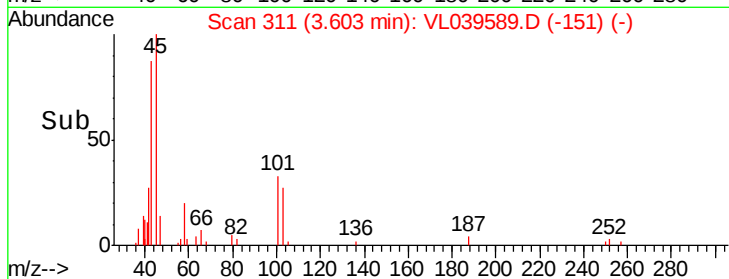
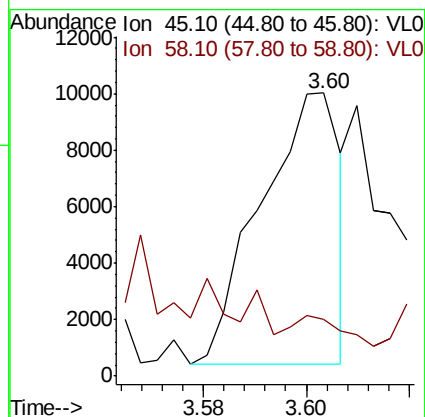
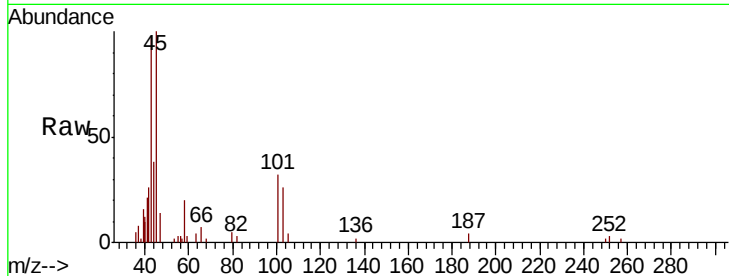
Acq: 25 Aug 2022 22:24

Tot Ion: 45 Resp: 10185

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#



#20

Methylene Chloride

Concen: 3.479 ppbv

RT: 3.95 min Scan# 418

Delta R.T. 0.00 min

Lab File: VL039589.D

Acq: 25 Aug 2022 22:24

Tgt Ion: 84 Resp: 138900

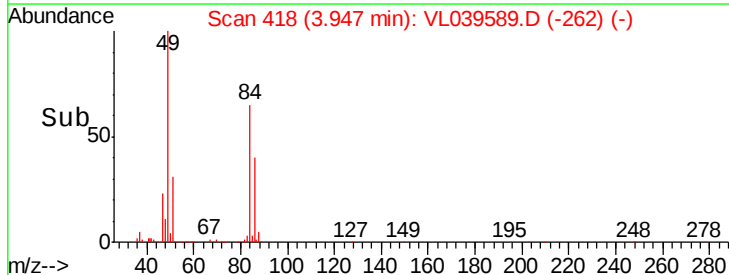
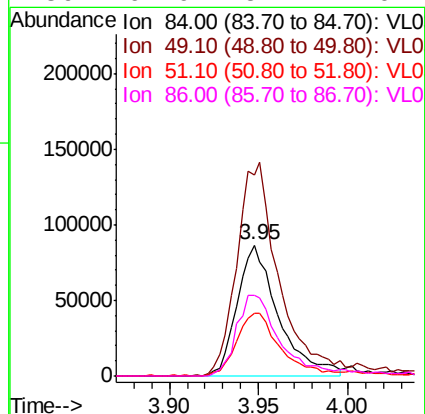
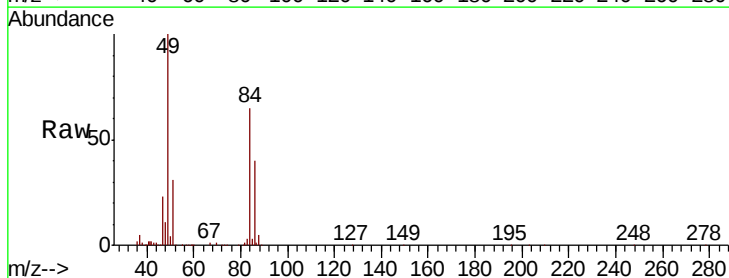
Ion Ratio Lower Upper

