

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038392.D
 Acq On : 22 Feb 2022 17:01
 Operator : SY/AP
 Sample : N1607-05DL 80X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MP-11DL

Quant Time: Feb 23 07:04:37 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	894640	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	2204743	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	1988518	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.41	95	1596862	9.71	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%	

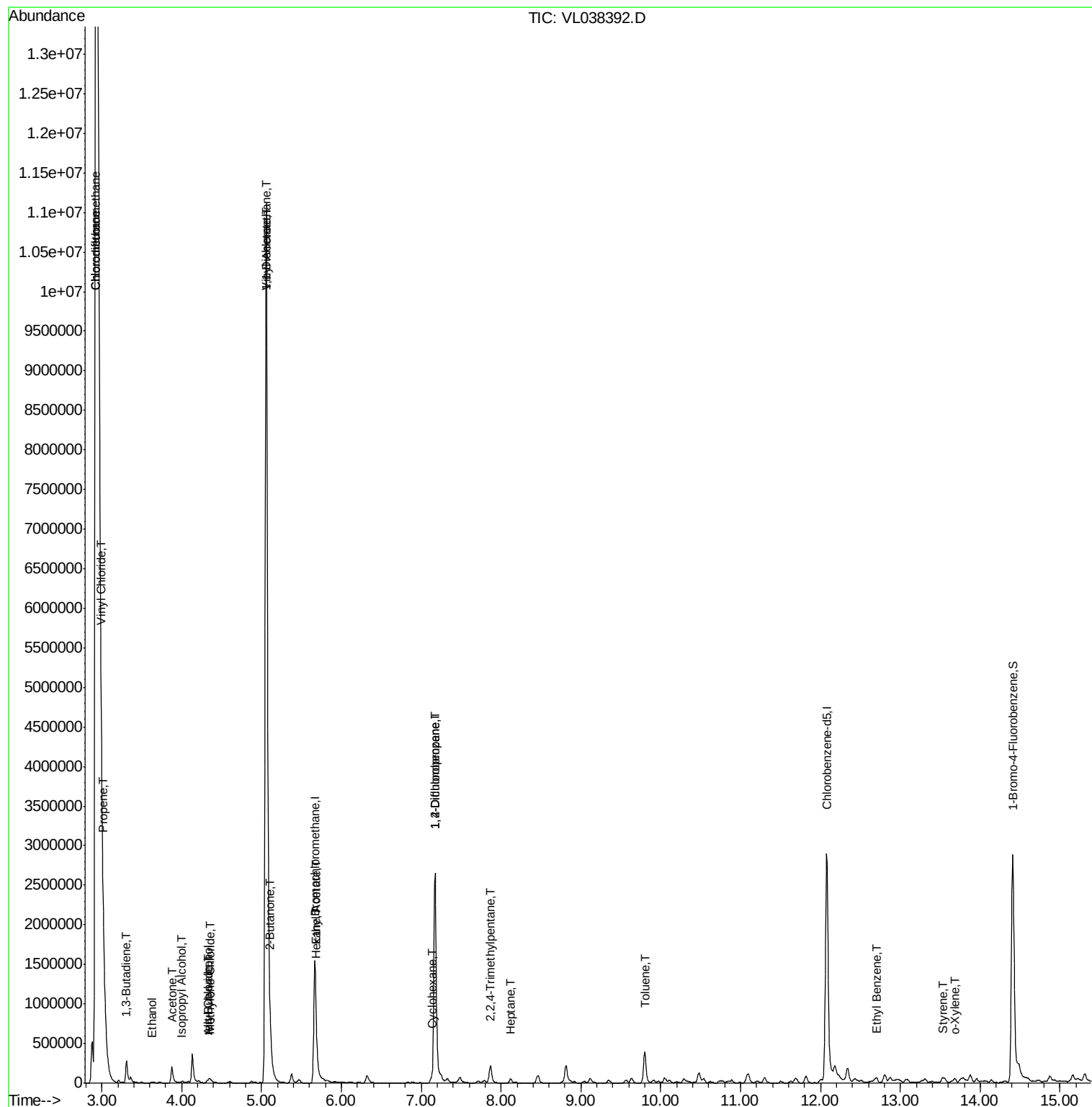
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.93	51	8222696	52.05	ppbv #	59
4) Chloromethane	2.93	50	2981950	54.32	ppbv #	47
5) Vinyl Chloride	3.00	62	5037	0.09	ppbv #	1
9) Propene	3.02	41	25230	0.48	ppbv	90
10) Heptane	8.13	43	4934	0.04	ppbv #	28
13) Ethanol	3.62	45	4890	0.94	ppbv #	31
15) Acetone	3.88	43	94773	1.25	ppbv #	72
16) 1,3-Butadiene	3.31	39	98292	1.93	ppbv #	17
17) tert-Butyl alcohol	4.32	59	12483	0.16	ppbv #	72
19) Isopropyl Alcohol	3.98	45	1705	0.04	ppbv #	93
20) Methylene Chloride	4.35	84	13973	0.37	ppbv	91
21) Allyl Chloride	4.32	41	5018	0.08	ppbv #	58
23) Vinyl Acetate	5.06	43	363978	3.61	ppbv #	1
24) 1,1-Dichloroethane	5.06	63	64258	0.71	ppbv #	89
25) Ethyl Acetate	5.69	43	28672	0.14	ppbv #	78
26) Hexane	5.69	57	38441	0.42	ppbv #	41
30) Cyclohexane	7.13	84	17258	0.23	ppbv #	5
34) 2-Butanone	5.11	43	62405	0.90	ppbv #	59
39) 1,2-Dichloropropane	7.17	63	581869	7.53	ppbv #	25
44) 2,2,4-Trimethylpentane	7.87	57	173812	0.52	ppbv #	81
53) Toluene	9.80	91	297425	1.41	ppbv	98
58) Ethyl Benzene	12.70	91	15690	0.06	ppbv	92
60) o-Xylene	13.68	91	34275	0.16	ppbv	98
61) Styrene	13.53	104	3334	0.03	ppbv #	1

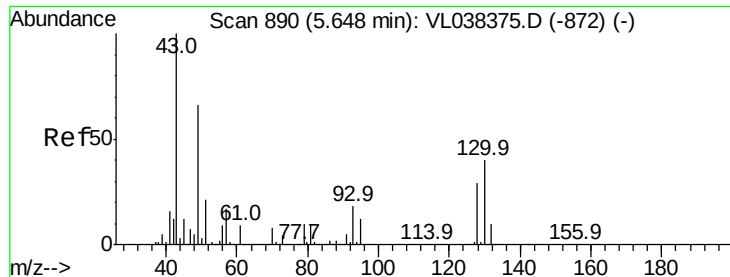
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 17:01 MP-11DL

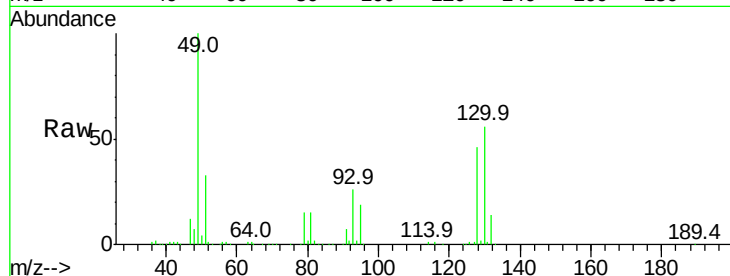
Tgt Ion: 49 Resp: 894640

Ion Ratio Lower Upper

49 100

128 49.0 24.3 72.9

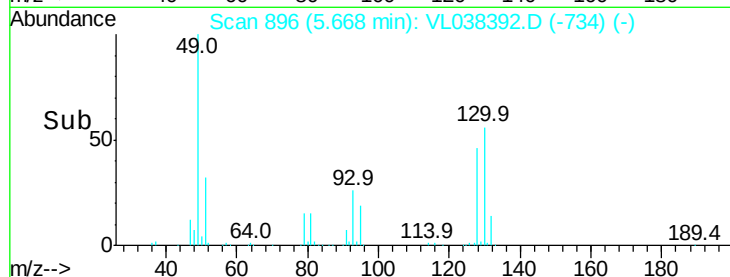
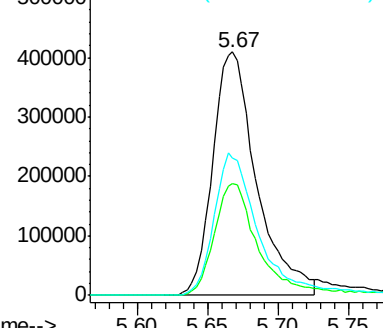
130 60.6 30.1 90.5



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



#3

Chlorodifluoromethane

Concen: 52.05 ppbv

RT: 2.93 min Scan# 44

Delta R.T. -0.05 min

Lab File: VL038392.D

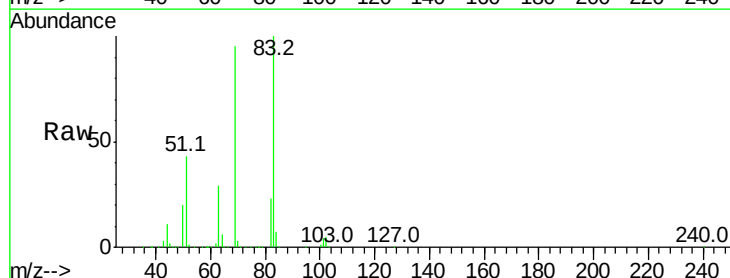
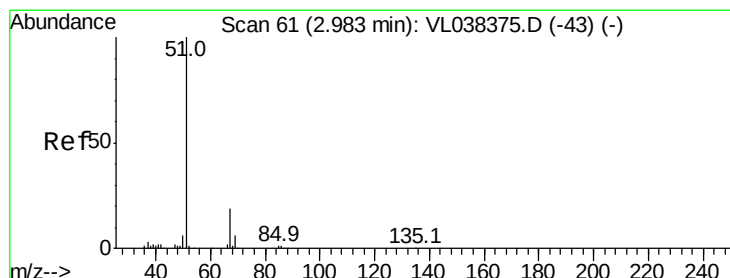
Acq: 22 Feb 2022 17:01

