

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090722\
 Data File : VL039619.D
 Acq On : 7 Sep 2022 14:53
 Operator : SY/AP
 Sample : N4494-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Quant Time: Sep 08 05:19:56 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	5.21	49	936487	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2421635	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2110387	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.78	95	1599426	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

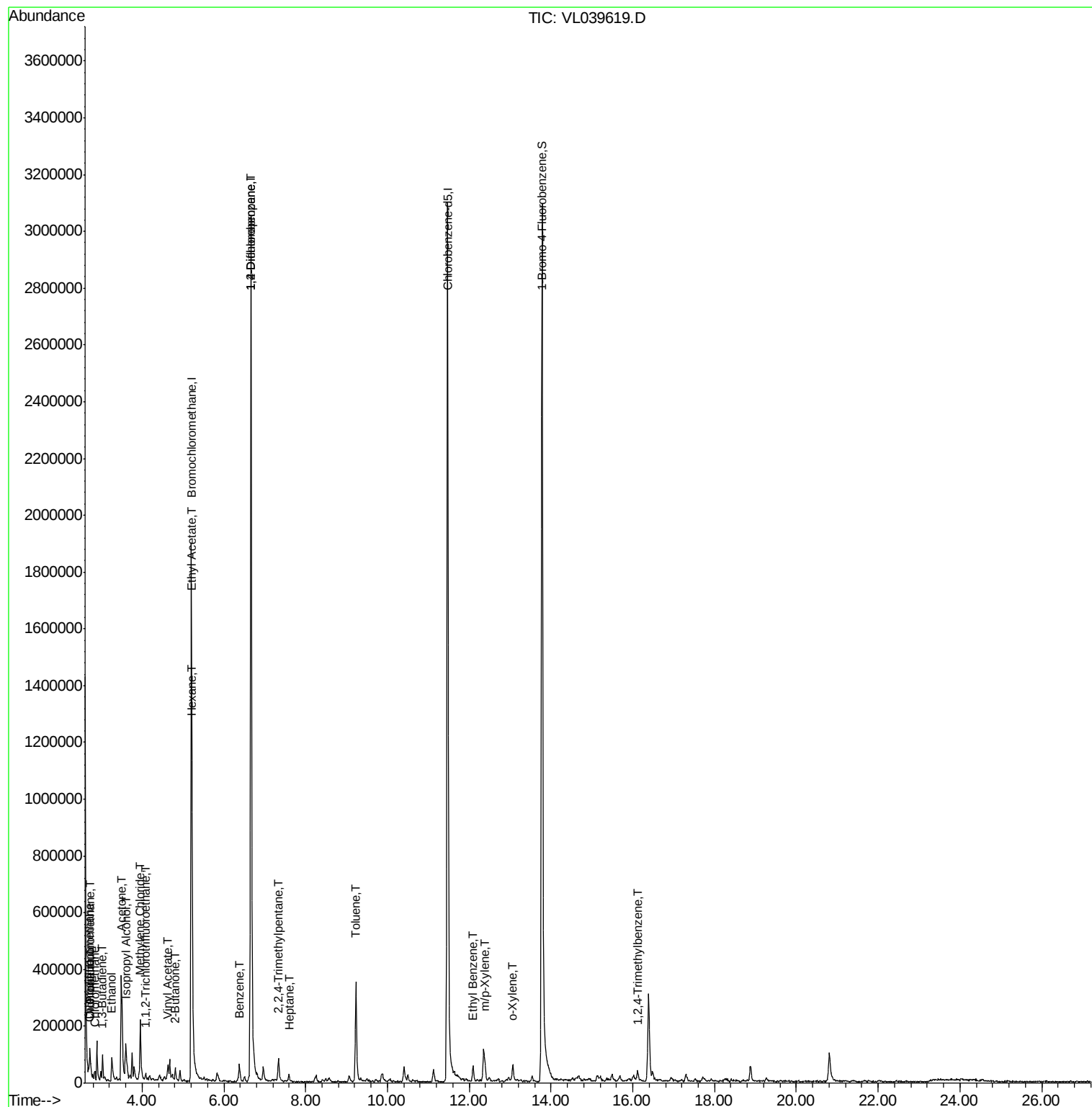
Target Compounds					Ovalue
2) Dichlorodifluoromethane	2.75	85	26809	0.215 ppbv	# 79
3) Chlorodifluoromethane	2.70	51	42576	0.382 ppbv	# 90
4) Chloromethane	2.84	50	28864	0.429 ppbv	# 89
9) Propene	2.72	41	10492	0.206 ppbv	# 15
10) Heptane	7.59	43	4606	0.039 ppbv	# 1
12) 1,1,2-Trichlorotrifluoroet	4.09	101	6399	0.063 ppbv	# 86
13) Ethanol	3.26	45	99570	27.137 ppbv	# 76
15) Acetone	3.49	43	440015	4.195 ppbv	# 100
16) 1,3-Butadiene	3.01	39	3182	0.058 ppbv	# 84
19) Isopropyl Alcohol	3.61	45	76332	1.496 ppbv	# 80
20) Methylene Chloride	3.95	84	70690	1.659 ppbv	# 98
23) Vinyl Acetate	4.63	43	34151	0.685 ppbv	# 61
25) Ethyl Acetate	5.22	43	33724	0.150 ppbv	# 91
26) Hexane	5.23	57	60771	0.663 ppbv	# 48
34) 2-Butanone	4.81	43	53986	0.448 ppbv	# 99
36) Benzene	6.38	78	24521	0.133 ppbv	# 87
39) 1,2-Dichloropropane	6.66	63	602655	8.683 ppbv	# 26
44) 2,2,4-Trimethylpentane	7.34	57	14214	0.046 ppbv	# 1
53) Toluene	9.23	91	255590	1.237 ppbv	# 99
58) Ethyl Benzene	12.10	91	24369	0.101 ppbv	# 100
59) m/p-Xylene	12.38	91	44635	0.205 ppbv	# 32
60) o-Xylene	13.07	91	22697	0.109 ppbv	# 31
74) 1,2,4-Trimethylbenzene	16.12	105	9547	0.038 ppbv	# 53

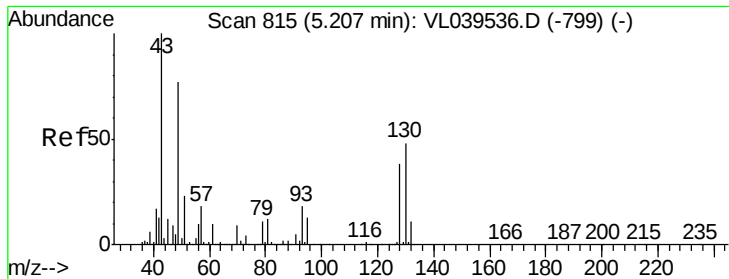
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.21 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA-1

Acq: 7 Sep 2022 14:55

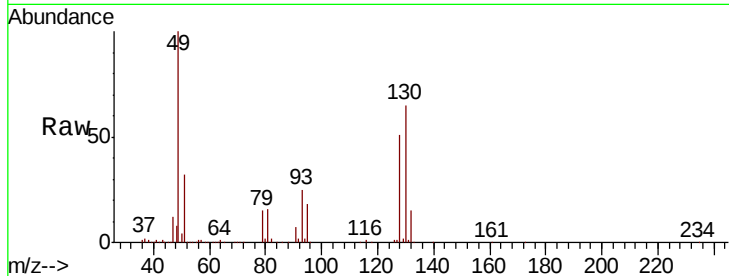
Tot Ion: 49 Resp: 936487

Ion Ratio Lower Upper

49 100

128 50.3 26.7 80.0

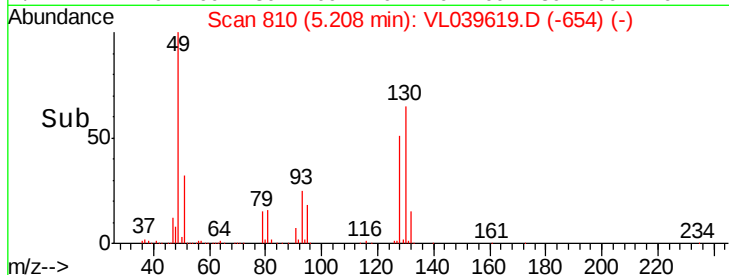
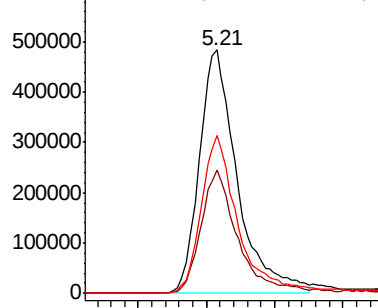
130 64.9 34.3 102.8



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



#2

Dichlorodifluoromethane

Concen: 0.215 ppbv

RT: 2.75 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL039619.D

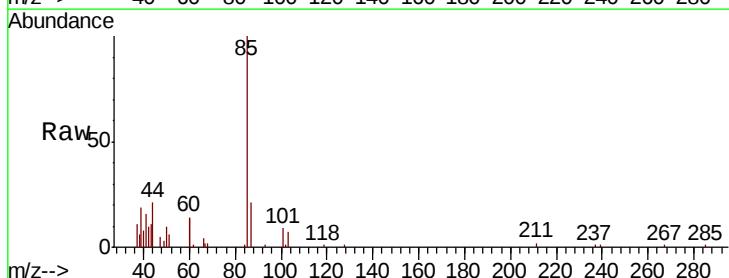
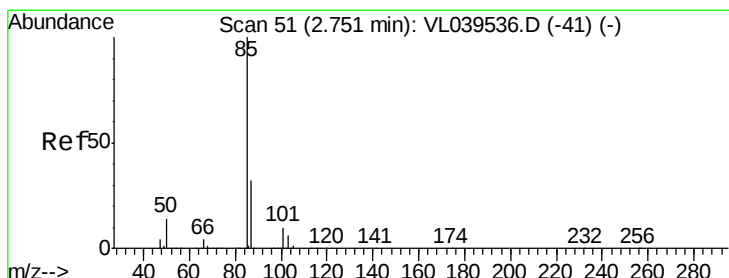
Acq: 7 Sep 2022 14:53