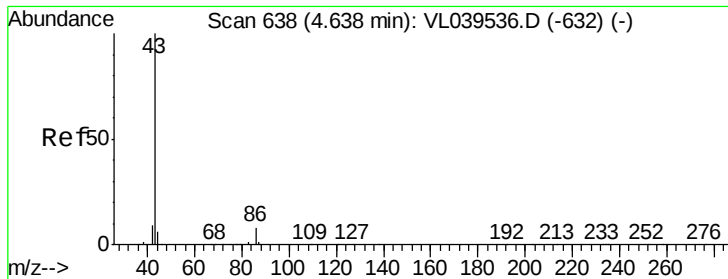
84 100

49 153.2 123.1 184.7

51 48.2 34.4 51.6

86 61.9 51.1 76.7





#23

Vinyl Acetate

Concen: 1.062 ppbv

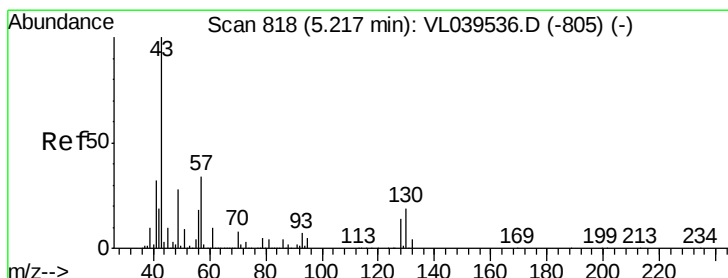
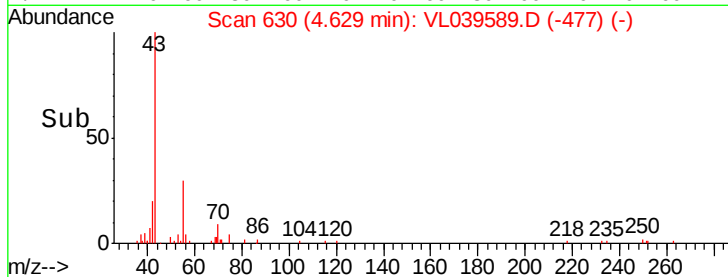
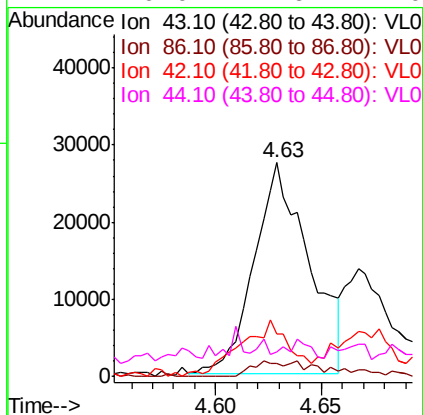
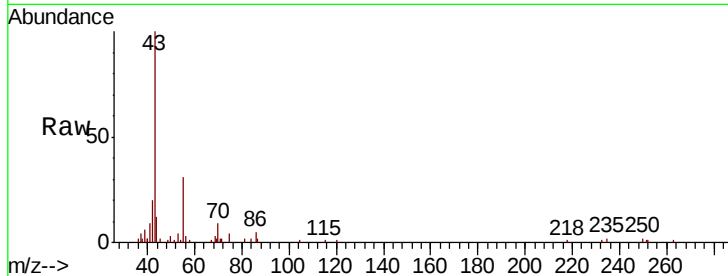
RT: 4.63

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Aug 2022 22:24

Tot Ion:	43	Resp:	49637
Ion	Ratio	Lower	Upper
43	100		
86	6.3	5.0	7.6
42	18.4	7.7	11.5#
44	0.0	4.6	7.0#



#25

Ethyl Acetate

Concen: 0.389 ppbv

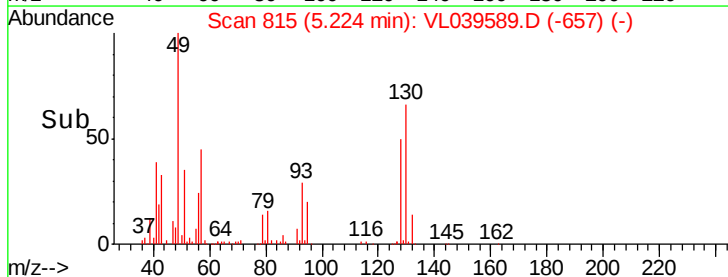
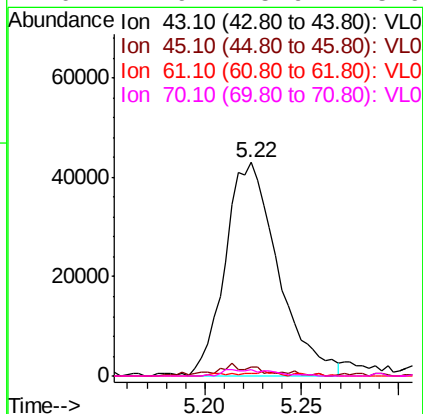
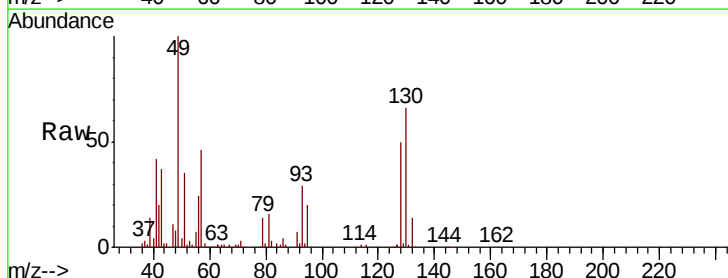
RT: 5.22 min Scan# 815

