

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021422\
 Data File : VL038350.D
 Acq On : 14 Feb 2022 21:25
 Operator : SY/AP
 Sample : N1442-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Feb 15 00:41:11 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	869535	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	2330576	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.05	117	2011861	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	1596455	10.45	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

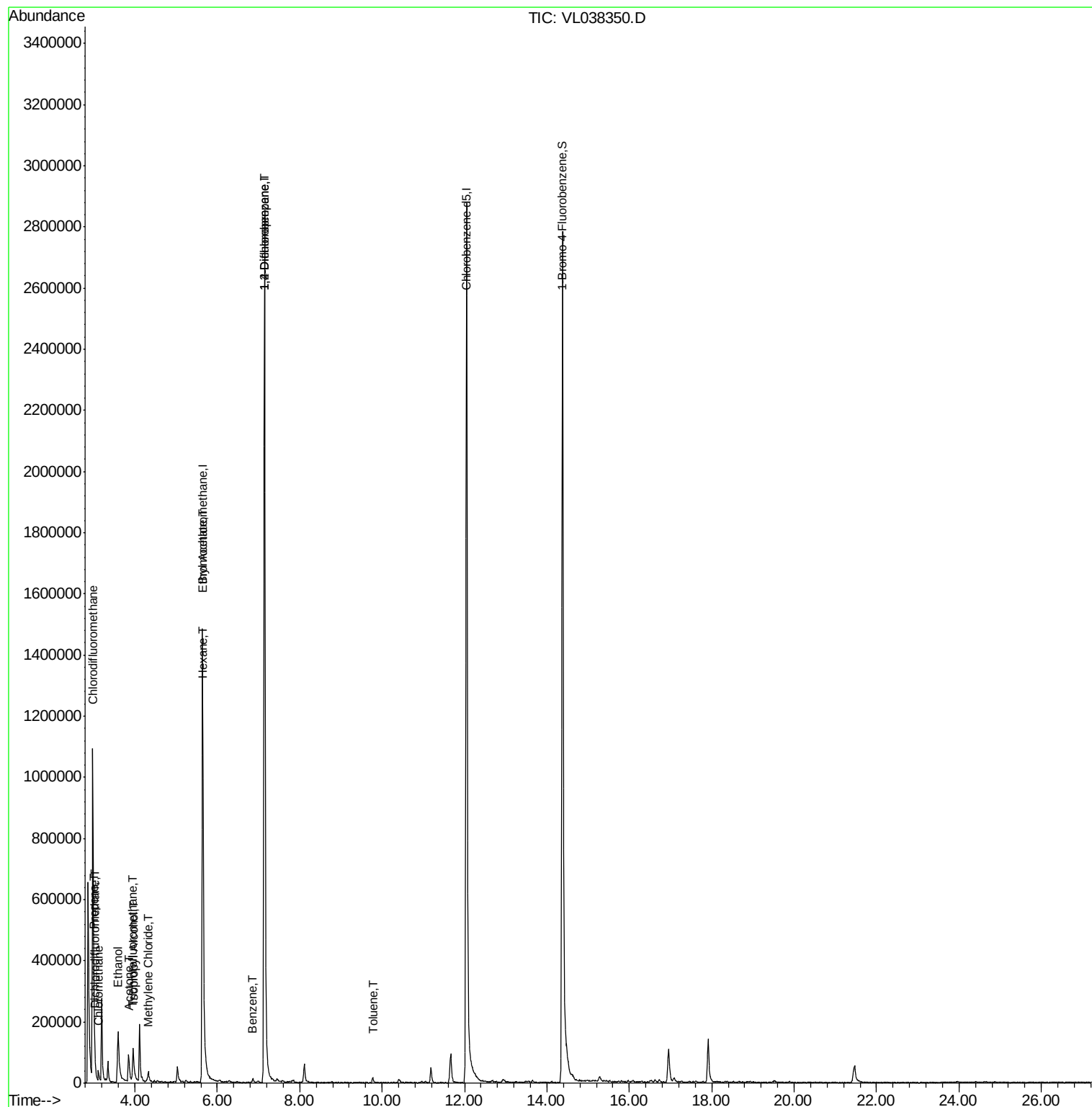
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	8192	0.04	ppbv	91
3) Chlorodifluoromethane	2.98	51	1400078	8.09	ppbv	99
4) Chloromethane	3.13	50	2287	0.04	ppbv #	77
9) Propene	3.01	41	22742	0.40	ppbv	83
11) Trichlorofluoromethane	3.94	101	5031	0.03	ppbv #	69
13) Ethanol	3.59	45	256847	42.46	ppbv	94
15) Acetone	3.84	43	112996	1.47	ppbv	99
19) Isopropyl Alcohol	3.95	45	137071	2.86	ppbv #	96
20) Methylene Chloride	4.33	84	5694	0.13	ppbv #	79
25) Ethyl Acetate	5.65	43	78550	0.37	ppbv #	90
26) Hexane	5.66	57	3887	0.04	ppbv #	1
36) Benzene	6.86	78	7101	0.03	ppbv #	89
39) 1,2-Dichloropropane	7.14	63	632413	7.57	ppbv #	25
53) Toluene	9.77	91	10654	0.05	ppbv	91

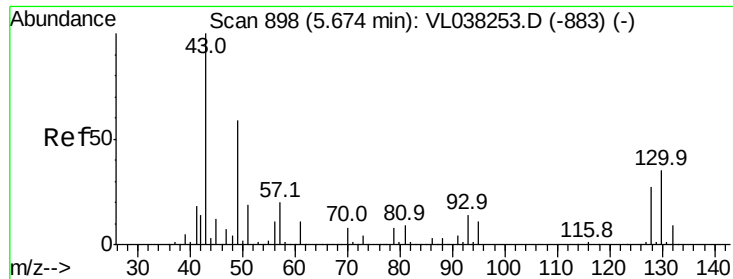
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.64 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DL

