

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122921\
 Data File : VL038240.D
 Acq On : 29 Dec 2021 19:58
 Operator : SY/AP
 Sample : M5217-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 29 20:29:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Dec 21 17:47:08 2021
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	685938	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1882839	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1664570	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1340755	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	28402	0.220	ppbv 94
3) Chlorodifluoromethane	2.98	51	75283	0.522	ppbv # 74
4) Chloromethane	3.15	50	12820	0.257	ppbv # 82
9) Propene	3.02	41	731204	14.610	ppbv 93
10) Heptane	8.12	43	468587	3.691	ppbv 98
11) Trichlorofluoromethane	3.96	101	41562	0.350	ppbv 92
13) Ethanol	3.61	45	1519415	179.069	ppbv # 100
15) Acetone	3.85	43	3157393	45.865	ppbv # 86
16) 1,3-Butadiene	3.32	39	905249	19.303	ppbv # 24
17) tert-Butyl alcohol	4.30	59	412144	5.451	ppbv 99
19) Isopropyl Alcohol	3.98	45	301900	7.031	ppbv # 1
20) Methylene Chloride	4.35	84	513628	13.215	ppbv 94
21) Allyl Chloride	4.38	41	5360	0.092	ppbv # 1
23) Vinyl Acetate	5.11	43	160494	1.722	ppbv # 44
25) Ethyl Acetate	5.69	43	530776	2.846	ppbv # 89
26) Hexane	5.69	57	476534	5.092	ppbv # 56
27) Carbon Disulfide	4.56	76	34747	0.422	ppbv # 83
28) Methyl tert-Butyl Ether	5.04	73	5113	0.054	ppbv # 52
29) Chloroform	5.76	83	1219612	8.783	ppbv 97
30) Cyclohexane	7.13	84	70316	0.848	ppbv # 48
34) 2-Butanone	5.24	43	4112573	72.671	ppbv 100
35) Carbon Tetrachloride	7.02	117	18581	0.160	ppbv 95
36) Benzene	6.90	78	394757	2.248	ppbv 98
38) Trichloroethene	7.84	130	136366	2.040	ppbv 97
39) 1,2-Dichloropropane	7.18	63	469168	6.941	ppbv # 30
41) Tetrahydrofuran	6.05	42	603417	14.557	ppbv 98
42) Bromodichloromethane	7.79	83	27005	0.215	ppbv # 38
43) Methyl Methacrylate	8.01	69	3535	0.058	ppbv # 1
44) 2,2,4-Trimethylpentane	7.87	57	1714267	5.746	ppbv 91
50) 4-Methyl-2-Pentanone	8.74	43	148880	1.447	ppbv 100
51) 2-Hexanone	10.13	43	980275	19.905	ppbv # 98
52) Tetrachloroethene	11.23	164	127071	1.960	ppbv 92
53) Toluene	9.81	91	2779563	13.716	ppbv 99
58) Ethyl Benzene	12.71	91	914354	3.540	ppbv 99
59) m/p-Xylene	12.97	91	2374898	10.754	ppbv 98
60) o-Xylene	13.69	91	823871	4.024	ppbv 97
61) Styrene	13.52	104	26772	0.258	ppbv # 58
62) Isopropylbenzene	14.66	105	112258	0.391	ppbv 98
64) n-propylbenzene	15.56	120	79581	1.114	ppbv 77
65) tert-Butylbenzene	16.76	119	94809	0.375	ppbv # 61
66) Benzyl Chloride	17.00	91	578	0.061	ppbv # 62

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 ClientSampleId :

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec 21 17:47:08 2021
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

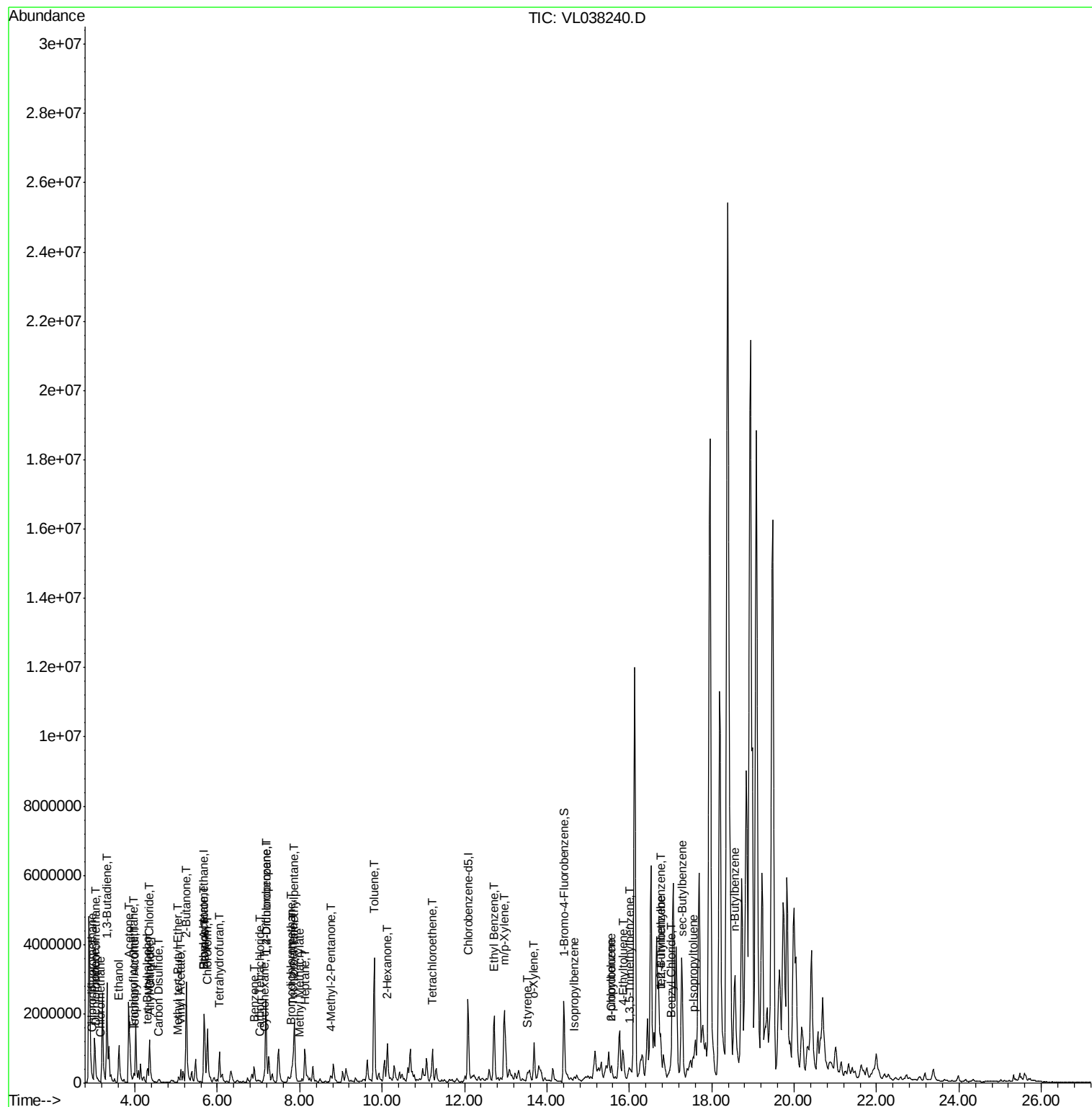
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) sec-Butylbenzene	17.30	105	49176	0.141	ppbv	99
69) p-Isopropyltoluene	17.54	119	46153	0.165	ppbv	98
70) n-Butylbenzene	18.56	91	26308	0.099	ppbv #	71
71) 2-Chlorotoluene	15.56	91	406673	1.901	ppbv #	43
72) 4-Ethyltoluene	15.84	105	442677	1.878	ppbv	96
73) 1,3,5-Trimethylbenzene	16.00	105	236324	1.120	ppbv	96
74) 1,2,4-Trimethylbenzene	16.76	105	885322	3.995	ppbv #	74

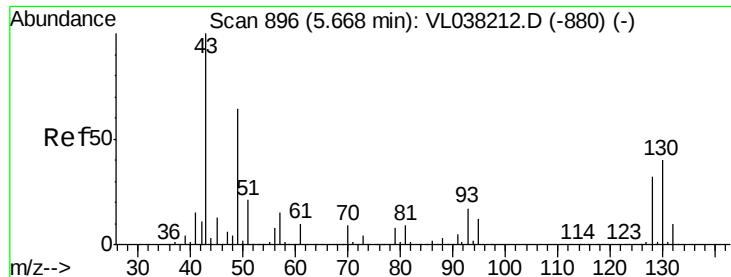
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Dec 2021 19:58

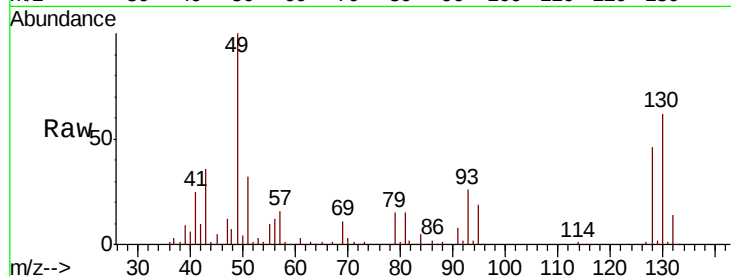
Tot Ion: 49 Resp: 685938

Ion Ratio Lower Upper

49 100

128 49.6 26.9 80.6

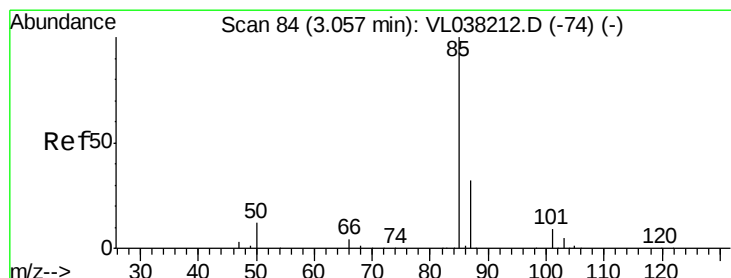
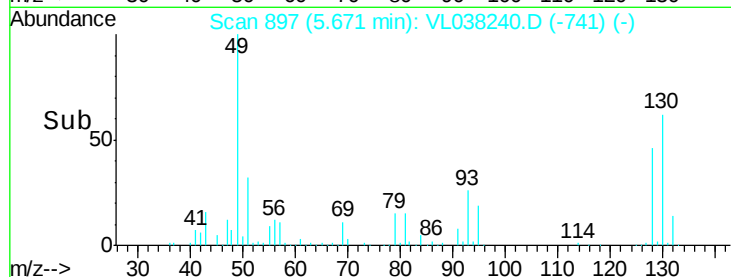
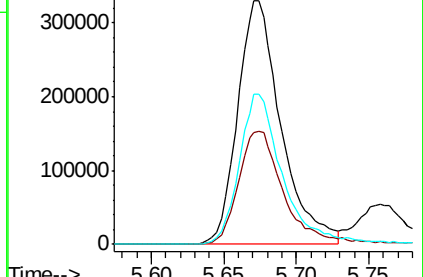
130 62.1 32.3 96.9



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: 0.220 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.00 min

Lab File: VL038240.D

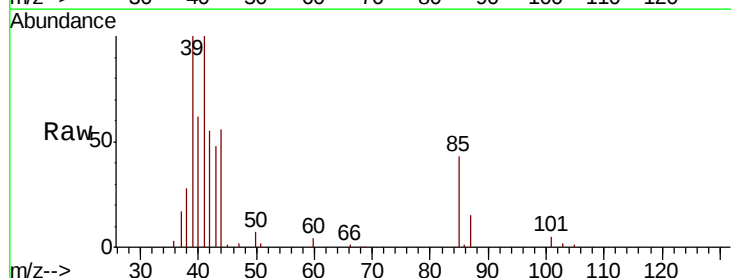
Acq: 29 Dec 2021 19:58

Tgt Ion: 85 Resp: 28402

Ion Ratio Lower Upper

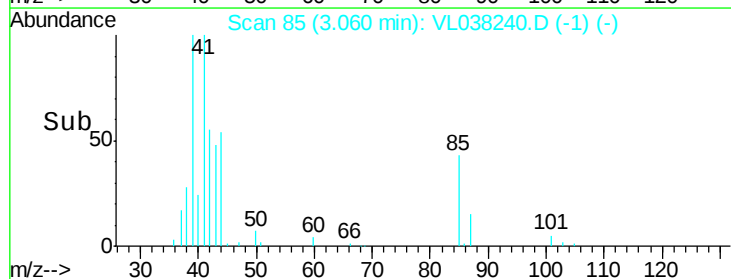
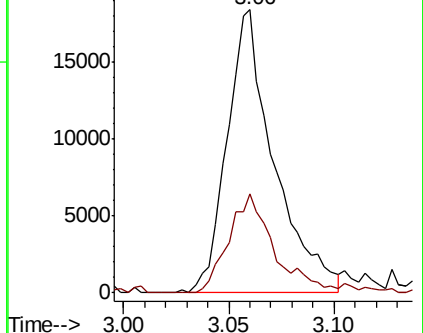
85 100

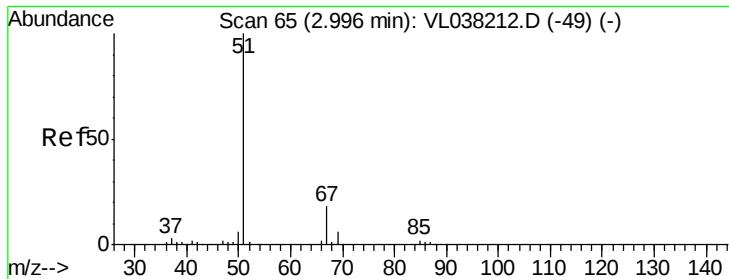
87 35.0 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.522 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

