

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071222\
 Data File : VL039464.D
 Acq On : 13 Jul 2022 1:58
 Operator : SY/AP
 Sample : N3660-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Quant Time: Jul 13 05:56:32 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	5.68	49	1320037	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3757476	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3399693	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2570369	10.19	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

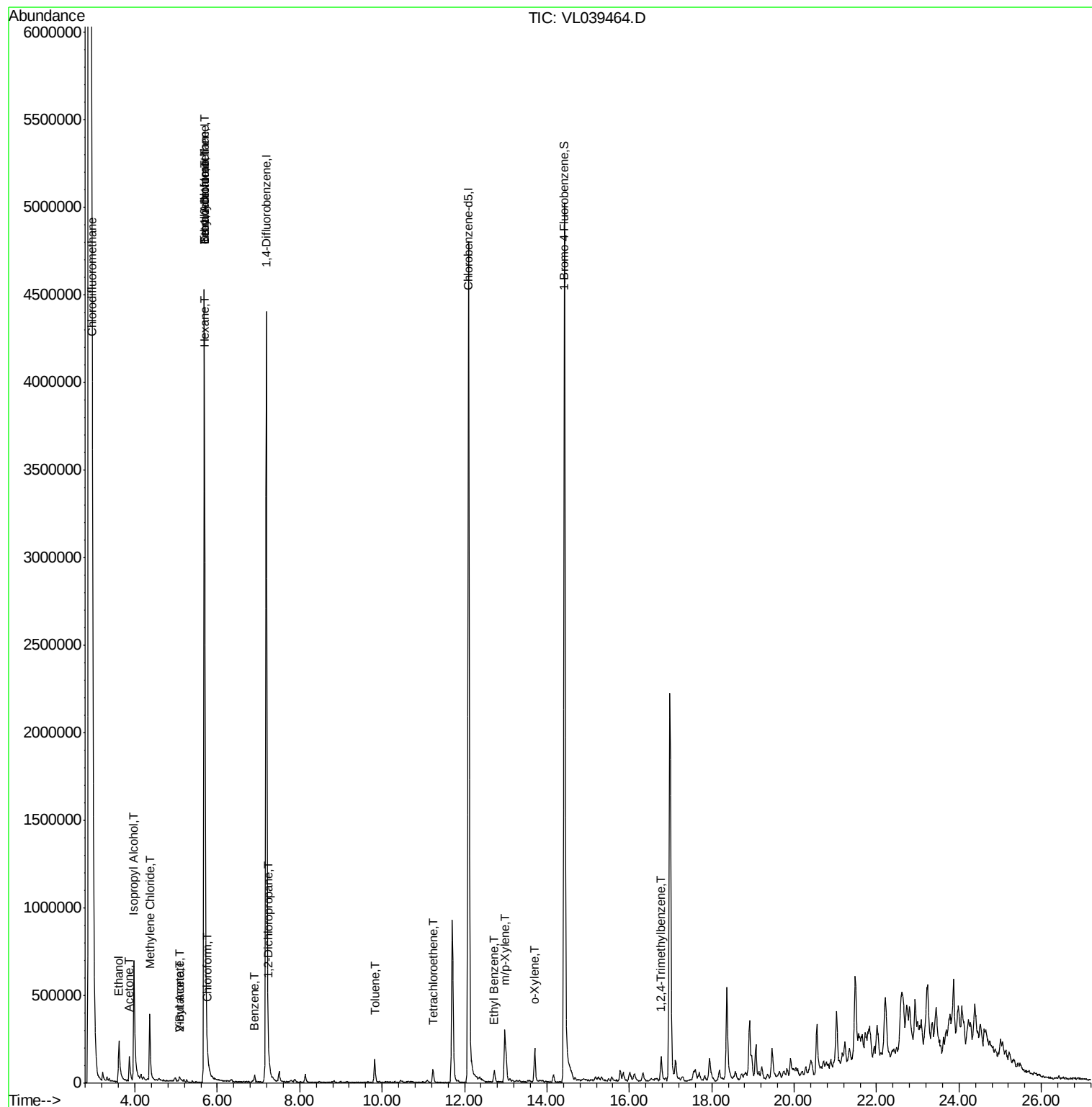
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.98	51	30193	0.18	ppbv #	63
13) Ethanol	3.61	45	357211	81.41	ppbv	74
15) Acetone	3.86	43	160676	1.03	ppbv	93
19) Isopropyl Alcohol	3.97	45	918514	11.03	ppbv #	95
20) Methylene Chloride	4.36	84	147505	2.37	ppbv	94
23) Vinyl Acetate	5.08	43	35102	0.34	ppbv #	93
25) Ethyl Acetate	5.68	43	2794074	8.73	ppbv #	93
26) Hexane	5.70	57	214042	1.66	ppbv #	1
29) Chloroform	5.77	83	8182	0.04	ppbv	84
31) cis-1,2-Dichloroethene	5.69	61	326328	2.38	ppbv #	23
34) 2-Butanone	5.08	43	33491	0.18	ppbv #	67
36) Benzene	6.91	78	30653	0.11	ppbv	97
39) 1,2-Dichloropropane	7.24	63	12196	0.11	ppbv #	27
41) Tetrahydrofuran	5.69	42	263751	2.41	ppbv #	44
52) Tetrachloroethene	11.25	164	5090	0.04	ppbv #	69
53) Toluene	9.82	91	105378	0.31	ppbv	100
58) Ethyl Benzene	12.73	91	57503	0.13	ppbv #	85
59) m/p-Xylene	12.98	91	310745	0.80	ppbv	97
60) o-Xylene	13.70	91	148338	0.40	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	101419	0.23	ppbv #	74

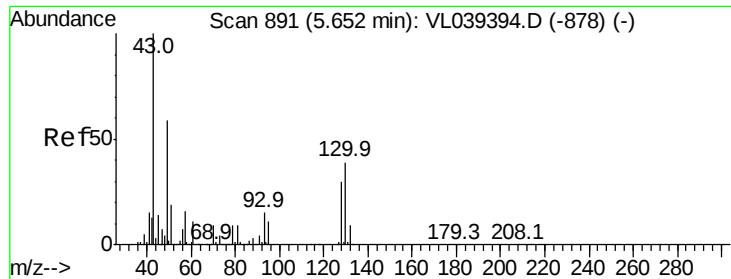
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 13 Jul 2022 1:58

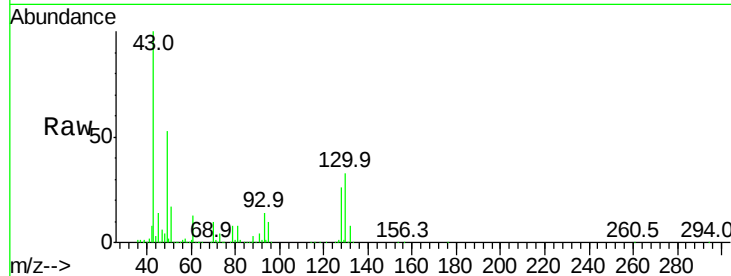
Tgt Ion: 49 Resp: 1320037

Ion Ratio Lower Upper

49 100

128 54.2 26.7 80.0

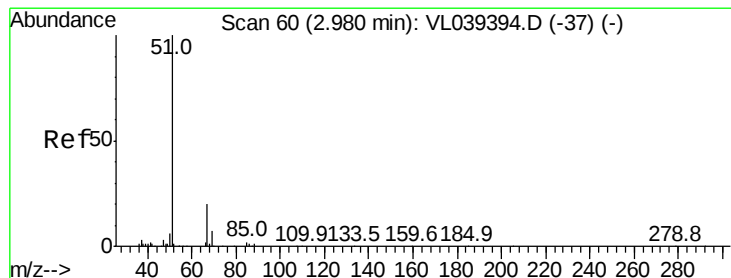
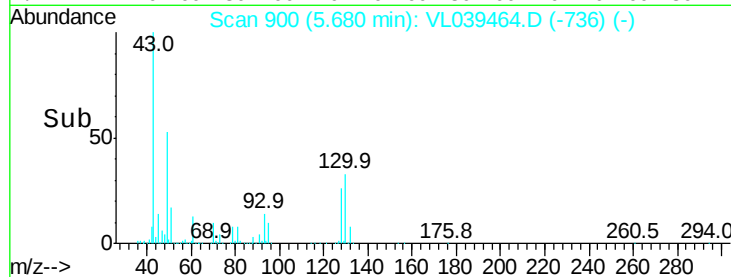
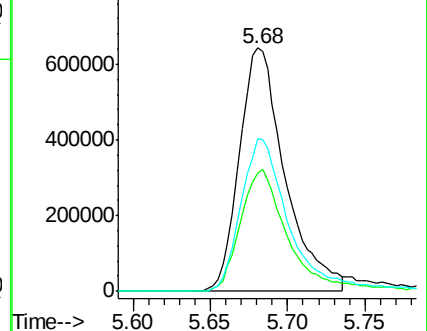
130 67.6 34.3 102.8



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: 0.18 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL039464.D