Acq: 14 Feb 2022 21:25

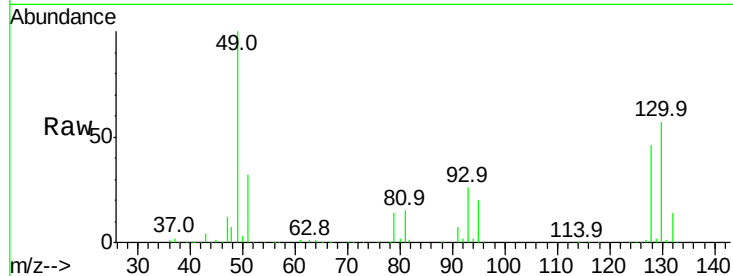
Tgt Ion: 49 Resp: 869535

Ion Ratio Lower Upper

49 100

128 48.2 24.5 73.5

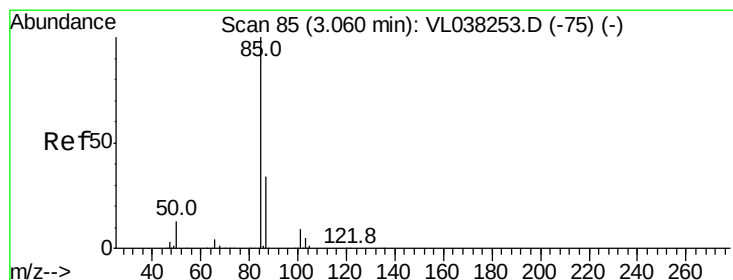
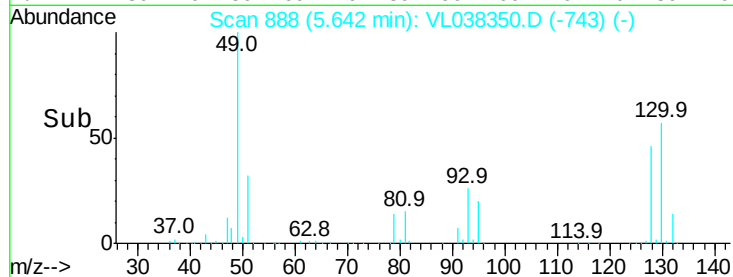
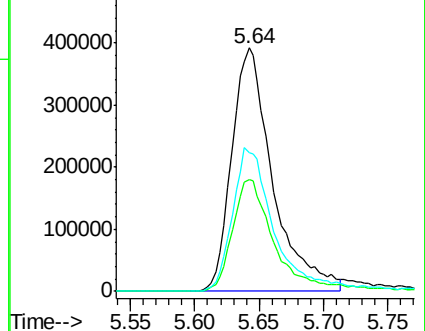
130 62.8 30.1 90.5



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: 0.04 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.02 min

Lab File: VL038350.D

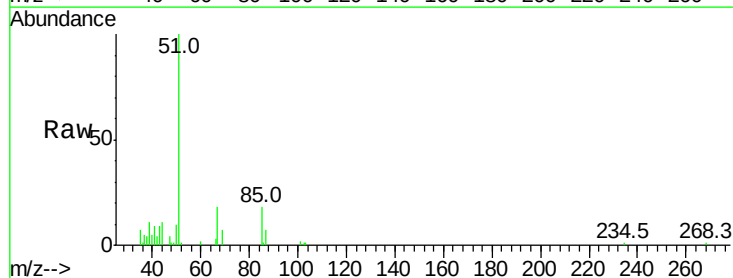
Acq: 14 Feb 2022 21:25

Tgt Ion: 85 Resp: 8192

Ion Ratio Lower Upper

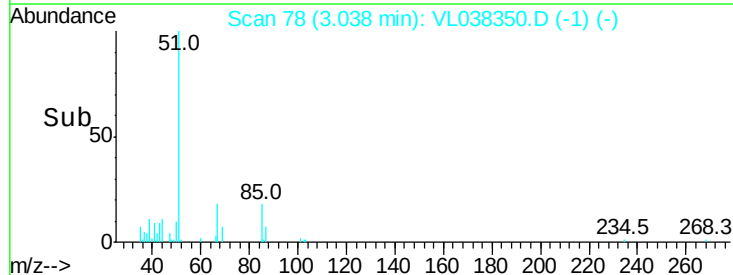
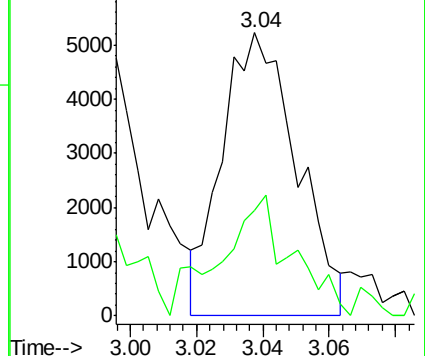
85 100

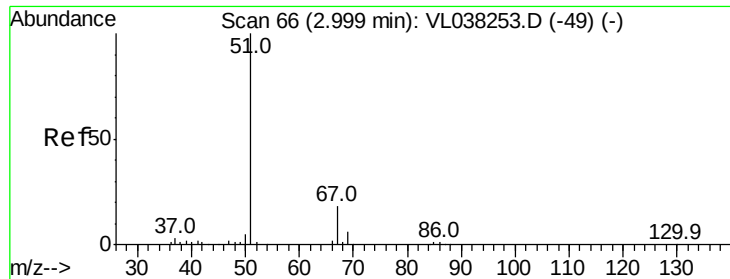
87 39.0 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.09 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

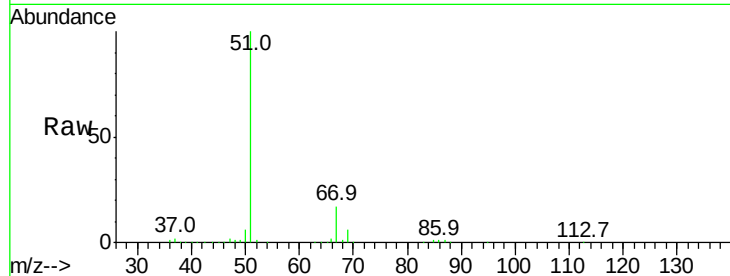
Acq: 14 Feb 2022 21:25

Tgt Ion: 51 Resp: 1400078

Ion Ratio Lower Upper

51 100

67 17.7 14.4 21.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

800000

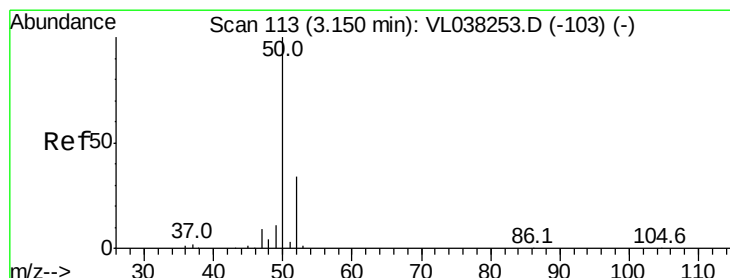
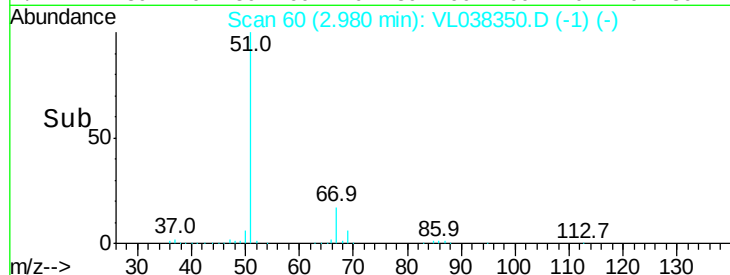
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 0.04 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL038350.D