Tgt Ion: 51 Resp: 8222696

Ion Ratio Lower Upper

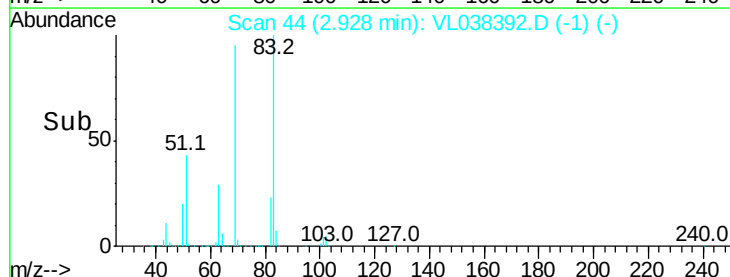
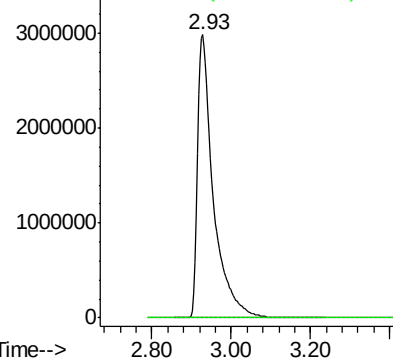
51 100

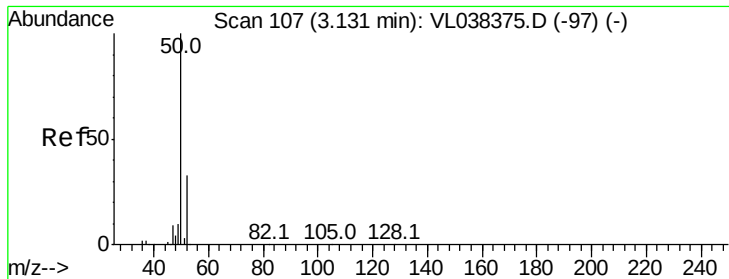
67 0.0 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 54.32 ppbv

RT: 2.93

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

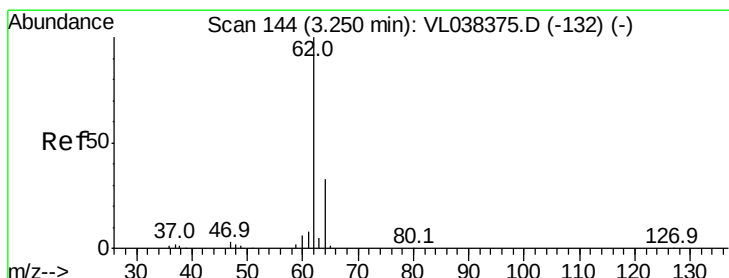
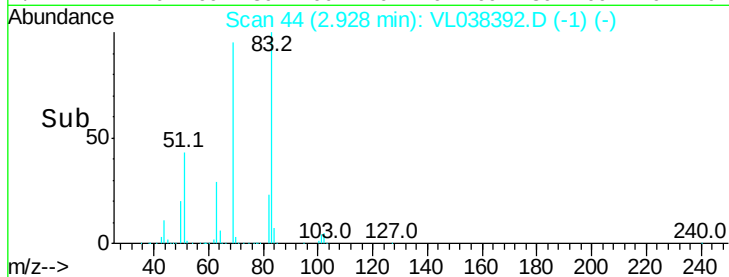
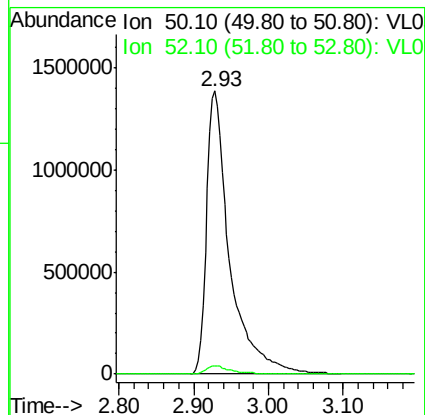
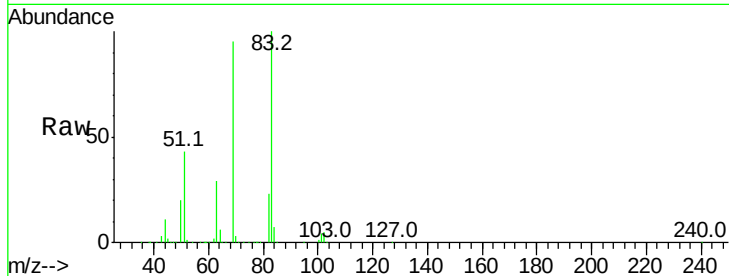
Acq: 22 Feb 2022 17:01

Tgt Ion: 50 Resp: 2981950

Ion Ratio Lower Upper

50 100

52 3.0 26.5 39.7#



#5

Vinyl Chloride

Concen: 0.09 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.25 min

Lab File: VL038392.D

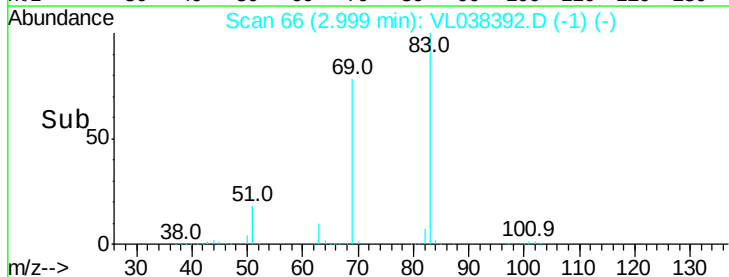
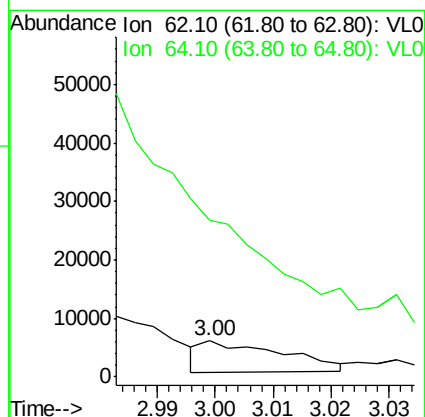
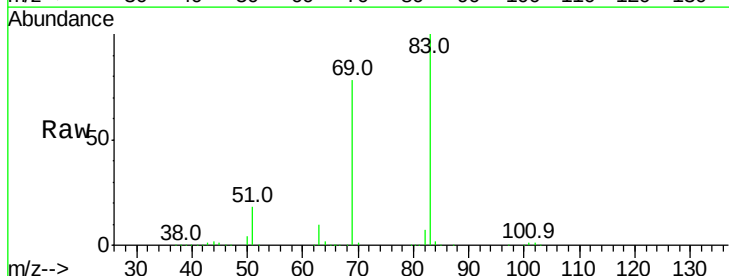
Acq: 22 Feb 2022 17:01

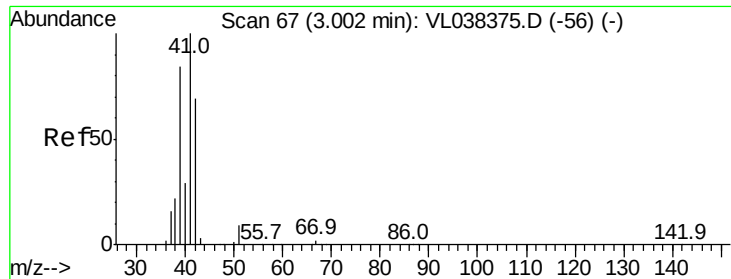
Tgt Ion: 62 Resp: 5037

Ion Ratio Lower Upper

62 100

64 303.5 26.2 39.2#





#9

Propene

Concen: 0.48 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. 0.03 min

Lab File: ClientSampleId: MP-11DL

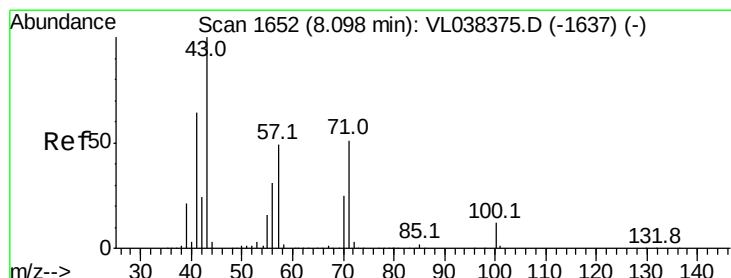
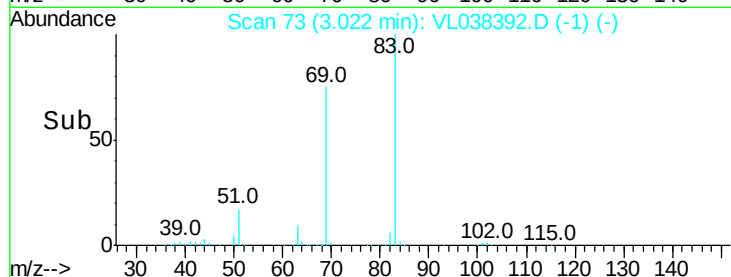
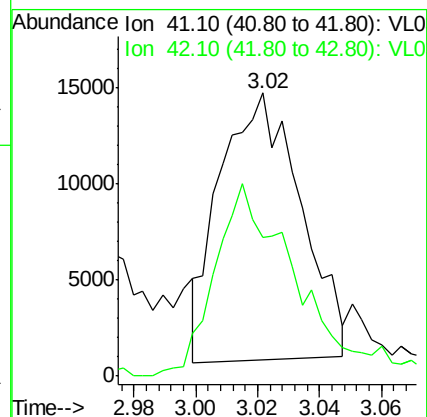
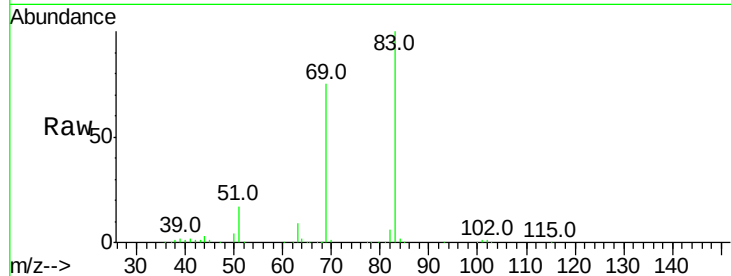
Acq: 22 Feb 2022 17:01