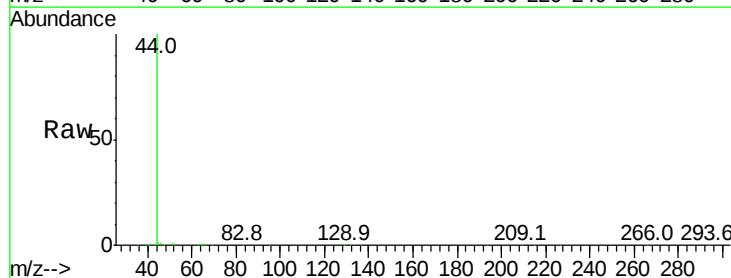
Acq: 13 Jul 2022 1:58

Tgt Ion: 51 Resp: 30193

Ion Ratio Lower Upper

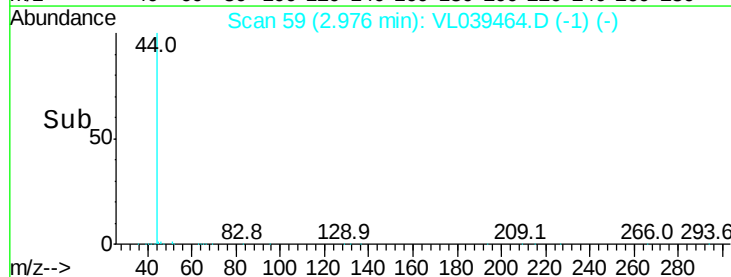
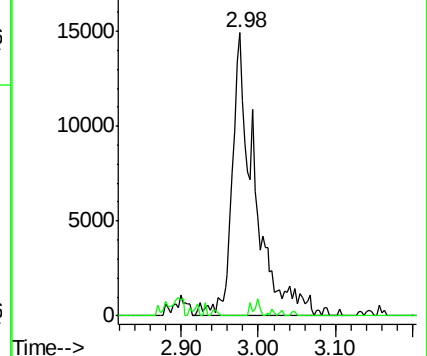
51 100

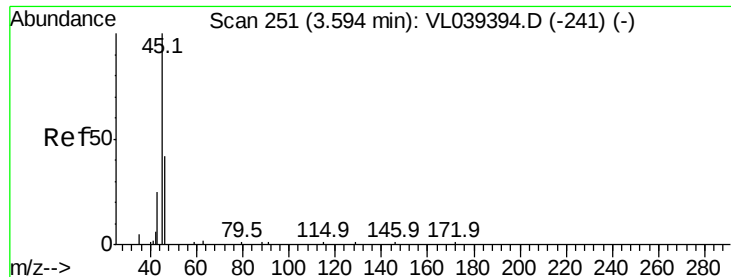
67 2.6 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#13

Ethanol

Concen: 81.41 ppbv

RT: 3.61

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

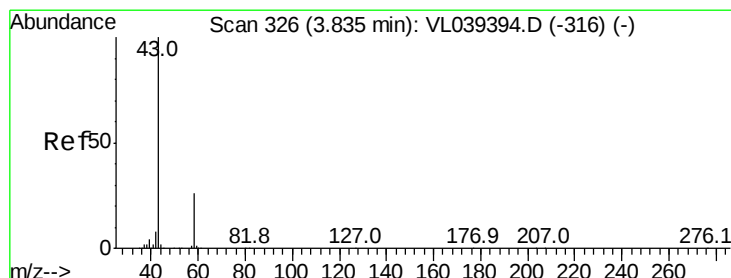
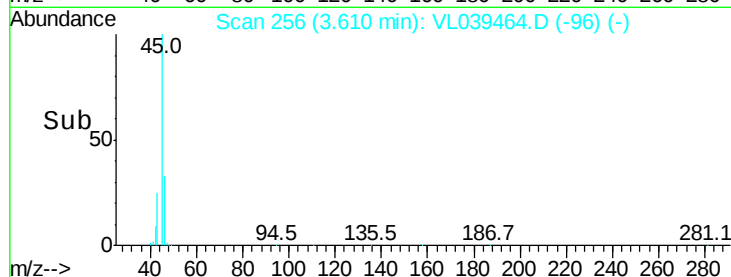
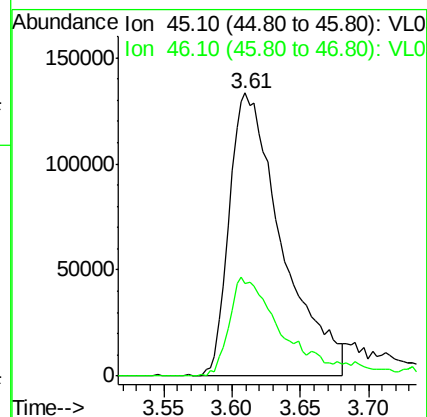
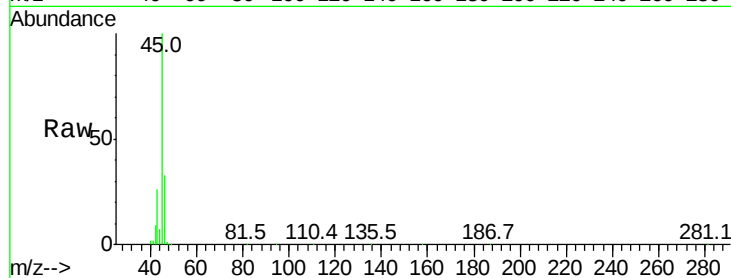
Acq: 13 Jul 2022 1:58

Tgt Ion: 45 Resp: 357211

Ion Ratio Lower Upper

45 100

46 38.2 22.8 91.2



#15

Acetone

Concen: 1.03 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.03 min

Lab File: VL039464.D

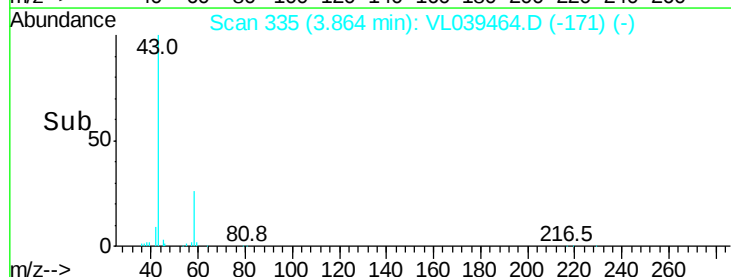
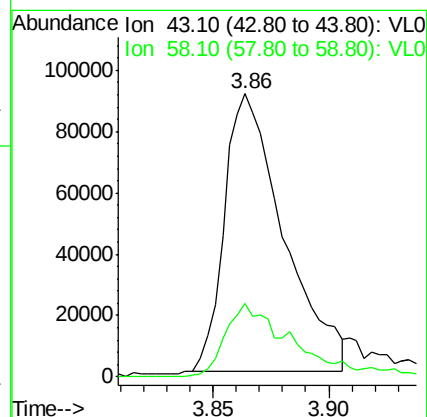
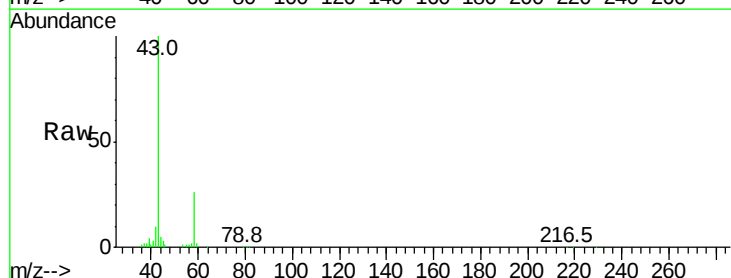
Acq: 13 Jul 2022 1:58