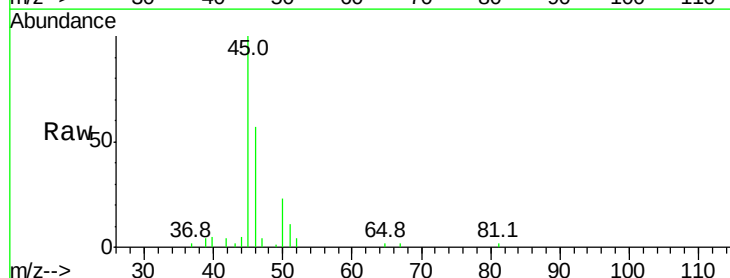
Acq: 14 Feb 2022 21:25

Tgt Ion: 50 Resp: 2287

Ion Ratio Lower Upper

50 100

52 20.8 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

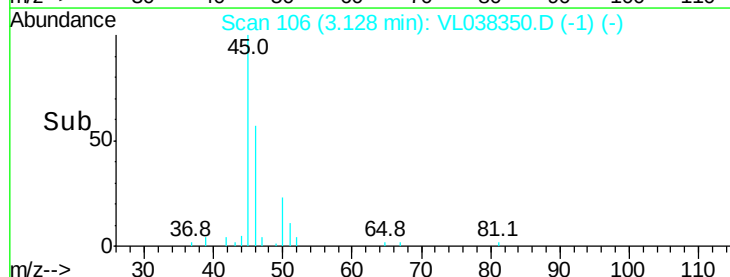
3000

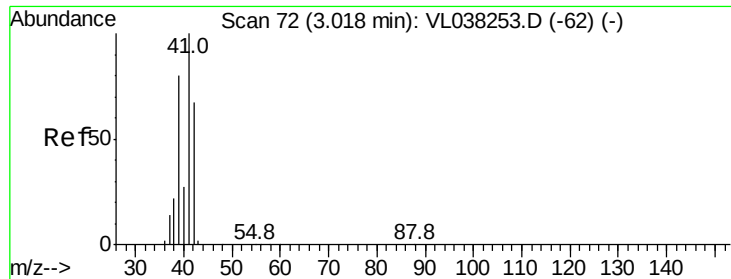
2000

1000

0

Time-->





#9

Propene

Concen: 0.40 ppbv

RT: 3.01 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DL

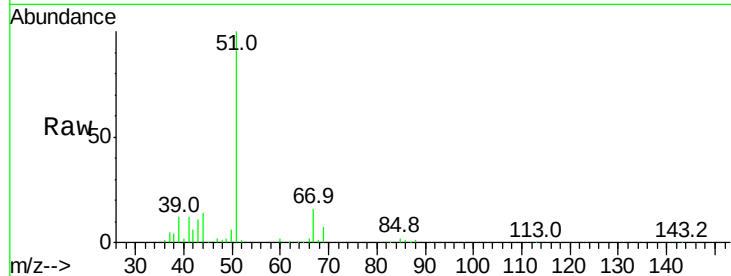
Acq: 14 Feb 2022 21:25

Tgt Ion: 41 Resp: 22742

Ion Ratio Lower Upper

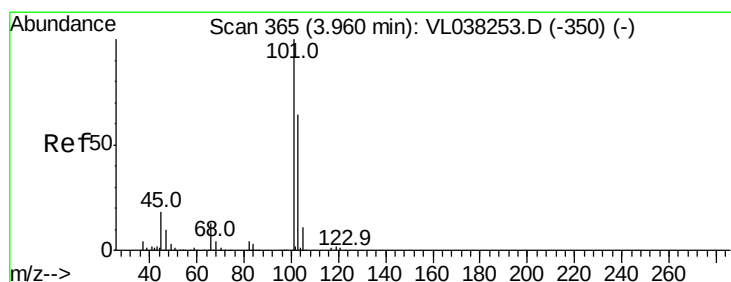
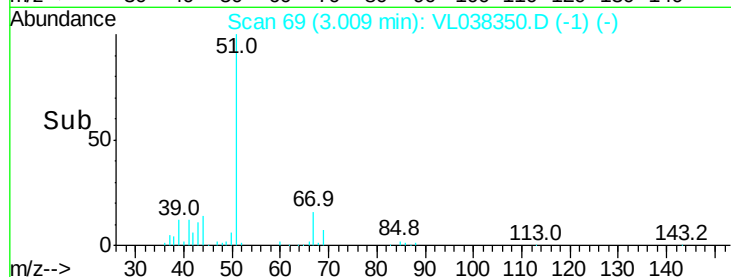
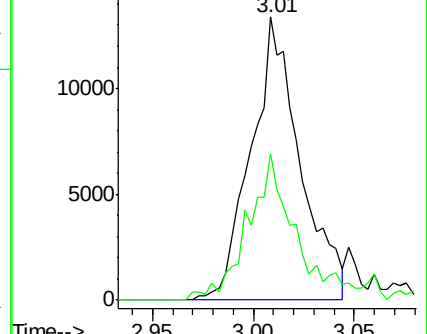
41 100

42 55.0 54.9 82.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.03 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.02 min

Lab File: VL038350.D

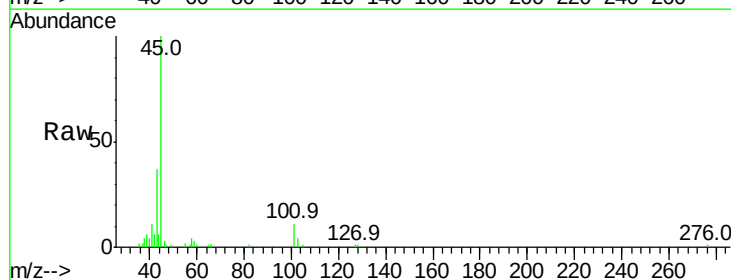
Acq: 14 Feb 2022 21:25

Tgt Ion: 101 Resp: 5031

Ion Ratio Lower Upper

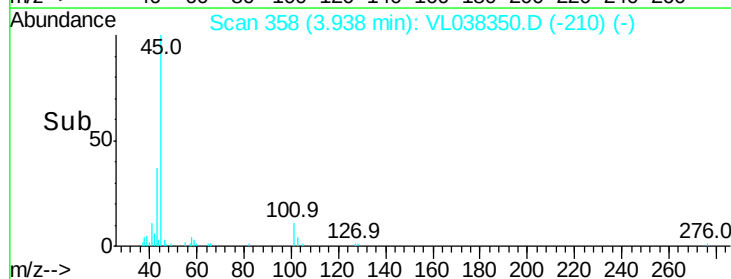
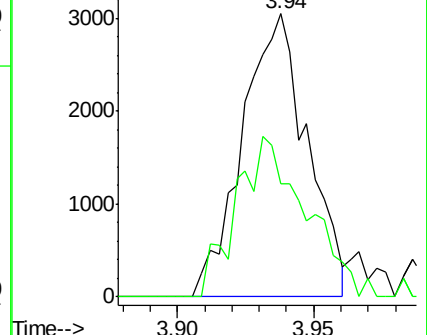
101 100