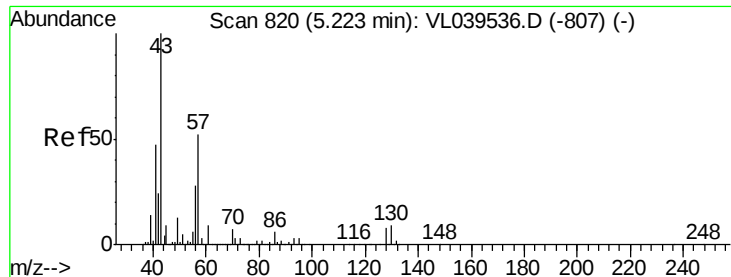
Delta R.T. 0.01 min

Lab File: VL039589.D

Acq: 25 Aug 2022 22:24

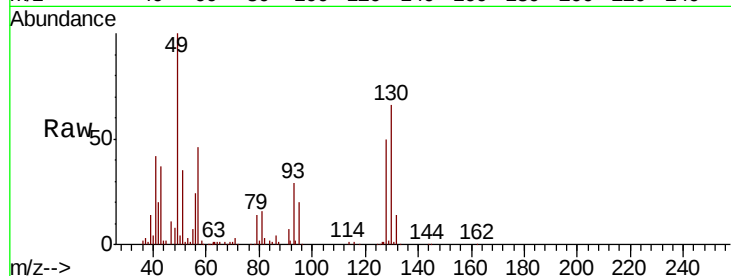
Tgt Ion:	43	Resp:	81845
Ion	Ratio	Lower	Upper
43	100		
45	5.0	8.2	12.4#
61	2.0	8.3	12.5#
70	2.9	5.9	8.9#





#26
Hexane
Concen: 1.136 ppbv
RT: 5.22
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Aug 2022 22:24

Tot Ion	57	Resp	97540
Ion Ratio	Lower	Upper	
57	100		
41	103.3	76.9	115.3
43	87.8	191.0	286.6#
56	61.4	43.2	64.8



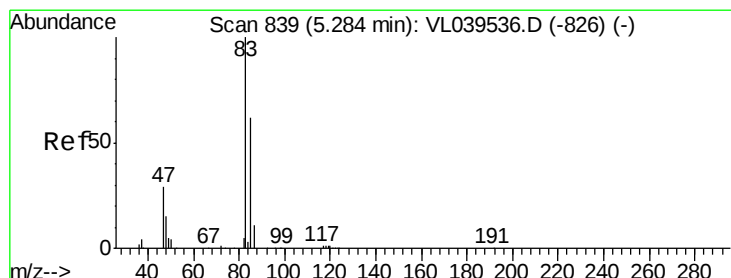
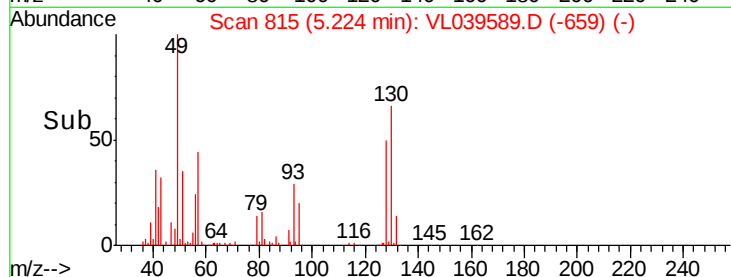
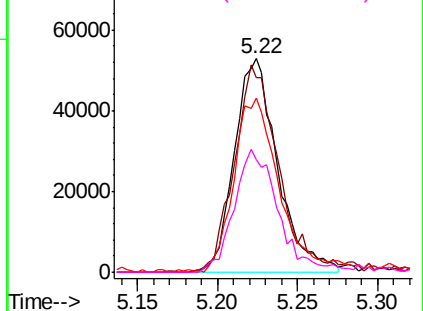
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