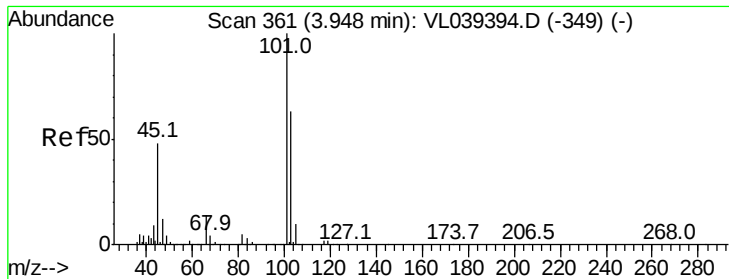
Tgt Ion: 43 Resp: 160676

Ion Ratio Lower Upper

43 100

58 30.1 21.0 31.6





#19

Isopropyl Alcohol

Concen: 11.03 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

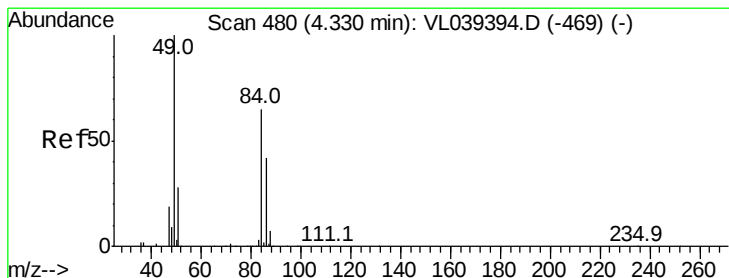
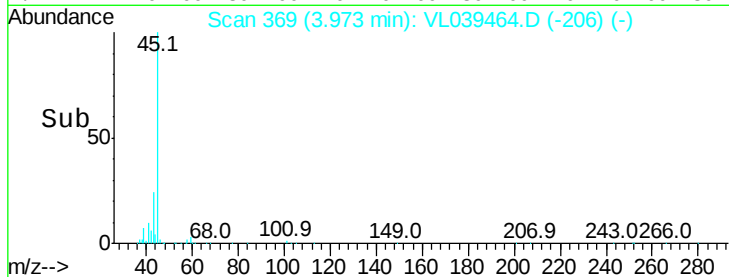
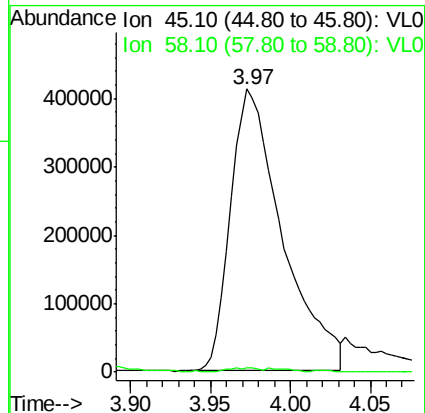
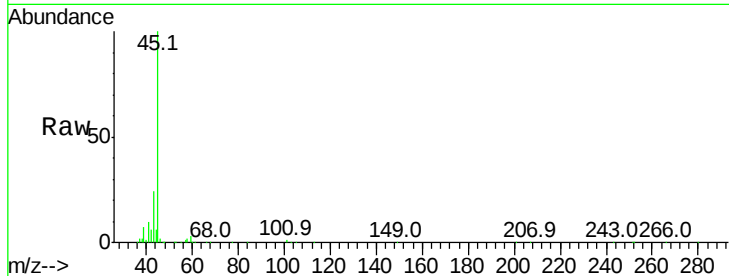
Acq: 13 Jul 2022 1:58

Tgt Ion: 45 Resp: 918514

Ion Ratio Lower Upper

45 100

58 2.3 3.2 4.8#



#20

Methylene Chloride

Concen: 2.37 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.03 min

Lab File: VL039464.D

Acq: 13 Jul 2022 1:58

Tgt Ion: 84 Resp: 147505

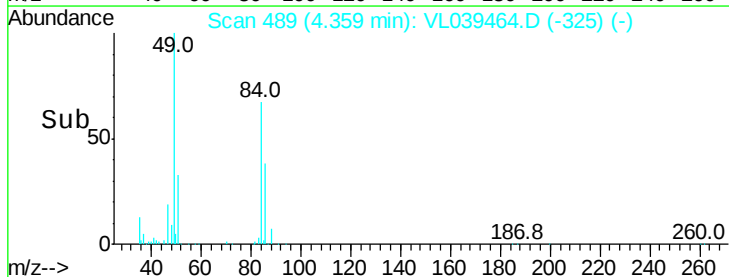
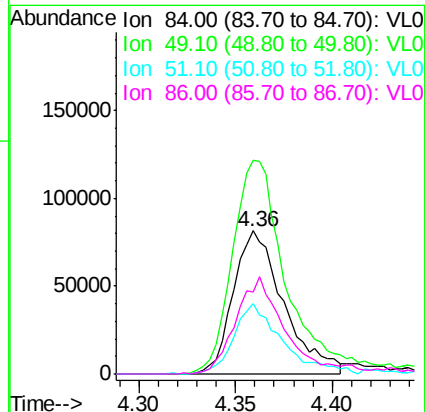
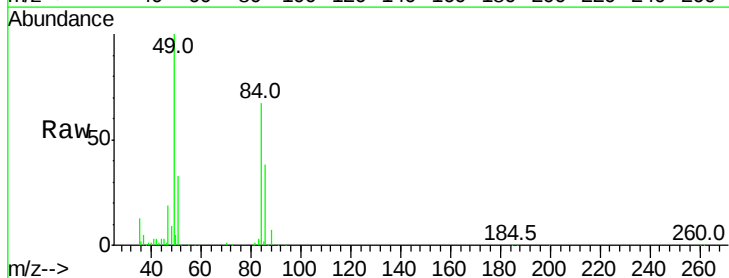
Ion Ratio Lower Upper

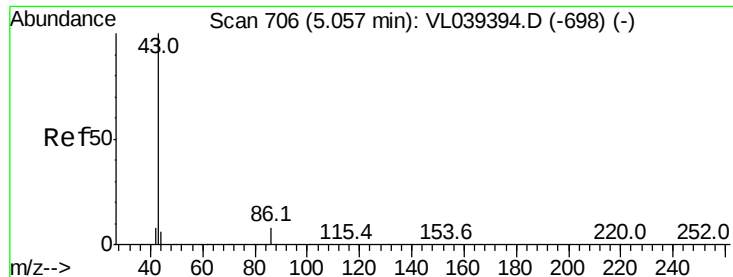
84 100

49 148.3 123.1 184.7

51 49.4 34.4 51.6

86 57.4 51.1 76.7





#23

Vinyl Acetate

Concen: 0.34 ppbv

RT: 5.08 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Jul 2022 1:58 SG-4DL

Tgt Ion: 43 Resp: 35102

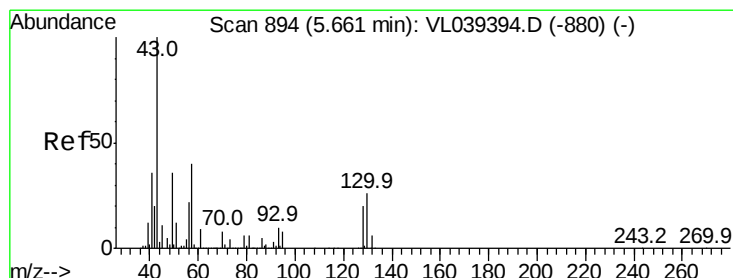
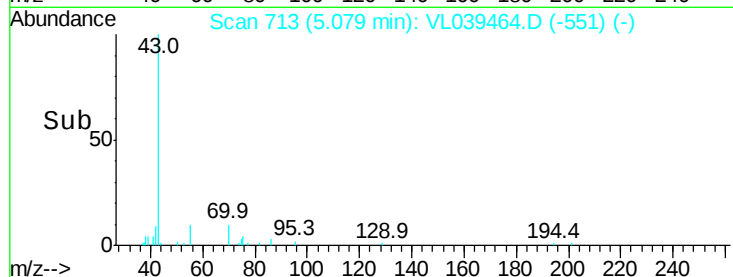
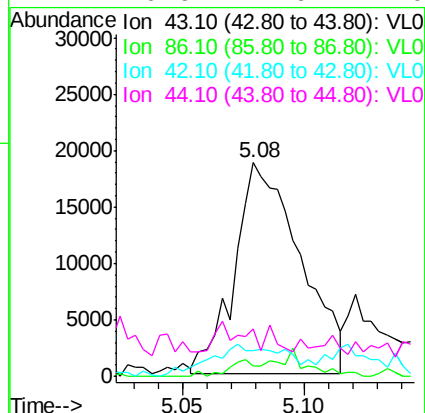
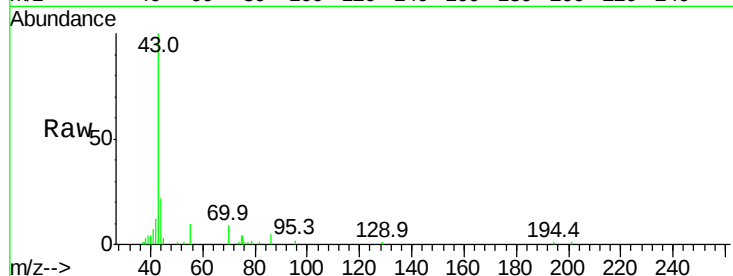
Ion Ratio Lower Upper