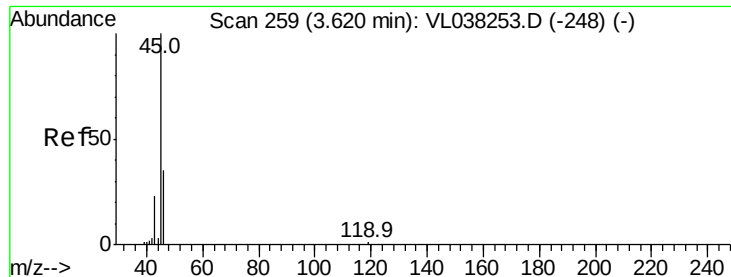
103 39.9 51.2 76.8#



Abundance Ion 101.00 (100.70 to 101.70): V

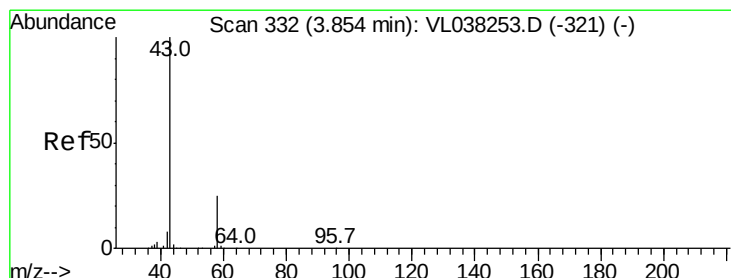
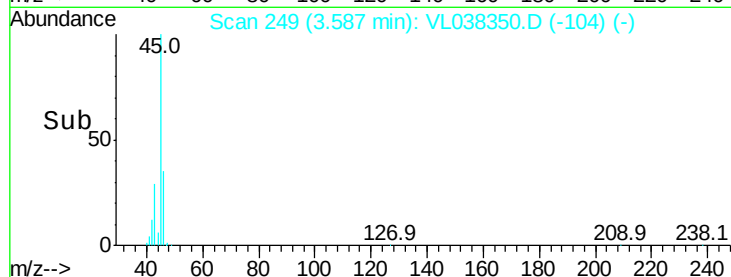
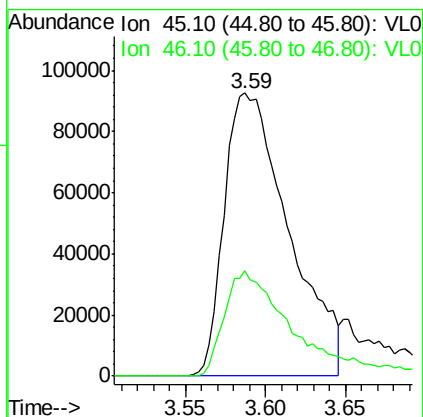
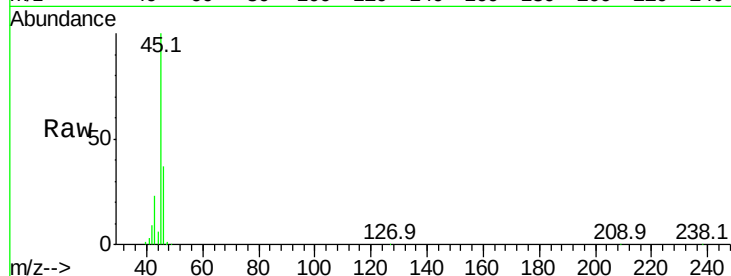
Ion 103.00 (102.70 to 103.70): V





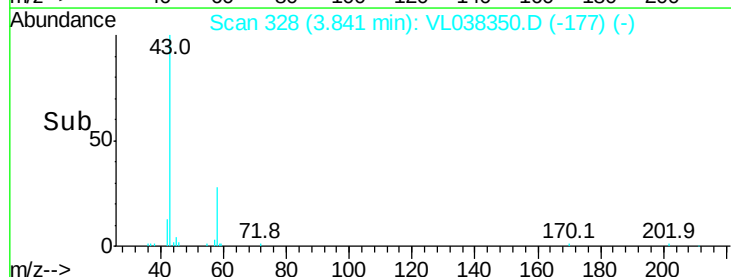
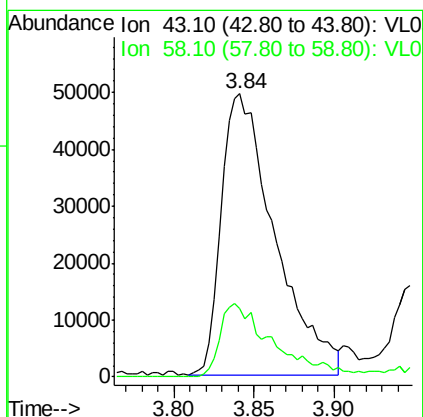
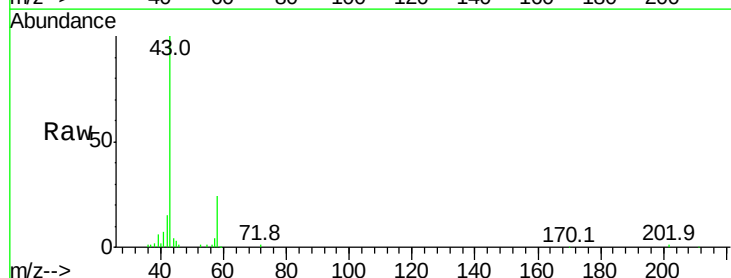
#13
Ethanol
Concen: 42.46 ppbv
RT: 3.59
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Feb 2022 21:25

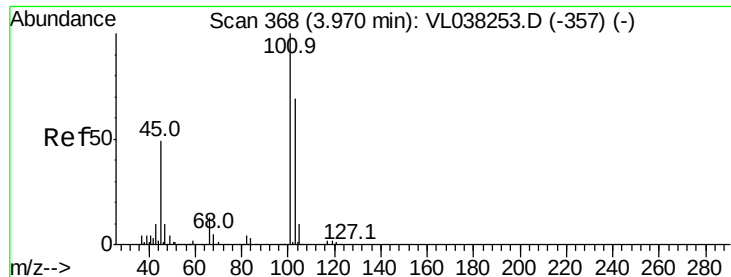
Tgt Ion: 45 Resp: 256847
Ion Ratio Lower Upper
45 100
46 42.3 15.4 61.6