Tgt Ion: 85 Resp: 26809

Ion Ratio Lower Upper

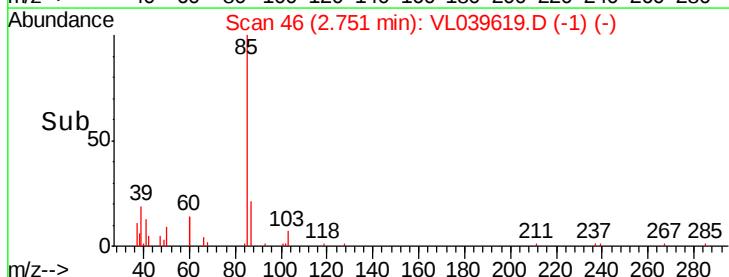
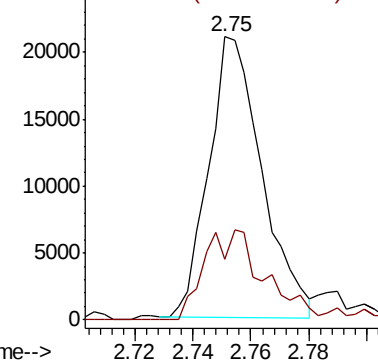
85 100

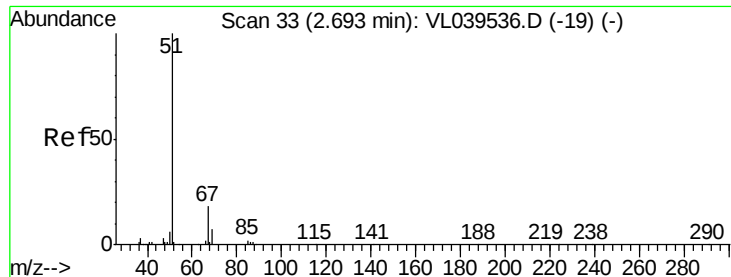
87 21.6 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.382 ppbv

RT: 2.70 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

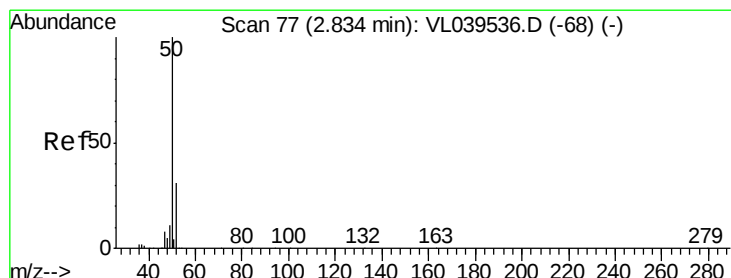
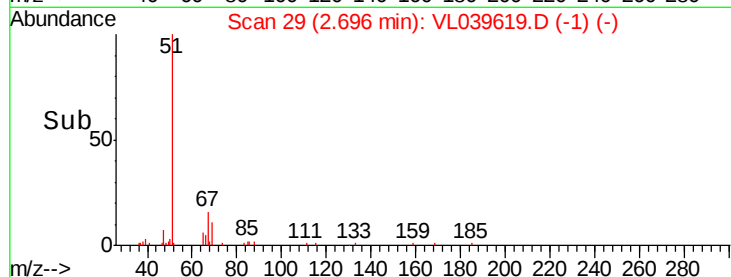
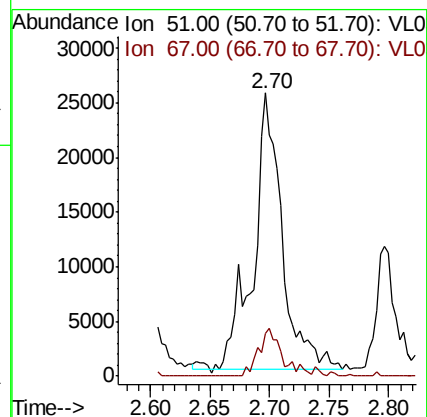
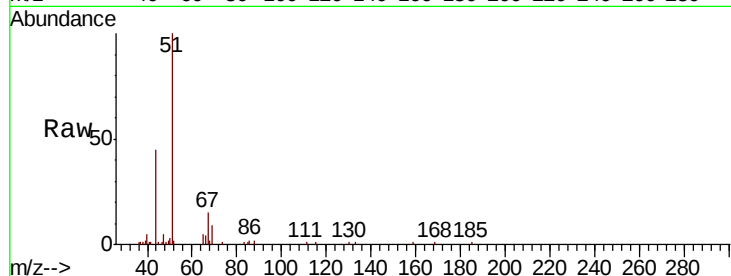
Acq: 7 Sep 2022 14:55

Tot Ion: 51 Resp: 42576

Ion Ratio Lower Upper

51 100

67 14.9 15.7 23.5#



#4

Chloromethane

Concen: 0.429 ppbv

RT: 2.84 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL039619.D

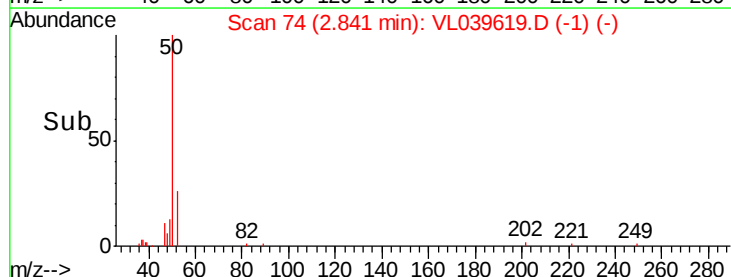
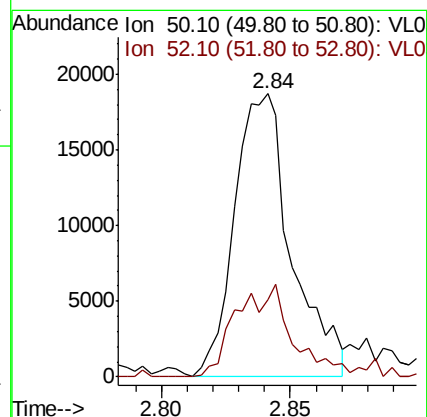
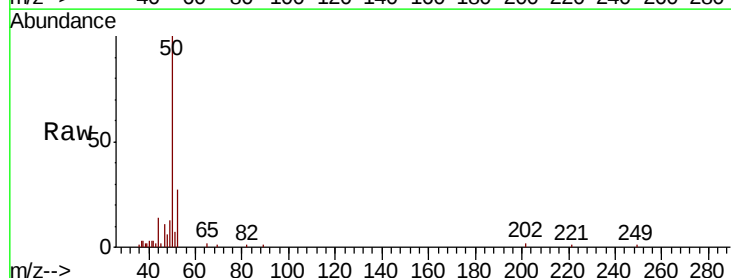
Acq: 7 Sep 2022 14:53

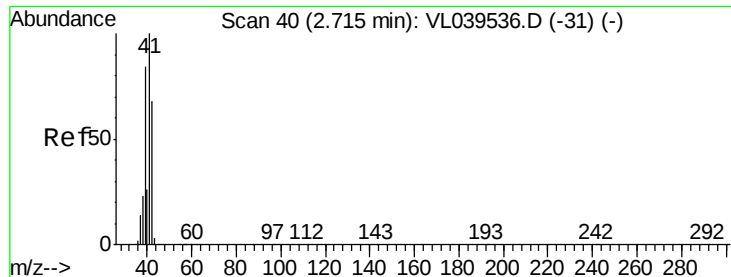
Tgt Ion: 50 Resp: 28864

Ion Ratio Lower Upper

50 100

52 27.1 26.5 39.7





#9

Propene

Concen: 0.206 ppbv

RT: 2.72 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

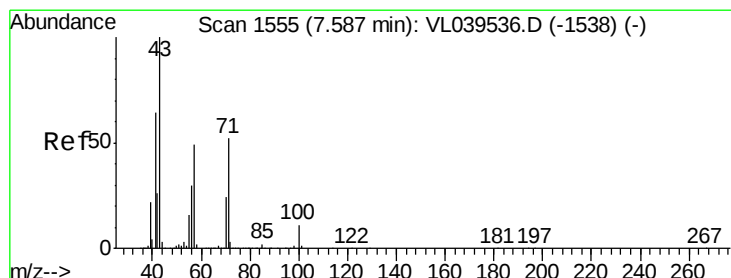
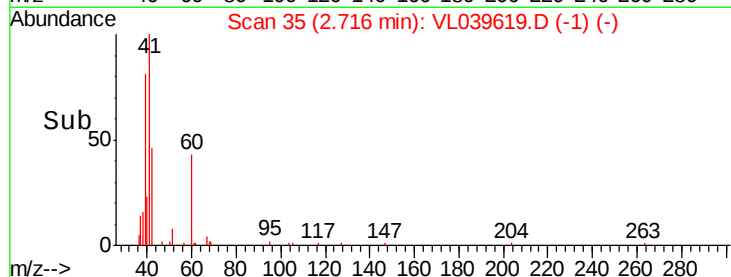
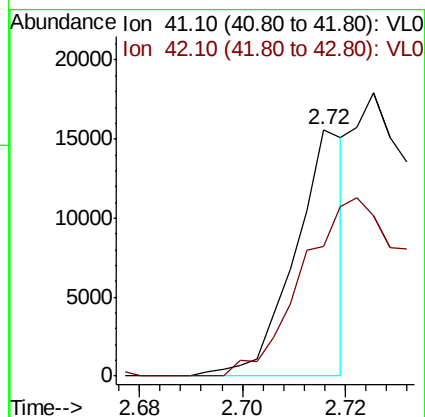
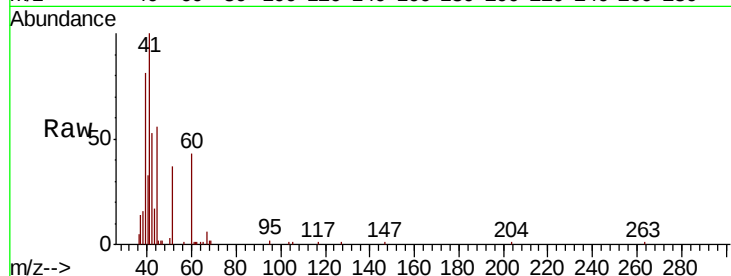
Acq: 7 Sep 2022 14:55