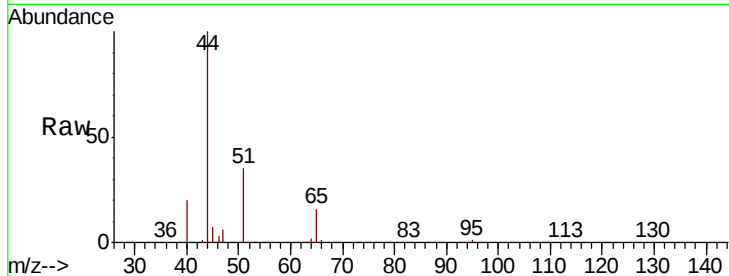
Acq: 29 Dec 2021 19:58

Tot Ion: 51 Resp: 75283

Ion Ratio Lower Upper

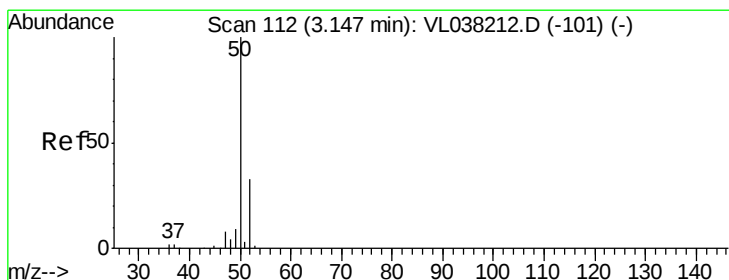
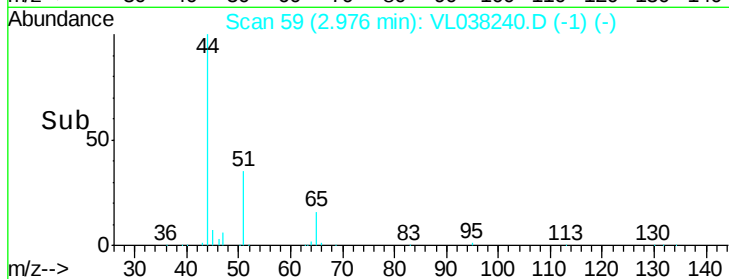
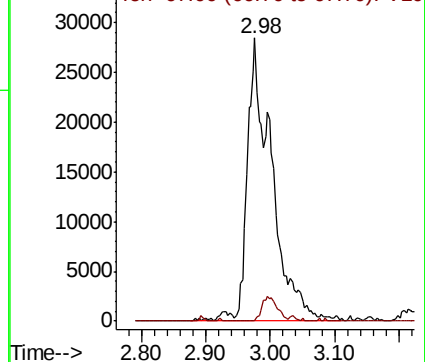
51 100

67 5.9 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.257 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL038240.D

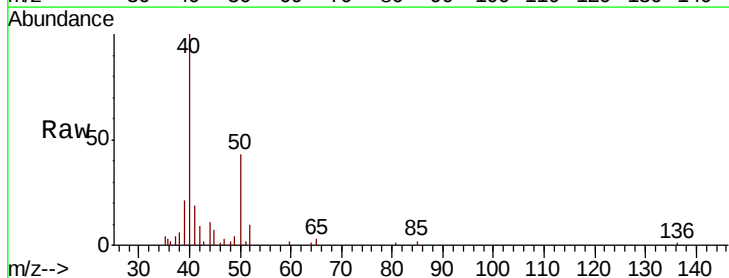
Acq: 29 Dec 2021 19:58

Tgt Ion: 50 Resp: 12820

Ion Ratio Lower Upper

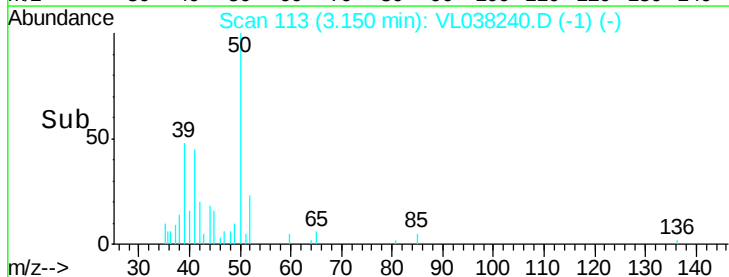
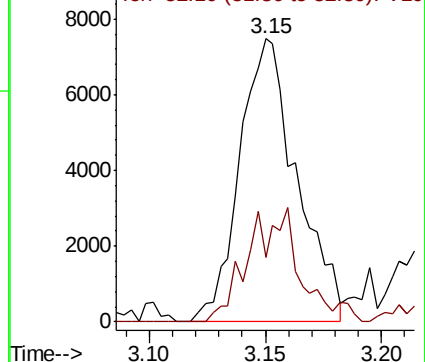
50 100

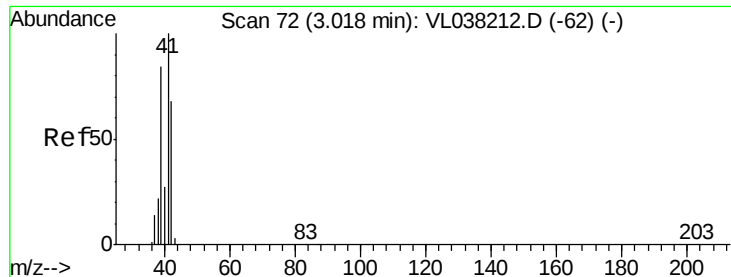
52 22.7 26.2 39.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 14.610 ppbv

RT: 3.02 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

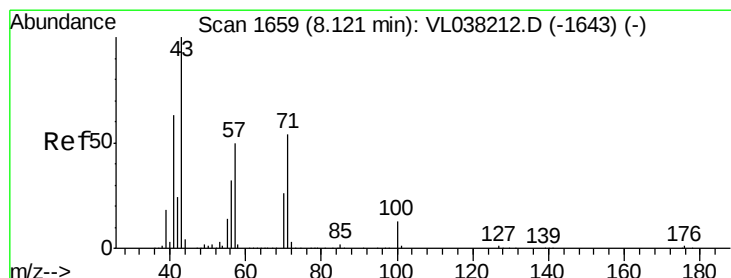
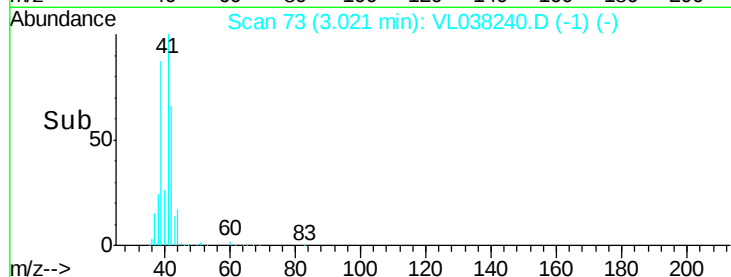
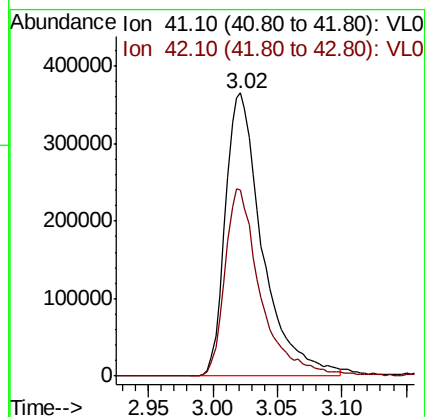
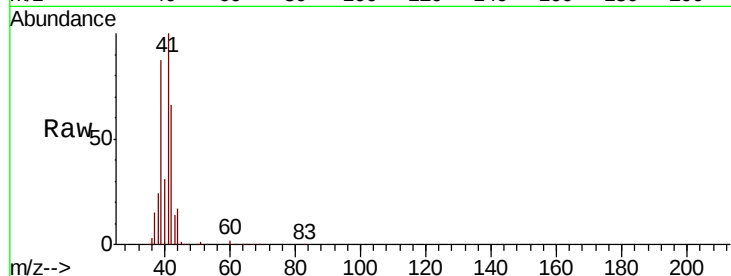
Acq: 29 Dec 2021 19:58

Tot Ion: 41 Resp: 731204

Ion Ratio Lower Upper

41 100

42 63.9 55.5 83.3



#10

Heptane

Concen: 3.691 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VL038240.D

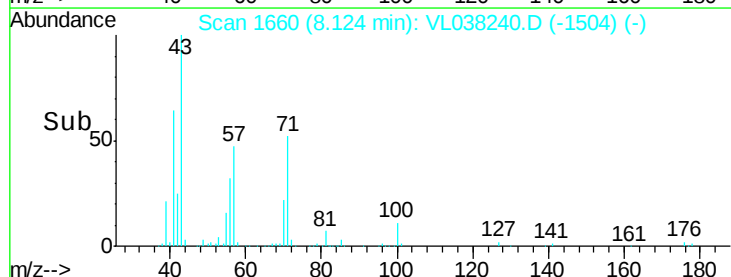
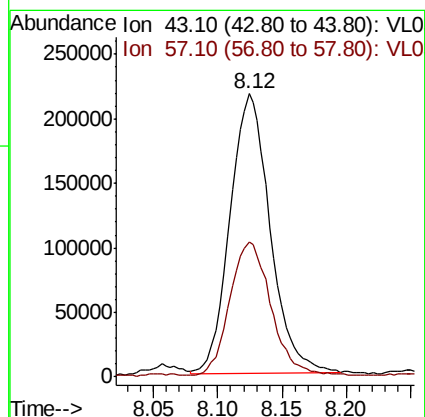
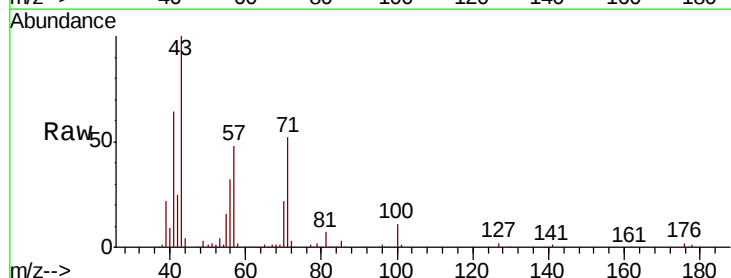
Acq: 29 Dec 2021 19:58

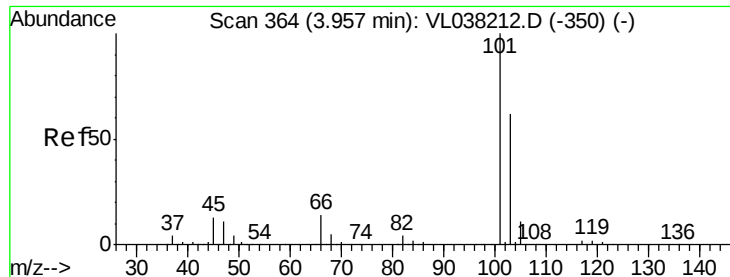
Tgt Ion: 43 Resp: 468587

Ion Ratio Lower Upper

43 100

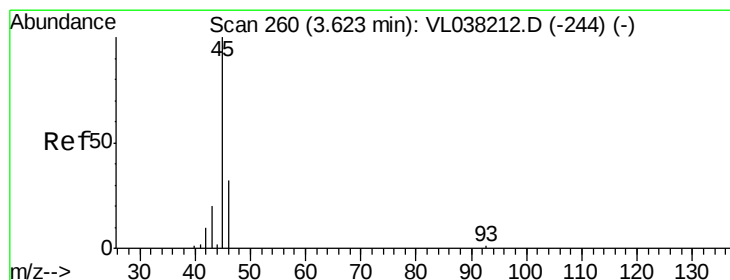
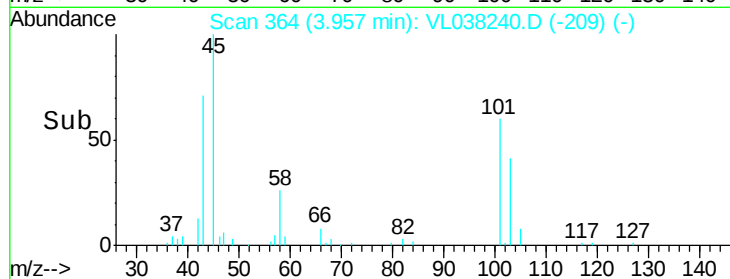
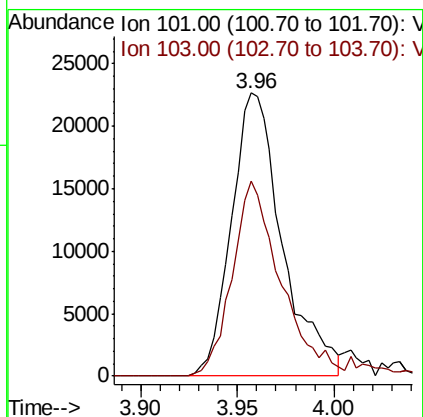
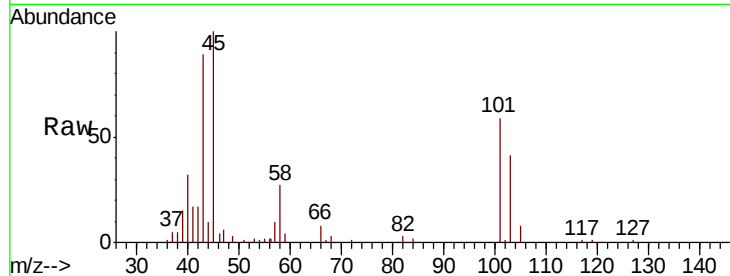
57 48.9 40.3 60.5





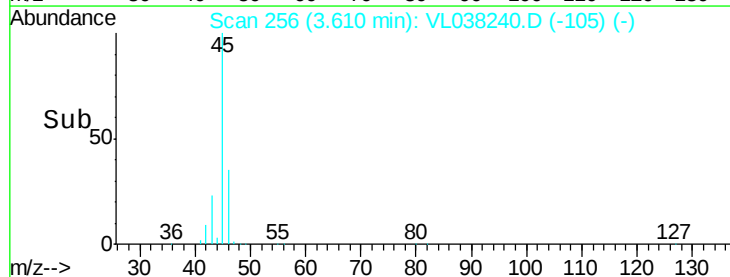
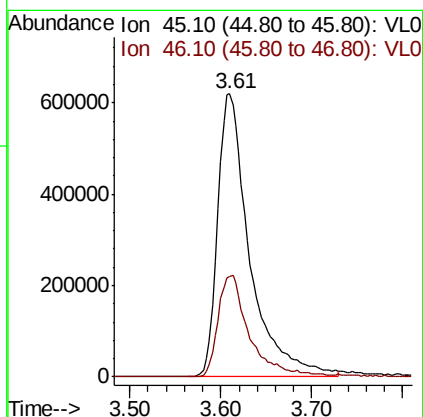
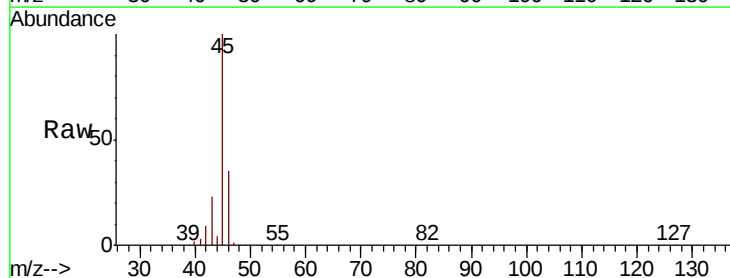
#11
 Trichlorofluoromethane
 Concen: 0.350 ppbv
 RT: 3.96
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Dec 2021 19:58