#15
Acetone
Concen: 1.47 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL038350.D
Acq: 14 Feb 2022 21:25

Tgt Ion: 43 Resp: 112996
Ion Ratio Lower Upper
43 100
58 26.5 21.5 32.3





#19

Isopropyl Alcohol

Concen: 2.86 ppbv

RT: 3.95 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DL

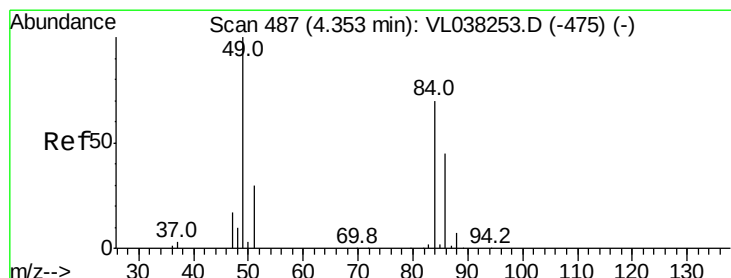
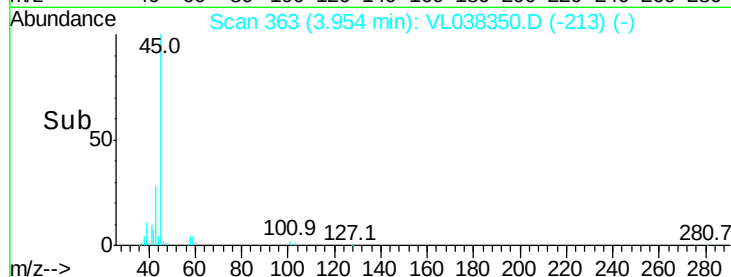
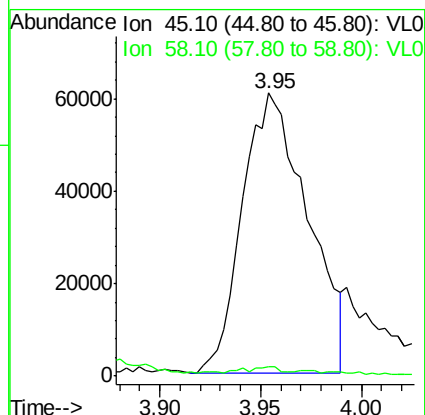
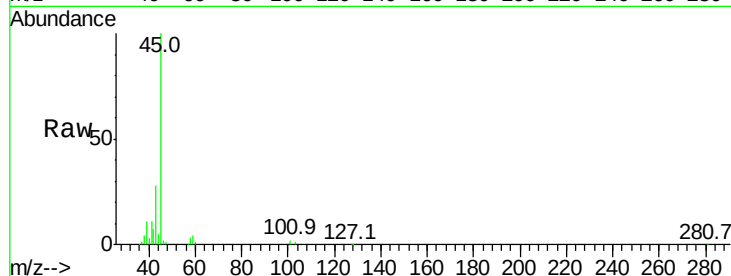
Acq: 14 Feb 2022 21:25

Tgt Ion: 45 Resp: 137071

Ion Ratio Lower Upper

45 100

58 4.1 2.3 3.5#



#20

Methylene Chloride

Concen: 0.13 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.02 min

Lab File: VL038350.D

Acq: 14 Feb 2022 21:25

Tgt Ion: 84 Resp: 5694

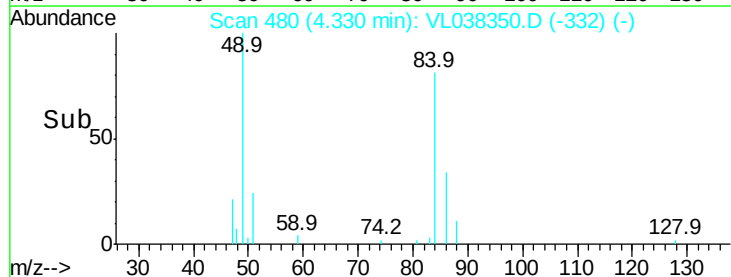
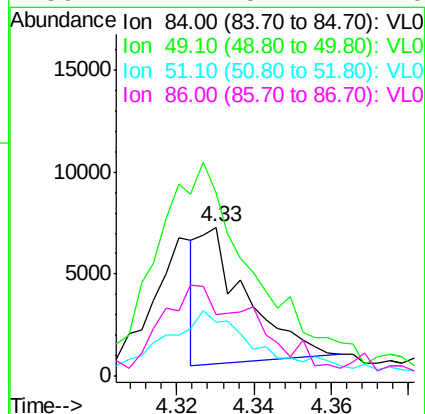
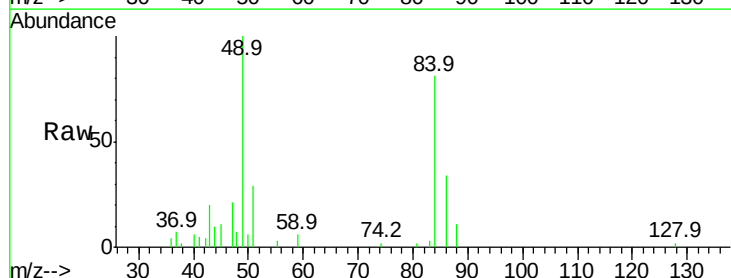
Ion Ratio Lower Upper

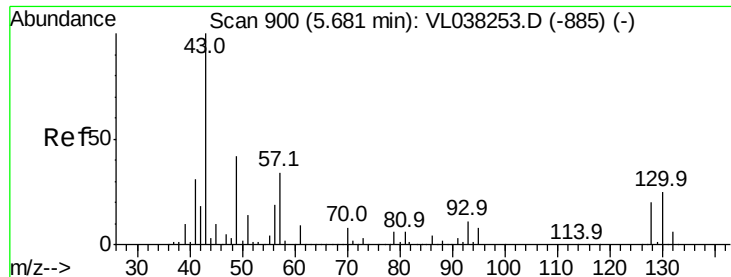
84 100

49 118.3 115.0 172.6

51 34.3 35.0 52.6#

86 42.4 51.4 77.0#





#25

Ethyl Acetate

Concen: 0.37 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 14 Feb 2022 21:25