Tgt Ion: 41 Resp: 25230

Ion Ratio Lower Upper

41 100

42 76.8 54.6 82.0



#10

Heptane

Concen: 0.04 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.03 min

Lab File: VL038392.D

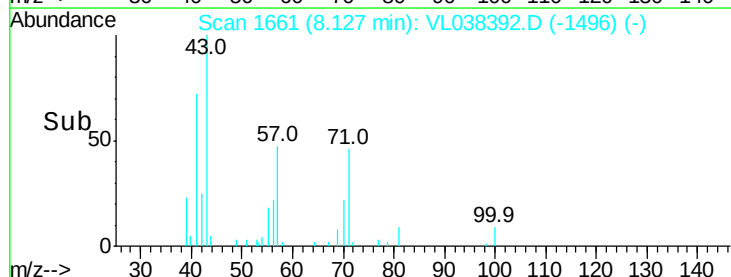
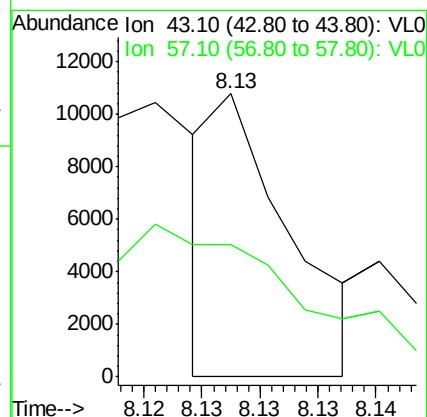
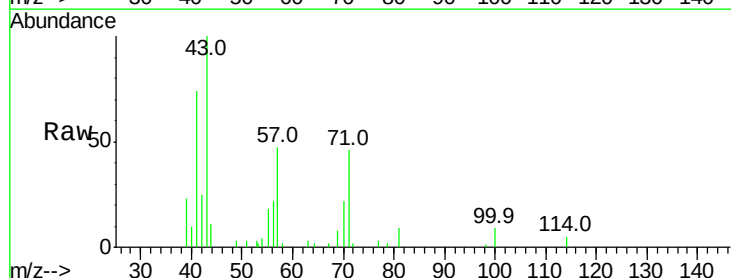
Acq: 22 Feb 2022 17:01

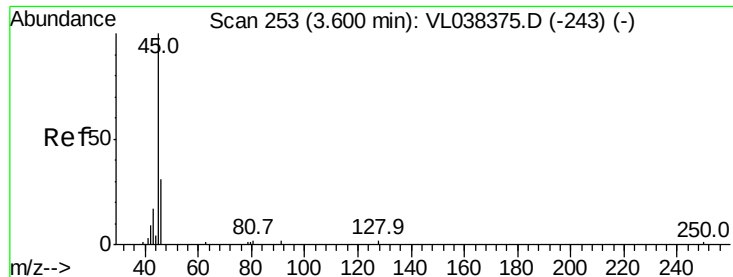
Tgt Ion: 43 Resp: 4934

Ion Ratio Lower Upper

43 100

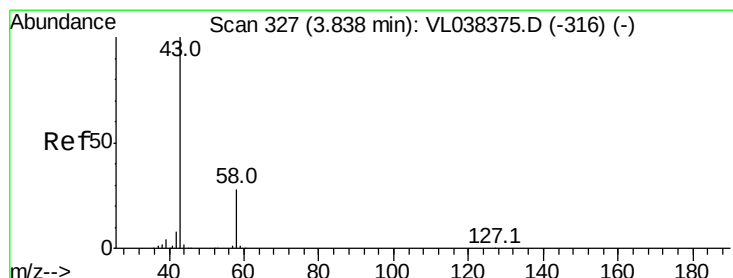
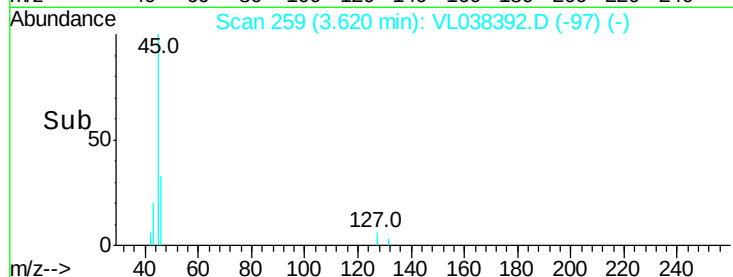
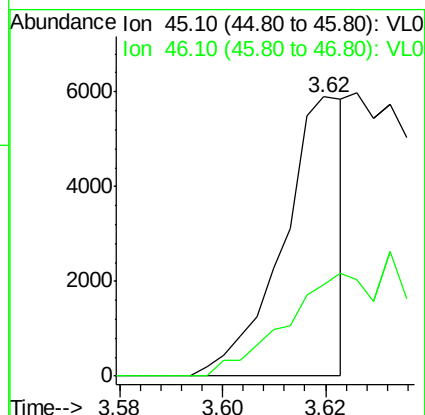
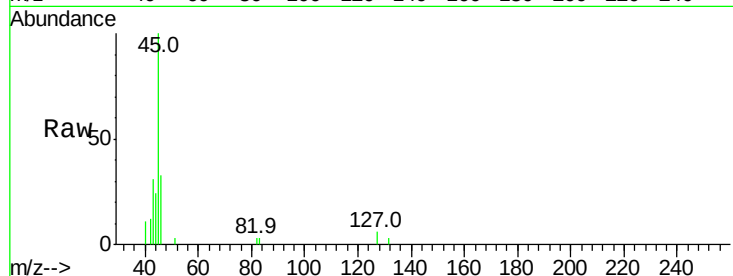
57 0.0 39.8 59.8#





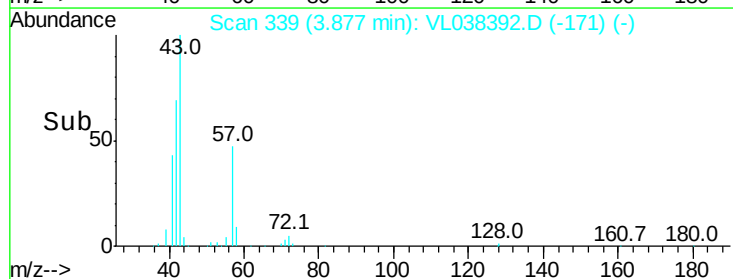
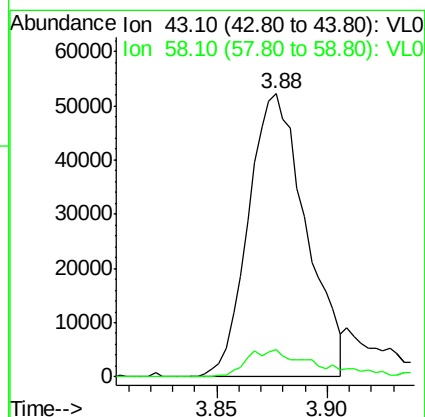
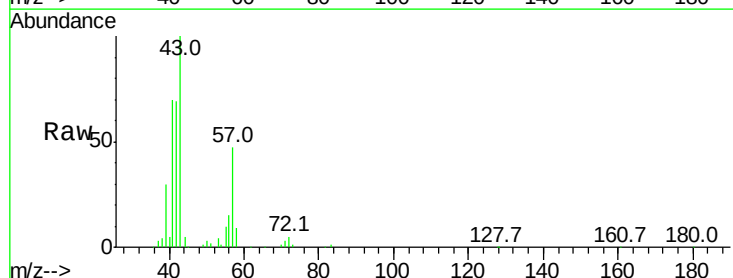
#13
Ethanol
Concen: 0.94 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Feb 2022 17:01 MP-11DL

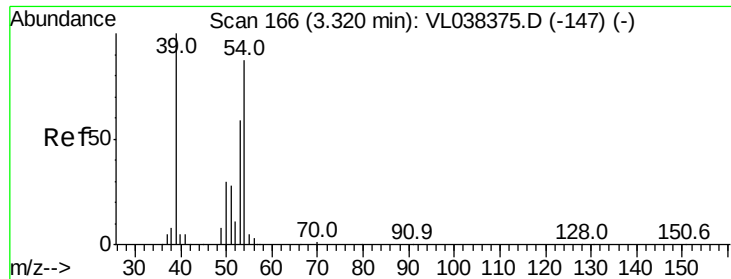
Tgt Ion: 45 Resp: 4890
Ion Ratio Lower Upper
45 100
46 0.0 18.2 72.8#



#15
Acetone
Concen: 1.25 ppbv
RT: 3.88 min Scan# 339
Delta R.T. 0.04 min
Lab File: VL038392.D
Acq: 22 Feb 2022 17:01

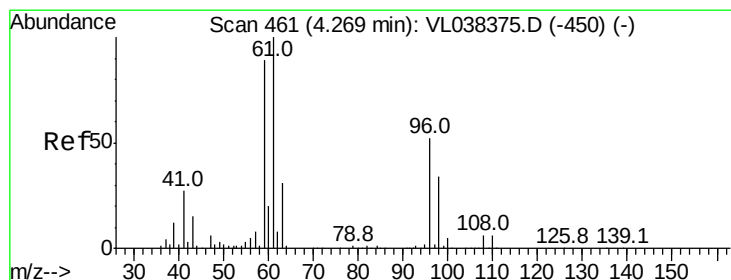
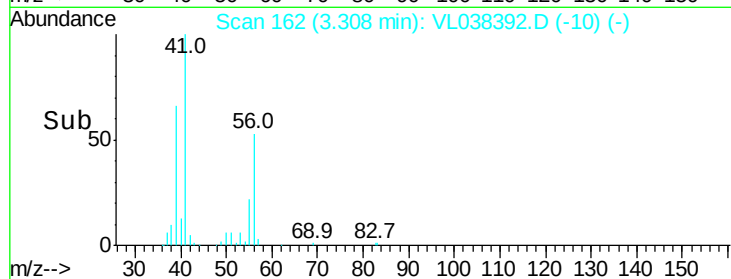
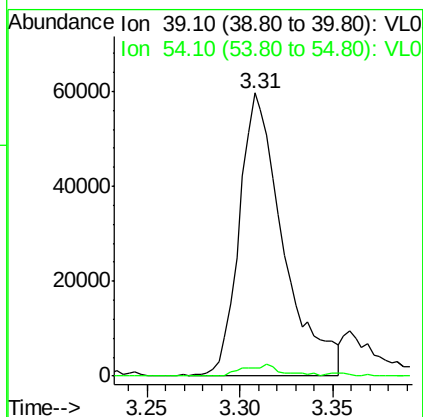
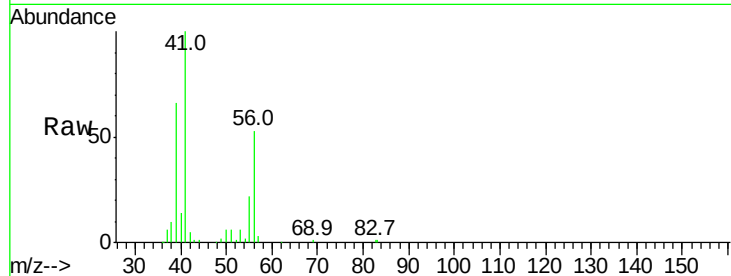
Tgt Ion: 43 Resp: 94773
Ion Ratio Lower Upper
43 100
58 12.6 21.7 32.5#