43 100

86 5.0 5.0 7.6#

42 8.0 7.7 11.5

44 10.6 4.6 7.0#



#25

Ethyl Acetate

Concen: 8.73 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL039464.D

Acq: 13 Jul 2022 1:58

Tgt Ion: 43 Resp: 2794074

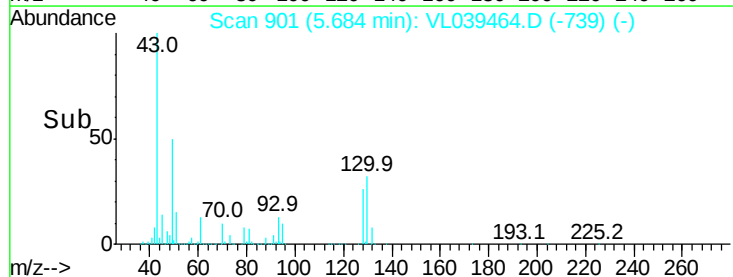
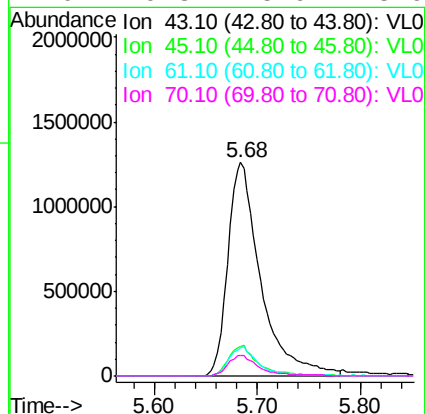
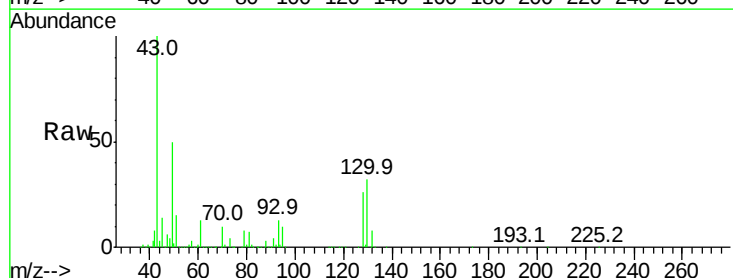
Ion Ratio Lower Upper

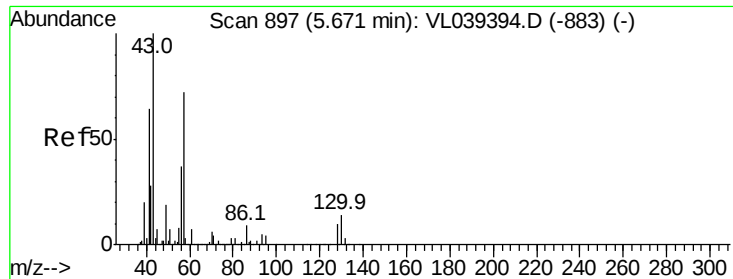
43 100

45 13.6 8.2 12.4#

61 12.8 8.3 12.5#

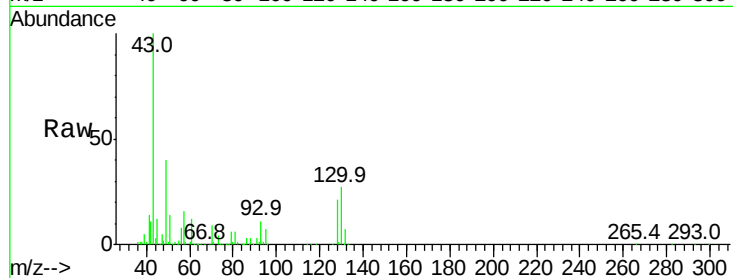
70 9.3 5.9 8.9#



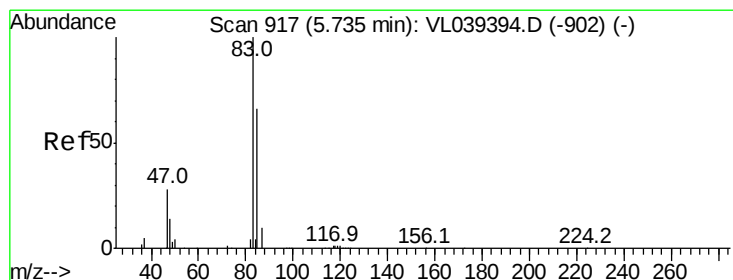
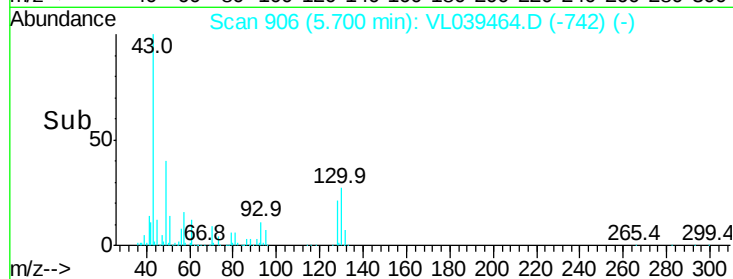
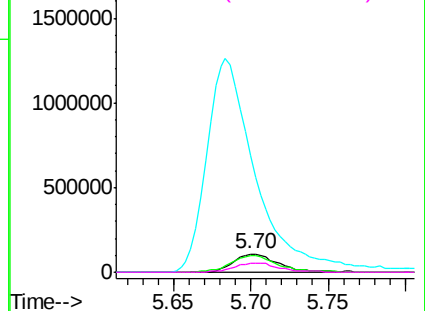


#26
Hexane
Concen: 1.66 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Jul 2022 1:58

Tgt Ion: 57 Resp: 214042
Ion Ratio Lower Upper
57 100
41 101.9 76.9 115.3
43 1357.0 191.0 286.6#
56 53.5 43.2 64.8

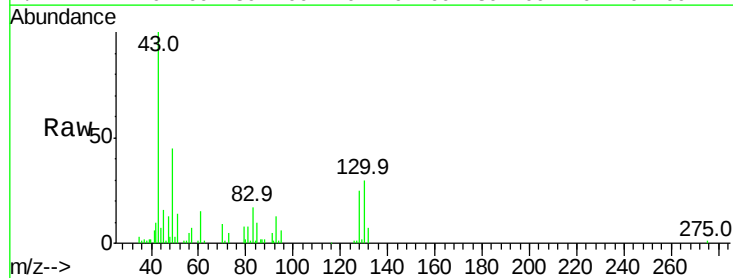


Abundance Ion 57.10 (56.80 to 57.80): VL0
2000000
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

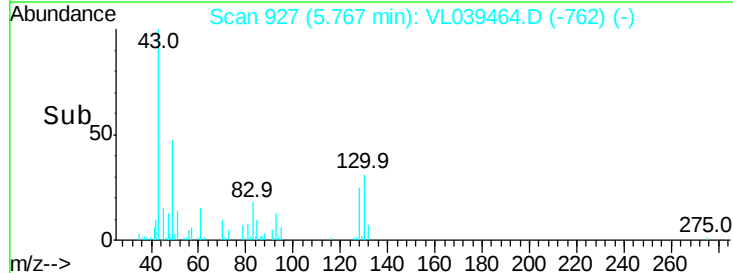
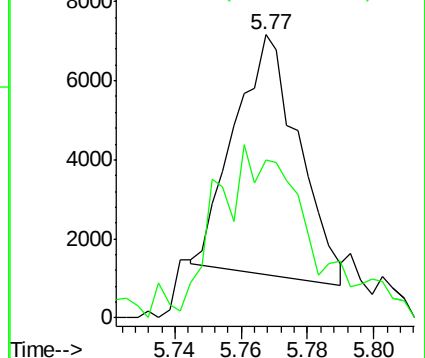


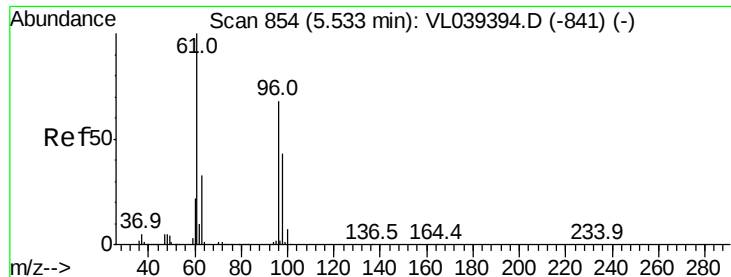
#29
Chloroform
Concen: 0.04 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.03 min
Lab File: VL039464.D
Acq: 13 Jul 2022 1:58