Tot Ion: 41 Resp: 10492

Ion Ratio Lower Upper

41 100

42 0.0 55.2 82.8#



#10

Heptane

Concen: 0.039 ppbv

RT: 7.59 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VL039619.D

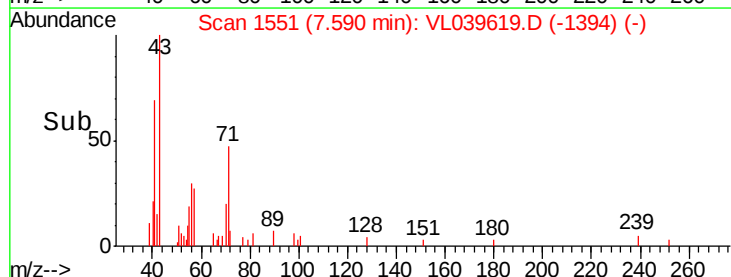
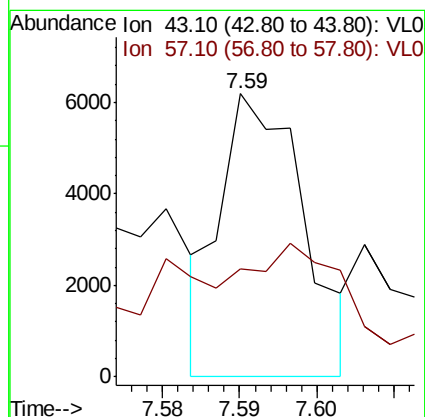
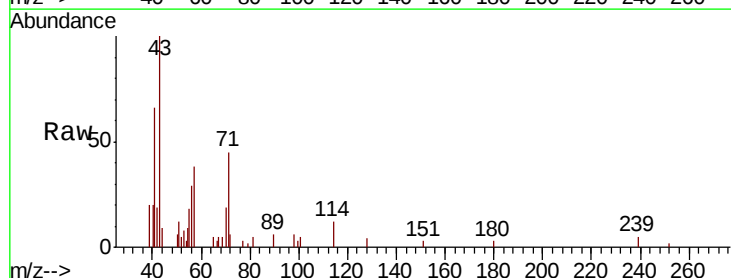
Acq: 7 Sep 2022 14:53

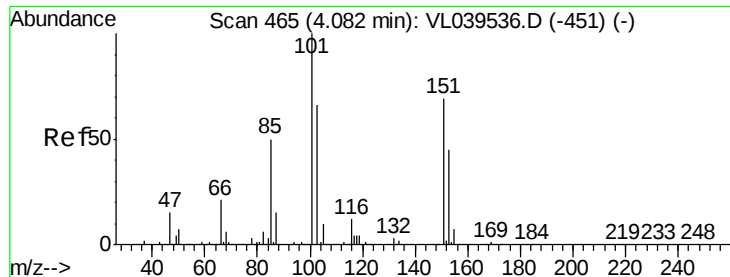
Tgt Ion: 43 Resp: 4606

Ion Ratio Lower Upper

43 100

57 150.9 40.5 60.7#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 4.09 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: OA-1

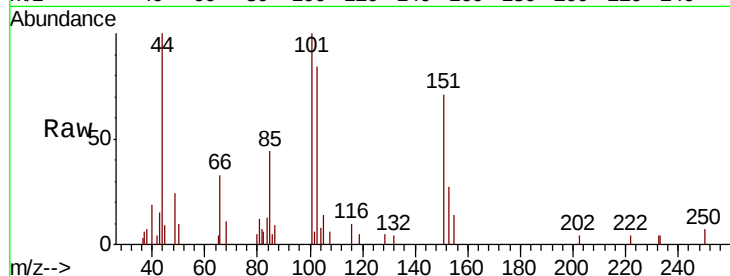
Acq: 7 Sep 2022 14:55

Tot Ion:101 Resp: 6399

Ion Ratio Lower Upper

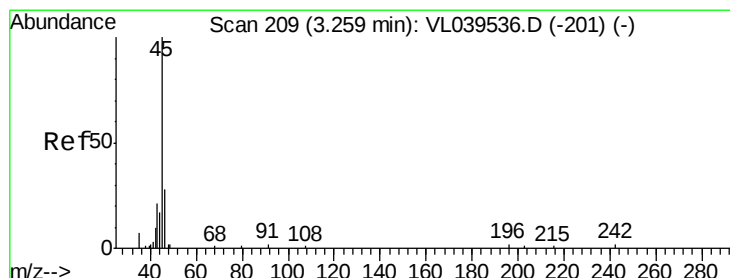
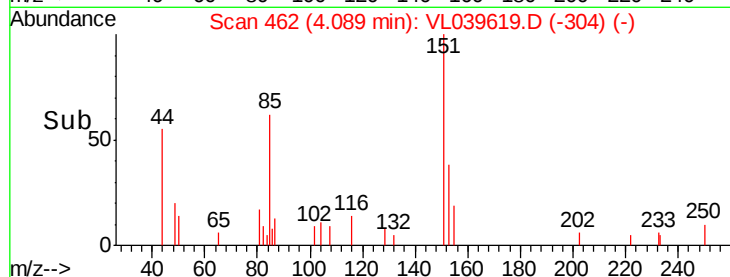
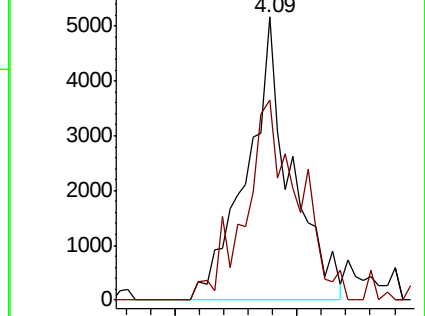
101 100

151 85.0 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: 27.137 ppbv

RT: 3.26 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL039619.D

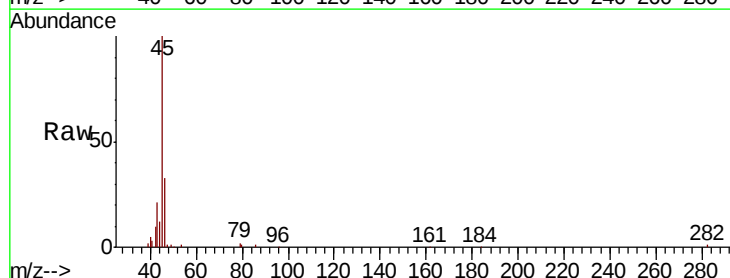
Acq: 7 Sep 2022 14:53

Tgt Ion: 45 Resp: 99570

Ion Ratio Lower Upper

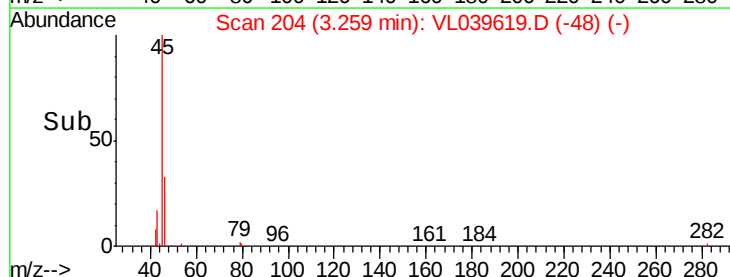
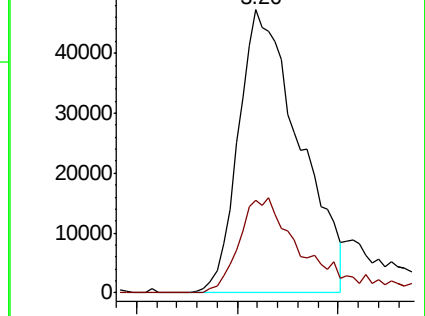
45 100

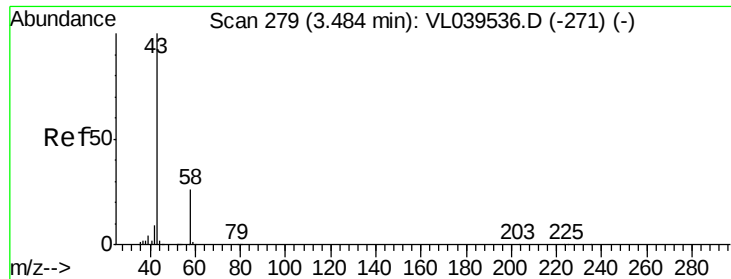
46 39.0 22.8 91.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.195 ppbv