Tgt Ion: 43 Resp: 78550

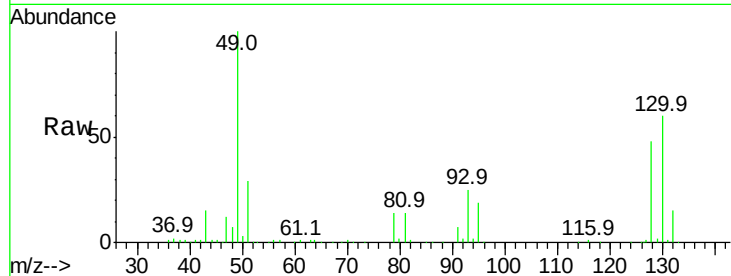
Ion Ratio Lower Upper

43 100

45 14.5 7.9 11.9#

61 13.6 7.8 11.8#

70 8.8 5.4 8.0#

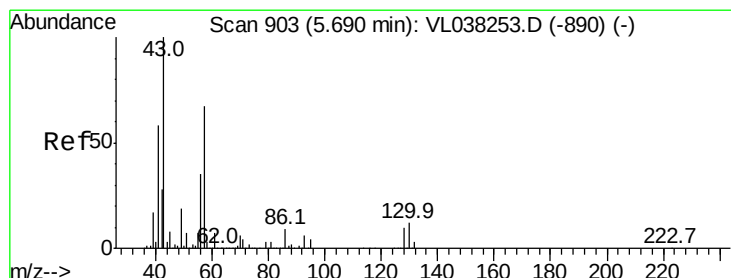
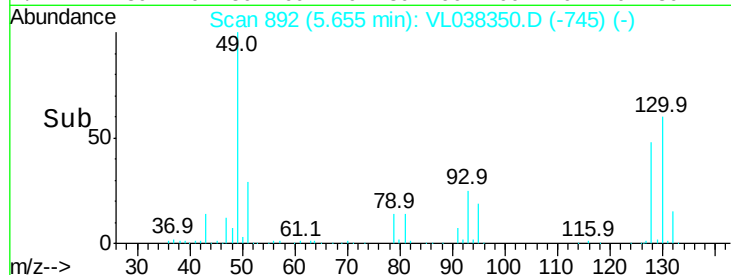
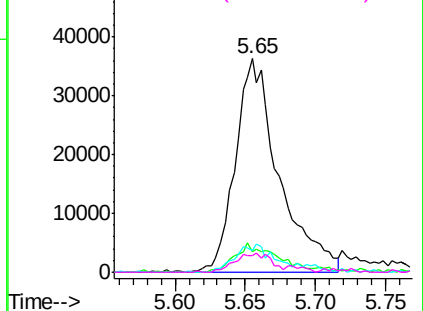


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.04 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.03 min

Lab File: VL038350.D

Acq: 14 Feb 2022 21:25

Tgt Ion: 57 Resp: 3887

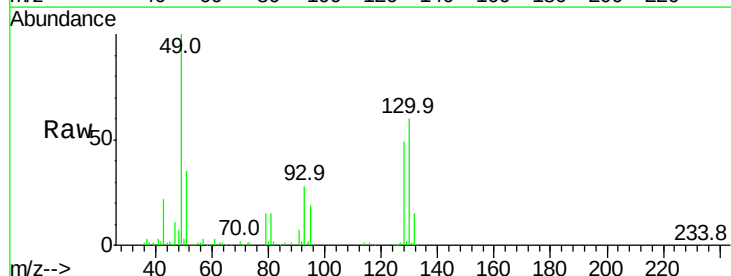
Ion Ratio Lower Upper

57 100

41 0.0 72.8 109.2#

43 2174.9 177.0 265.6#

56 137.8 43.3 64.9#

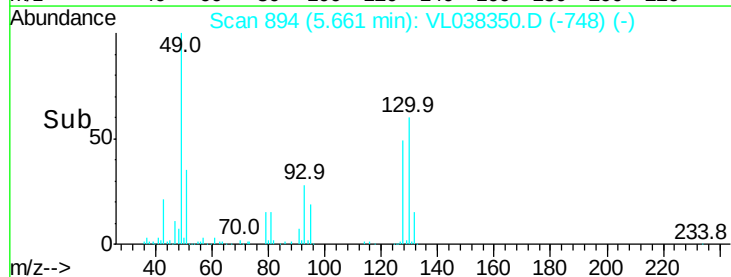
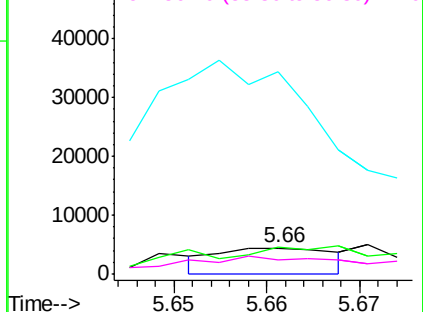


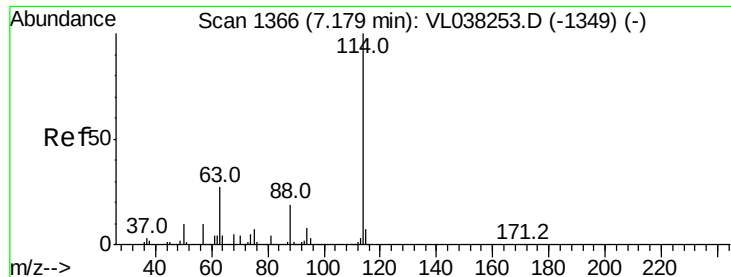
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