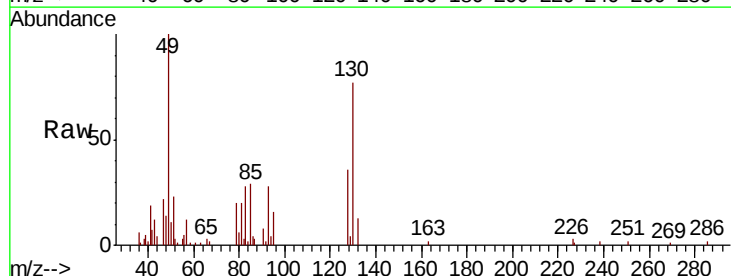
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.031 ppbv
RT: 5.28 min Scan# 834
Delta R.T. 0.00 min
Lab File: VL039589.D
Acq: 25 Aug 2022 22:24

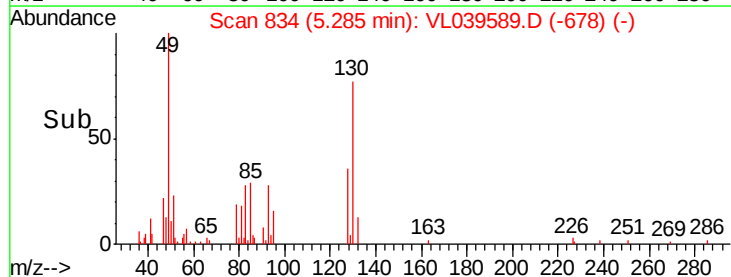
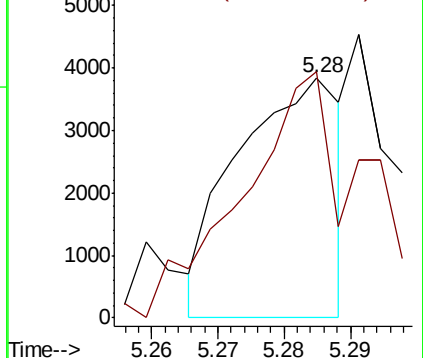
Tgt Ion	83	Resp	4144
Ion Ratio	Lower	Upper	
83	100		
85	99.9	52.8	79.2#

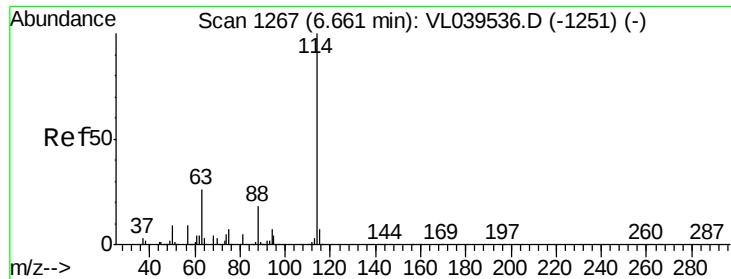


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.66 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Aug 2022 22:24