RT: 3.49 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

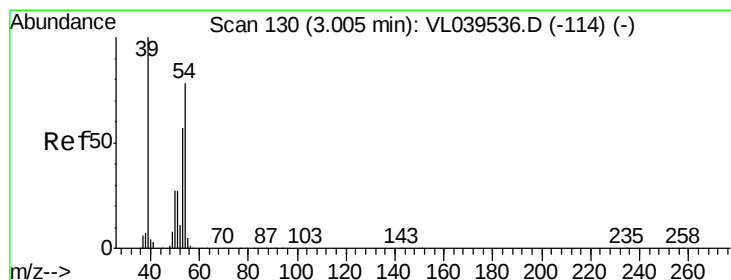
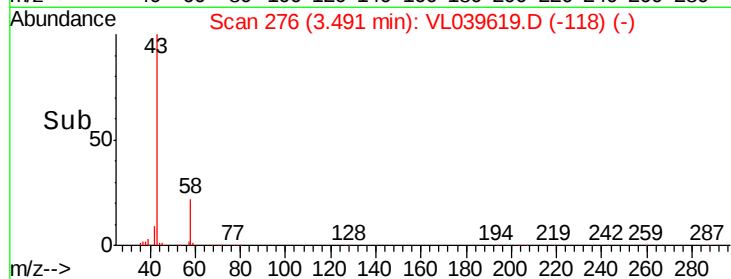
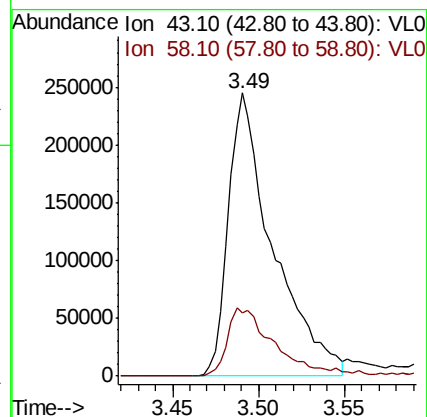
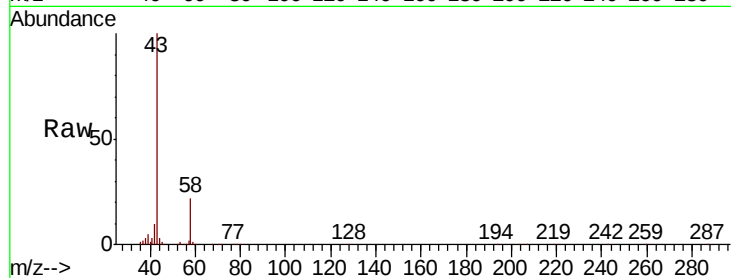
Acq: 7 Sep 2022 14:55

Tot Ion: 43 Resp: 440015

Ion Ratio Lower Upper

43 100

58 26.3 21.0 31.6



#16

1,3-Butadiene

Concen: 0.058 ppbv

RT: 3.01 min Scan# 127

Delta R.T. 0.01 min

Lab File: VL039619.D

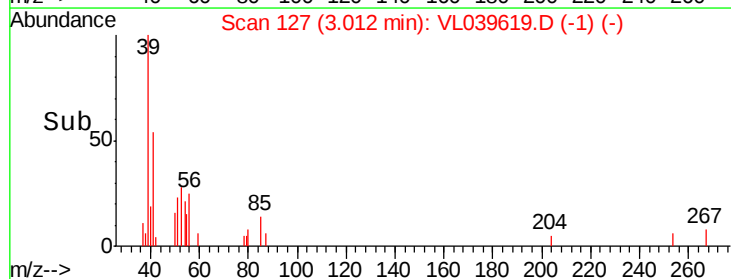
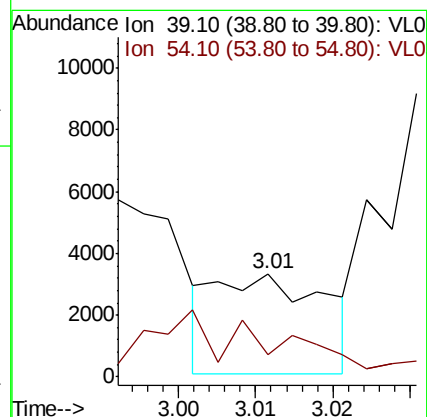
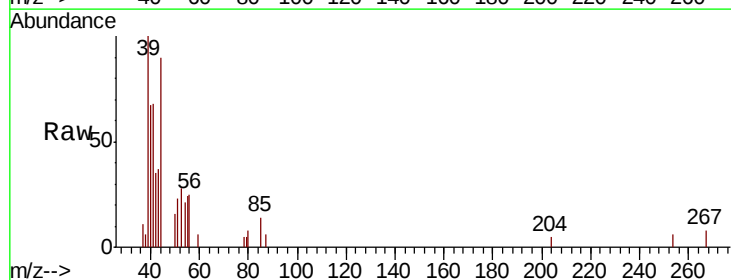
Acq: 7 Sep 2022 14:53

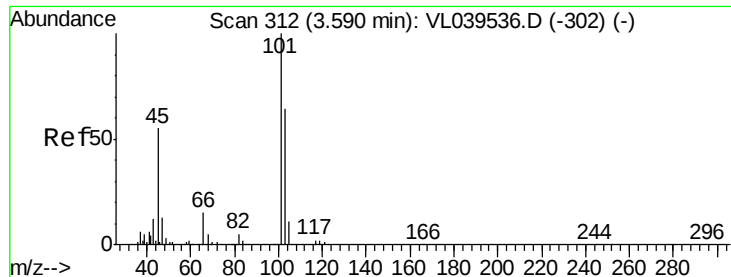
Tgt Ion: 39 Resp: 3182

Ion Ratio Lower Upper

39 100

54 93.7 63.7 95.5





#19

Isopropyl Alcohol

Concen: 1.496 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

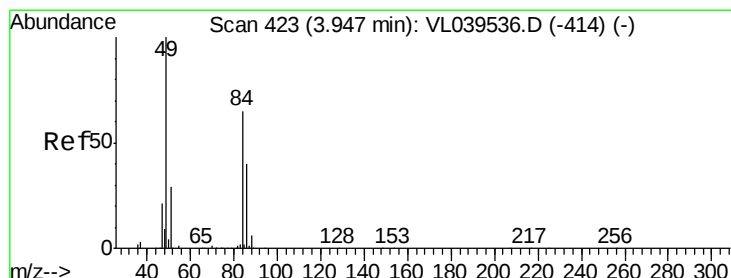
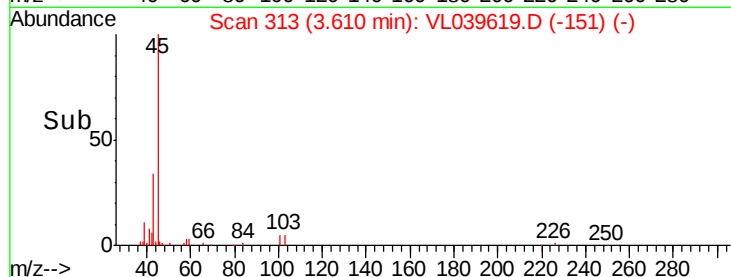
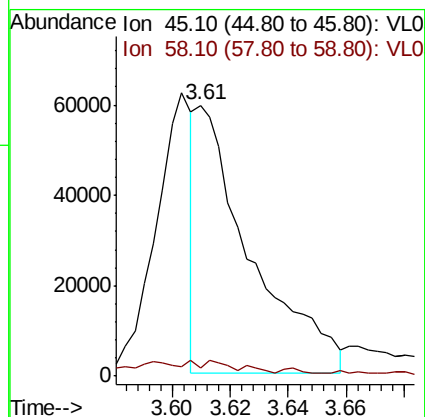
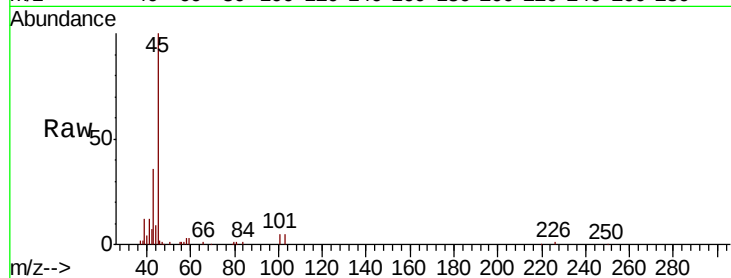
Acq: 7 Sep 2022 14:55

Tot Ion: 45 Resp: 76332

Ion Ratio Lower Upper

45 100

58 10.5 3.2 4.8#



#20

Methylene Chloride

Concen: 1.659 ppbv

RT: 3.95 min Scan# 419

Delta R.T. 0.00 min

Lab File: VL039619.D

Acq: 7 Sep 2022 14:53

Tgt Ion: 84 Resp: 70690

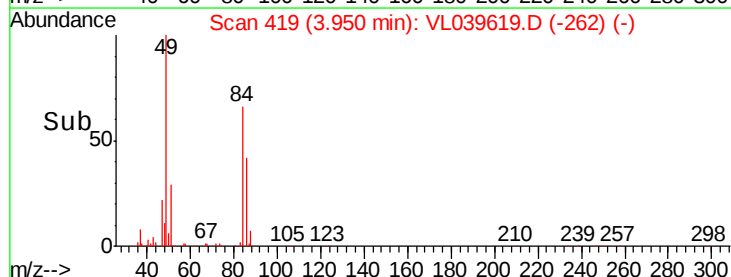
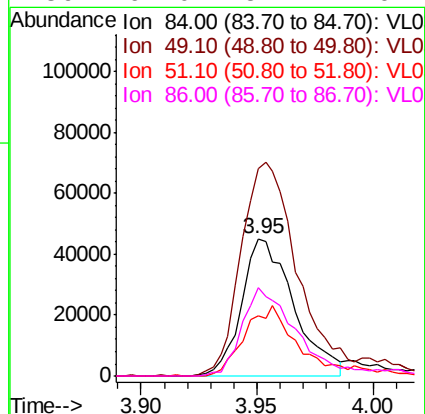
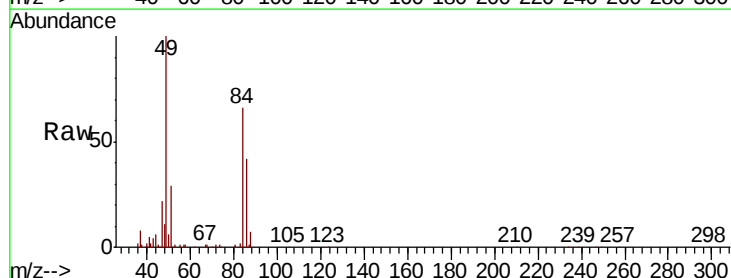
Ion Ratio Lower Upper