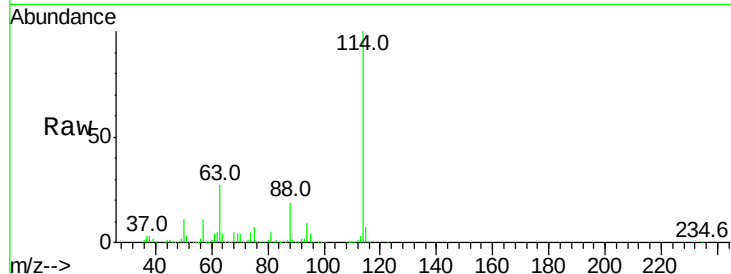
Ion 56.10 (55.80 to 56.80): VL0



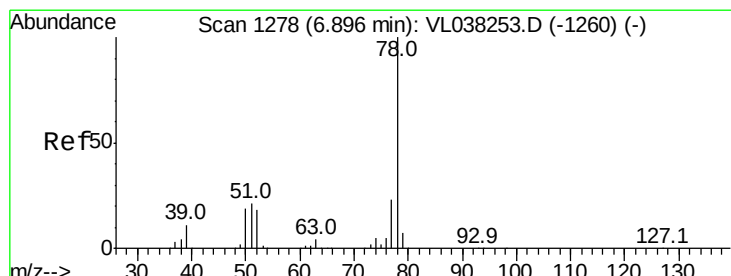
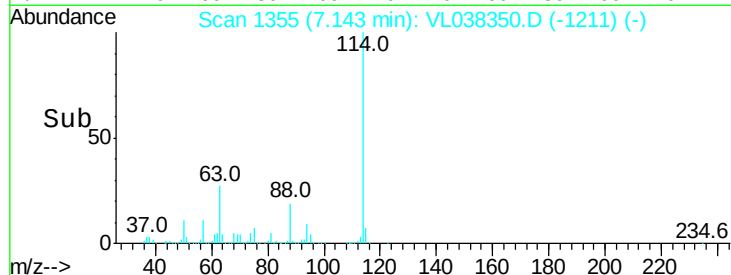
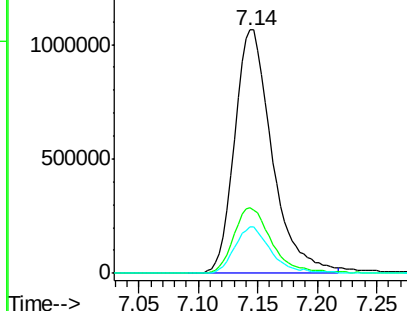


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.14
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Feb 2022 21:25

Tgt Ion: 114 Resp: 2330576
 Ion Ratio Lower Upper
 114 100
 63 27.8 22.0 33.0
 88 18.8 15.0 22.6

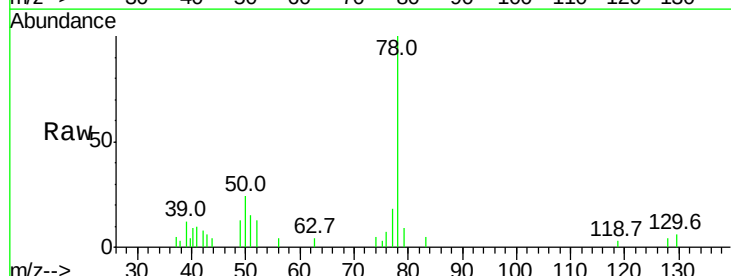


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

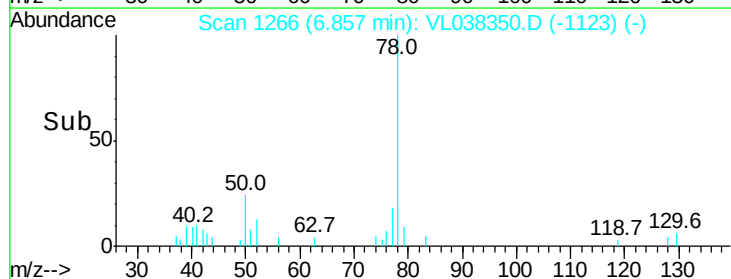
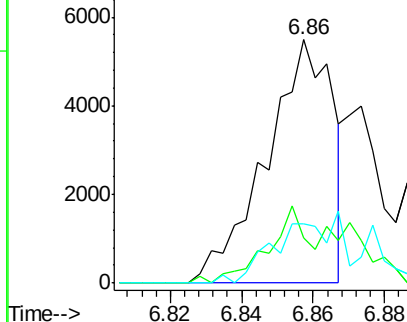


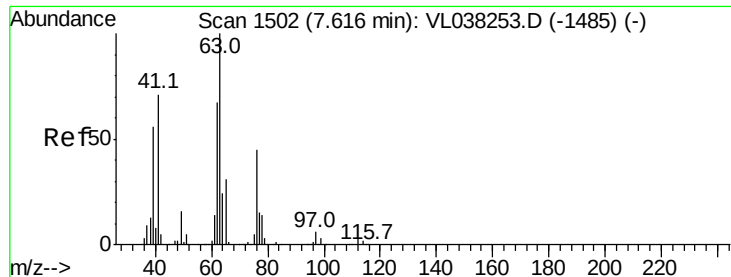
#36
 Benzene
 Concen: 0.03 ppbv
 RT: 6.86 min Scan# 1266
 Delta R.T. -0.04 min
 Lab File: VL038350.D
 Acq: 14 Feb 2022 21:25

Tgt Ion: 78 Resp: 7101
 Ion Ratio Lower Upper
 78 100
 77 18.3 18.2 27.2
 50 24.5 15.1 22.7#



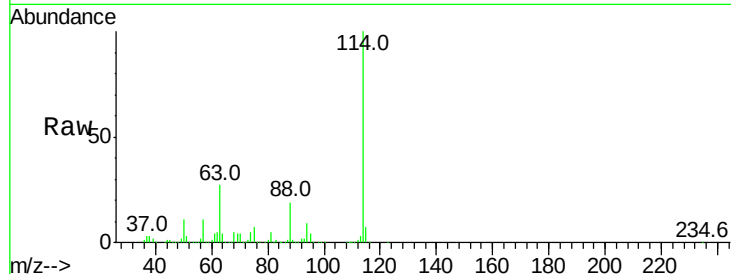
Abundance Ion 78.10 (77.80 to 78.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0



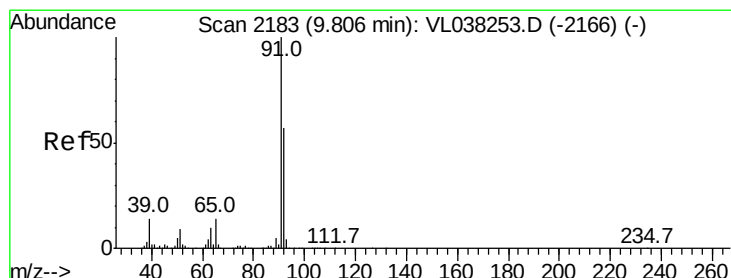
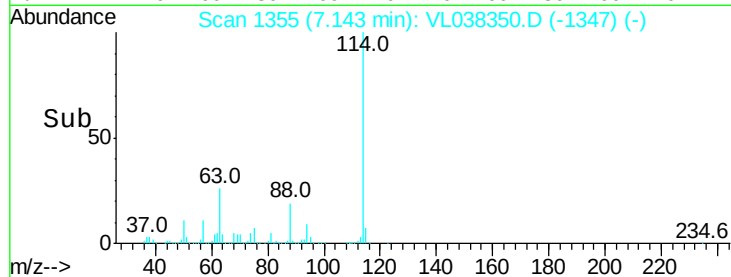
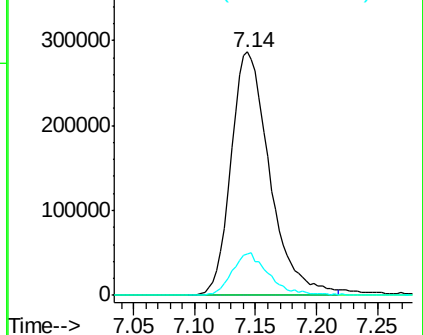