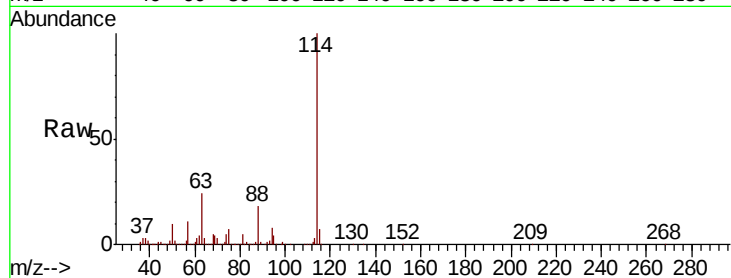
Tot Ion:114 Resp: 2383438

Ion Ratio Lower Upper

114 100

63 25.0 20.2 30.4

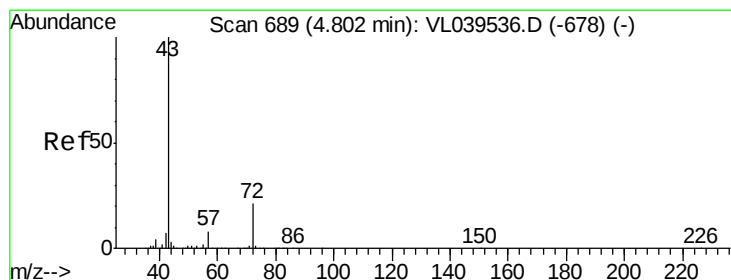
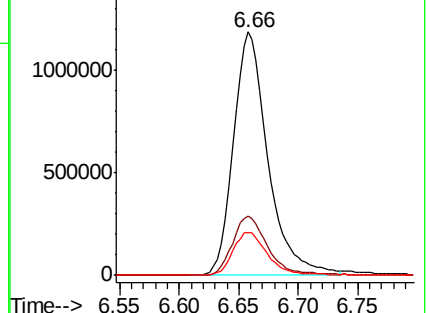
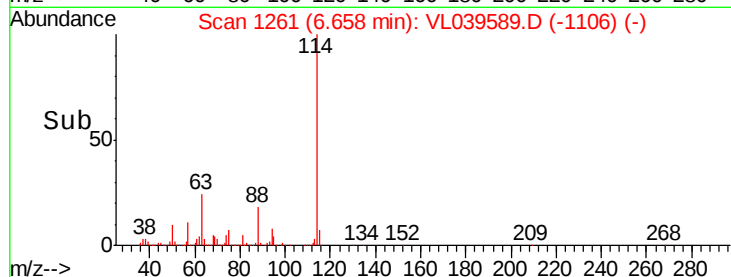
88 18.0 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.520 ppbv

RT: 4.81 min Scan# 686

Delta R.T. 0.01 min

Lab File: VL039589.D

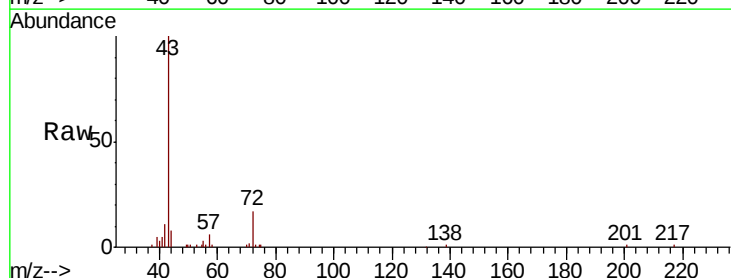
Acq: 25 Aug 2022 22:24

Tgt Ion: 43 Resp: 61570

Ion Ratio Lower Upper

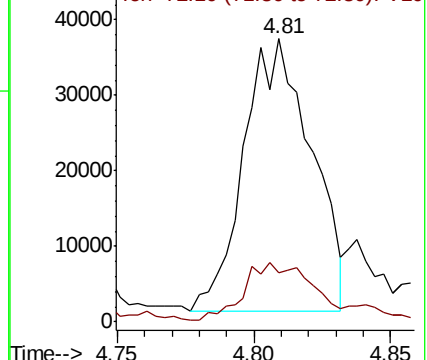
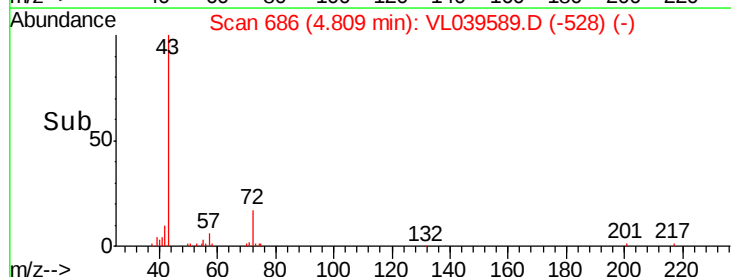
43 100

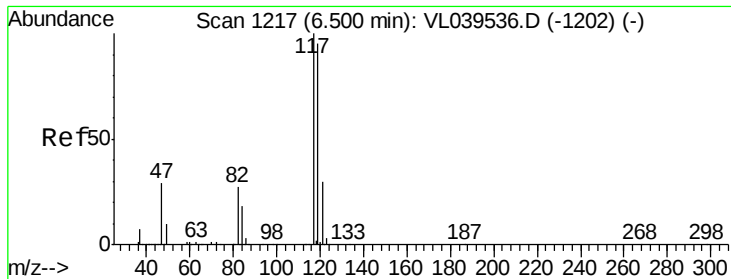
72 30.0 17.9 26.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