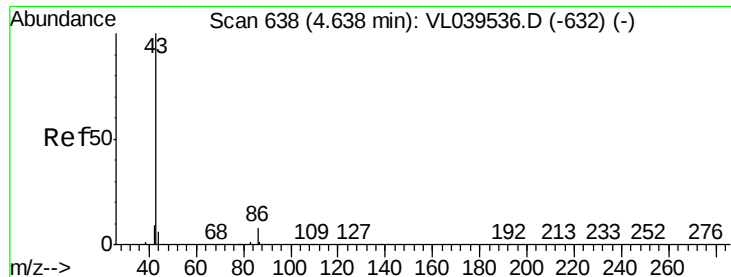
84 100

49 151.3 123.1 184.7

51 44.2 34.4 51.6

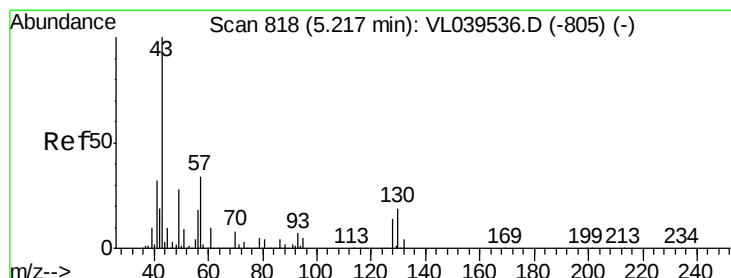
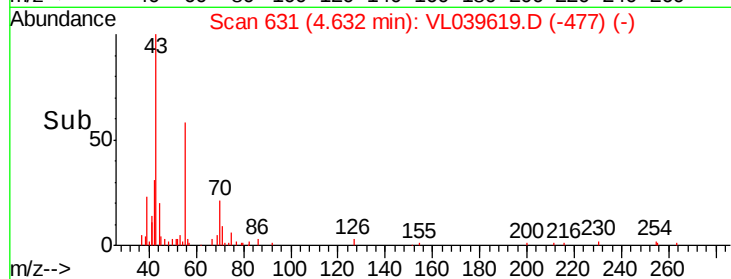
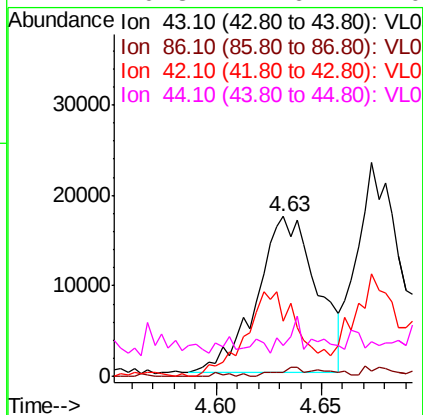
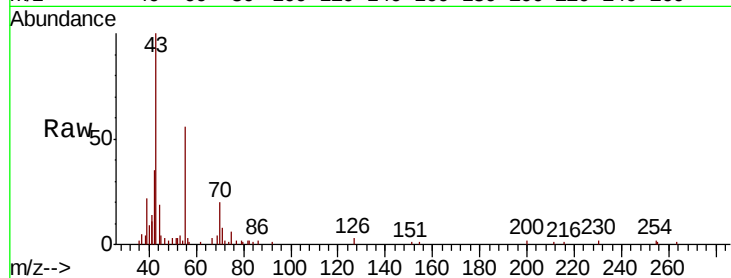
86 64.0 51.1 76.7





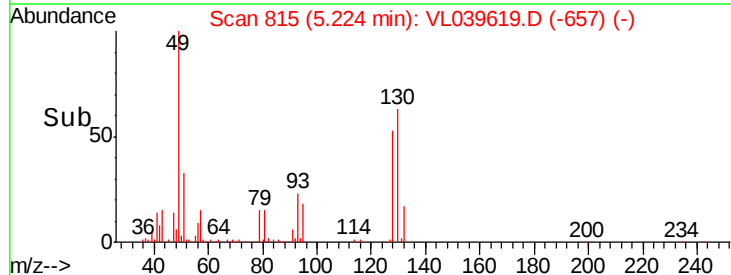
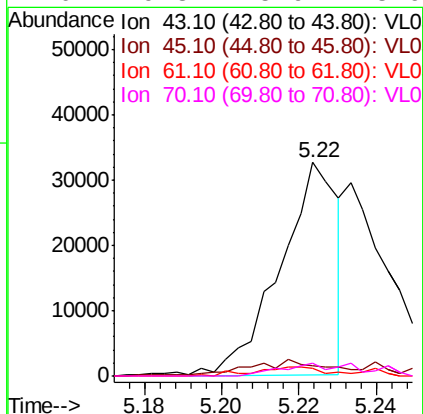
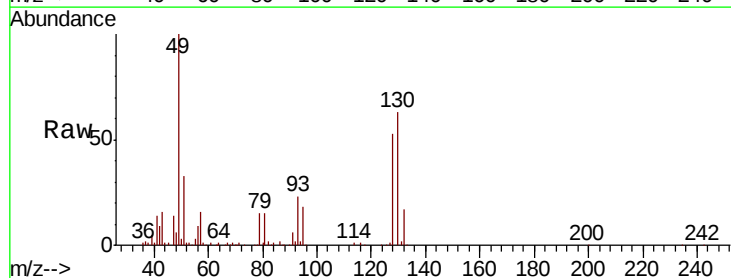
#23
 Vinyl Acetate
 Concen: 0.685 ppbv
 RT: 4.63
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 14:55

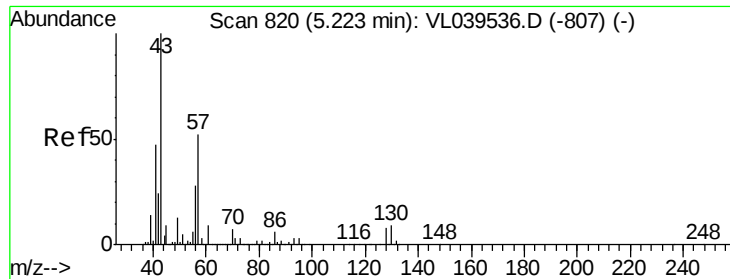
Tot Ion:	43	Resp:	34151
Ion	Ratio	Lower	Upper
43	100		
86	2.5	5.0	7.6#
42	35.4	7.7	11.5#
44	0.3	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.150 ppbv
 RT: 5.22 min Scan# 815
 Delta R.T. 0.01 min
 Lab File: VL039619.D
 Acq: 7 Sep 2022 14:53

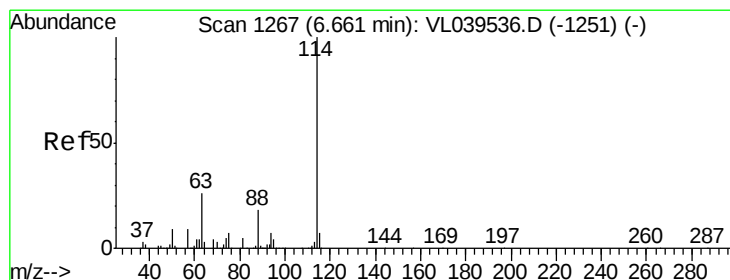
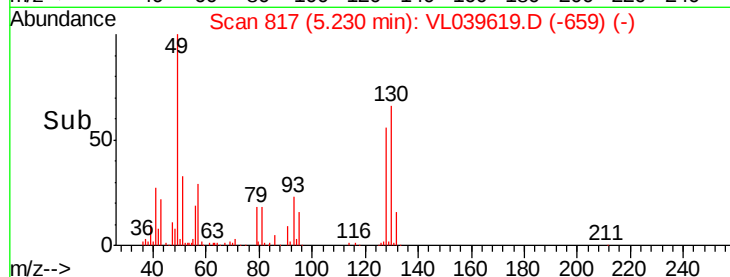
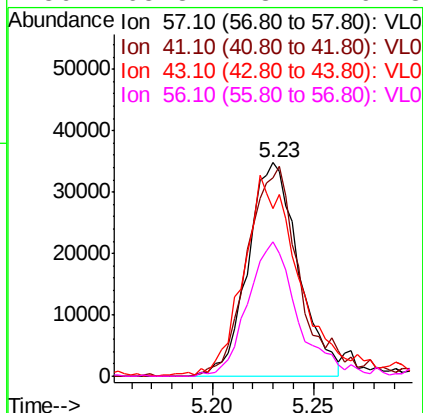
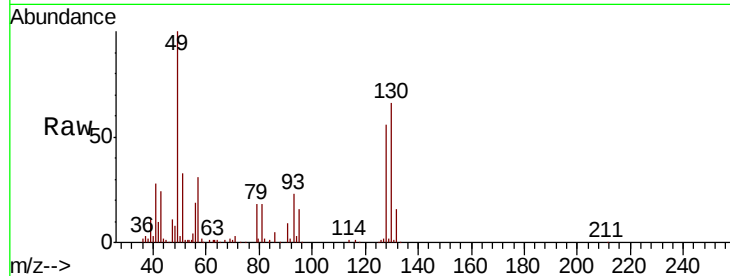
Tgt Ion:	43	Resp:	33724
Ion	Ratio	Lower	Upper
43	100		
45	13.5	8.2	12.4#
61	6.5	8.3	12.5#
70	9.8	5.9	8.9#





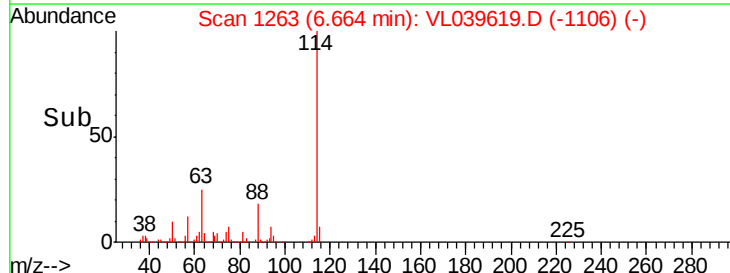
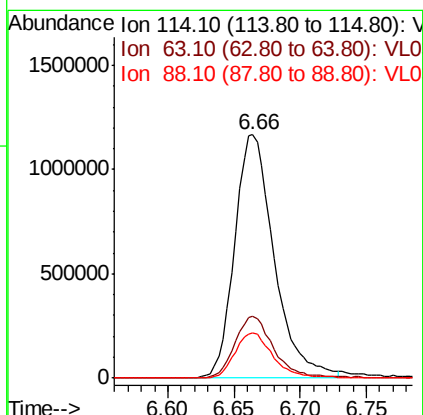
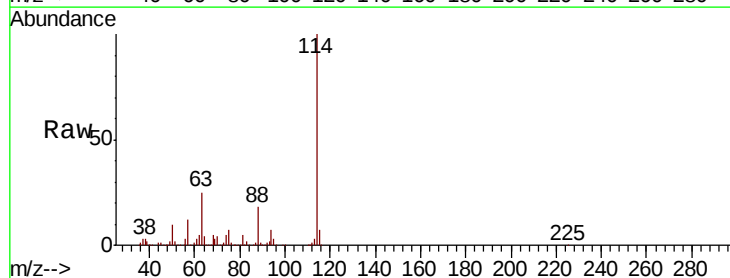
#26
Hexane
Concen: 0.663 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 14:55