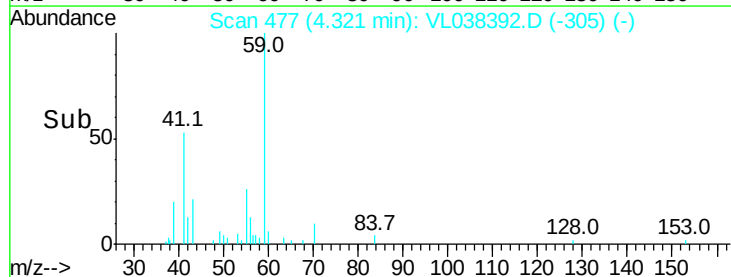
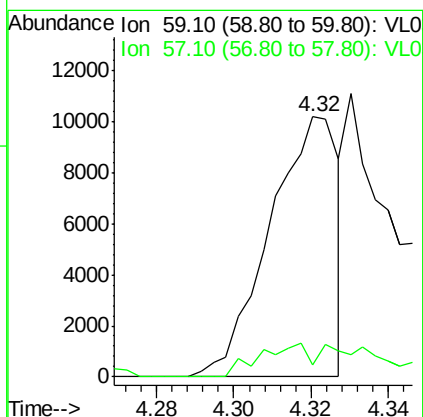
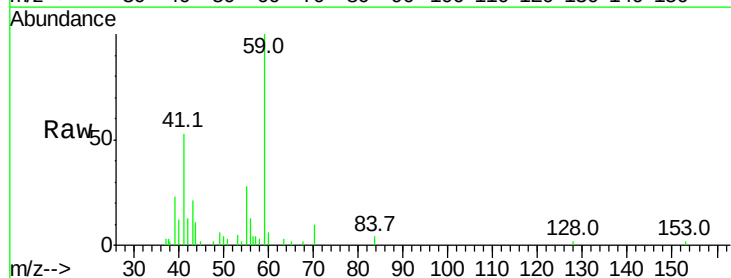
#16
 1,3-Butadiene
 Concen: 1.93 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 17:01

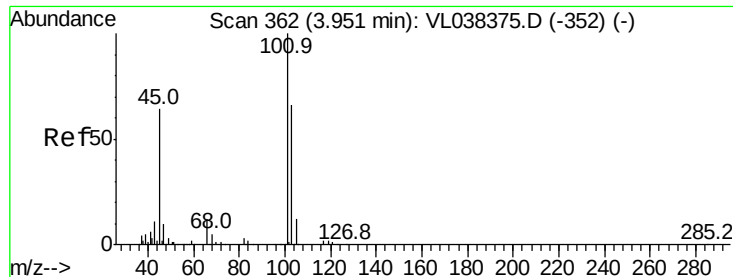
Tgt Ion: 39 Resp: 98292
 Ion Ratio Lower Upper
 39 100
 54 4.4 60.3 90.5#



#17
 tert-Butyl alcohol
 Concen: 0.16 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. 0.05 min
 Lab File: VL038392.D
 Acq: 22 Feb 2022 17:01

Tgt Ion: 59 Resp: 12483
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.04 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

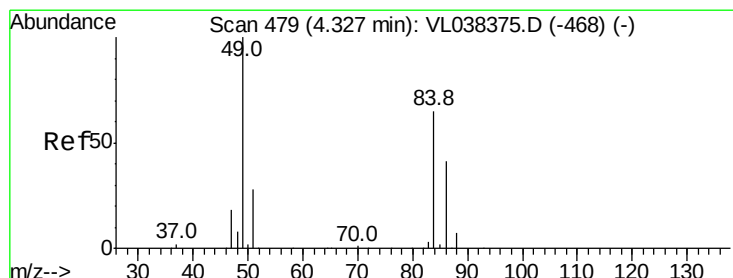
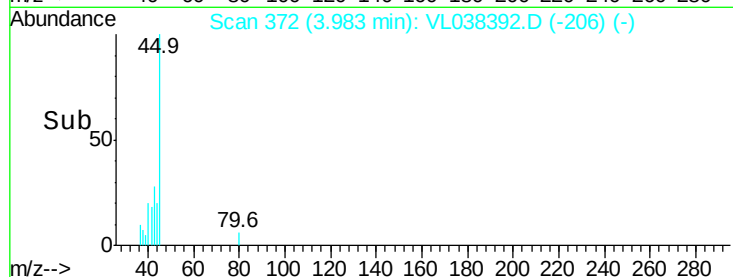
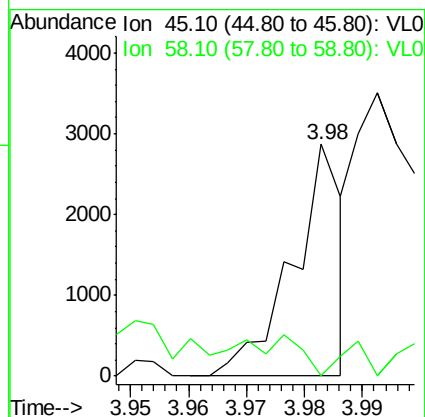
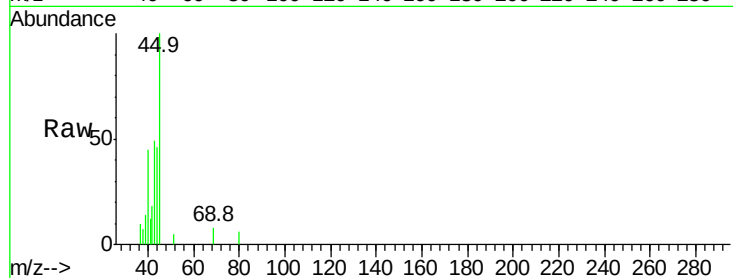
Acq: 22 Feb 2022 17:01 MP-11DL

Tgt Ion: 45 Resp: 1705

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 0.37 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL038392.D

Acq: 22 Feb 2022 17:01

Tgt Ion: 84 Resp: 13973

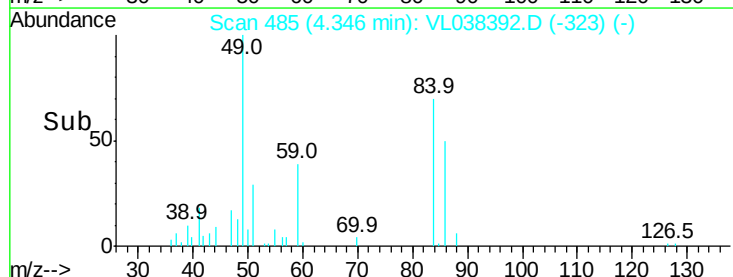
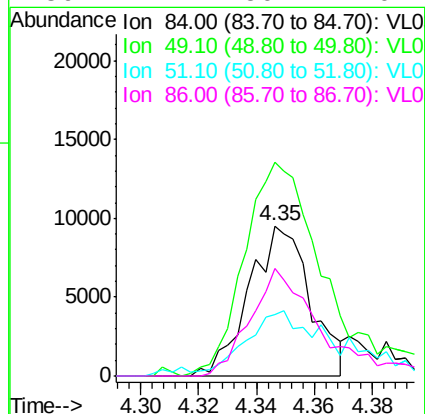
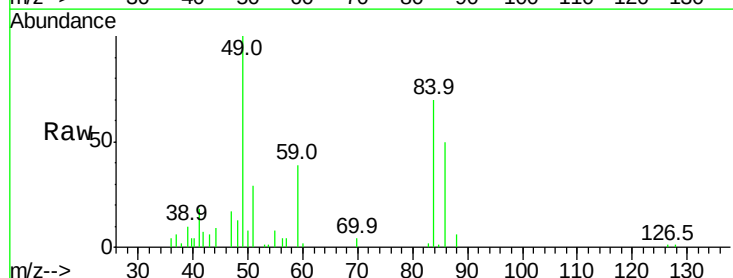
Ion Ratio Lower Upper

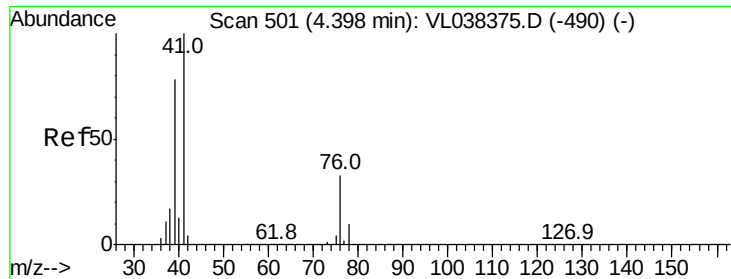
84 100

49 140.4 122.4 183.6

51 38.4 33.3 49.9

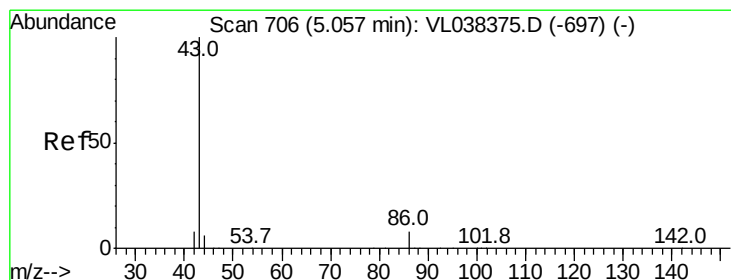
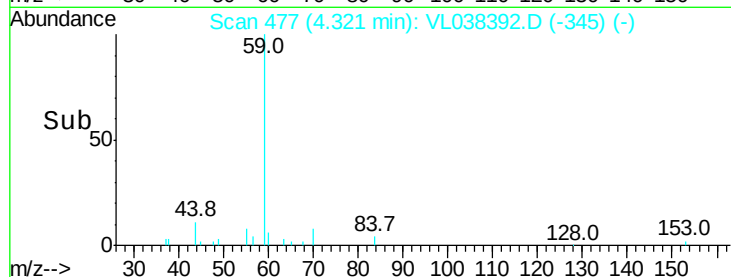
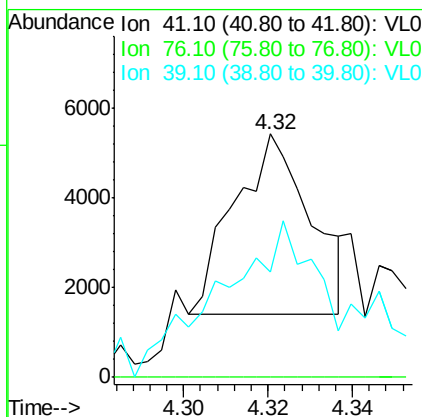
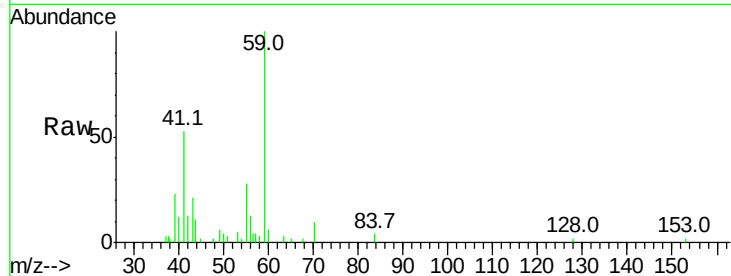
86 71.2 50.7 76.1