Tgt Ion: 83 Resp: 8182
Ion Ratio Lower Upper
83 100
85 53.6 52.8 79.2



Abundance Ion 83.00 (82.70 to 83.70): VL0
8000
Ion 85.00 (84.70 to 85.70): VL0





#31

cis-1,2-Dichloroethene

Concen: 2.38 ppbv

RT: 5.69

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 13 Jul 2022 1:58

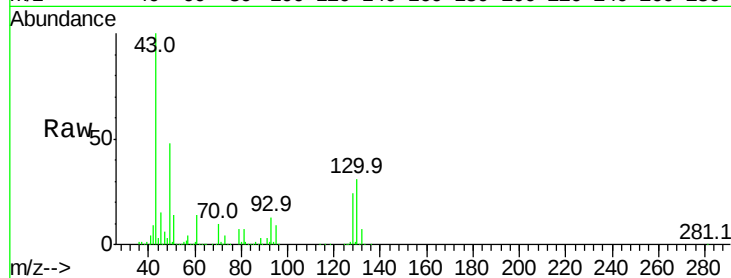
Tgt Ion: 61 Resp: 326328

Ion Ratio Lower Upper

61 100

96 0.6 54.1 81.1#

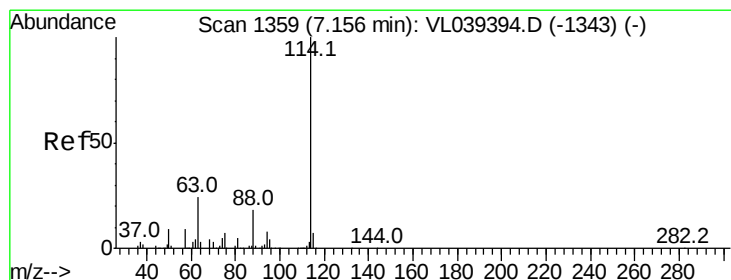
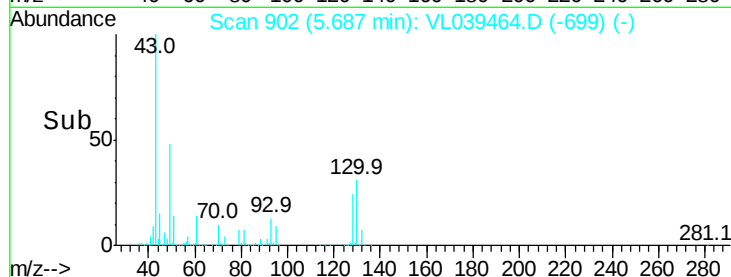
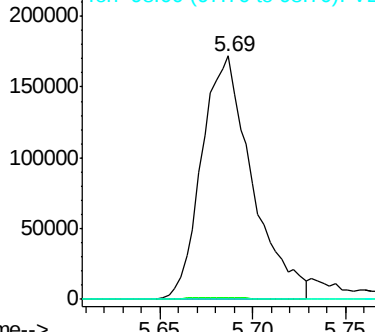
98 0.0 34.6 52.0#



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.03 min

Lab File: VL039464.D

Acq: 13 Jul 2022 1:58

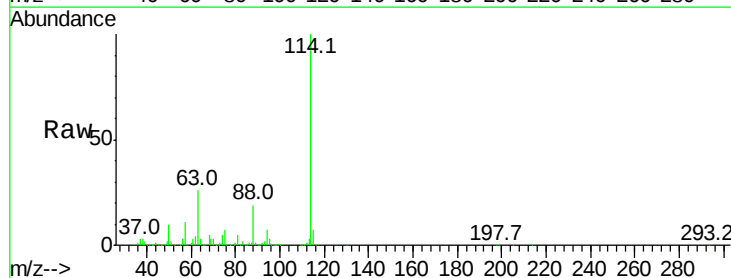
Tgt Ion: 114 Resp: 3757476

Ion Ratio Lower Upper

114 100

63 24.8 20.2 30.4

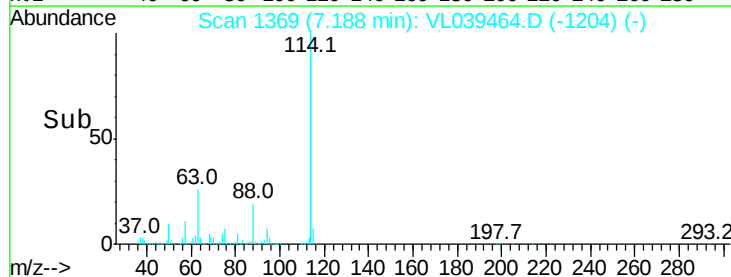
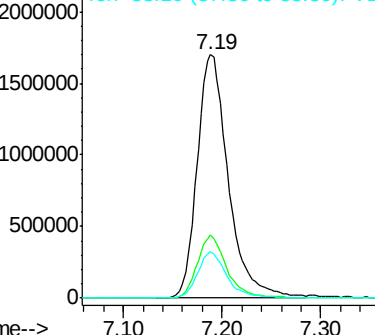
88 18.1 14.5 21.7

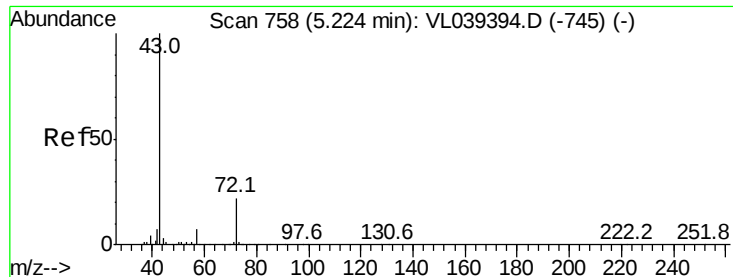


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

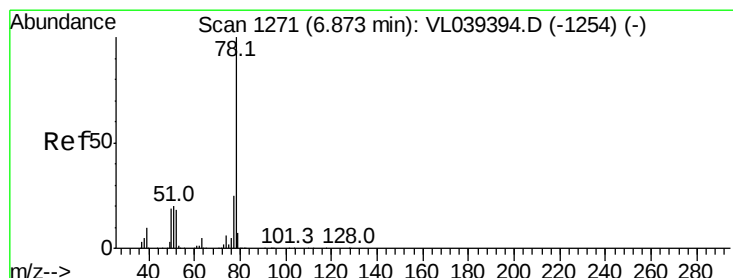
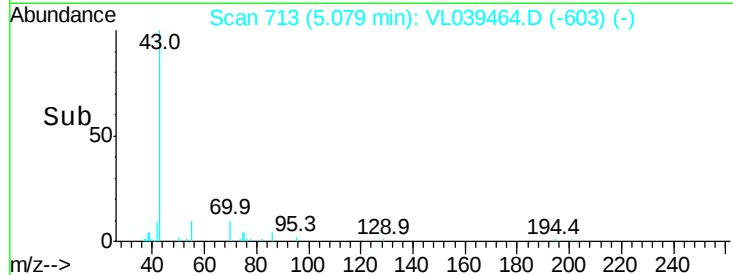
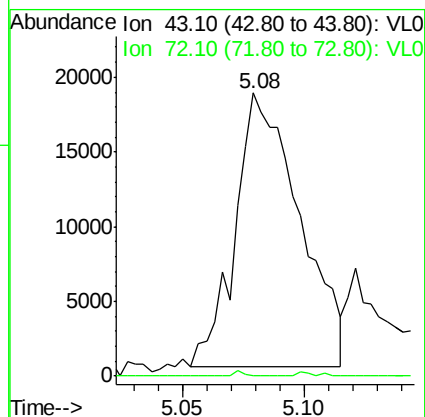
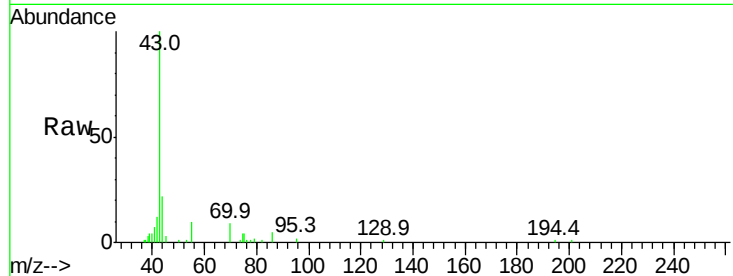
Ion 88.10 (87.80 to 88.80): VL0





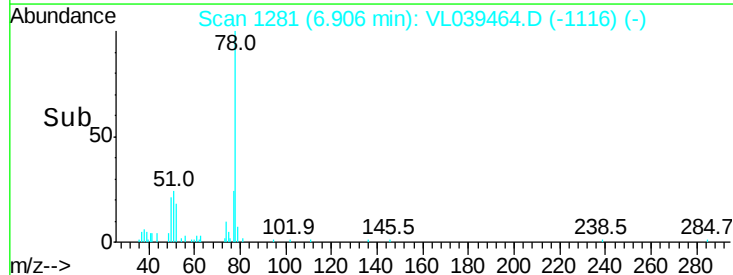
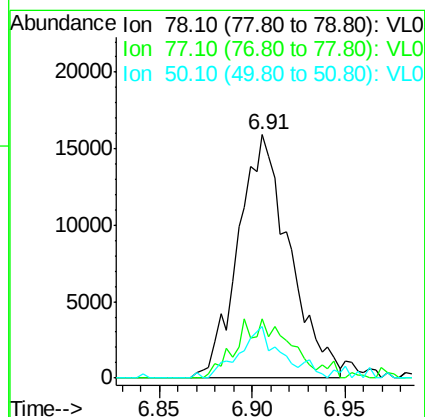
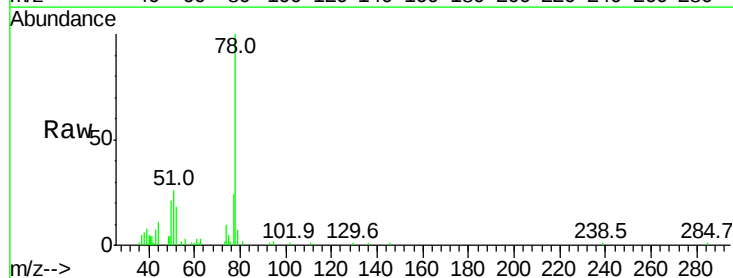
#34
 2-Butanone
 Concen: 0.18 ppbv
 RT: 5.08
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jul 2022 1:58