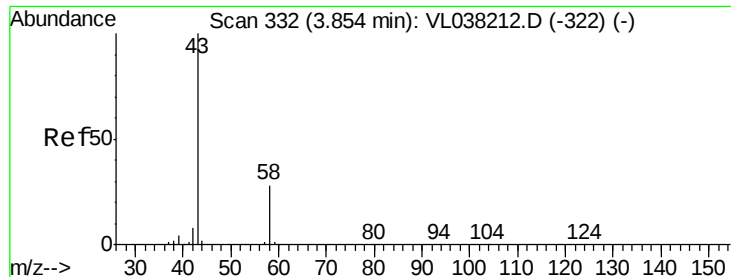
Tot Ion: 101 Resp: 41562
 Ion Ratio Lower Upper
 101 100
 103 68.8 49.9 74.9



#13
 Ethanol
 Concen: 179.069 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. -0.01 min
 Lab File: VL038240.D
 Acq: 29 Dec 2021 19:58

Tgt Ion: 45 Resp: 1519415
 Ion Ratio Lower Upper
 45 100
 46 35.8 0.0 0.0#





#15

Acetone

Concen: 45.865 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

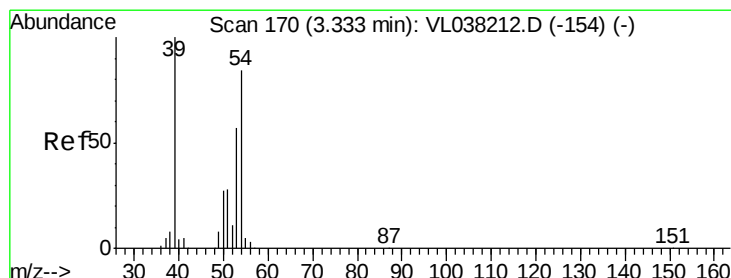
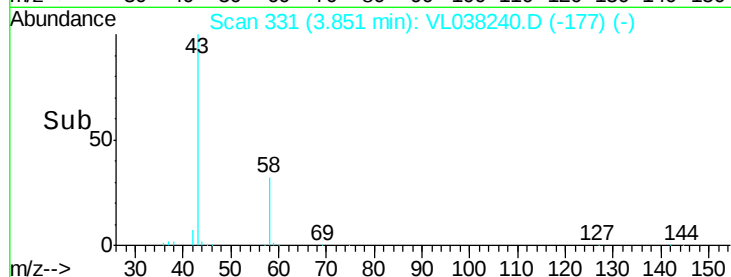
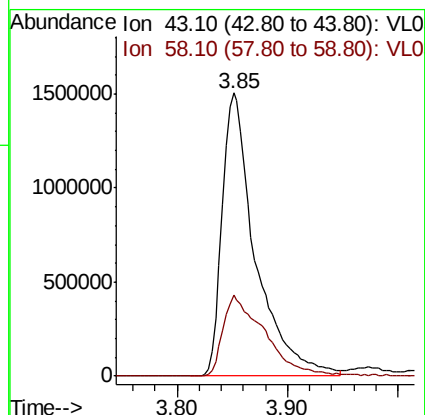
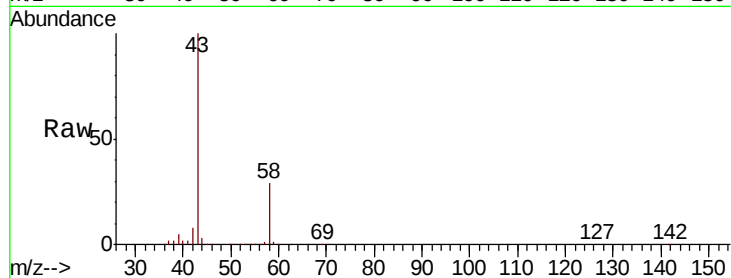
Acq: 29 Dec 2021 19:58

Tot Ion: 43 Resp: 3157393

Ion Ratio Lower Upper

43 100

58 36.4 23.3 34.9#



#16

1,3-Butadiene

Concen: 19.303 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.01 min

Lab File: VL038240.D

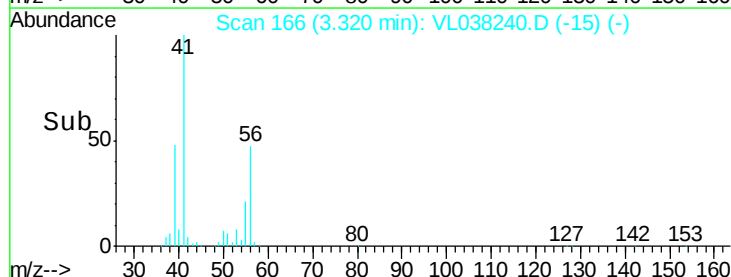
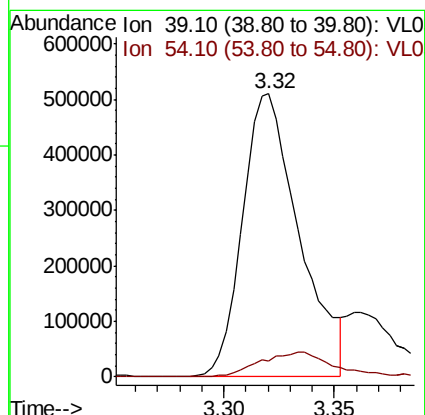
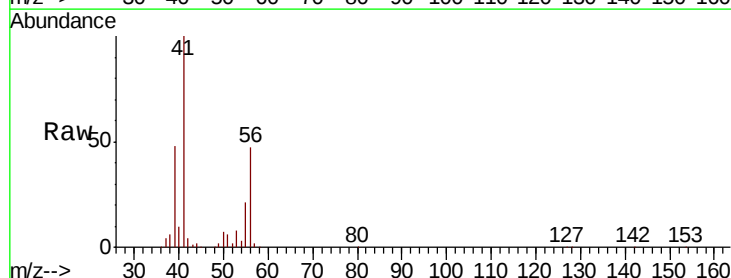
Acq: 29 Dec 2021 19:58

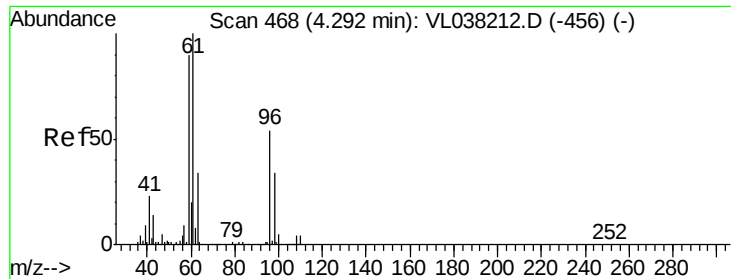
Tgt Ion: 39 Resp: 905249

Ion Ratio Lower Upper

39 100

54 11.8 62.9 94.3#





#17

tert-Butyl alcohol

Concen: 5.451 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

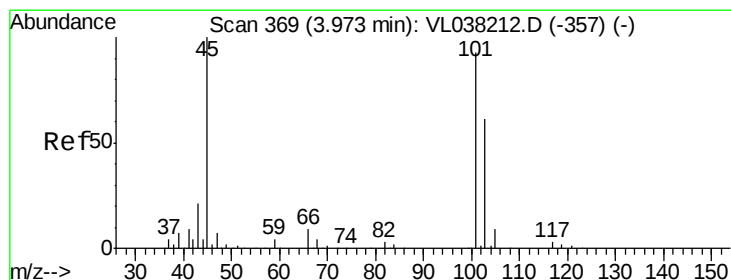
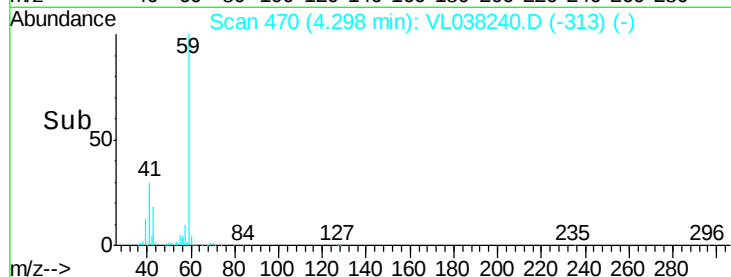
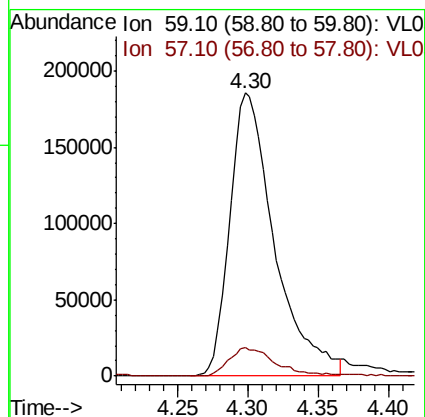
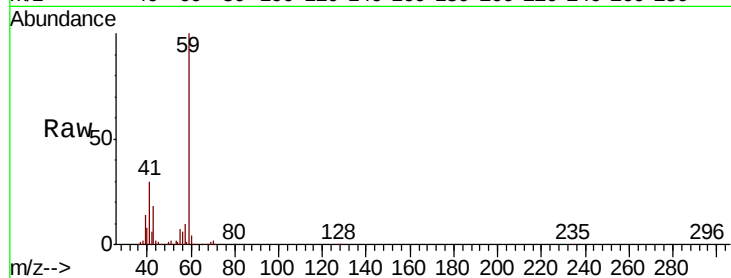
Acq: 29 Dec 2021 19:58

Tot Ion: 59 Resp: 412144

Ion Ratio Lower Upper

59 100

57 11.2 8.7 13.1



#19

Isopropyl Alcohol

Concen: 7.031 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.00 min

Lab File: VL038240.D

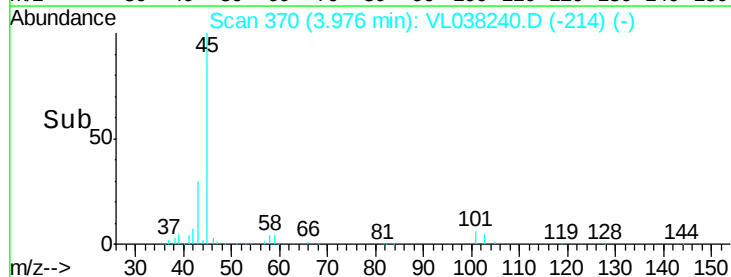
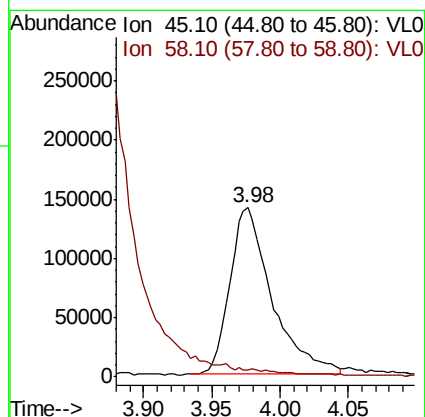
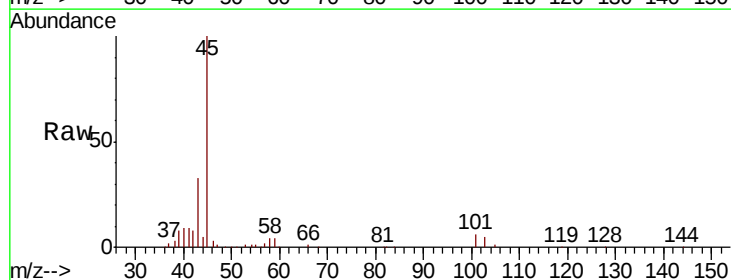
Acq: 29 Dec 2021 19:58

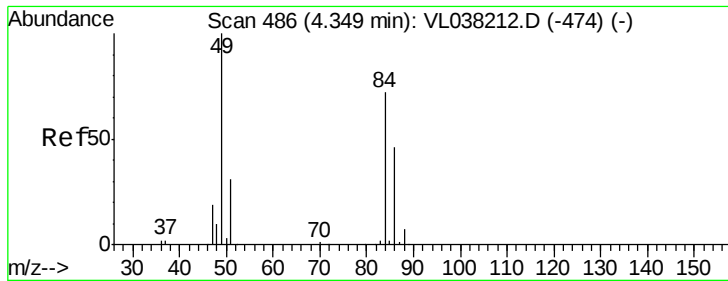
Tgt Ion: 45 Resp: 301900

Ion Ratio Lower Upper

45 100

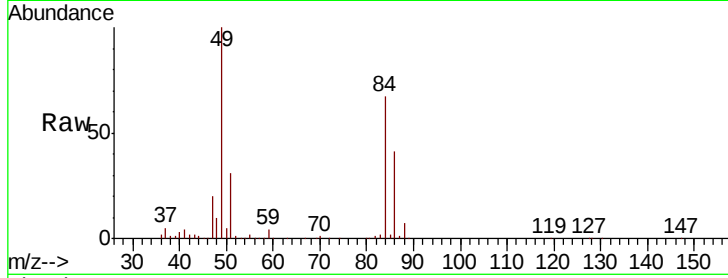
58 381.3 32.4 48.6#





#20
Methylene Chloride
Concen: 13.215 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 29 Dec 2021 19:58

Tot Ion	Ratio	Lower	Upper
84	100		
49	148.9	110.6	166.0
51	44.9	34.2	51.2
86	61.3	50.5	75.7



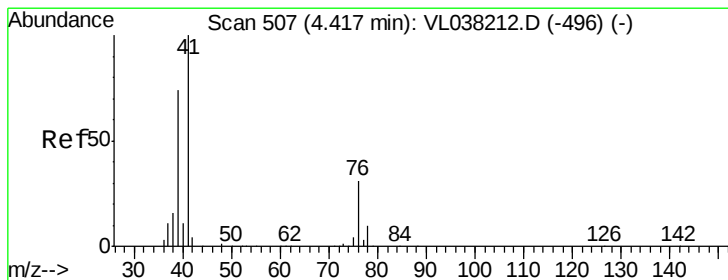
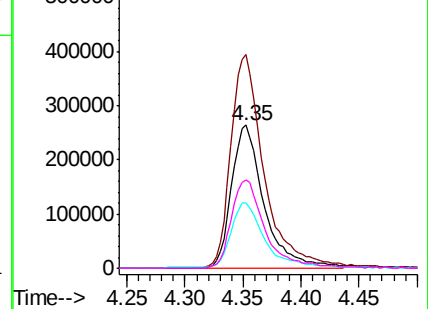
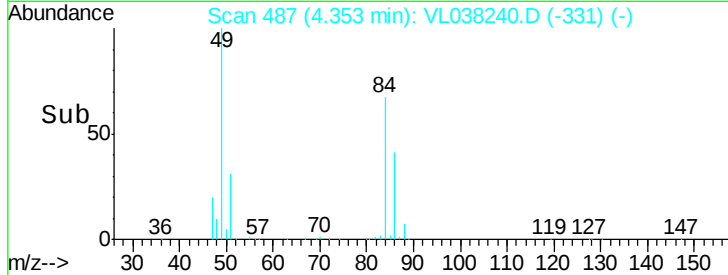
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