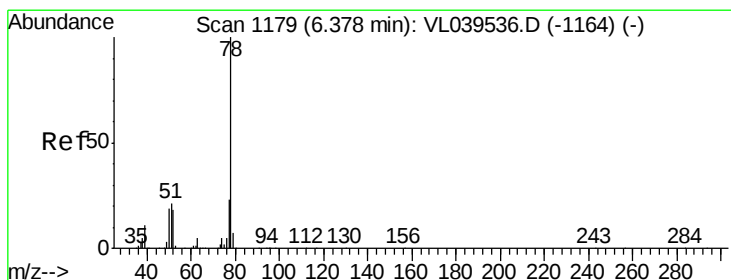
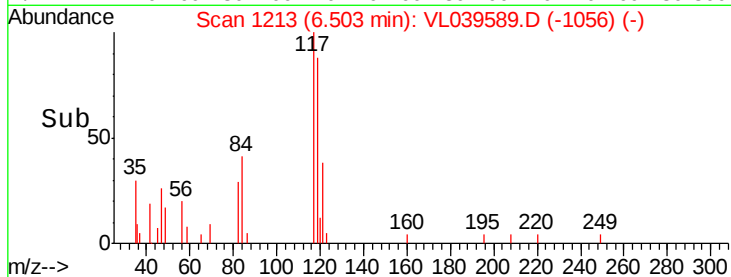
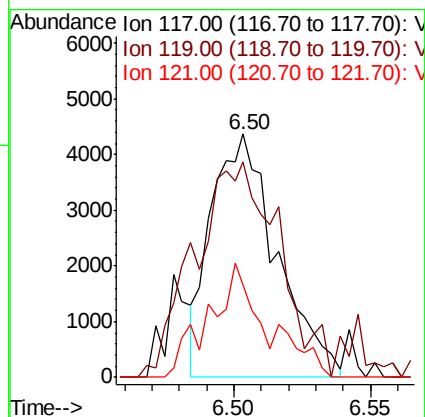
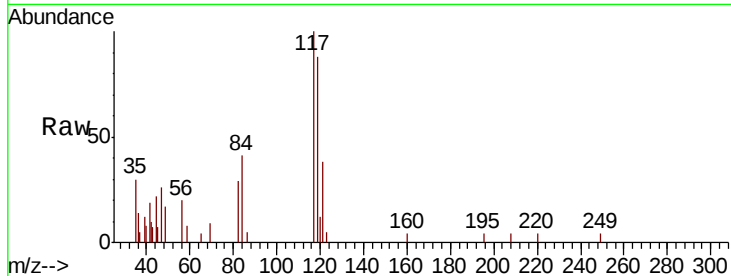
Ion 72.10 (71.80 to 72.80): VL0





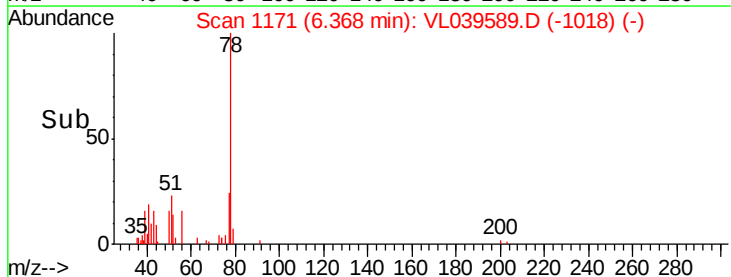
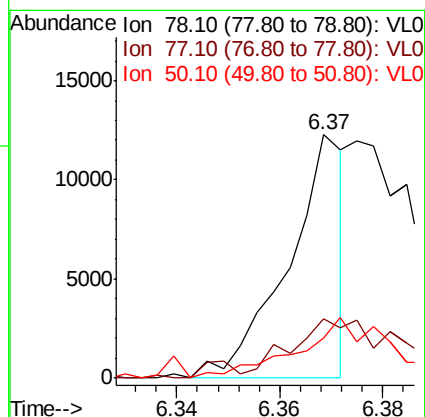
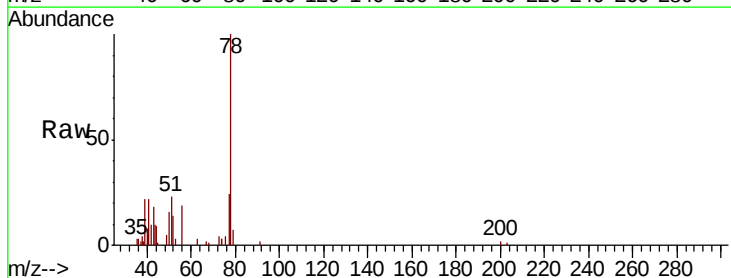
#35
 Carbon Tetrachloride
 Concen: 0.057 ppbv
 RT: 6.50
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 25 Aug 2022 22:24

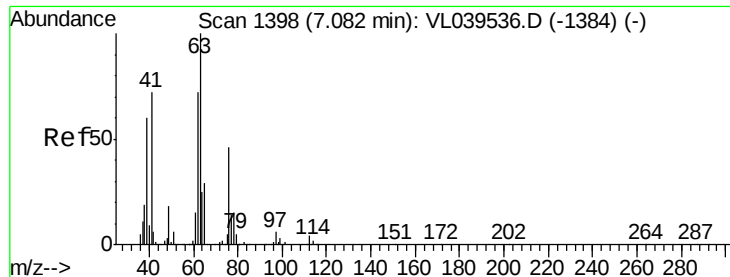
Tot Ion	Ratio	Lower	Upper
117	100		
119	74.1	75.4	113.2#
121	39.7	24.2	36.2#