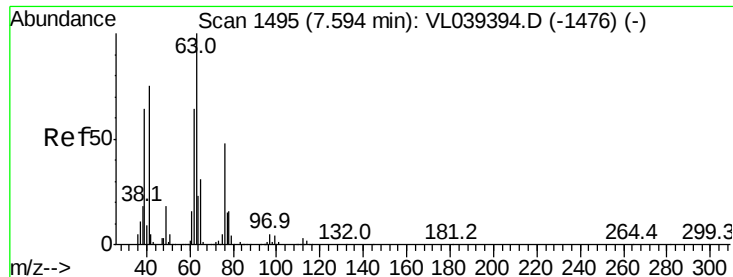
Tgt Ion: 43 Resp: 33491
 Ion Ratio Lower Upper
 43 100
 72 6.8 17.9 26.9#



#36
 Benzene
 Concen: 0.11 ppbv
 RT: 6.91 min Scan# 1281
 Delta R.T. 0.03 min
 Lab File: VL039464.D
 Acq: 13 Jul 2022 1:58

Tgt Ion: 78 Resp: 30653
 Ion Ratio Lower Upper
 78 100
 77 23.0 20.3 30.5
 50 19.7 15.5 23.3





#39

1,2-Dichloropropane

Concen: 0.11 ppbv

RT: 7.24 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Jul 2022 1:58 SG-4DL

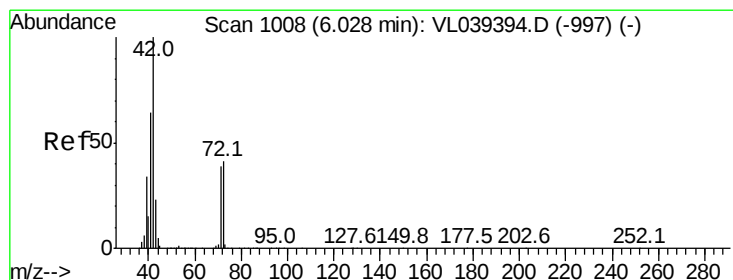
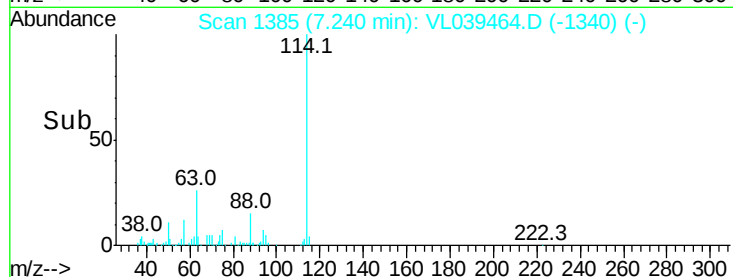
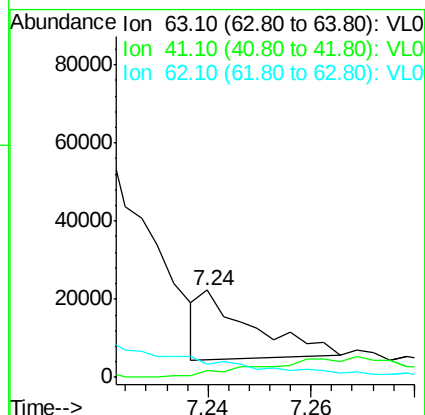
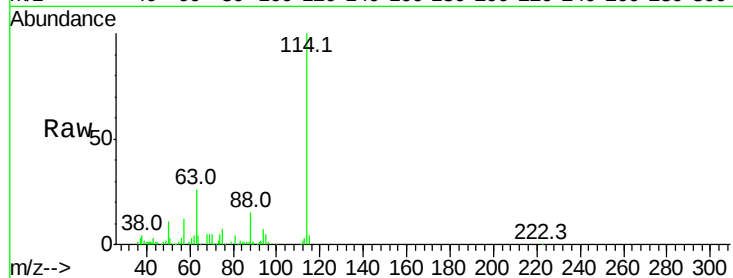
Tgt Ion: 63 Resp: 12196

Ion Ratio Lower Upper

63 100

41 7.4 59.6 89.4#

62 13.2 51.4 77.0#



#41

Tetrahydrofuran

Concen: 2.41 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.34 min

Lab File: VL039464.D

Acq: 13 Jul 2022 1:58

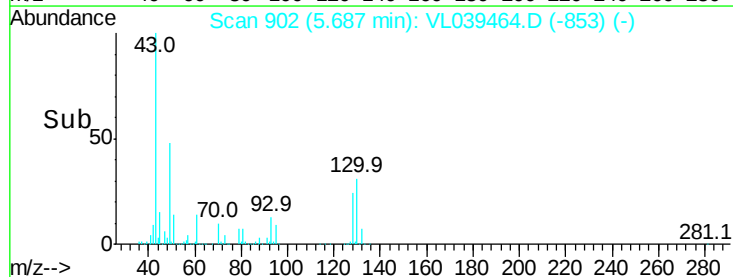
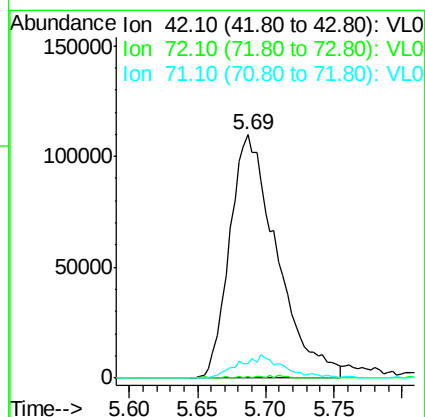
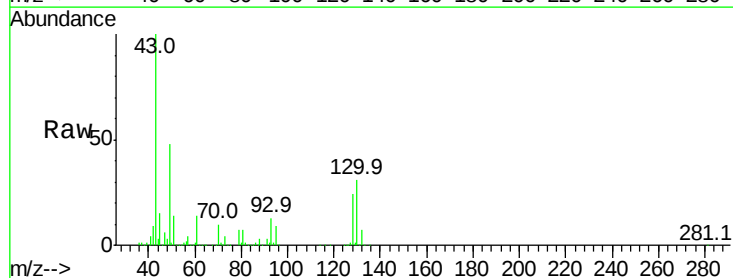
Tgt Ion: 42 Resp: 263751

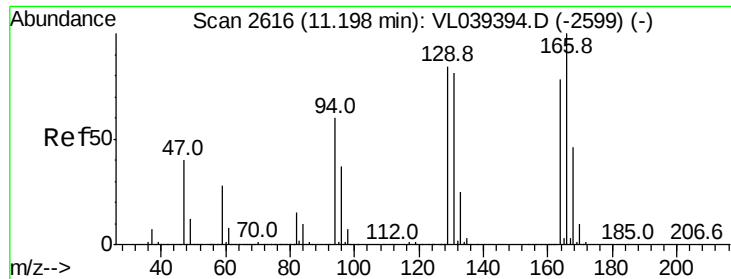
Ion Ratio Lower Upper

42 100

72 0.7 31.8 47.8#

71 9.4 31.8 47.8#





#52

Tetrachloroethene

Concen: 0.04 ppbv

RT: 11.25

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Jul 2022 1:58

Tgt Ion: 164 Resp: 5090

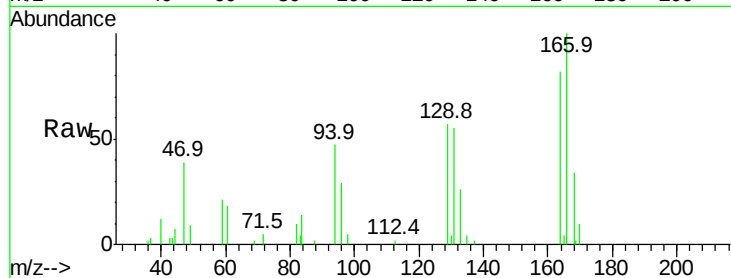
Ion Ratio Lower Upper

164 100

166 119.5 102.2 153.2

129 60.6 85.8 128.8#

131 57.5 83.3 124.9#

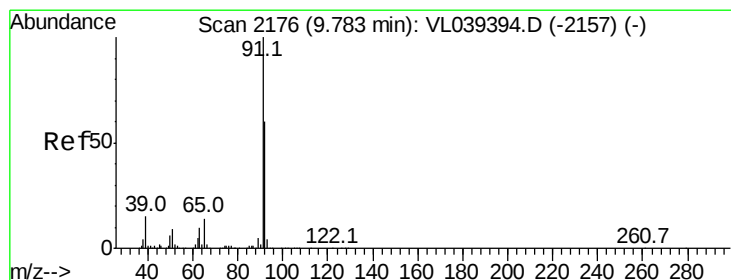
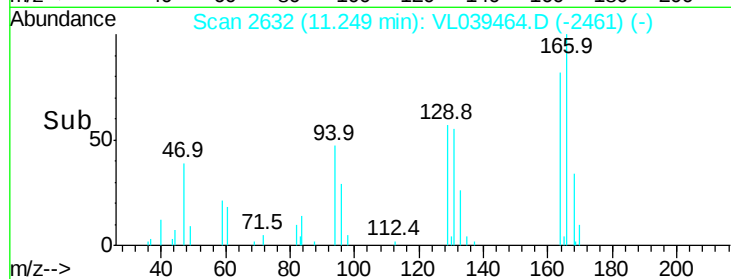
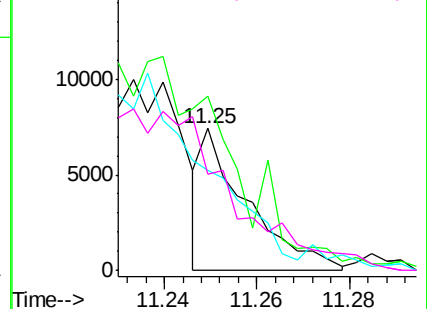