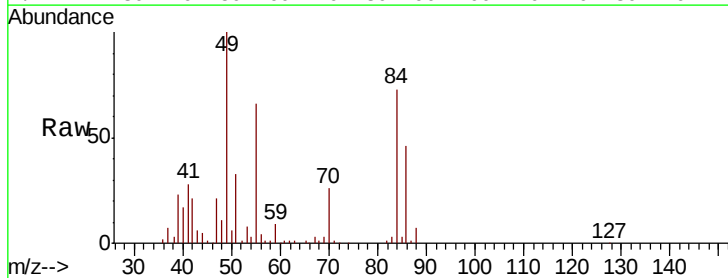
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.092 ppbv
RT: 4.38 min Scan# 495
Delta R.T. -0.04 min
Lab File: VL038240.D
Acq: 29 Dec 2021 19:58

Tgt Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.2	37.8#
39	1006.6	66.1	99.1#

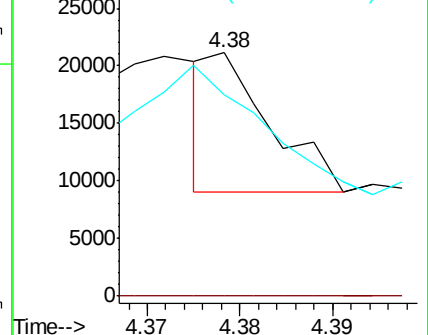
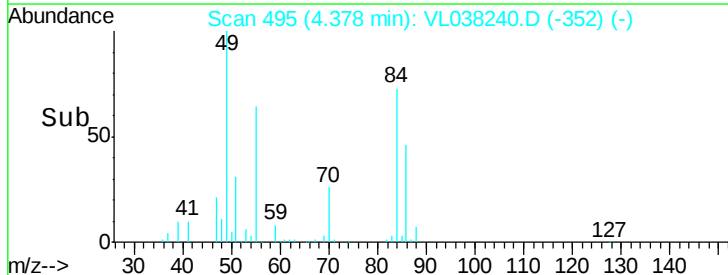


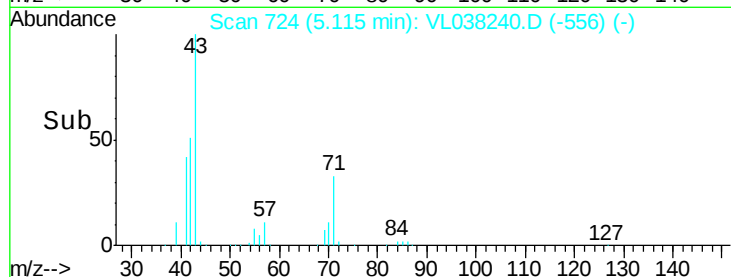
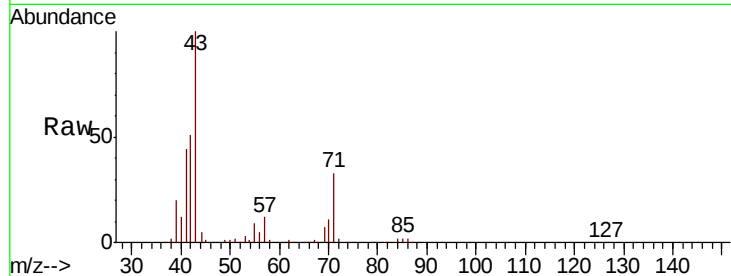
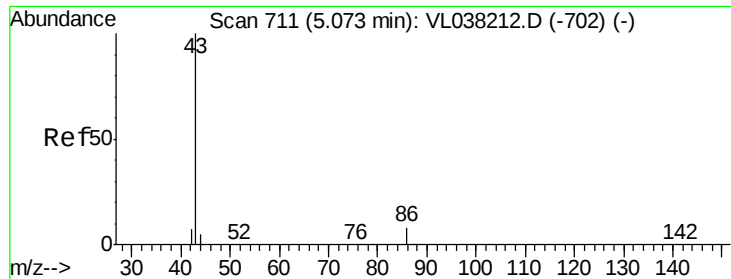
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

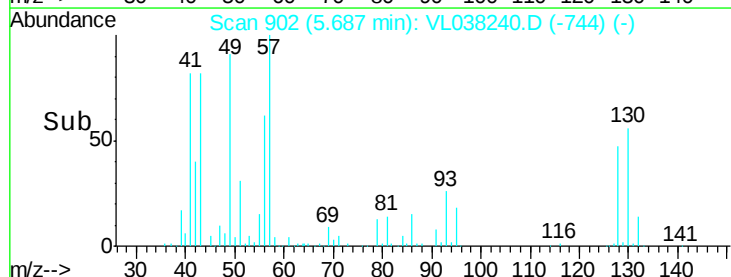
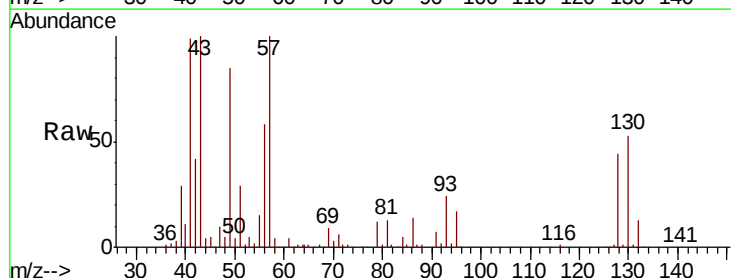
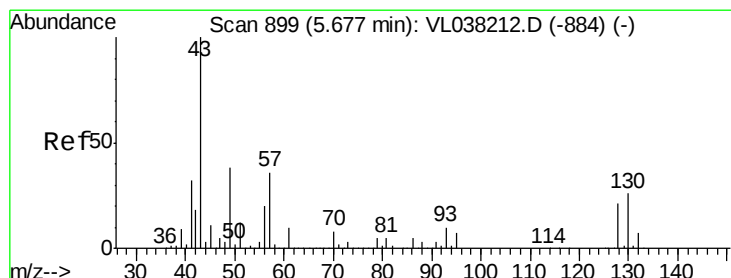
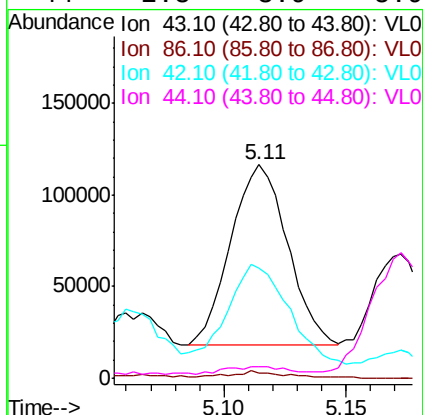
Ion 39.10 (38.80 to 39.80): VL0





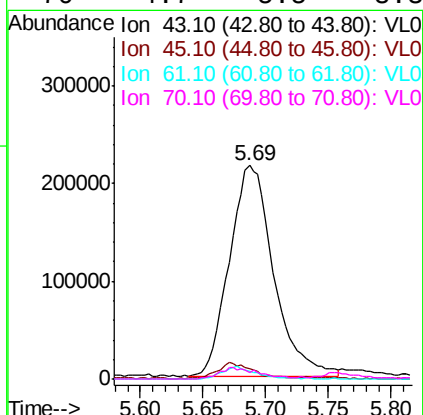
#23
 Vinyl Acetate
 Concen: 1.722 ppbv
 RT: 5.11 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Dec 2021 19:58

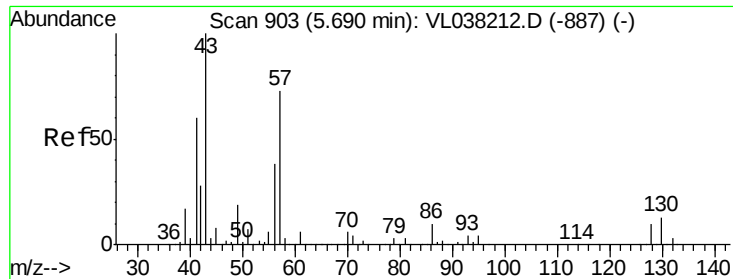
Tot Ion:	43	Resp:	160494
Ion	Ratio	Lower	Upper
43	100		
86	2.2	5.6	8.4#
42	51.0	7.0	10.4#
44	2.8	3.9	5.9#



#25
 Ethyl Acetate
 Concen: 2.846 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: VL038240.D
 Acq: 29 Dec 2021 19:58

Tgt Ion:	43	Resp:	530776
Ion	Ratio	Lower	Upper
43	100		
45	6.2	7.9	11.9#
61	4.5	8.1	12.1#
70	4.7	5.5	8.3#





#26

Hexane

Concen: 5.092 ppbv

RT: 5.69 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Dec 2021 19:58

Tot Ion: 57 Resp: 476534

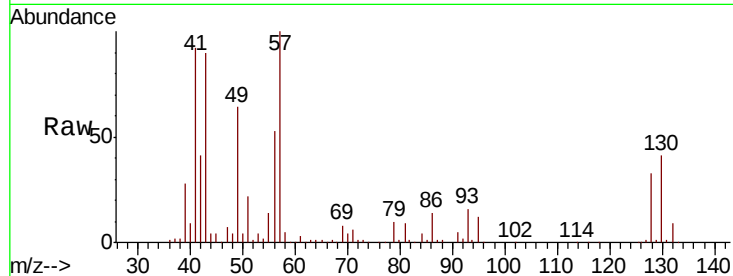
Ion Ratio Lower Upper

57 100

41 106.7 69.0 103.6#

43 116.6 171.2 256.8#

56 59.3 41.5 62.3

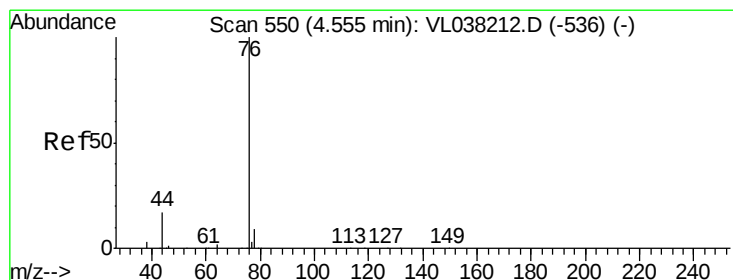
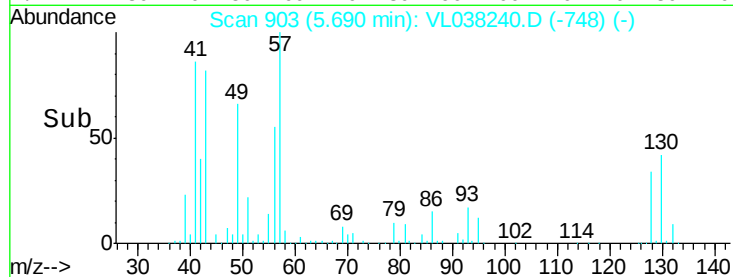
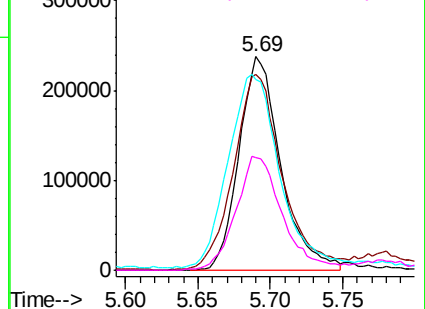


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.422 ppbv

RT: 4.56 min Scan# 550

Delta R.T. -0.00 min

Lab File: VL038240.D

Acq: 29 Dec 2021 19:58

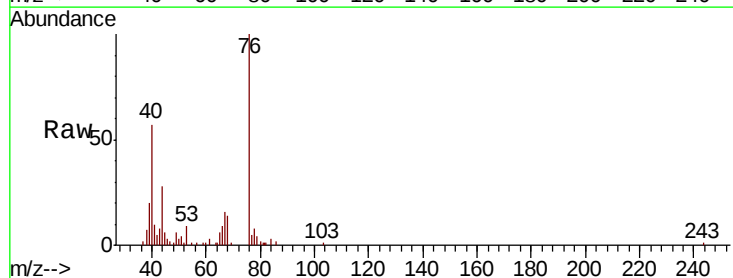
Tgt Ion: 76 Resp: 34747

Ion Ratio Lower Upper

76 100

44 28.6 14.2 21.4#

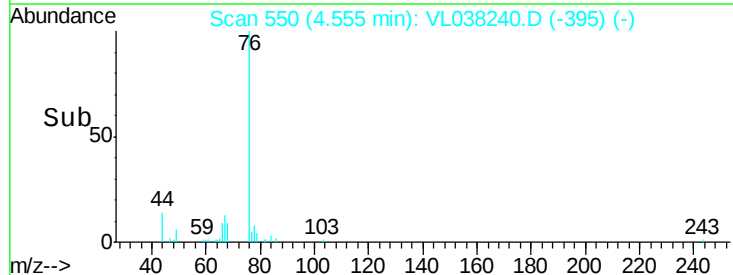
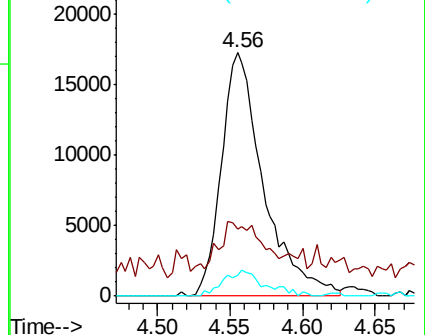
78 10.3 7.7 11.5