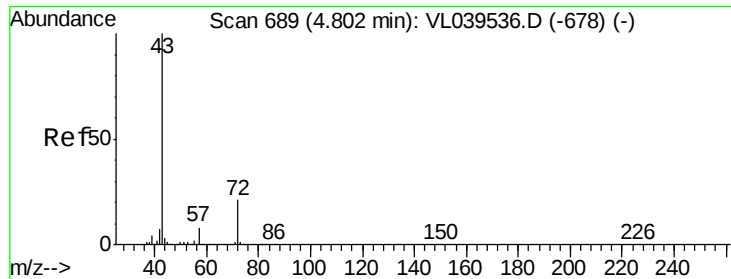
Tot Ion:	57	Resp:	60771
Ion	Ratio	Lower	Upper
57	100		
41	107.3	76.9	115.3
43	108.3	191.0	286.6#
56	65.8	43.2	64.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.66 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VL039619.D
Acq: 7 Sep 2022 14:53

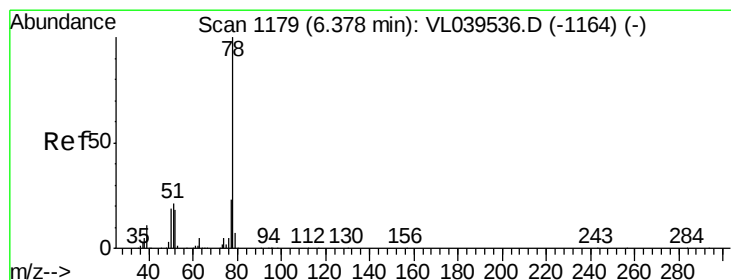
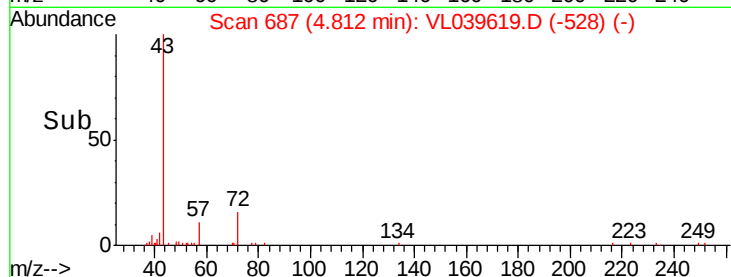
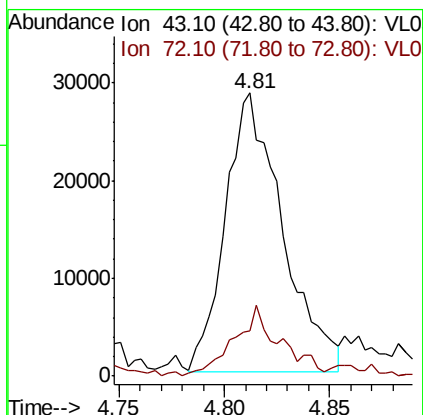
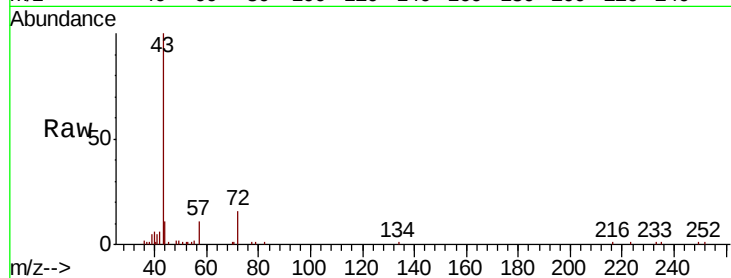
Tgt Ion:	114	Resp:	2421635
Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.4
88	18.3	14.5	21.7





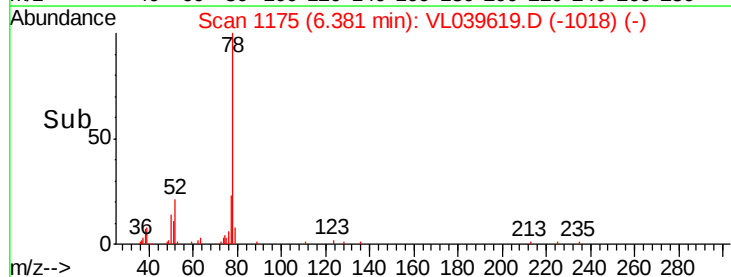
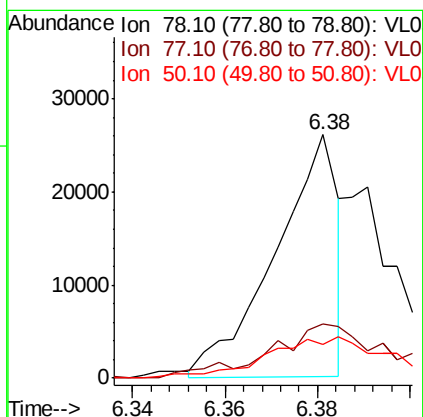
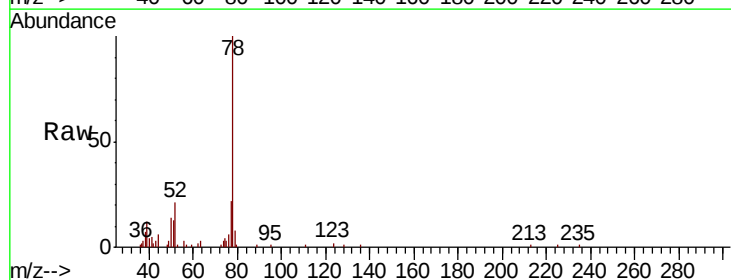
#34
 2-Butanone
 Concen: 0.448 ppbv
 RT: 4.81
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 14:55

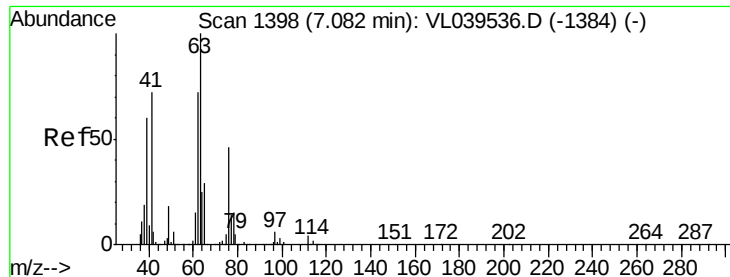
Tot Ion: 43 Resp: 53986
 Ion Ratio Lower Upper
 43 100
 72 23.0 17.9 26.9



#36
 Benzene
 Concen: 0.133 ppbv
 RT: 6.38 min Scan# 1175
 Delta R.T. 0.00 min
 Lab File: VL039619.D
 Acq: 7 Sep 2022 14:53

Tgt Ion: 78 Resp: 24521
 Ion Ratio Lower Upper
 78 100
 77 19.4 20.3 30.5#
 50 12.3 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 8.683 ppbv

RT: 6.66 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Sep 2022 14:55

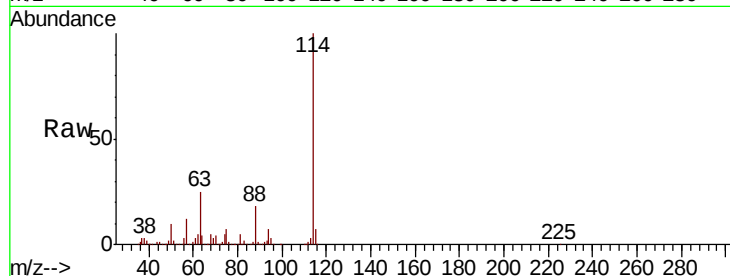
Tot Ion: 63 Resp: 602655

Ion Ratio Lower Upper

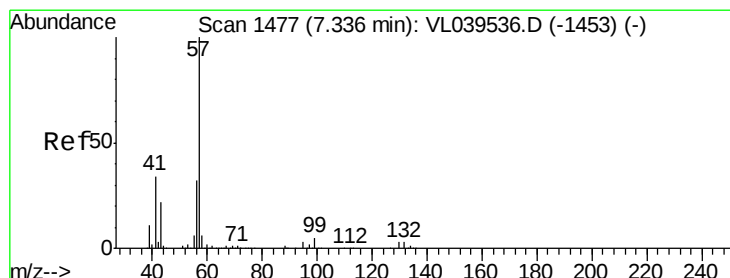
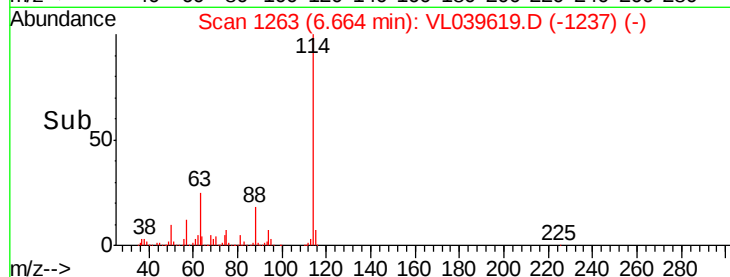
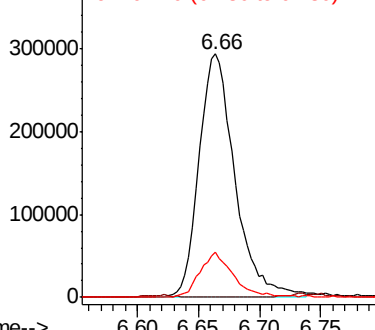
63 100