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.31 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL039464.D

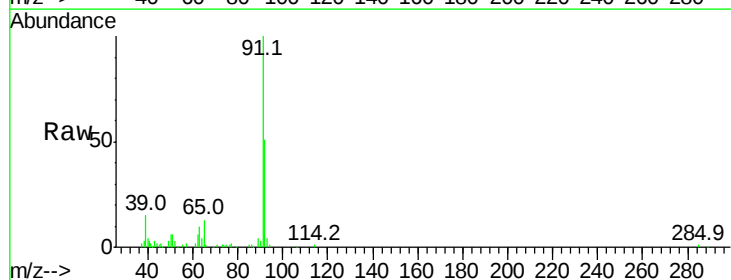
Acq: 13 Jul 2022 1:58

Tgt Ion: 91 Resp: 105378

Ion Ratio Lower Upper

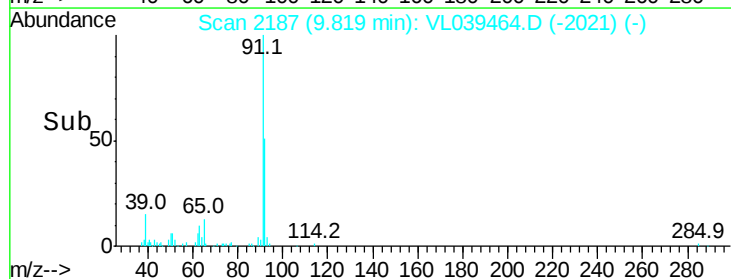
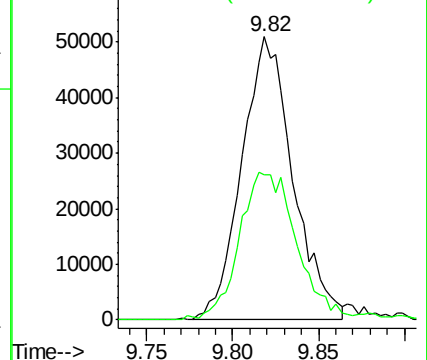
91 100

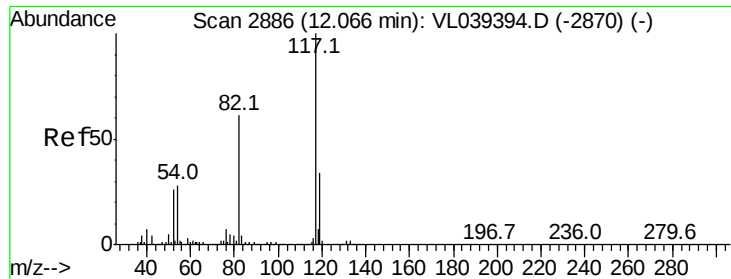
92 60.1 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

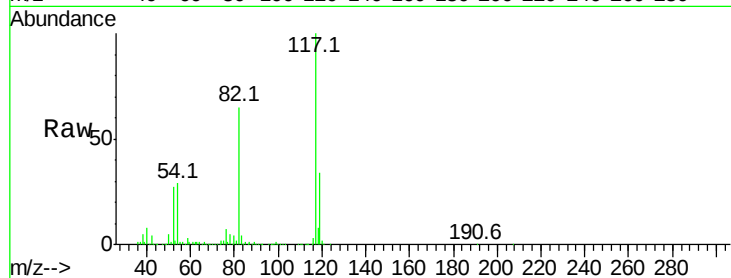




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.: 0.04 min
Lab File: ClientSampleId :
Acq: 13 Jul 2022 1:58

Tgt Ion: 117 Resp: 3399693

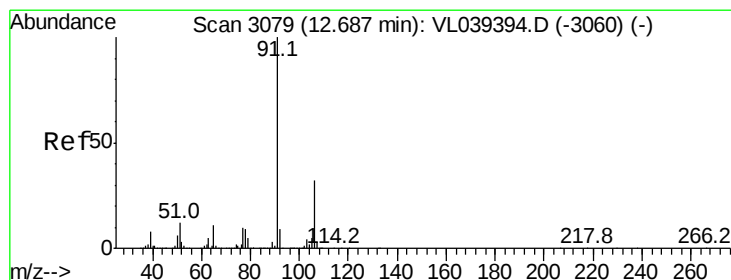
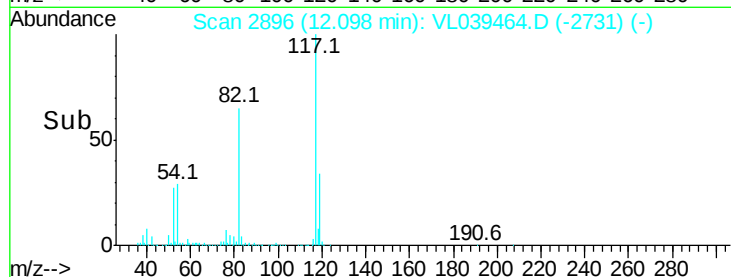
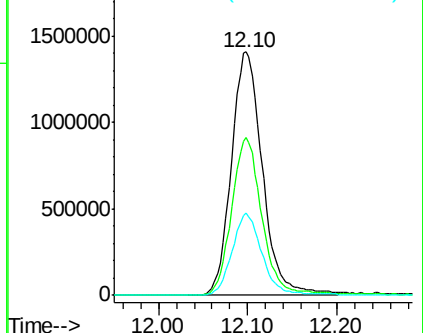
Ion	Ratio	Lower	Upper
117	100		
82	64.2	50.8	76.2
119	32.8	24.1	36.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

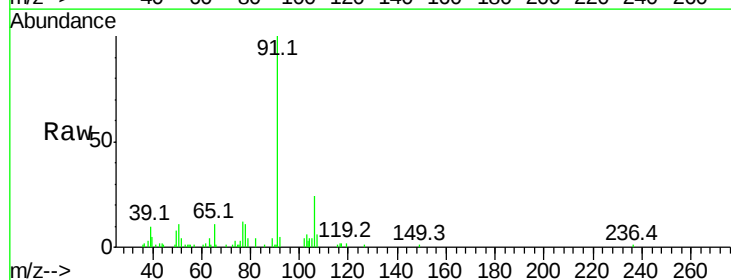
Ion 119.10 (118.80 to 119.80): V



#58
Ethyl Benzene
Concen: 0.13 ppbv
RT: 12.73 min Scan# 3091
Delta R.T.: 0.04 min
Lab File: VL039464.D
Acq: 13 Jul 2022 1:58

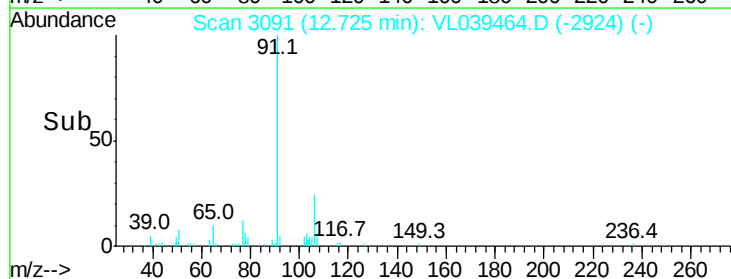
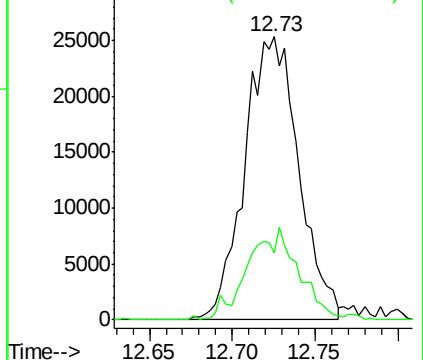
Tgt Ion: 91 Resp: 57503

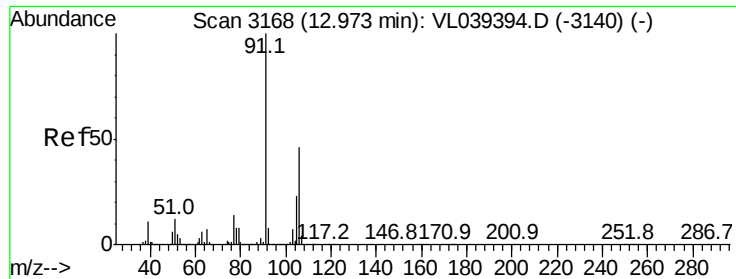
Ion	Ratio	Lower	Upper
91	100		
106	23.6	25.4	38.0#