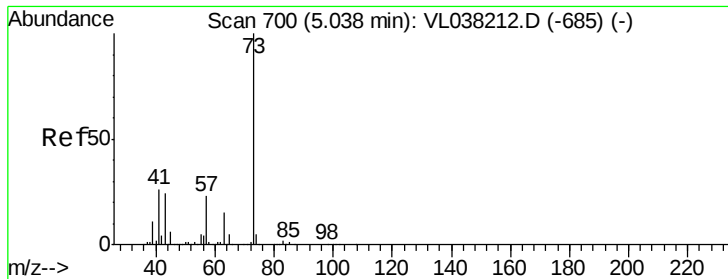


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#28

Methyl tert-Butyl Ether

Concen: 0.054 ppbv

RT: 5.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

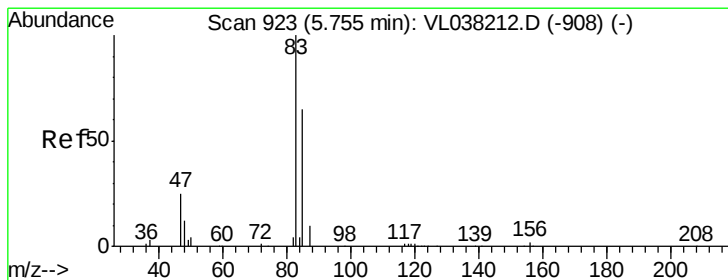
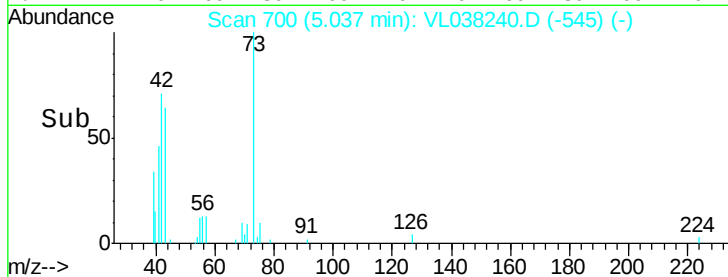
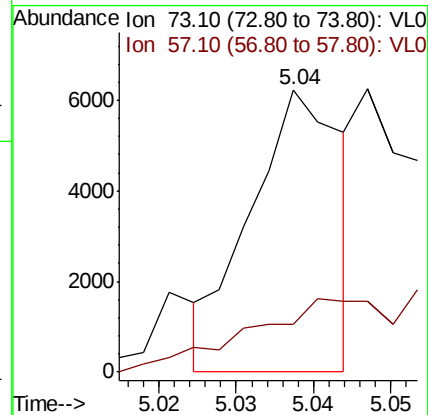
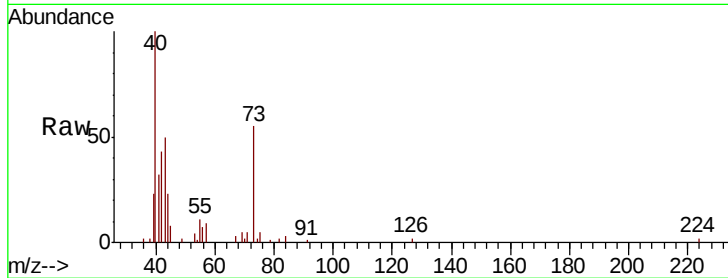
Acq: 29 Dec 2021 19:58

Tot Ion: 73 Resp: 5113

Ion Ratio Lower Upper

73 100

57 0.0 18.8 28.2#



#29

Chloroform

Concen: 8.783 ppbv

RT: 5.76 min Scan# 925

Delta R.T. 0.01 min

Lab File: VL038240.D

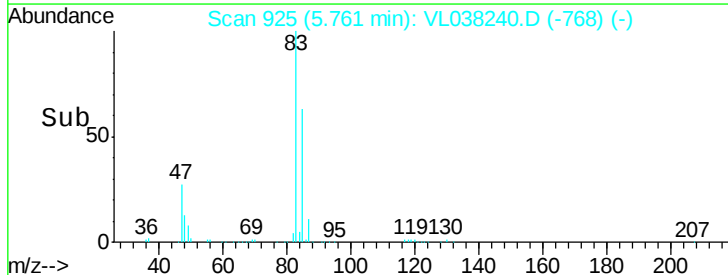
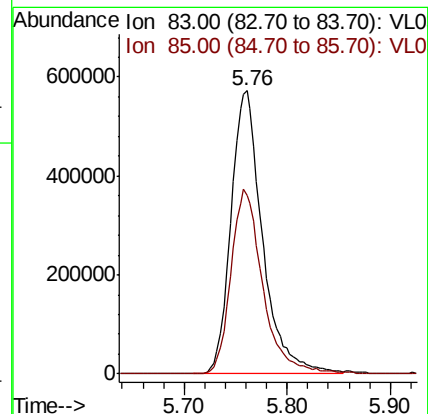
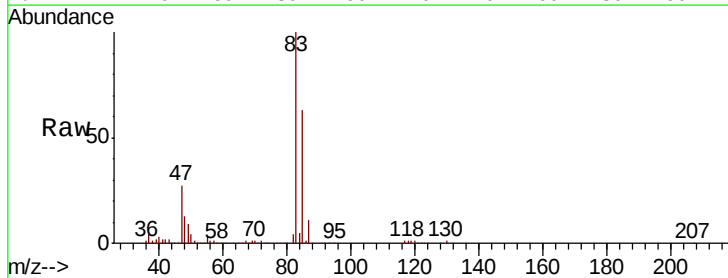
Acq: 29 Dec 2021 19:58

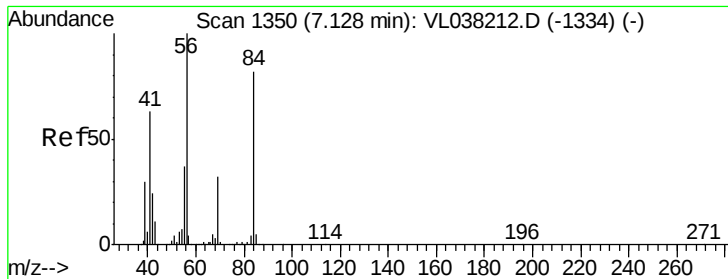
Tgt Ion: 83 Resp: 1219612

Ion Ratio Lower Upper

83 100

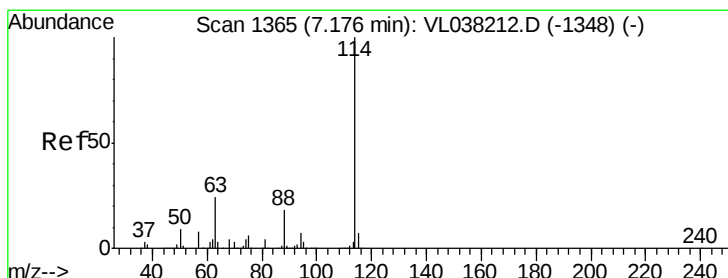
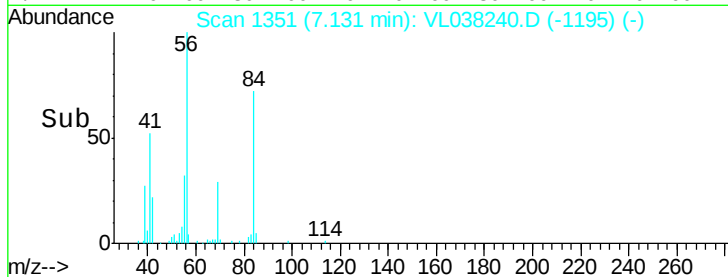
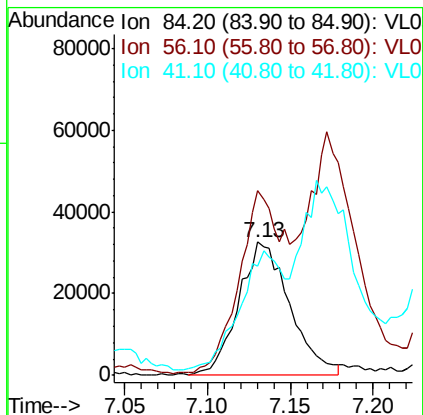
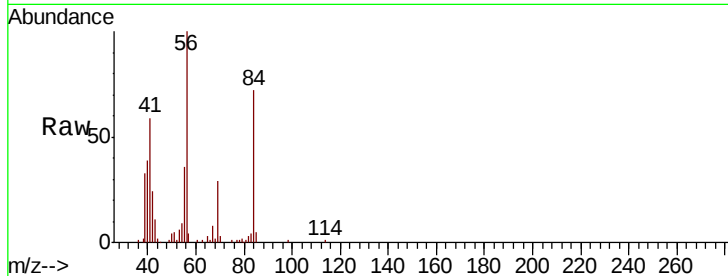
85 63.1 52.2 78.4





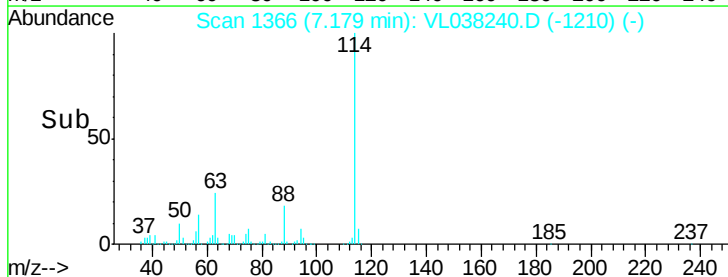
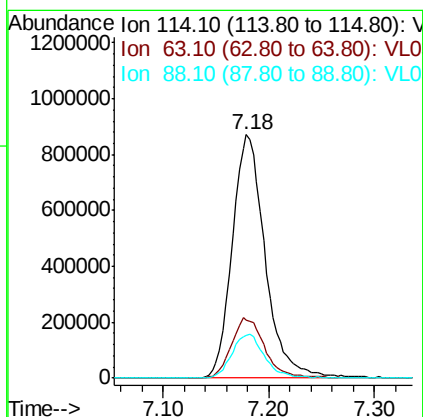
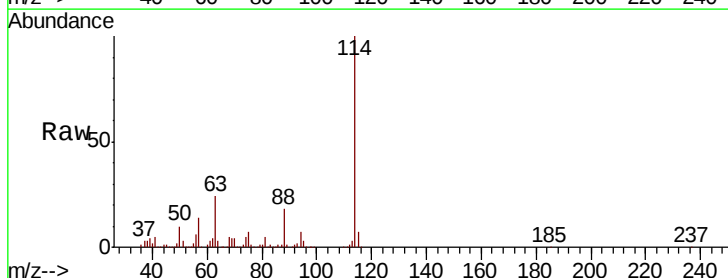
#30
Cvclohexane
Concen: 0.848 ppbv
RT: 7.13 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 29 Dec 2021 19:58

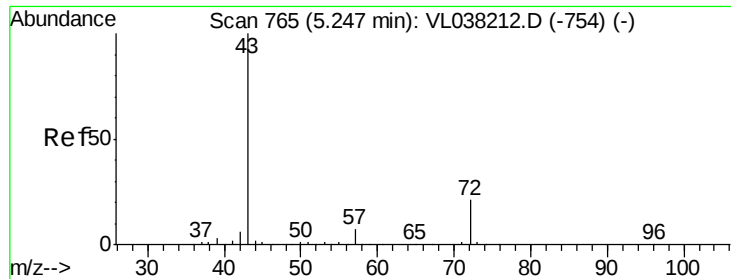
Tot Ion	84	Resp	70316
Ion Ratio	Lower	Upper	
84	100		
56	97.0	105.2	157.8#
41	0.0	63.2	94.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T.: 0.00 min
Lab File: VL038240.D
Acq: 29 Dec 2021 19:58

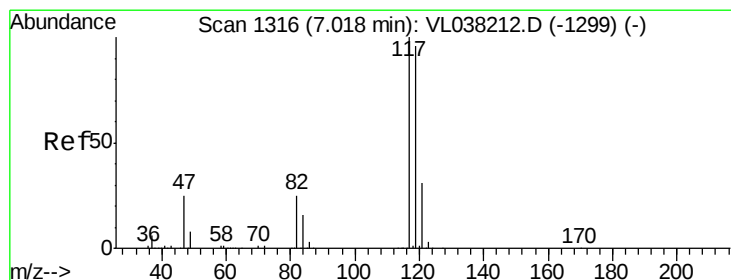
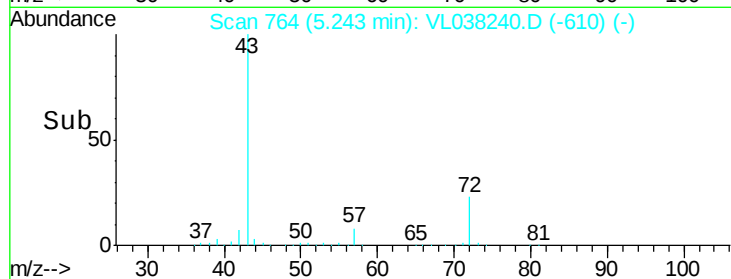
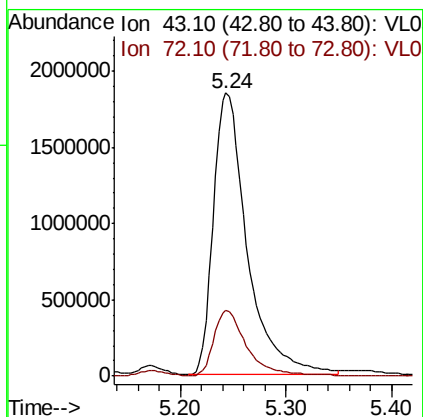
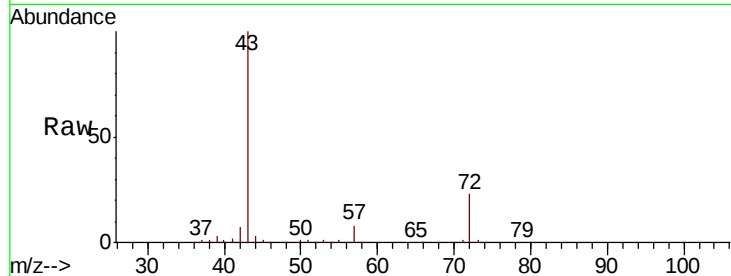
Tgt Ion	114	Resp	1882839
Ion Ratio	Lower	Upper	
114	100		
63	25.5	19.7	29.5
88	18.1	14.3	21.5