#36
 Benzene
 Concen: 0.051 ppbv
 RT: 6.37 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: VL039589.D
 Acq: 25 Aug 2022 22:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	20.3	30.5
50	16.2	15.5	23.3





#39

1,2-Dichloropropane

Concen: 8.555 ppbv

RT: 6.66 Instrument: MSVOA_1

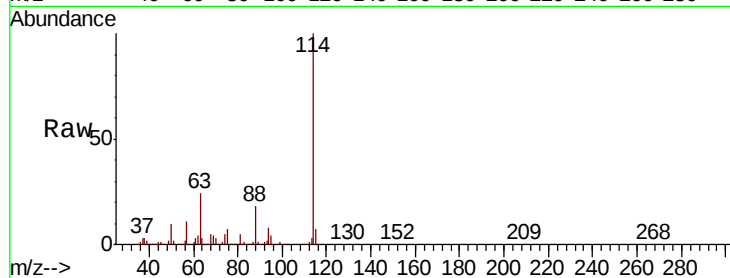
Delta R.T. ClientSampleId:

Lab File: OA1

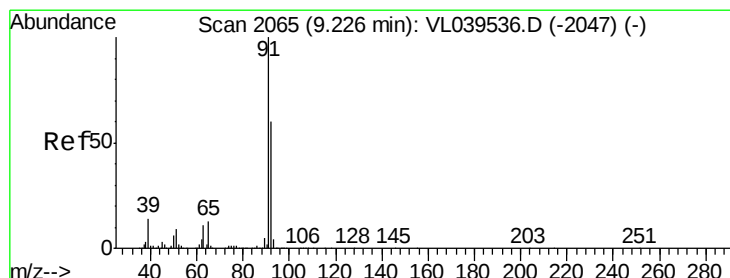
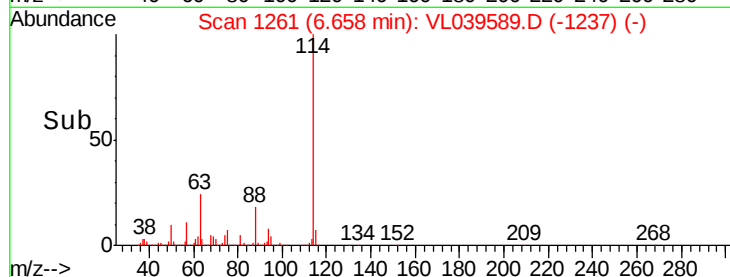
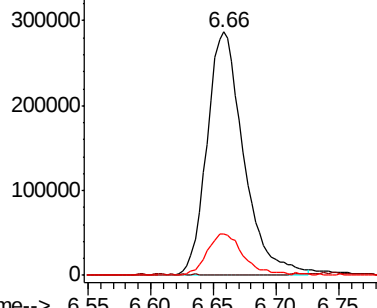
Acq: 25 Aug 2022 22:24

Tot Ion: 63 Resp: 584410

Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	16.8	51.4	77.0#



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



#53

Toluene

Concen: 0.316 ppbv

RT: 9.22 min Scan# 2059

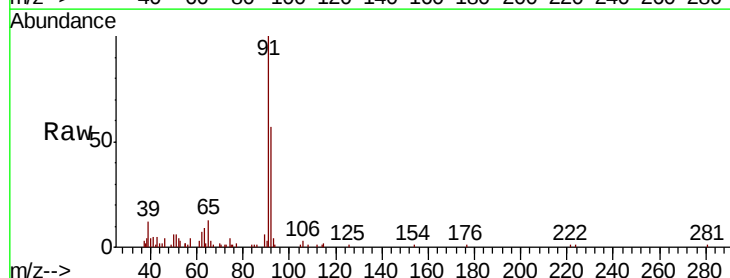
Delta R.T. -0.00 min

Lab File: VL039589.D

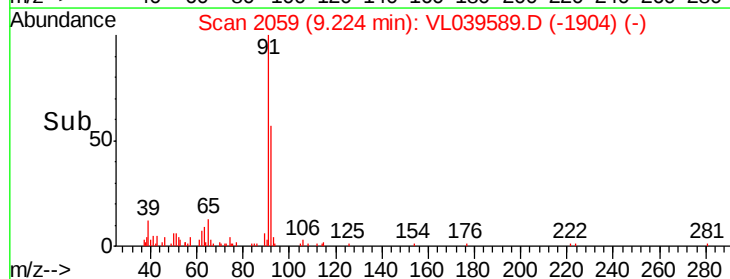
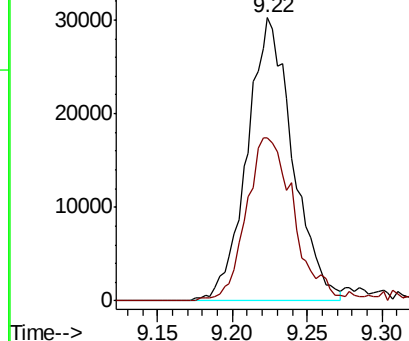
Acq: 25 Aug 2022 22:24