Abundance Ion 91.10 (90.80 to 91.80): V

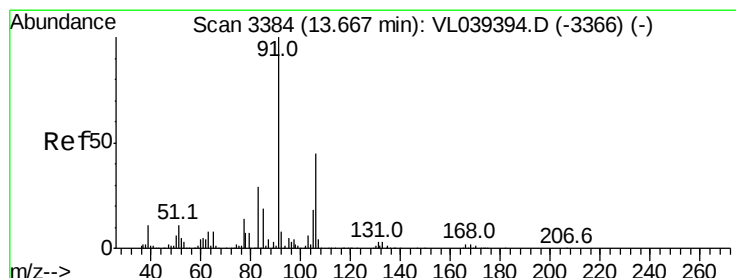
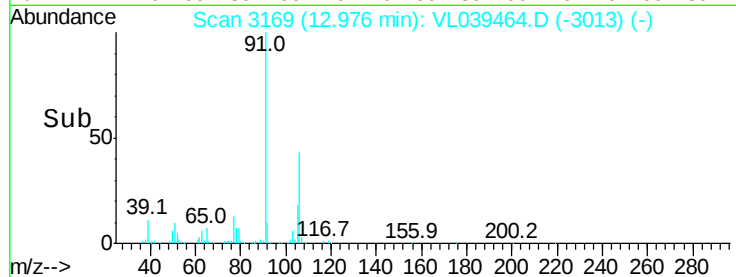
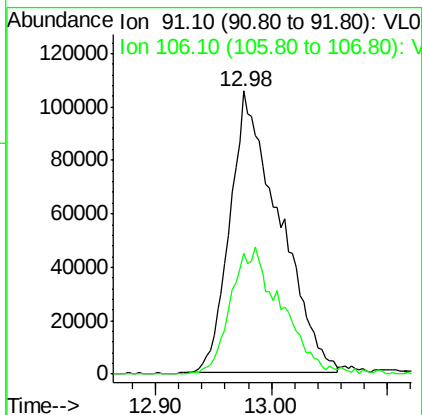
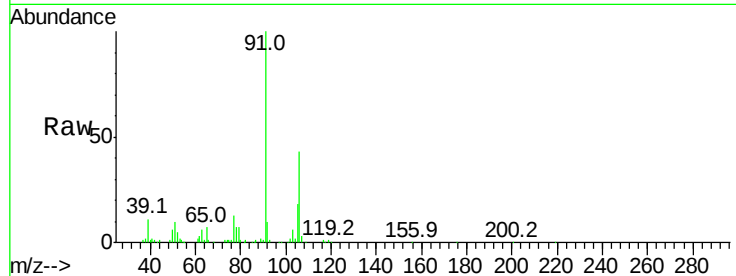
Ion 106.10 (105.80 to 106.80): V





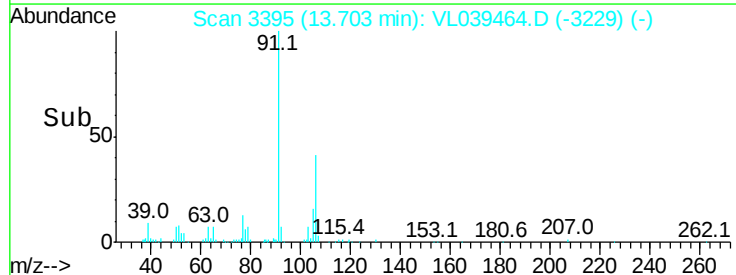
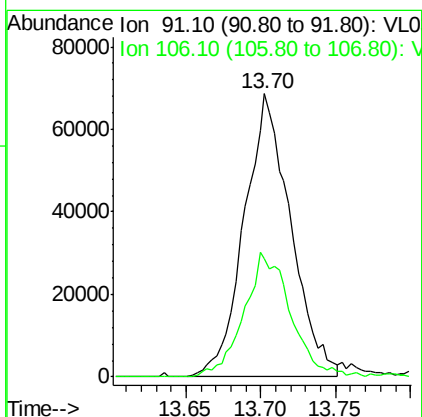
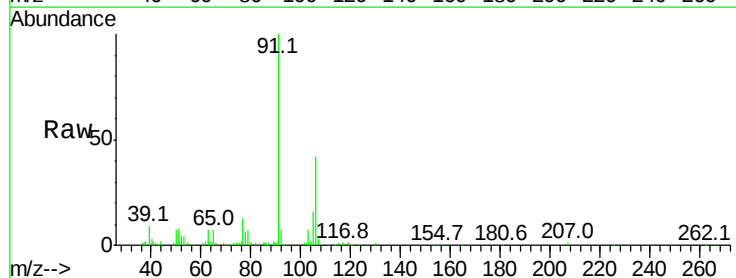
#59
m/p-Xylene
Concen: 0.80 ppbv
RT: 12.98 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Jul 2022 1:58

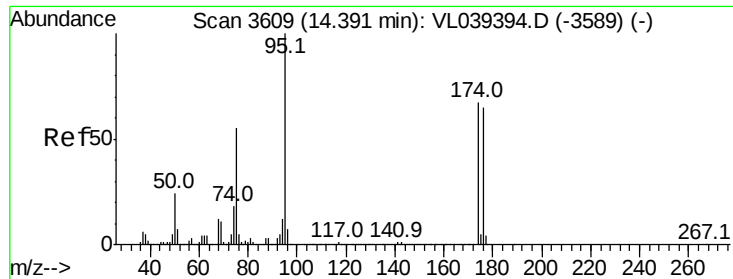
Tgt Ion: 91 Resp: 310745
Ion Ratio Lower Upper
91 100
106 46.1 35.4 53.2



#60
o-Xylene
Concen: 0.40 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.04 min
Lab File: VL039464.D
Acq: 13 Jul 2022 1:58

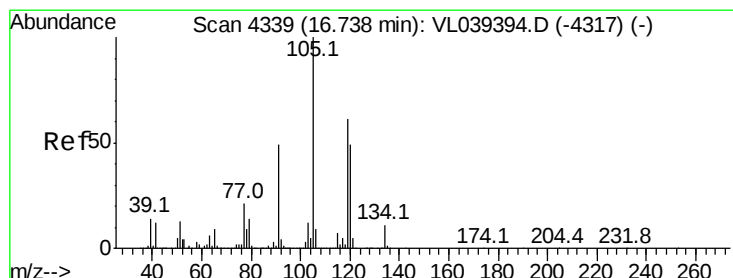
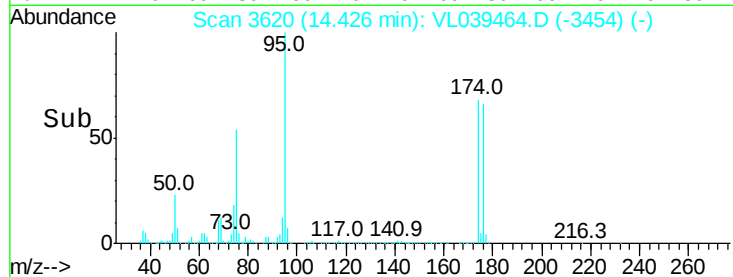
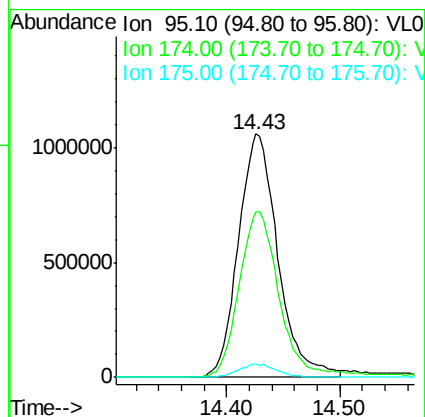
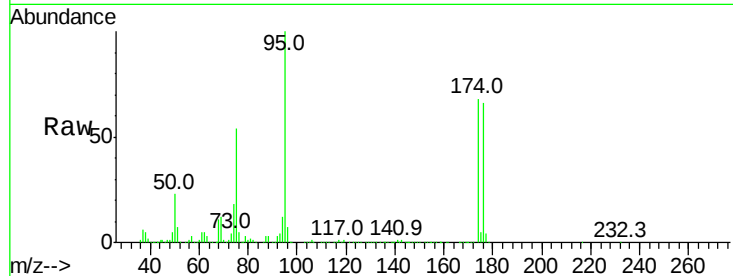
Tgt Ion: 91 Resp: 148338
Ion Ratio Lower Upper
91 100
106 44.3 22.4 67.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.19 ppbv
 RT: 14.43 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jul 2022 1:58

Tgt Ion: 95 Resp: 2570369
 Ion Ratio Lower Upper
 95 100
 174 72.0 55.9 83.9
 175 5.5 4.2 6.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.23 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. 0.04 min
 Lab File: VL039464.D
 Acq: 13 Jul 2022 1:58

Tgt Ion: 105 Resp: 101419
 Ion Ratio Lower Upper
 105 100
 120 47.0 39.5 59.3
 91 13.8 39.2 58.8#
 77 12.8 17.2 25.8#