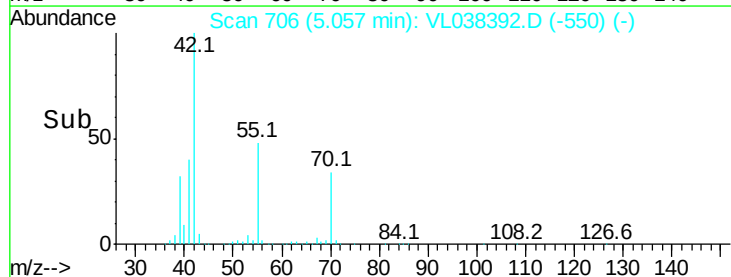
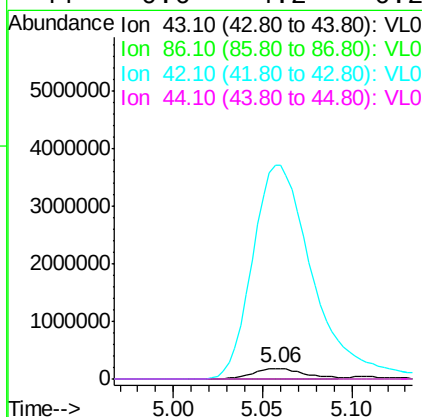
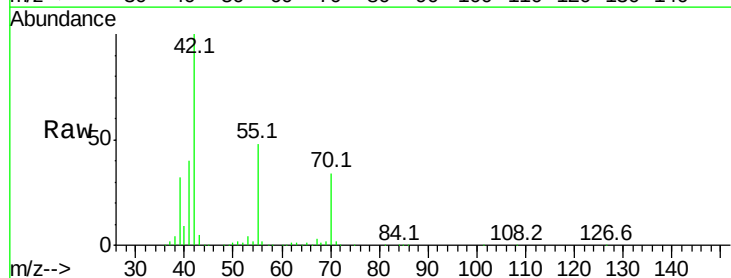
#21
 Allyl Chloride
 Concen: 0.08 ppbv
 RT: 4.32 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: MP-11DL
 Acq: 22 Feb 2022 17:01

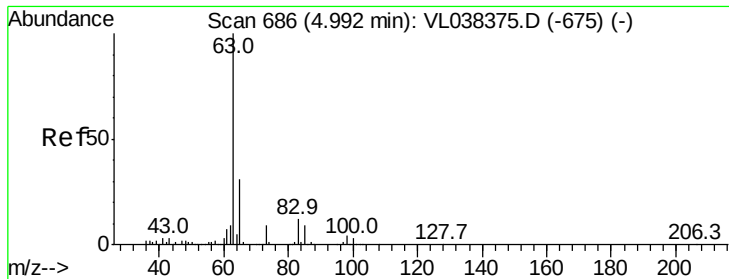
Tgt Ion: 41 Resp: 5018
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.4 38.0#
 39 110.6 63.0 94.6#



#23
 Vinyl Acetate
 Concen: 3.61 ppbv
 RT: 5.06 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VL038392.D
 Acq: 22 Feb 2022 17:01

Tgt Ion: 43 Resp: 363978
 Ion Ratio Lower Upper
 43 100
 86 0.2 5.8 8.6#
 42 2052.0 7.4 11.0#
 44 0.6 4.2 6.2#





#24

1,1-Dichloroethane

Concen: 0.71 ppbv

RT: 5.06 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Feb 2022 17:01 MP-11DL

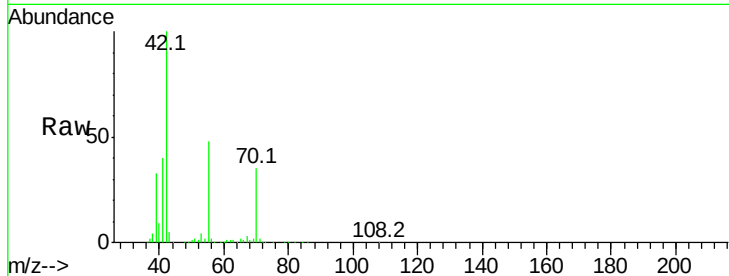
Tgt Ion: 63 Resp: 64258

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.5#

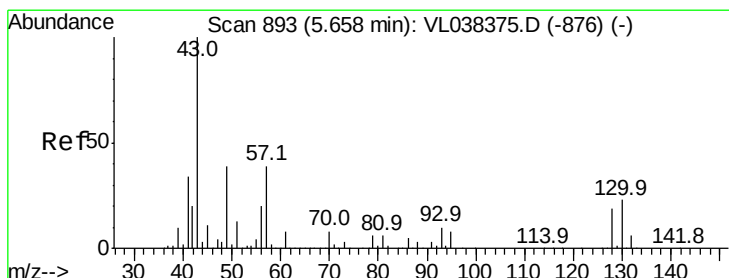
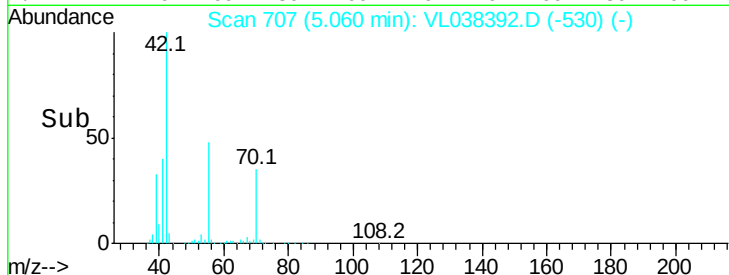
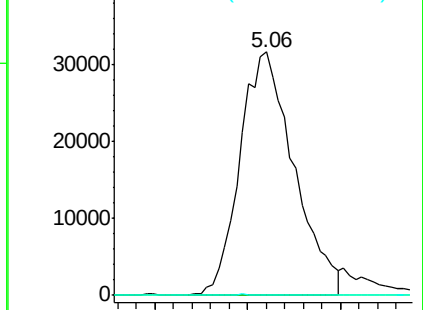
100 0.0 1.4 4.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.14 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.03 min

Lab File: VL038392.D

Acq: 22 Feb 2022 17:01

Tgt Ion: 43 Resp: 28672

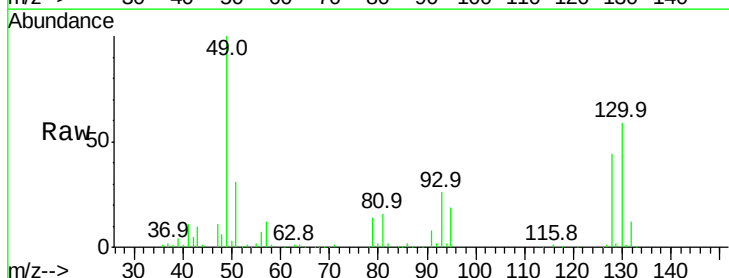
Ion Ratio Lower Upper

43 100

45 0.0 7.8 11.6#

61 0.0 7.5 11.3#

70 3.4 5.4 8.0#

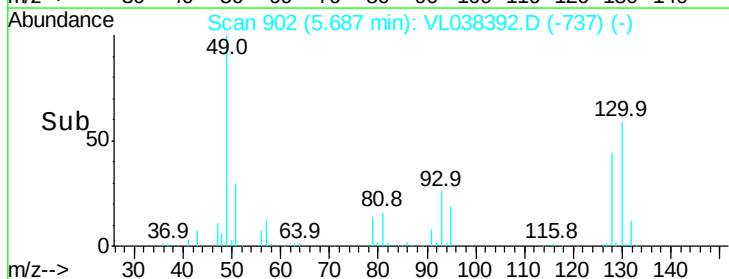
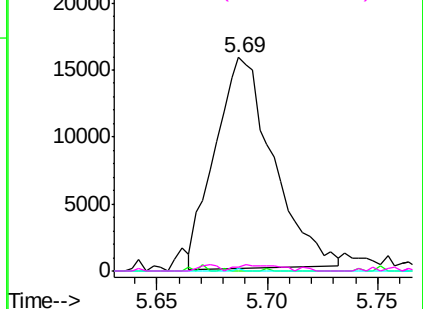


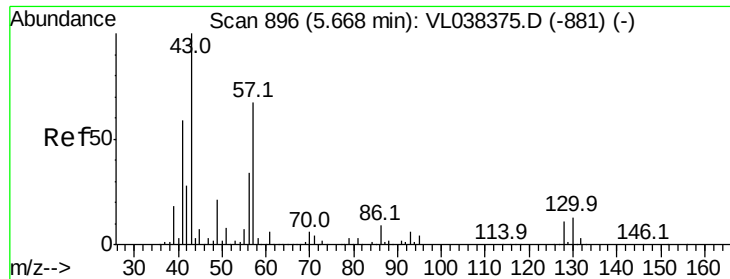
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