#39
 1,2-Dichloropropane
 Concen: 7.57 ppbv
 RT: 7.14
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Feb 2022 21:25

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.6	85.0#
62	17.0	53.9	80.9#

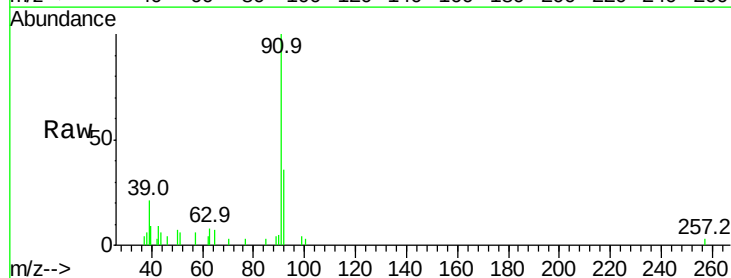


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

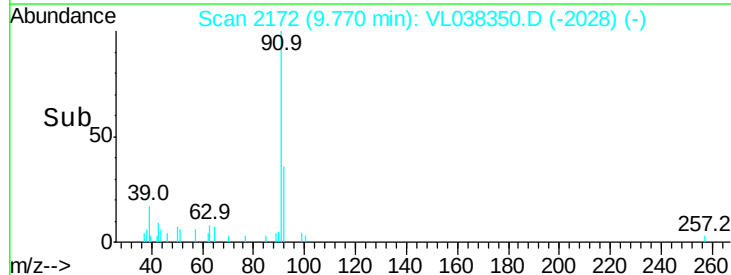
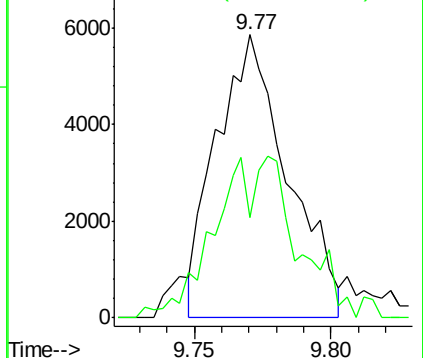


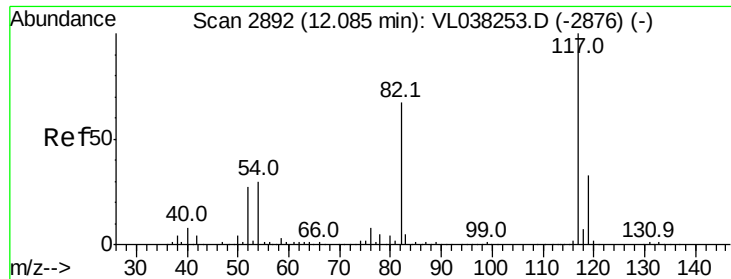
#53
 Toluene
 Concen: 0.05 ppbv
 RT: 9.77 min Scan# 2172
 Delta R.T. -0.04 min
 Lab File: VL038350.D
 Acq: 14 Feb 2022 21:25

Tgt Ion	Ratio	Lower	Upper
91	100		
92	65.9	47.4	71.0



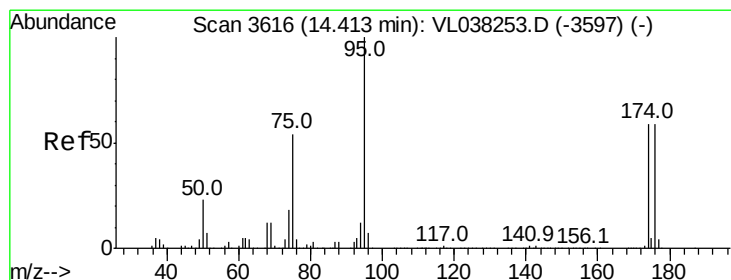
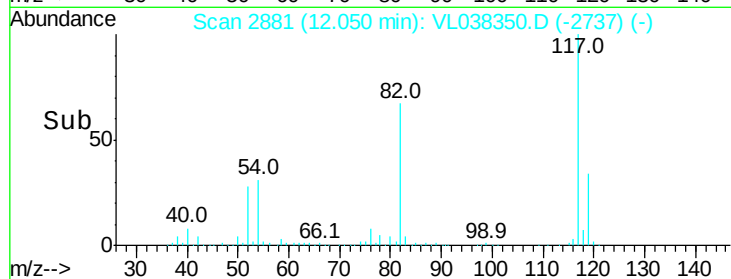
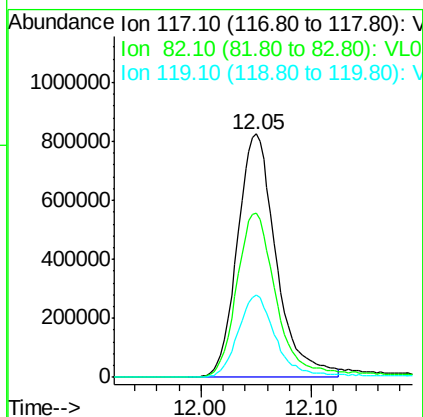
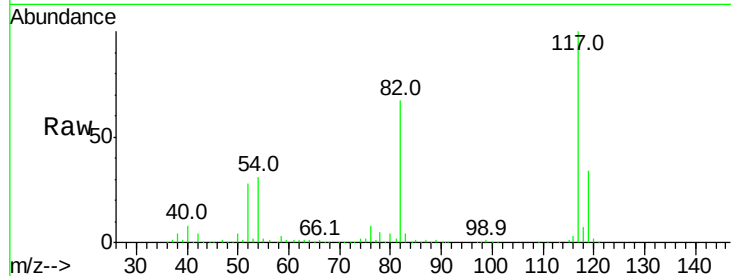
Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0





#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.05 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 14 Feb 2022 21:25

Tgt Ion: 117 Resp: 2011861
 Ion Ratio Lower Upper
 117 100
 82 72.1 54.4 81.6
 119 35.0 45.9 68.9#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.45 ppbv
 RT: 14.38 min Scan# 3605
 Delta R.T.: -0.04 min
 Lab File: VL038350.D
 Acq: 14 Feb 2022 21:25

Tgt Ion: 95 Resp: 1596455
 Ion Ratio Lower Upper
 95 100
 174 61.0 48.3 72.5
 175 4.5 3.5 5.3