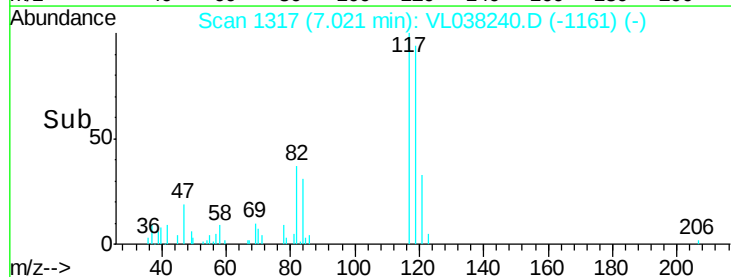
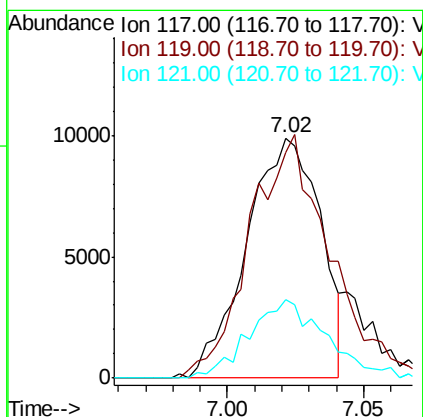
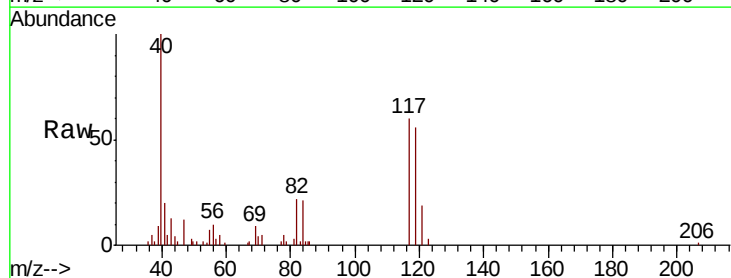
#34
2-Butanone
Concen: 72.671 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Dec 2021 19:58

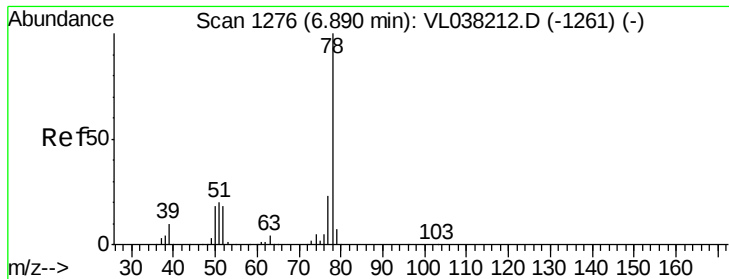
Tot Ion: 43 Resp: 4112573
Ion Ratio Lower Upper
43 100
72 23.1 18.3 27.5



#35
Carbon Tetrachloride
Concen: 0.160 ppbv
RT: 7.02 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VL038240.D
Acq: 29 Dec 2021 19:58

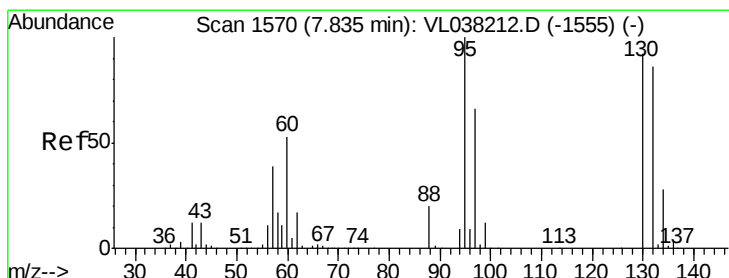
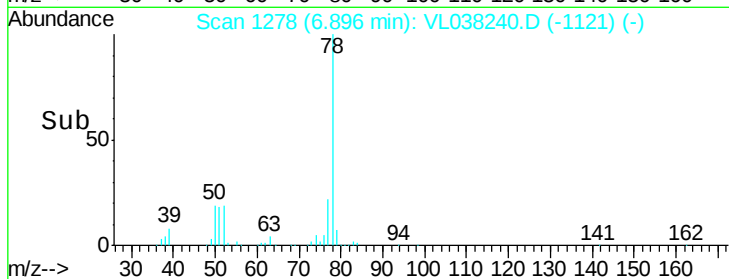
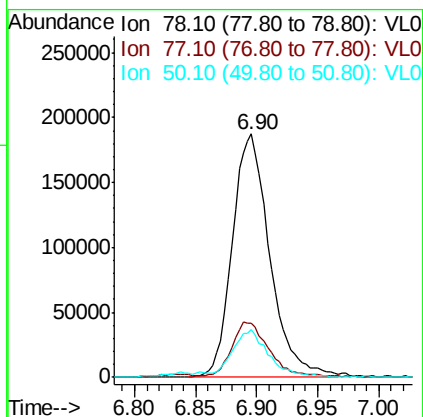
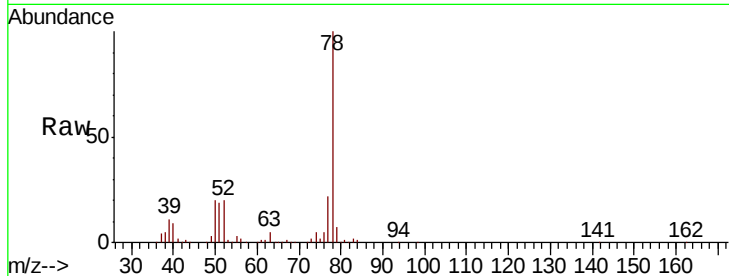
Tgt Ion: 117 Resp: 18581
Ion Ratio Lower Upper
117 100
119 90.7 76.7 115.1
121 32.6 25.0 37.4





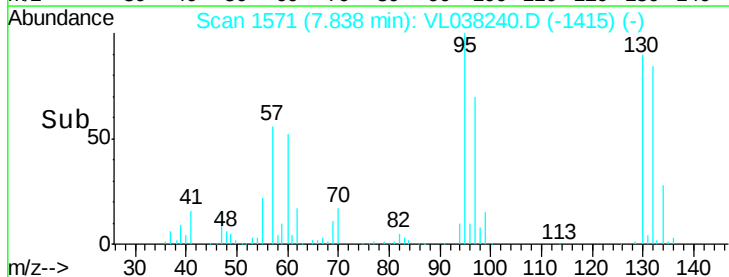
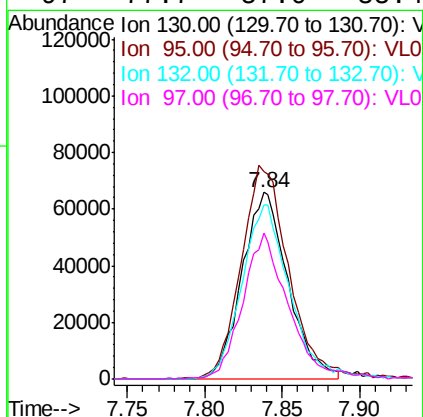
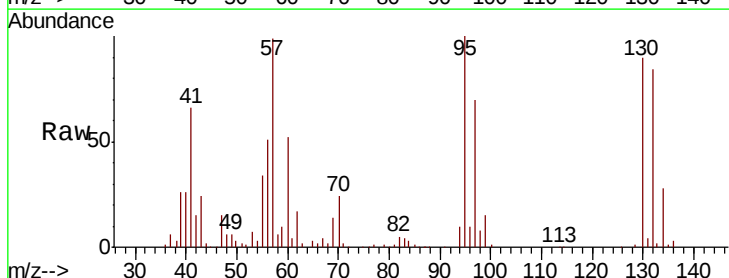
#36
Benzene
Concen: 2.248 ppbv
RT: 6.90
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 29 Dec 2021 19:58

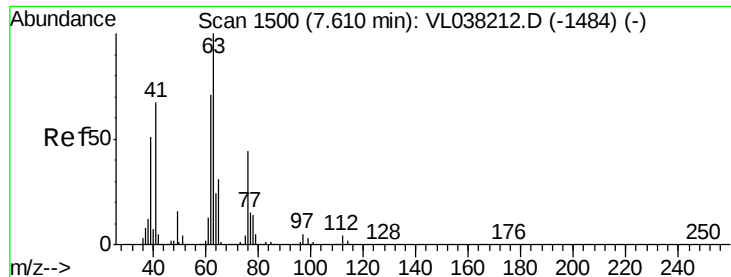
Tot Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.2	27.4
50	19.3	14.3	21.5



#38
Trichloroethene
Concen: 2.040 ppbv
RT: 7.84 min Scan# 1571
Delta R.T.: 0.00 min
Lab File: VL038240.D
Acq: 29 Dec 2021 19:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	111.0	87.0	130.4
132	93.1	75.1	112.7
97	77.7	57.0	85.4





#39

1,2-Dichloropropane

Concen: 6.941 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Dec 2021 19:58

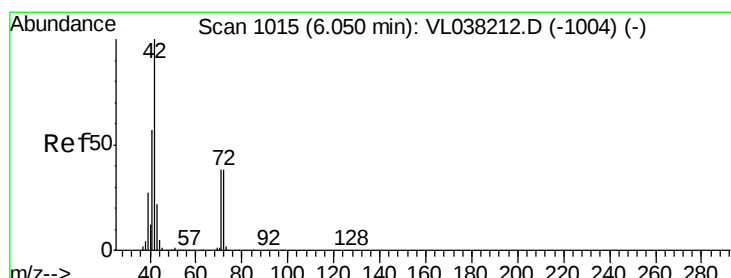
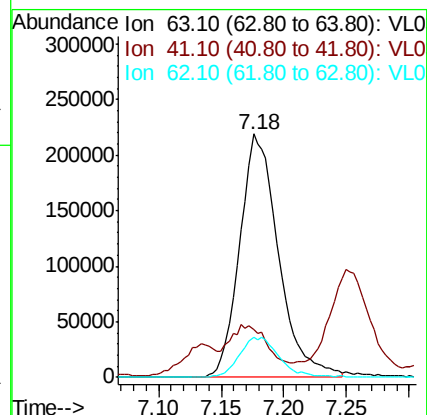
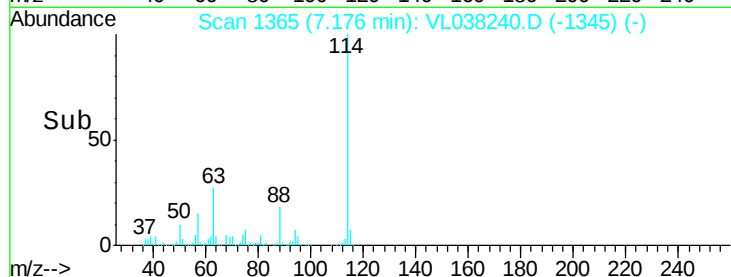
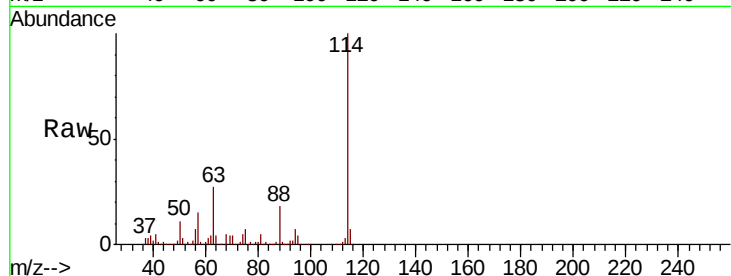
Tot Ion: 63 Resp: 469168

Ion Ratio Lower Upper

63 100

41 7.1 53.4 80.2#

62 16.7 56.5 84.7#



#41

Tetrahydrofuran

Concen: 14.557 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VL038240.D

Acq: 29 Dec 2021 19:58

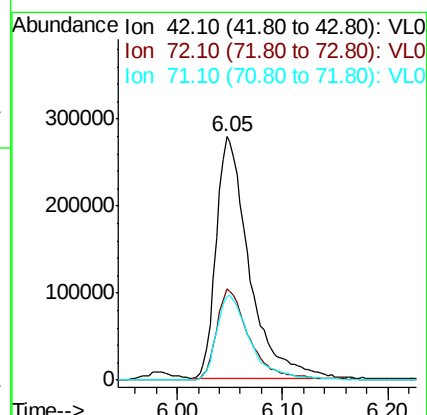
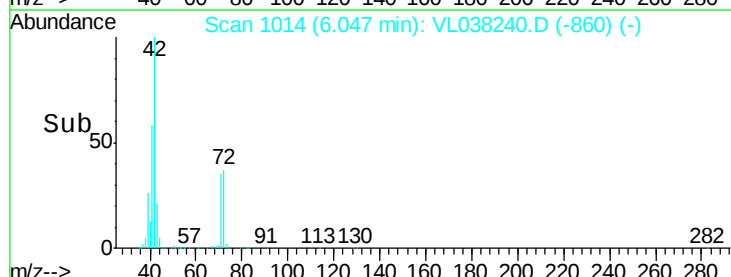
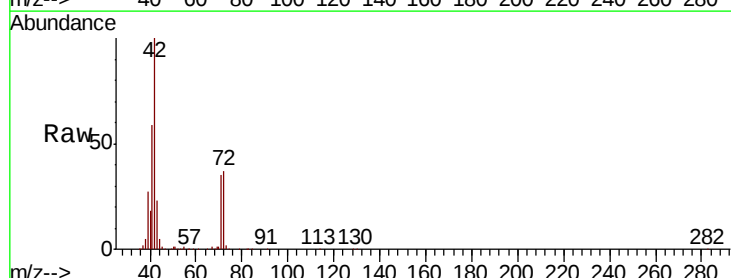
Tgt Ion: 42 Resp: 603417

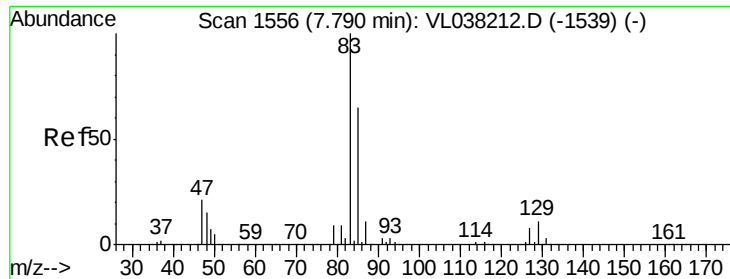
Ion Ratio Lower Upper

42 100

72 37.9 31.4 47.0

71 36.4 30.0 45.0





#42

Bromodichloromethane

Concen: 0.215 ppbv

RT: 7.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Dec 2021 19:58

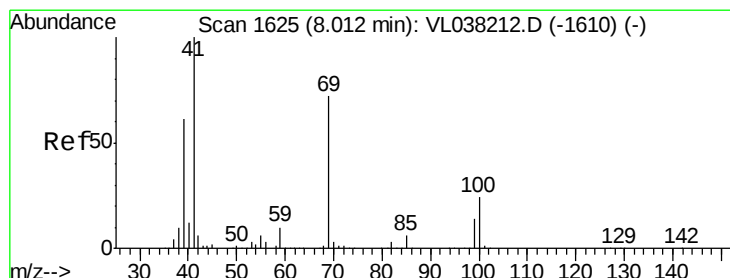
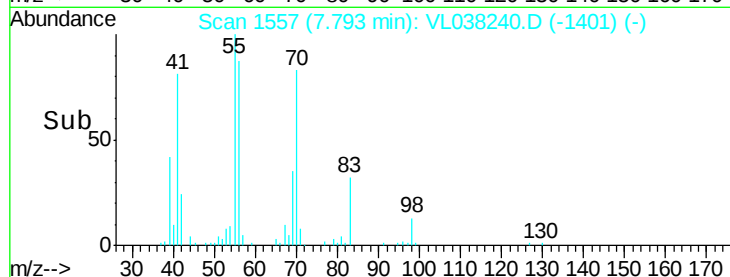
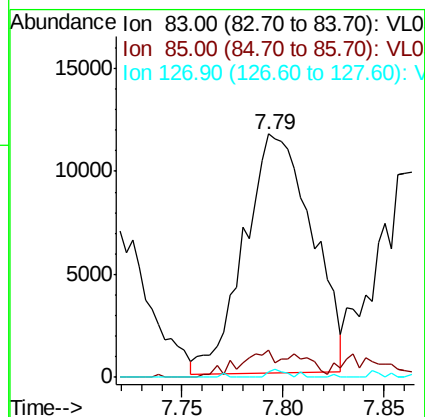
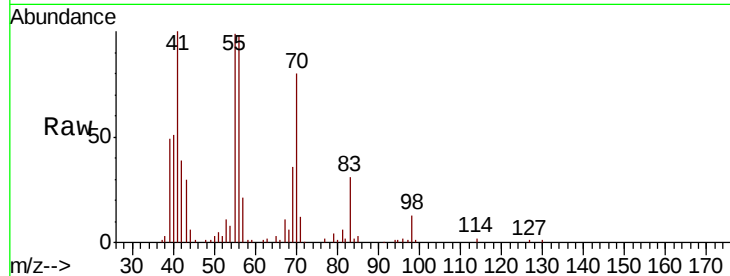
Tot Ion: 83 Resp: 27005