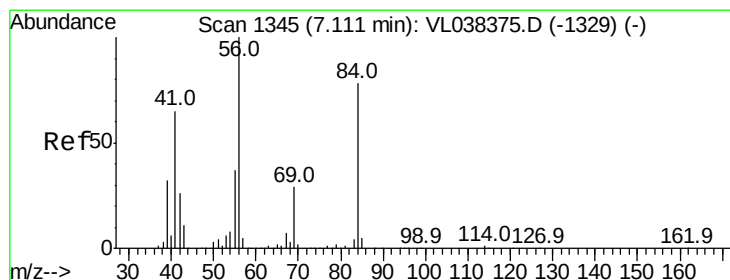
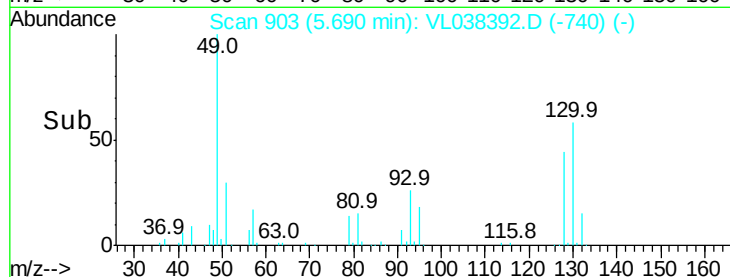
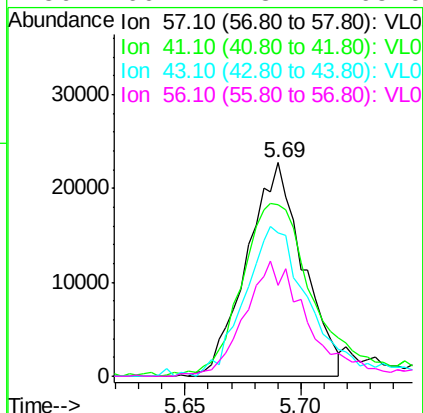
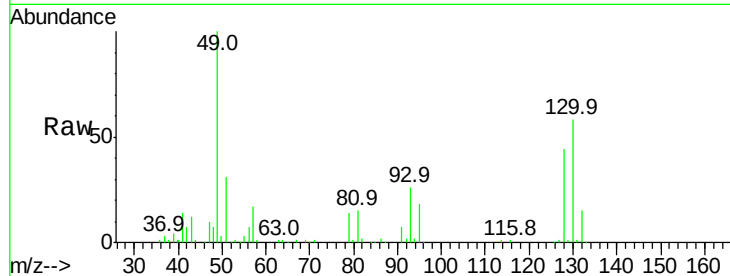
Ion 70.10 (69.80 to 70.80): VL0





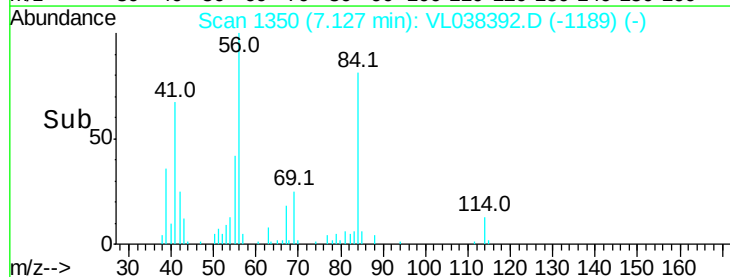
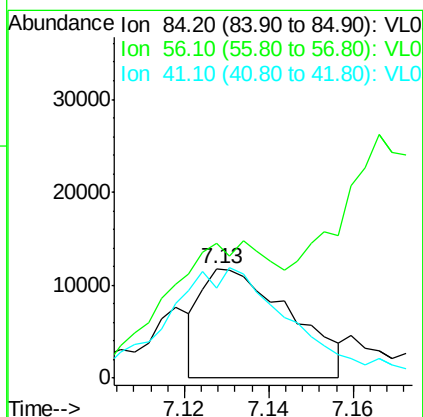
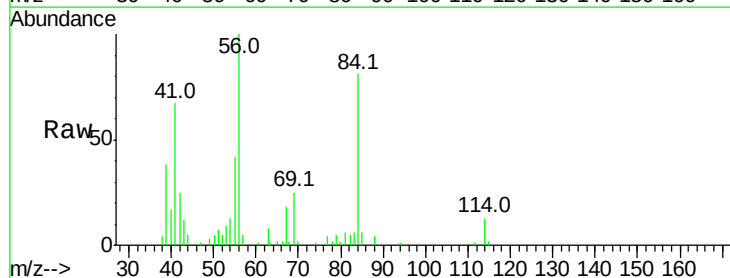
#26
Hexane
Concen: 0.42 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Feb 2022 17:01

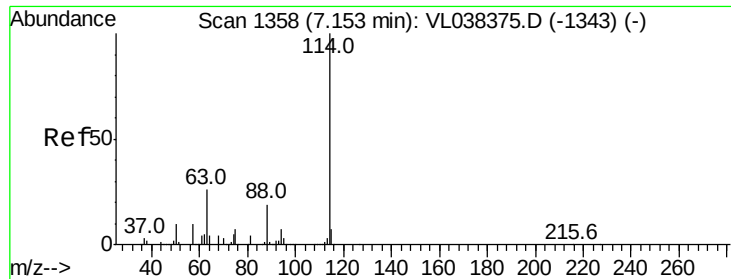
Tgt Ion:	57	Resp:	38441
Ion	Ratio	Lower	Upper
57	100		
41	113.6	73.1	109.7#
43	86.9	181.0	271.4#
56	60.1	43.4	65.0



#30
Cyclohexane
Concen: 0.23 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. 0.02 min
Lab File: VL038392.D
Acq: 22 Feb 2022 17:01

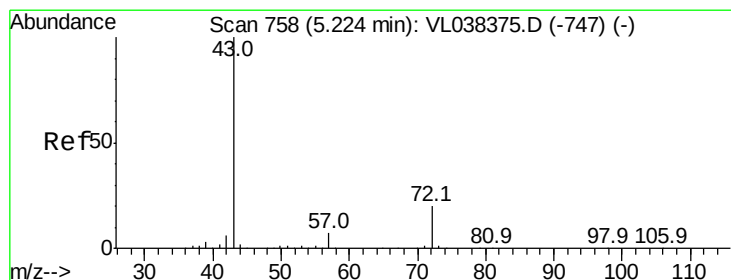
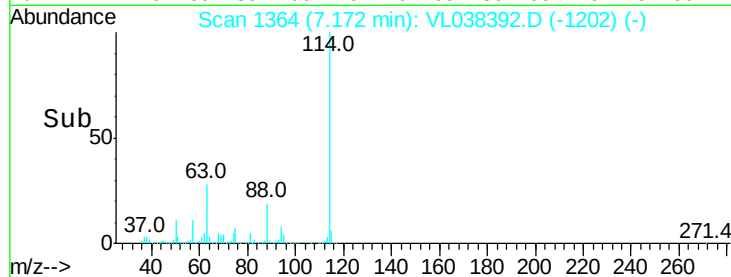
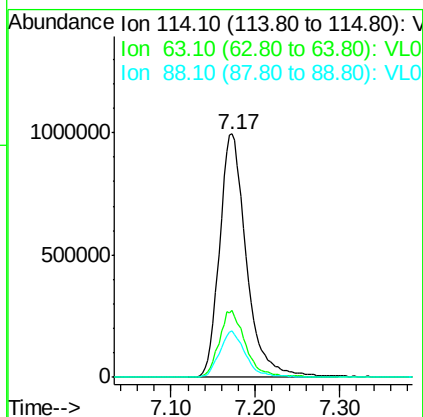
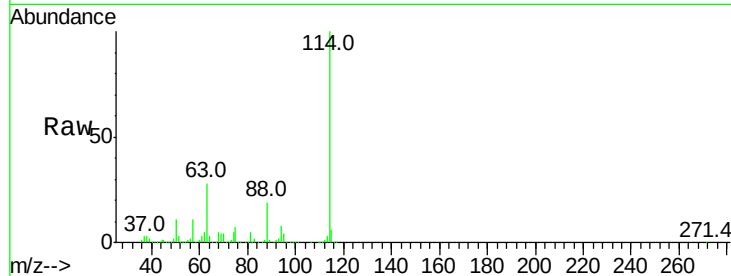
Tgt Ion:	84	Resp:	17258
Ion	Ratio	Lower	Upper
84	100		
56	0.0	116.2	174.4#
41	150.7	74.3	111.5#





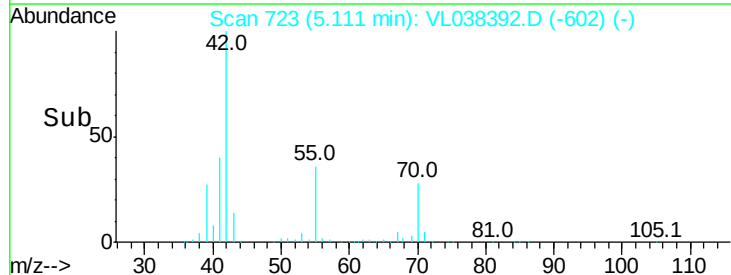
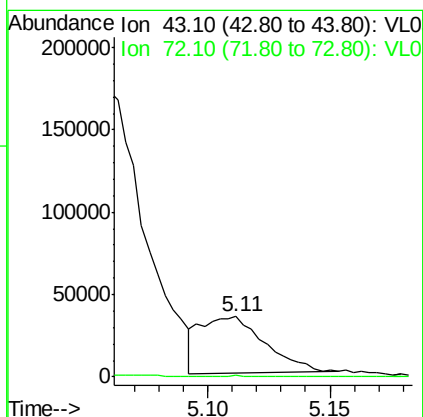
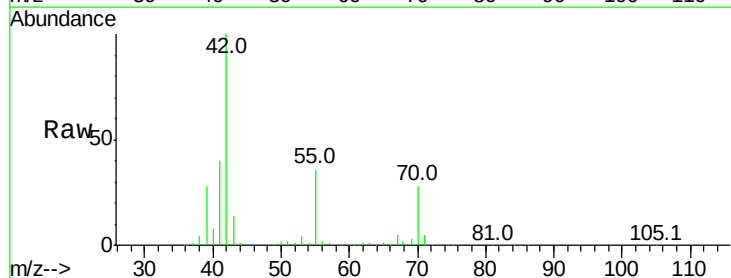
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MP-11DL
 Acq: 22 Feb 2022 17:01

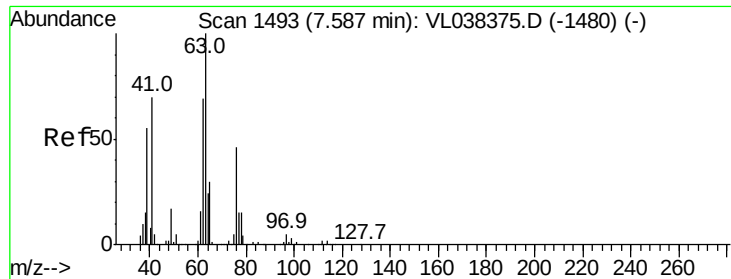
Tgt Ion: 114 Resp: 2204743
 Ion Ratio Lower Upper
 114 100
 63 27.3 22.2 33.2
 88 18.5 15.2 22.8