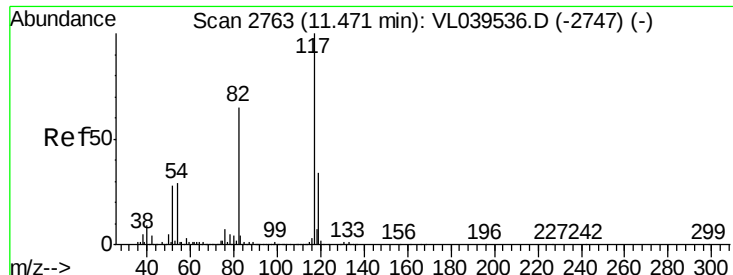
Tgt Ion: 91 Resp: 64183

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.2	72.2



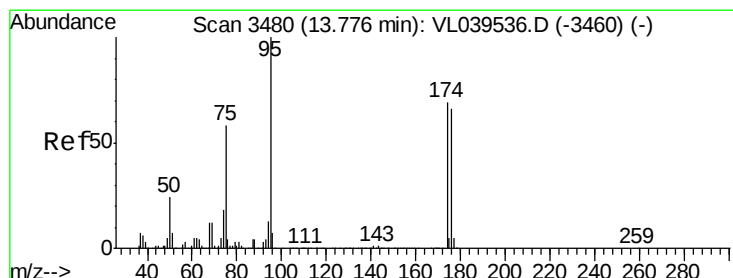
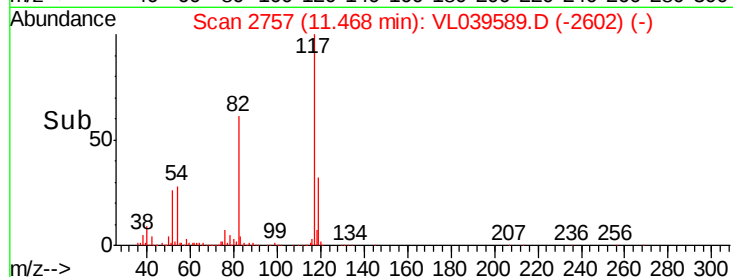
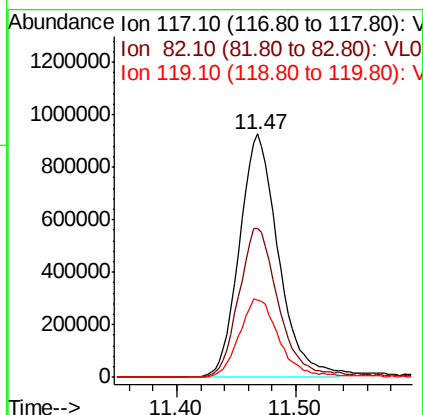
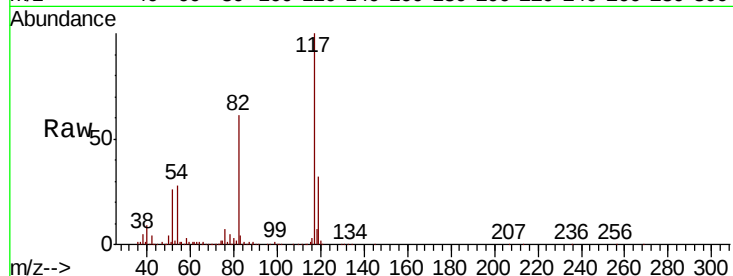
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.47 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 25 Aug 2022 22:24

Tot Ion: 117 Resp: 2095196
Ion Ratio Lower Upper
117 100
82 65.0 50.8 76.2
119 33.9 24.1 36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.941 ppbv
RT: 13.78 min Scan# 3476
Delta R.T.: 0.00 min
Lab File: VL039589.D
Acq: 25 Aug 2022 22:24

Tgt Ion: 95 Resp: 1571331
Ion Ratio Lower Upper
95 100
174 74.7 55.9 83.9
175 5.4 4.2 6.4