Ion Ratio Lower Upper

83 100

85 11.7 52.0 78.0#

127 2.6 6.1 9.1#



#43

Methyl Methacrylate

Concen: 0.058 ppbv

RT: 8.01 min Scan# 1625

Delta R.T. -0.00 min

Lab File: VL038240.D

Acq: 29 Dec 2021 19:58

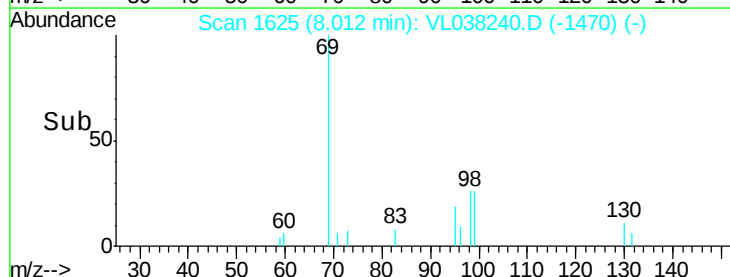
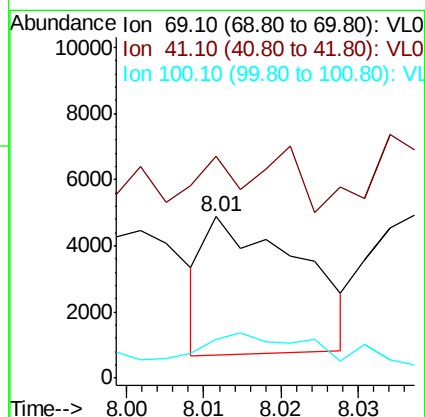
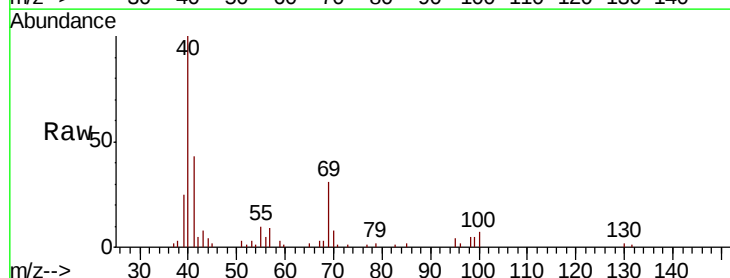
Tgt Ion: 69 Resp: 3535

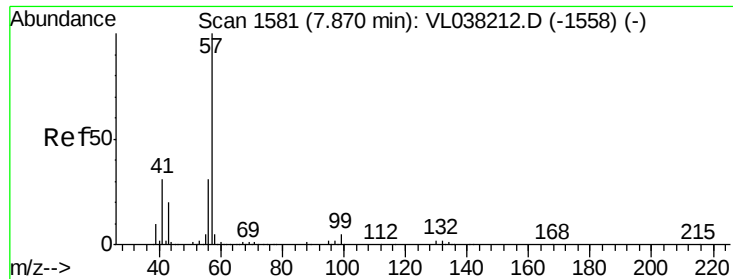
Ion Ratio Lower Upper

69 100

41 0.0 116.0 174.0#

100 71.2 26.6 39.8#

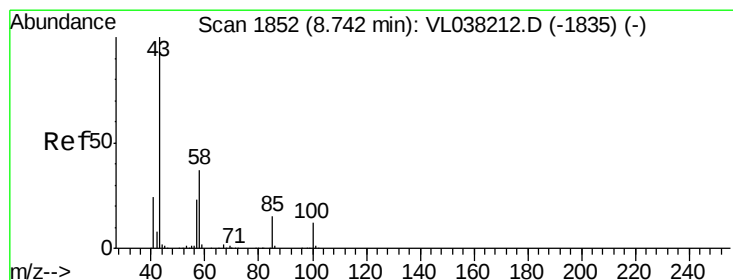
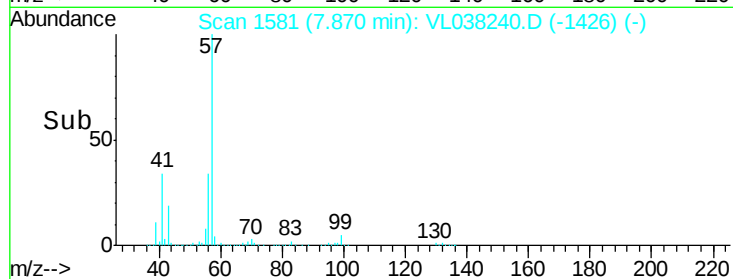
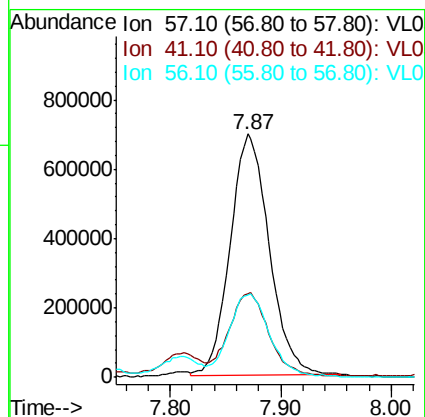
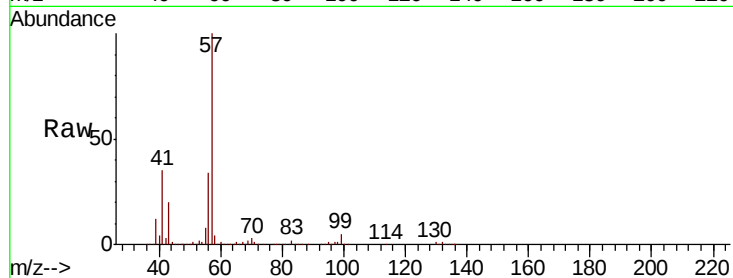




#44
 2,2,4-Trimethylpentane
 Concen: 5.746 ppbv
 RT: 7.87
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Dec 2021 19:58

Tot Ion: 57 Resp: 1714267

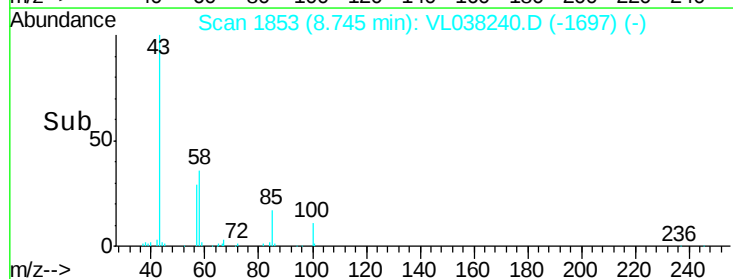
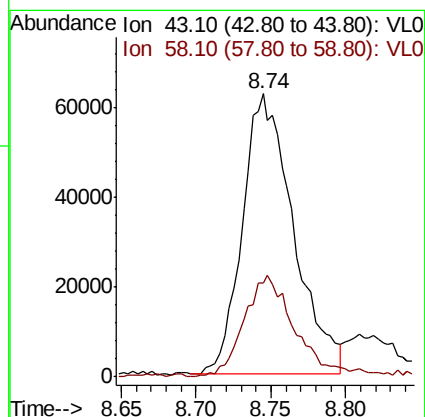
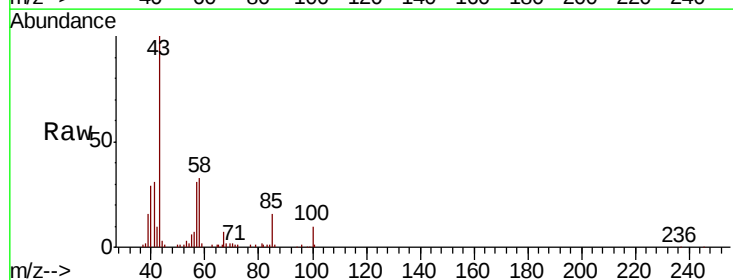
Ion	Ratio	Lower	Upper
57	100		
41	35.8	24.9	37.3
56	36.7	24.8	37.2

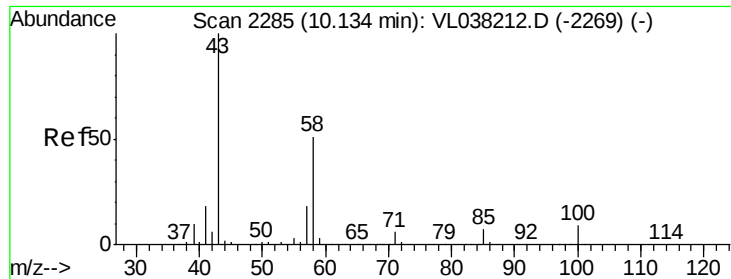


#50
 4-Methyl-2-Pentanone
 Concen: 1.447 ppbv
 RT: 8.74 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VL038240.D
 Acq: 29 Dec 2021 19:58

Tgt Ion: 43 Resp: 148880

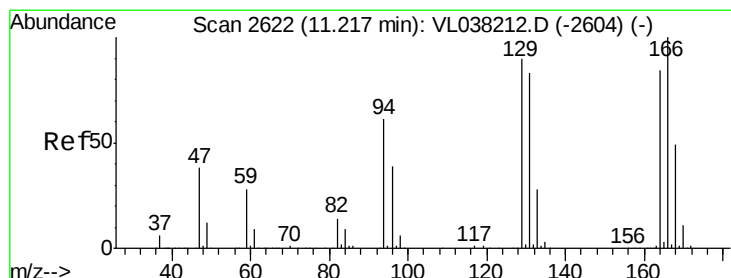
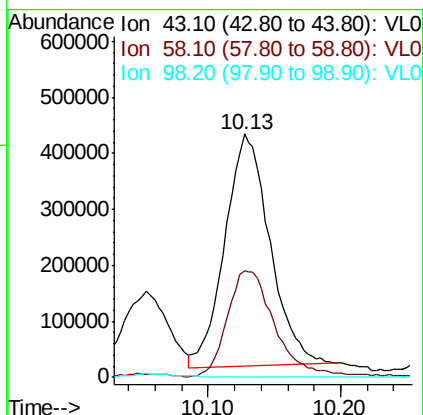
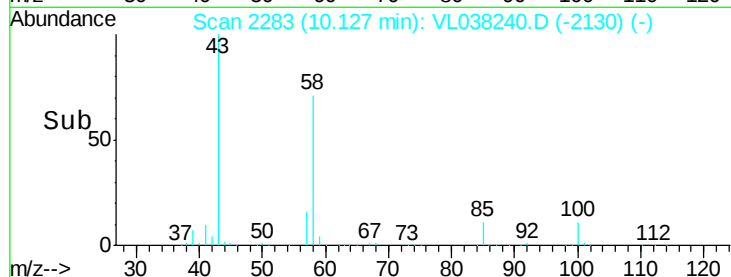
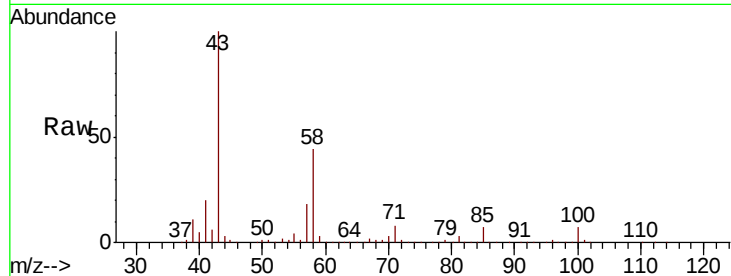
Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.4	44.2





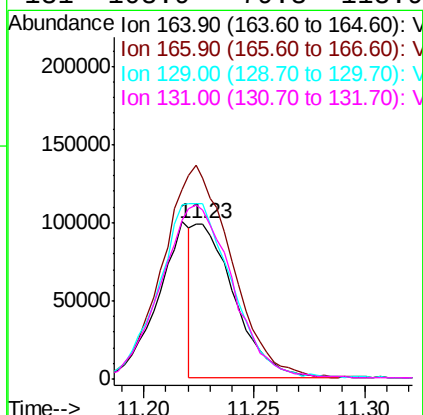
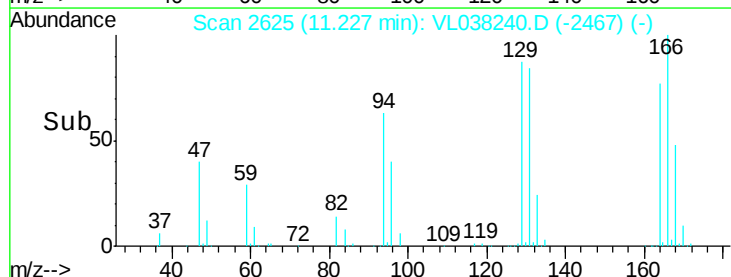
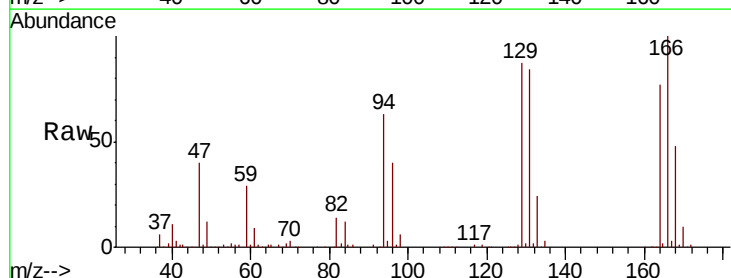
#51
2-Hexanone
Concen: 19.905 ppbv
RT: 10.13 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 29 Dec 2021 19:58