#34
 2-Butanone
 Concen: 0.90 ppbv
 RT: 5.11 min Scan# 723
 Delta R.T. -0.11 min
 Lab File: VL038392.D
 Acq: 22 Feb 2022 17:01

Tgt Ion: 43 Resp: 62405
 Ion Ratio Lower Upper
 43 100
 72 2.2 17.4 26.2#





#39

1,2-Dichloropropane

Concen: 7.53 ppbv

RT: 7.17

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 17:01

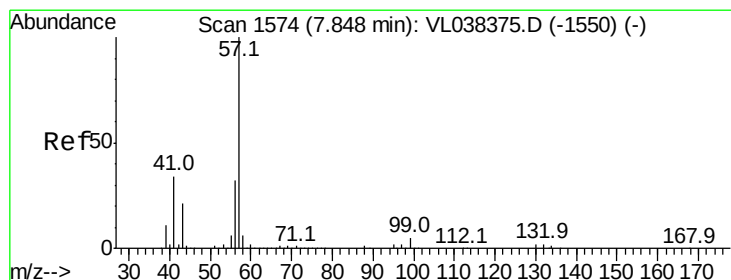
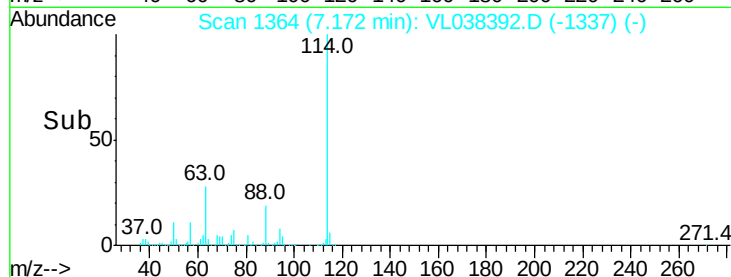
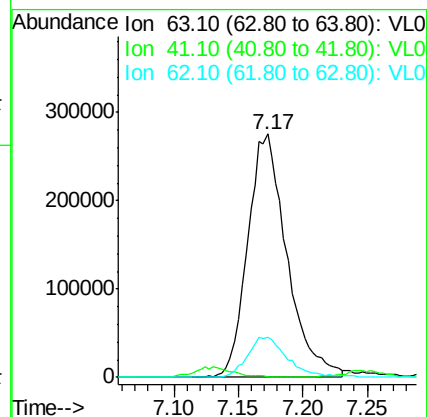
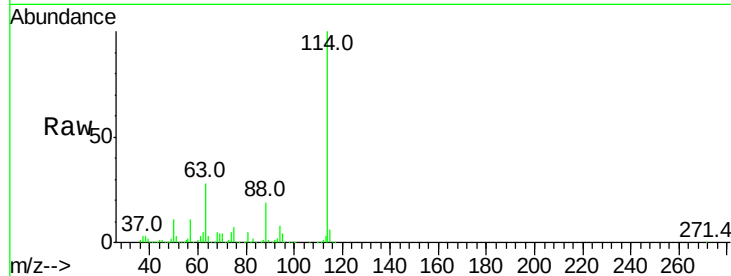
Tgt Ion: 63 Resp: 581869

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

62 16.3 55.5 83.3#



#44

2,2,4-Trimethylpentane

Concen: 0.52 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VL038392.D

Acq: 22 Feb 2022 17:01

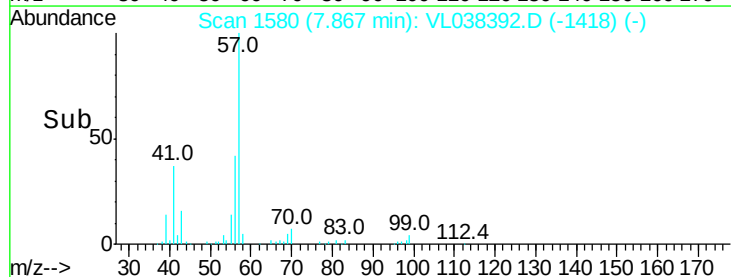
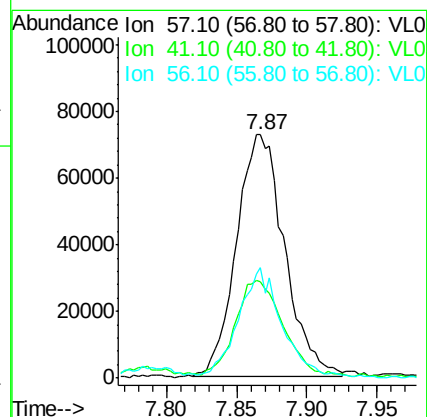
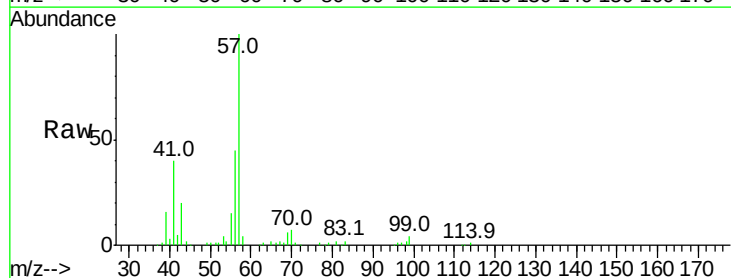
Tgt Ion: 57 Resp: 173812

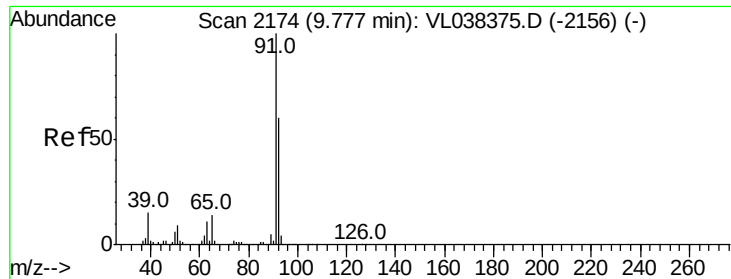
Ion Ratio Lower Upper

57 100

41 43.4 26.6 39.8#

56 42.0 25.0 37.6#





#53

Toluene

Concen: 1.41 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

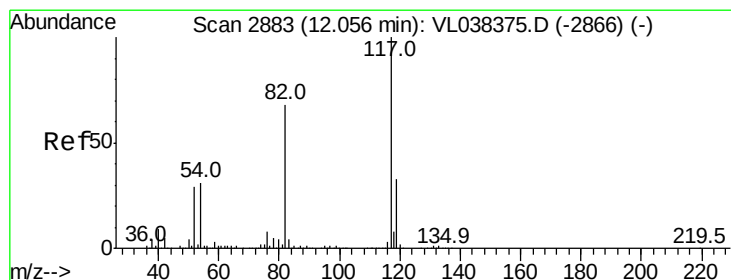
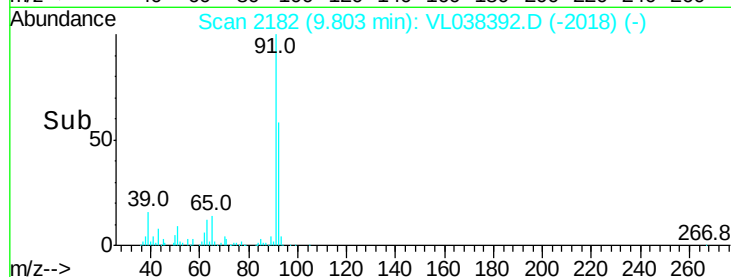
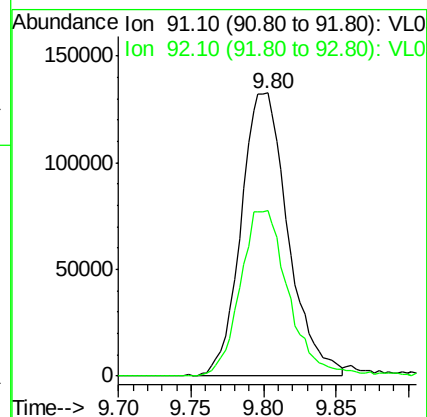
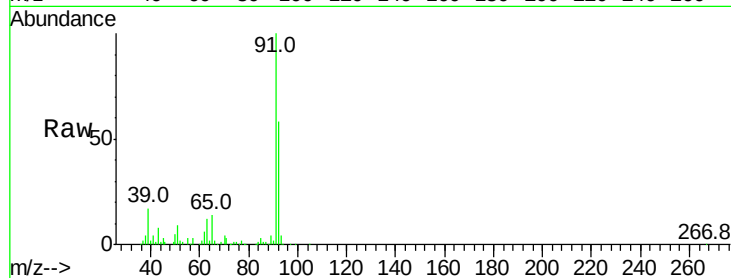
Acq: 22 Feb 2022 17:01 MP-11DL

Tgt Ion: 91 Resp: 297425

Ion Ratio Lower Upper

91 100

92 61.7 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. 0.02 min

Lab File: VL038392.D

Acq: 22 Feb 2022 17:01

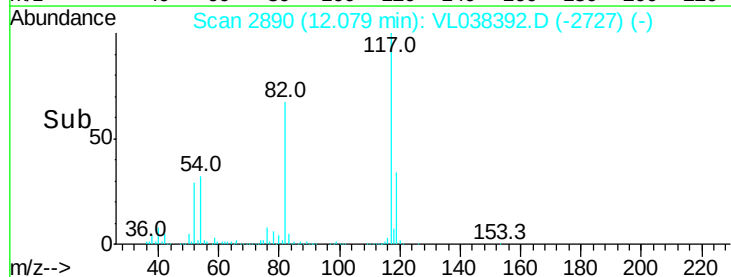
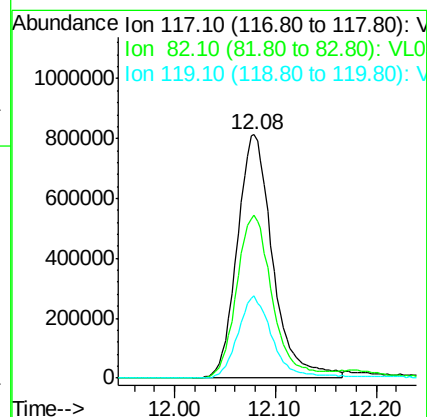
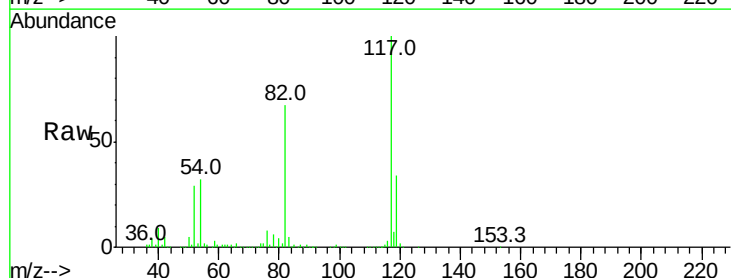
Tgt Ion: 117 Resp: 1988518