41 0.0 59.6 89.4#

62 18.8 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



#44

2,2,4-Trimethylpentane

Concen: 0.046 ppbv

RT: 7.34 min Scan# 1472

Delta R.T. 0.00 min

Lab File: VL039619.D

Acq: 7 Sep 2022 14:53

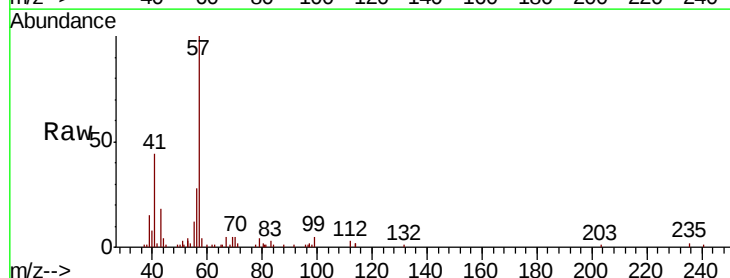
Tgt Ion: 57 Resp: 14214

Ion Ratio Lower Upper

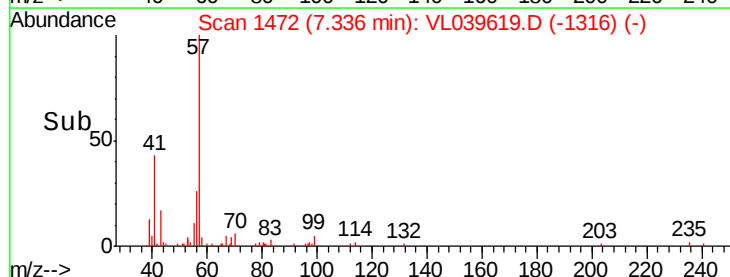
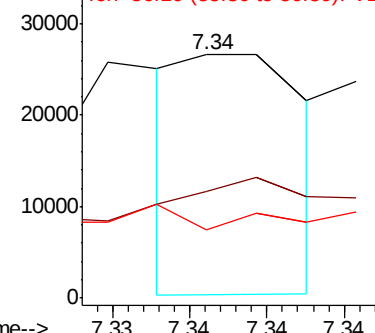
57 100

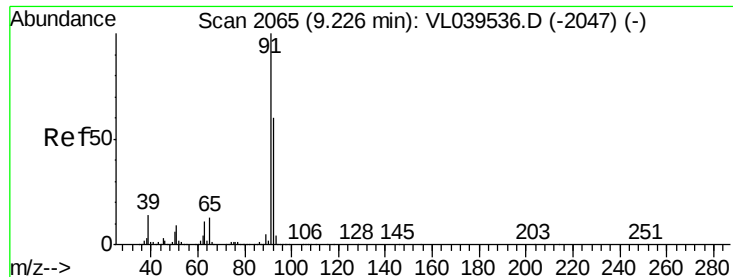
41 227.0 27.4 41.2#

56 184.2 24.5 36.7#



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





#53

Toluene

Concen: 1.237 ppbv

RT: 9.23 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: OA-1

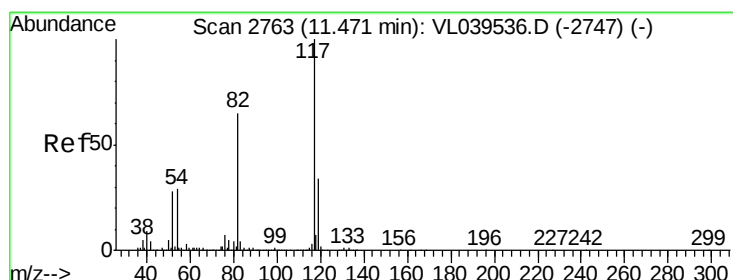
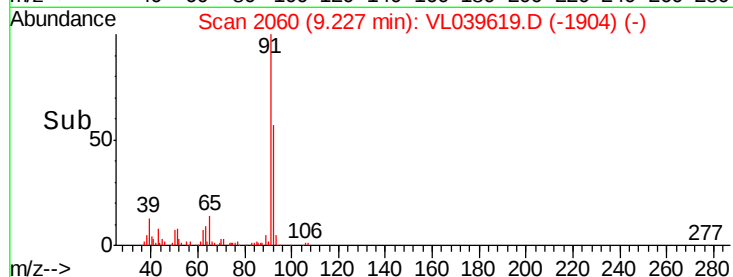
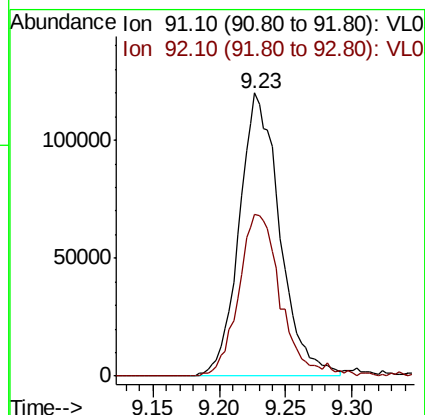
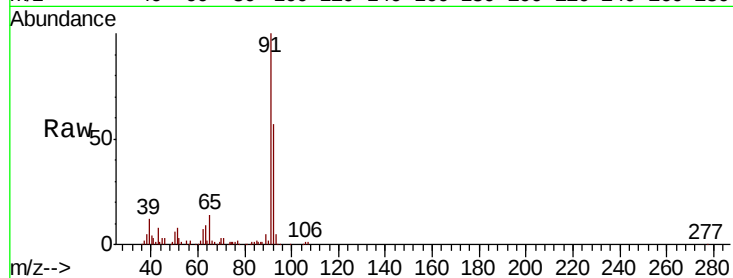
Acq: 7 Sep 2022 14:55

Tot Ion: 91 Resp: 255590

Ion Ratio Lower Upper

91 100

92 59.6 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.47 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VL039619.D

Acq: 7 Sep 2022 14:53

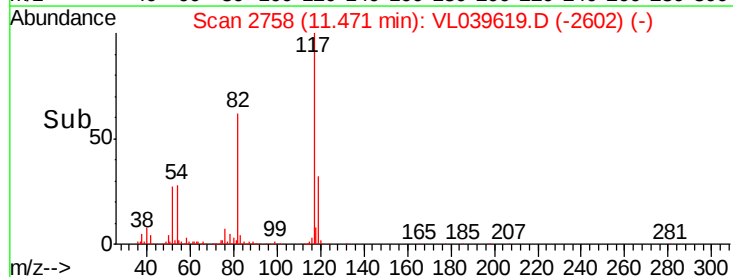
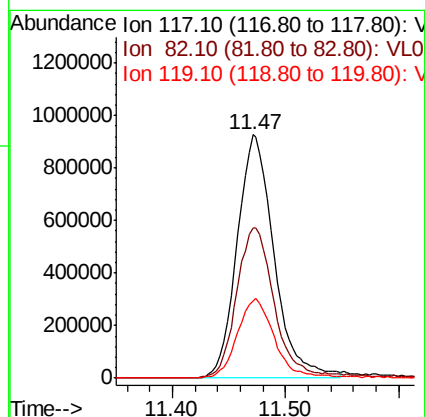
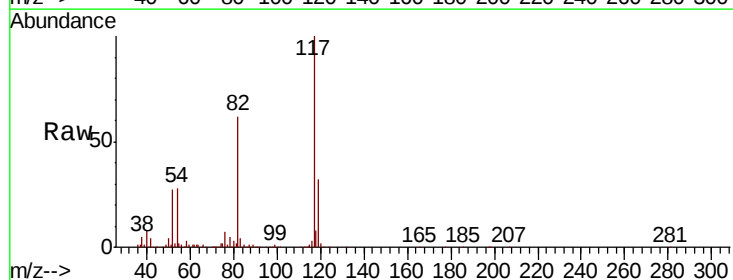
Tgt Ion: 117 Resp: 2110387

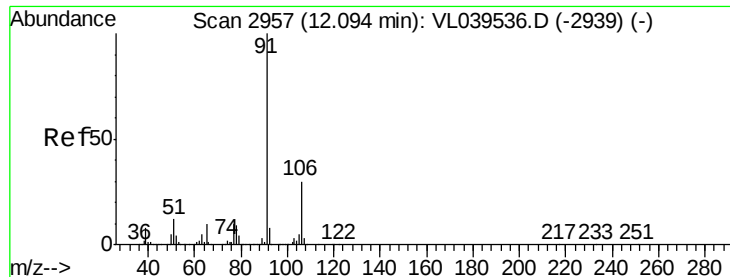
Ion Ratio Lower Upper

117 100

82 64.9 50.8 76.2

119 33.8 24.1 36.1





#58

Ethyl Benzene

Concen: 0.101 ppbv

RT: 12.10 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

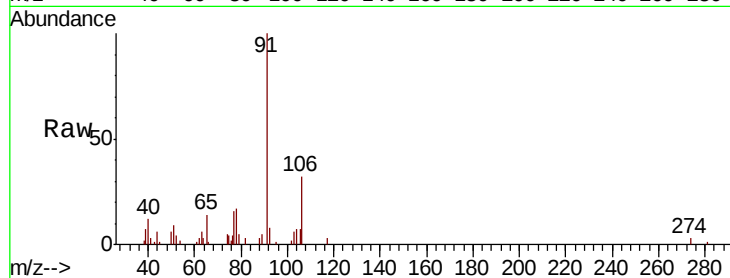
Acq: 7 Sep 2022 14:55

Tot Ion: 91 Resp: 24369

Ion Ratio Lower Upper

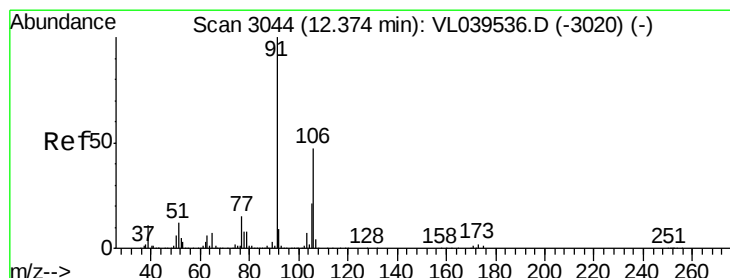
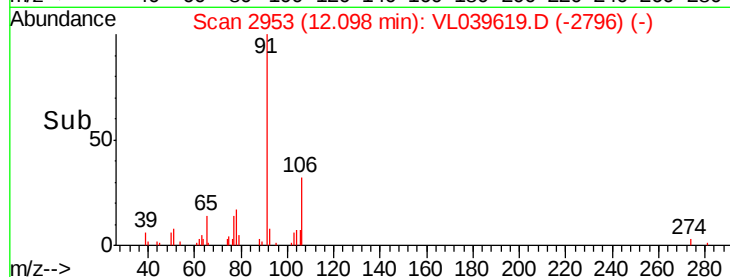
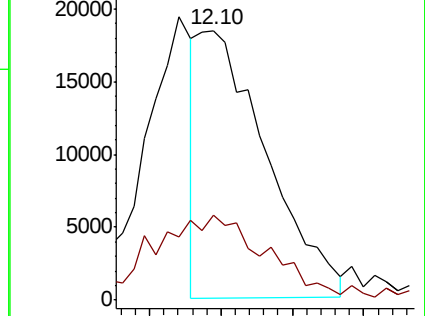
91 100