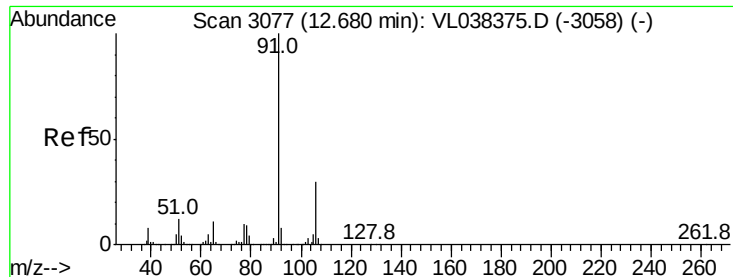
Ion Ratio Lower Upper

117 100

82 67.0 54.9 82.3

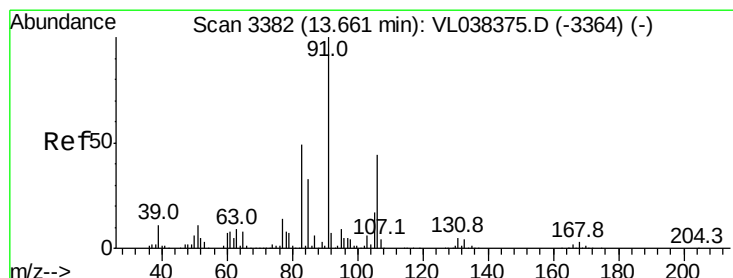
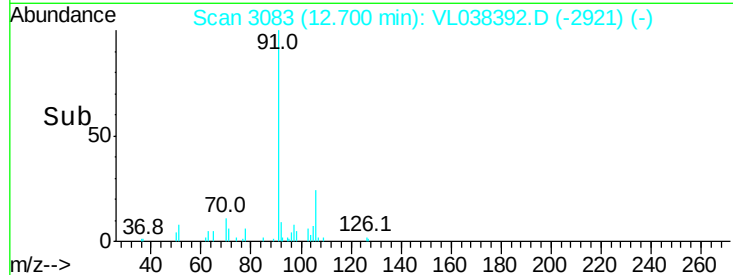
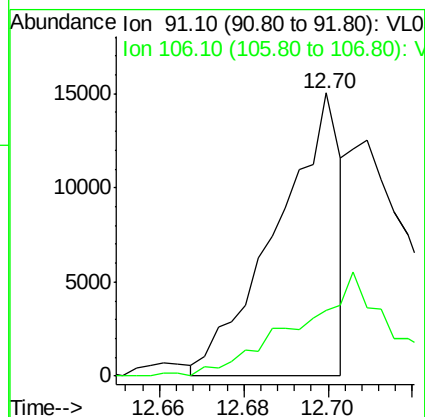
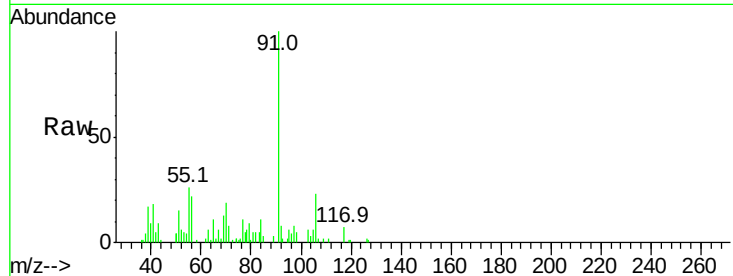
119 34.3 46.1 69.1#





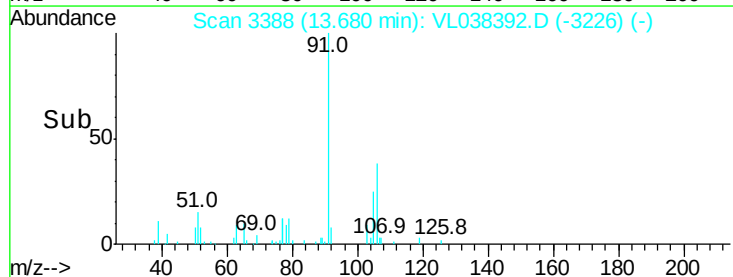
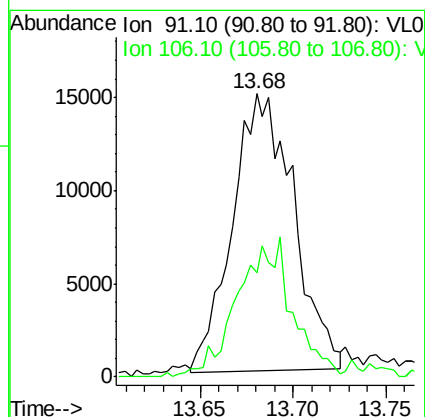
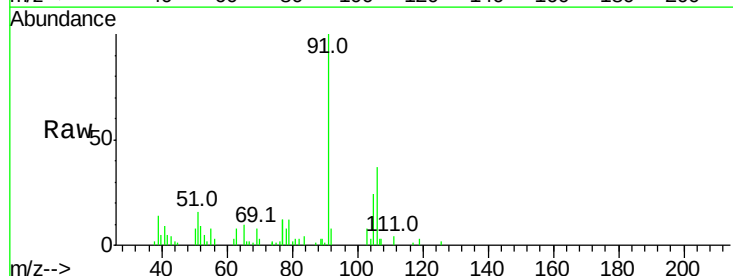
#58
 Ethyl Benzene
 Concen: 0.06 ppbv
 RT: 12.70 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 17:01

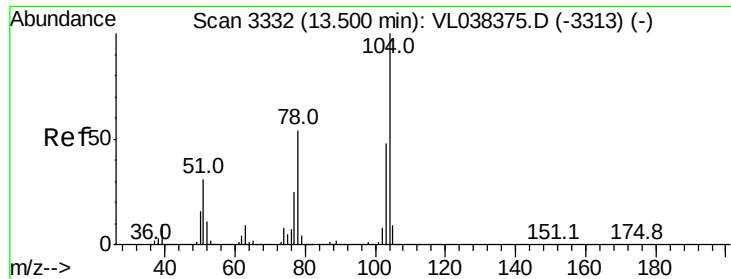
Tgt Ion: 91 Resp: 15690
 Ion Ratio Lower Upper
 91 100
 106 25.8 24.0 36.0



#60
 o-Xylene
 Concen: 0.16 ppbv
 RT: 13.68 min Scan# 3388
 Delta R.T. 0.02 min
 Lab File: VL038392.D
 Acq: 22 Feb 2022 17:01

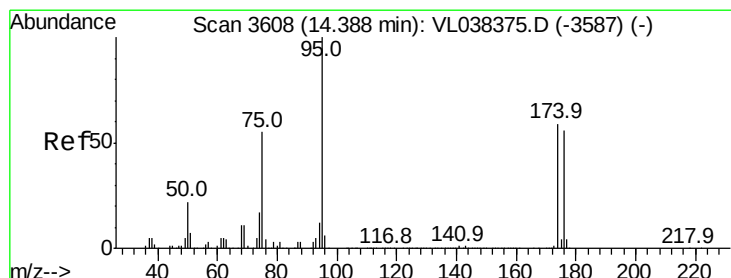
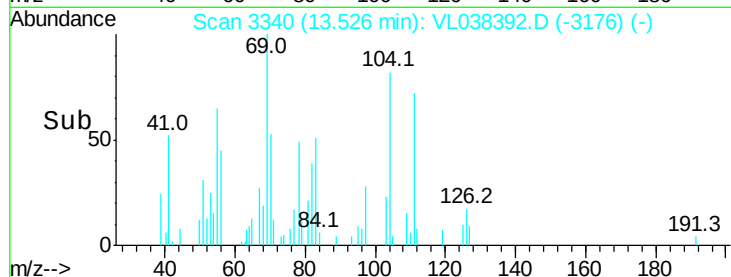
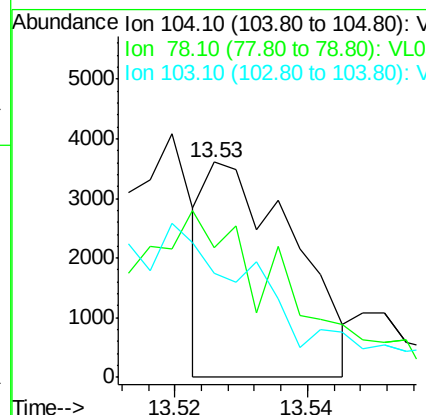
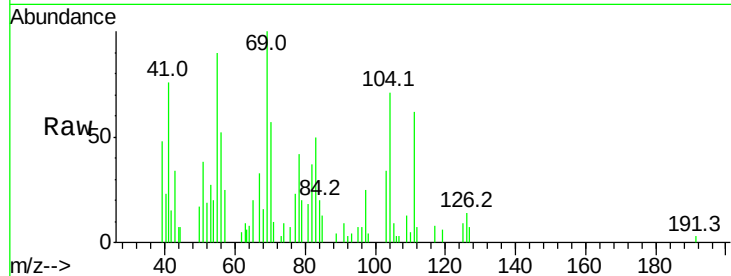
Tgt Ion: 91 Resp: 34275
 Ion Ratio Lower Upper
 91 100
 106 45.1 21.9 65.5





#61
 Styrene
 Concen: 0.03 ppbv
 RT: 13.53
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 17:01

Tgt Ion: 104 Resp: 3334
 Ion Ratio Lower Upper
 104 100
 78 185.3 44.2 66.4#
 103 0.0 38.4 57.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.71 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. 0.02 min
 Lab File: VL038392.D
 Acq: 22 Feb 2022 17:01

Tgt Ion: 95 Resp: 1596862
 Ion Ratio Lower Upper
 95 100
 174 62.7 49.0 73.4
 175 4.6 3.6 5.4