106 32.0 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.205 ppbv

RT: 12.38 min Scan# 3041

Delta R.T. 0.01 min

Lab File: VL039619.D

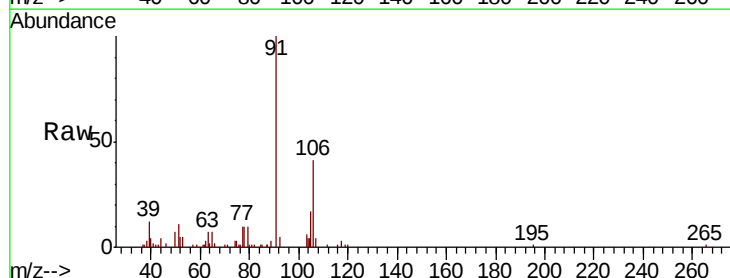
Acq: 7 Sep 2022 14:53

Tgt Ion: 91 Resp: 44635

Ion Ratio Lower Upper

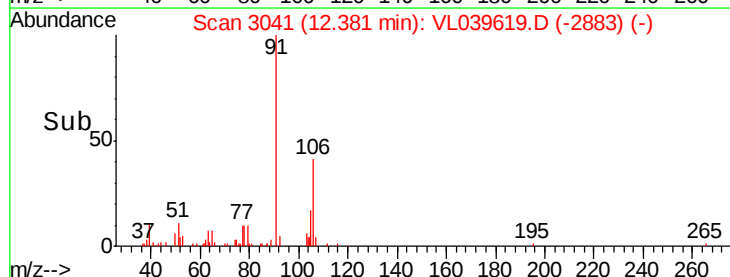
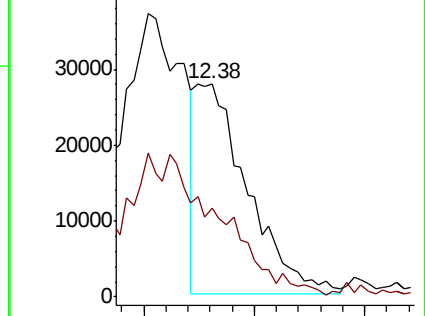
91 100

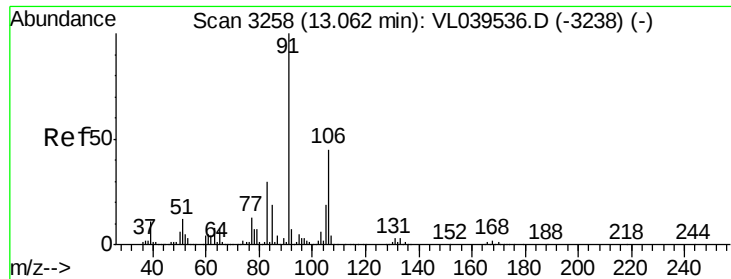
106 0.0 35.4 53.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

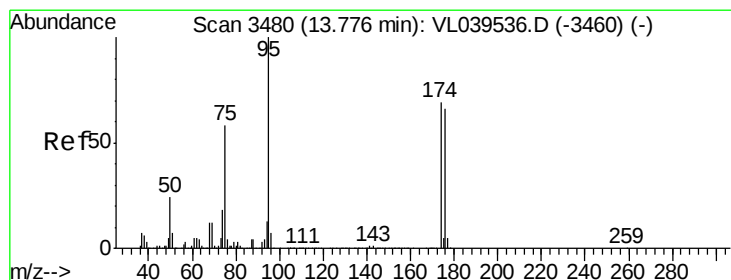
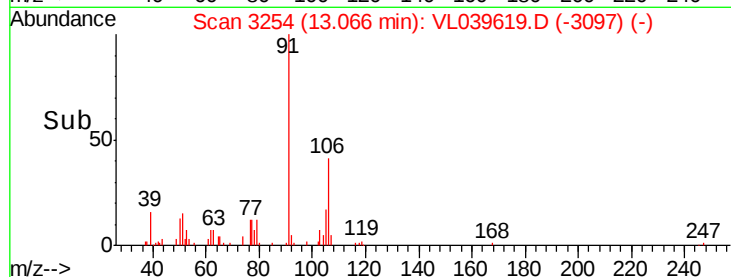
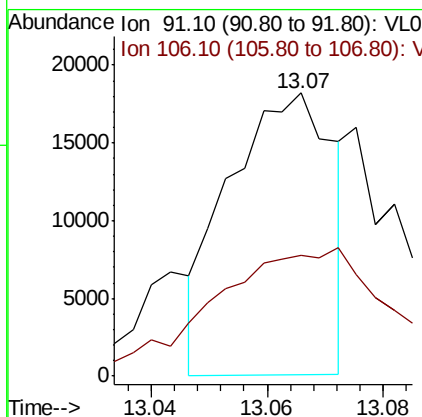
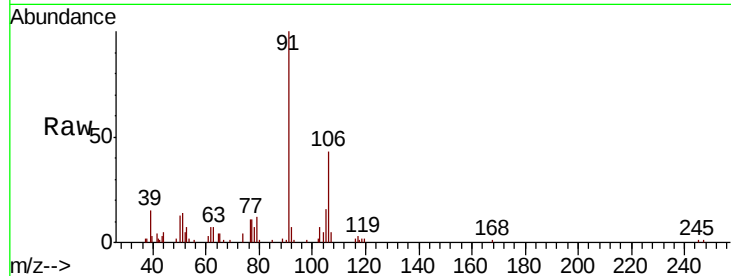
Ion 106.10 (105.80 to 106.80): V





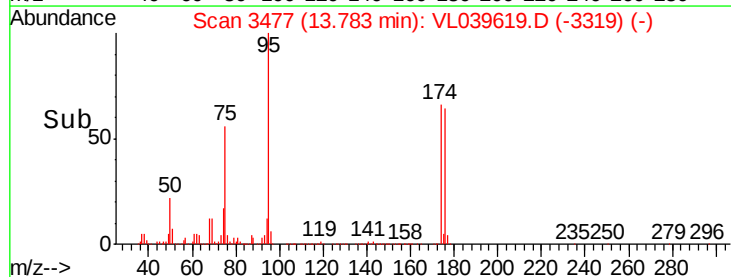
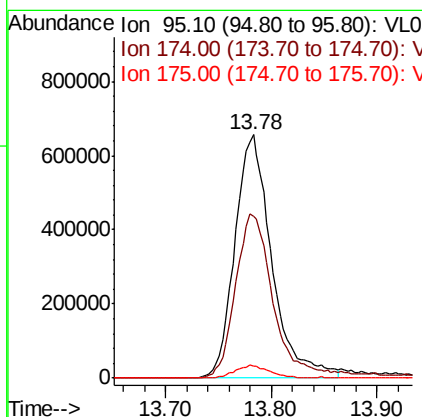
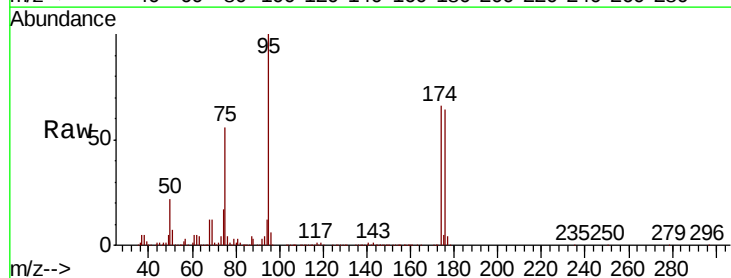
#60
o-Xylene
Concen: 0.109 ppbv
RT: 13.07 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 14:55

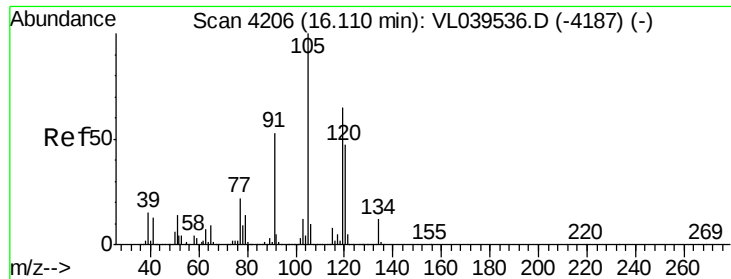
Tot Ion: 91 Resp: 22697
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.046 ppbv
RT: 13.78 min Scan# 3477
Delta R.T. 0.01 min
Lab File: VL039619.D
Acq: 7 Sep 2022 14:53

Tgt Ion: 95 Resp: 1599426
Ion Ratio Lower Upper
95 100
174 72.5 55.9 83.9
175 5.2 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.038 ppbv
 RT: 16.12
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 14:33

Tot Ion:	105	Resp:	9547
Ion	Ratio	Lower	Upper
105	100		
120	86.1	39.5	59.3#
91	7.4	39.2	58.8#
77	21.4	17.2	25.8