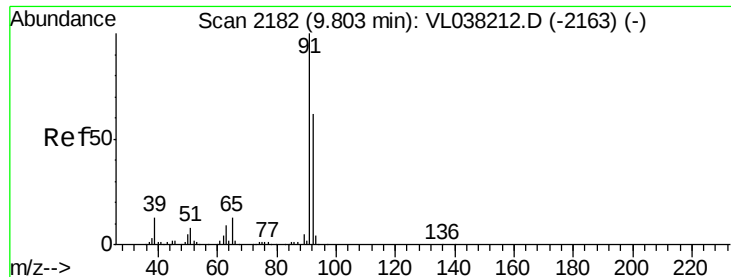
Tot Ion:	43	Resp:	980275
Ion	Ratio	Lower	Upper
43	100		
58	49.8	40.8	61.2
98	0.0	0.0	0.0



#52
Tetrachloroethene
Concen: 1.960 ppbv
RT: 11.23 min Scan# 2625
Delta R.T.: 0.01 min
Lab File: VL038240.D
Acq: 29 Dec 2021 19:58

Tgt Ion:	164	Resp:	127071
Ion	Ratio	Lower	Upper
164	100		
166	128.9	95.6	143.4
129	112.3	85.8	128.8
131	108.9	79.3	118.9





#53

Toluene

Concen: 13.716 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

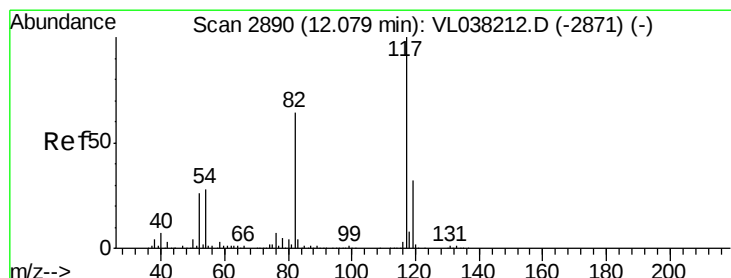
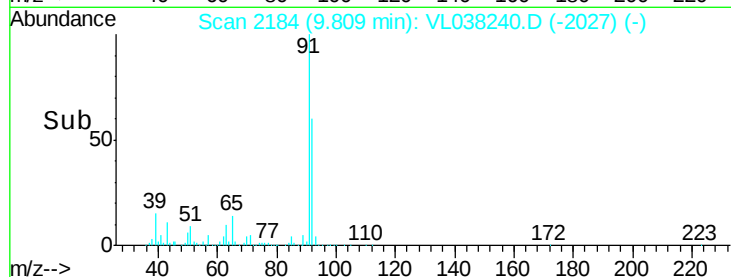
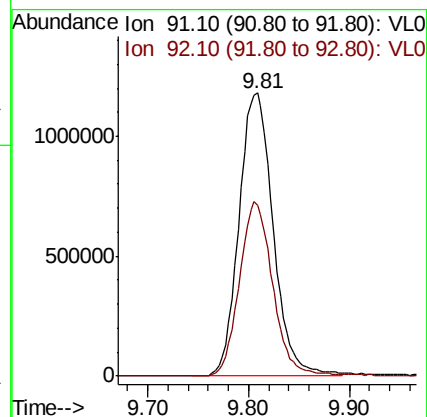
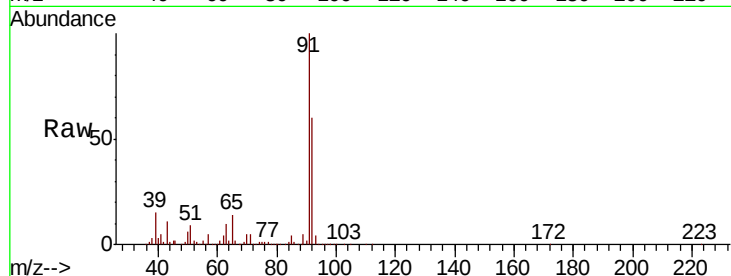
Acq: 29 Dec 2021 19:58

Tot Ion: 91 Resp: 2779563

Ion Ratio Lower Upper

91 100

92 60.7 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.01 min

Lab File: VL038240.D

Acq: 29 Dec 2021 19:58

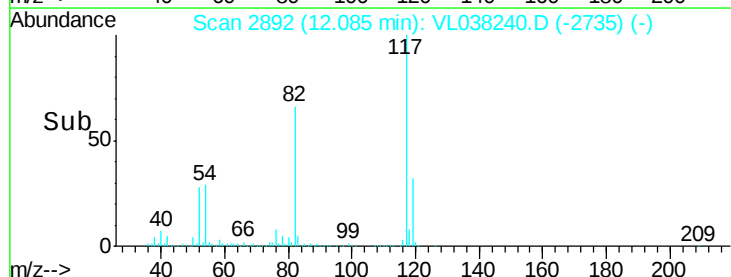
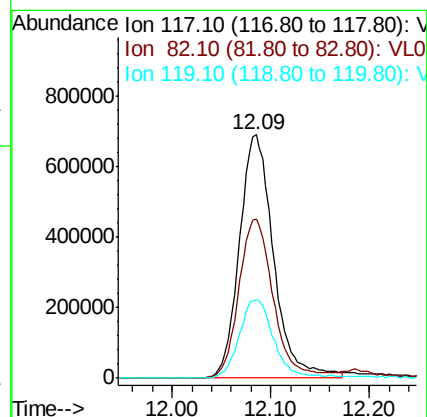
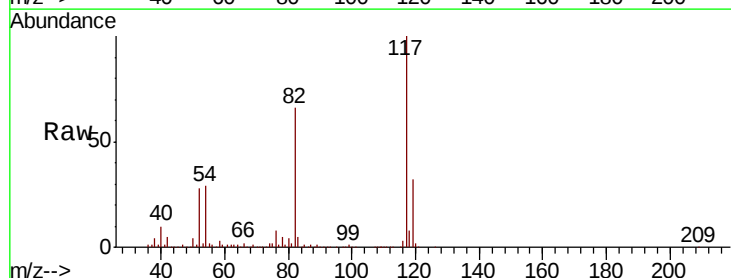
Tgt Ion: 117 Resp: 1664570

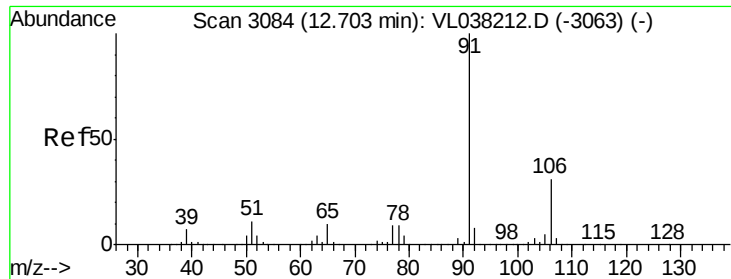
Ion Ratio Lower Upper

117 100

82 65.2 53.3 79.9

119 33.4 25.5 38.3





#58

Ethyl Benzene

Concen: 3.540 ppbv

RT: 12.71 min

Delta R.T. MSVOA_L

Lab File:

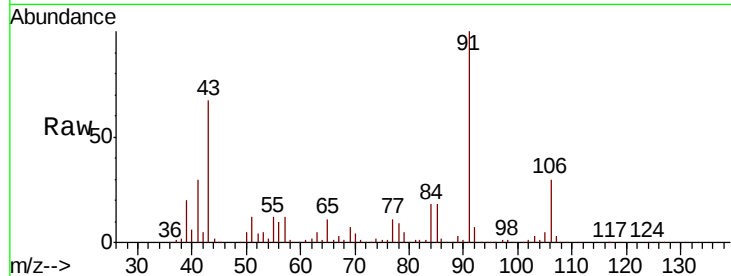
Acq: 29 Dec 2021 19:58

Tot Ion: 91 Resp: 914354

Ion Ratio Lower Upper

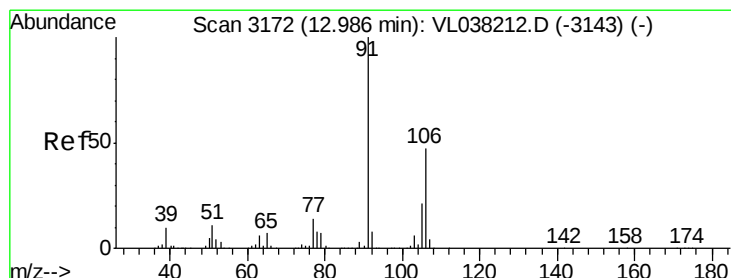
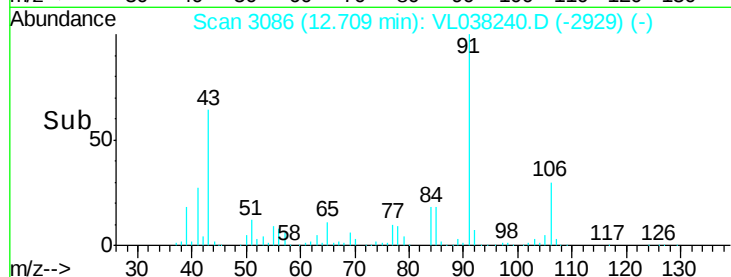
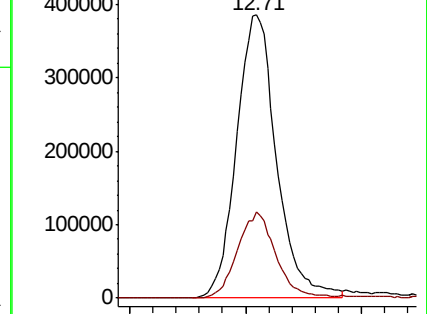
91 100

106 30.5 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 10.754 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.02 min

Lab File: VL038240.D

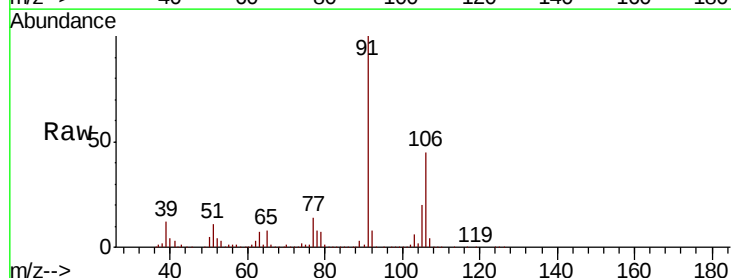
Acq: 29 Dec 2021 19:58

Tgt Ion: 91 Resp: 2374898

Ion Ratio Lower Upper

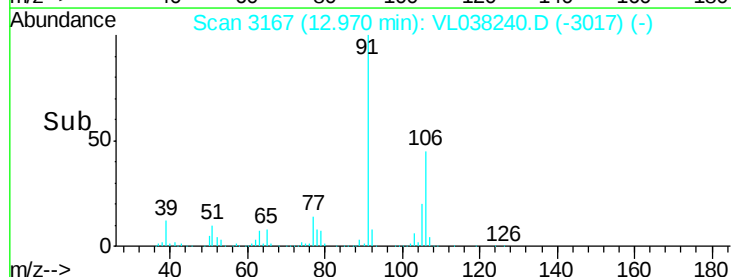
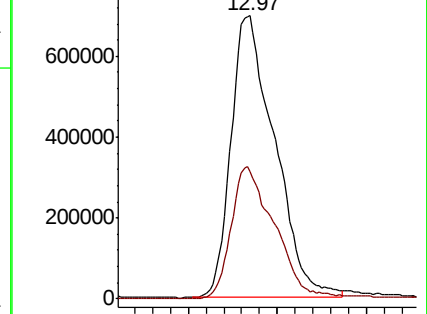
91 100

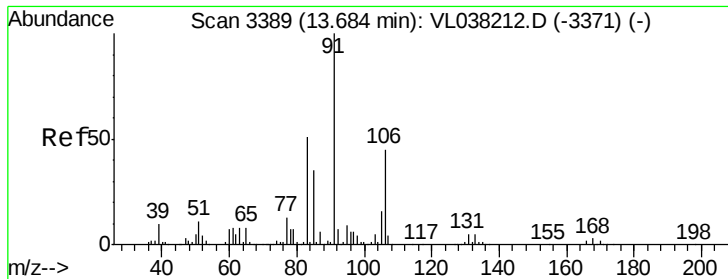
106 47.1 36.9 55.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

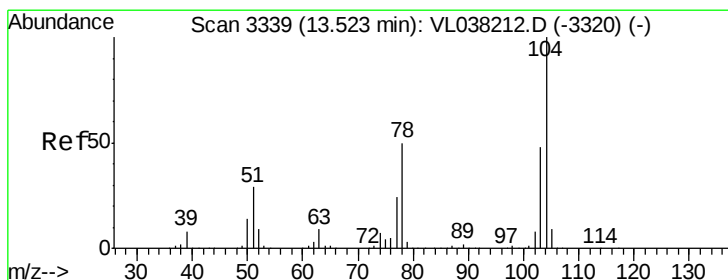
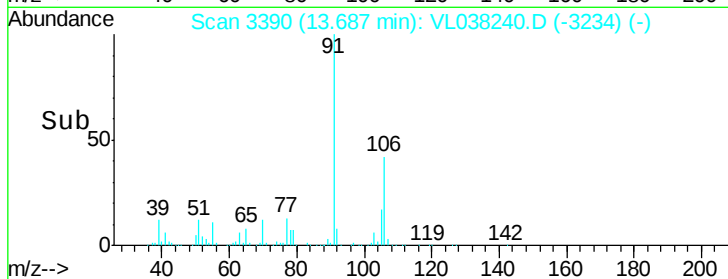
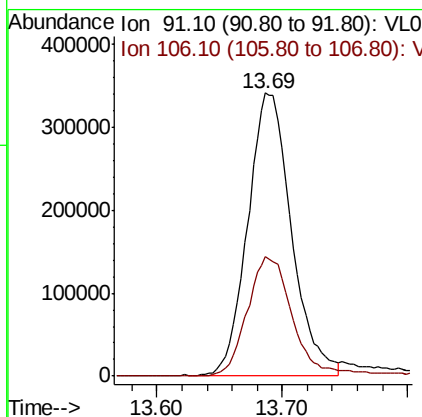
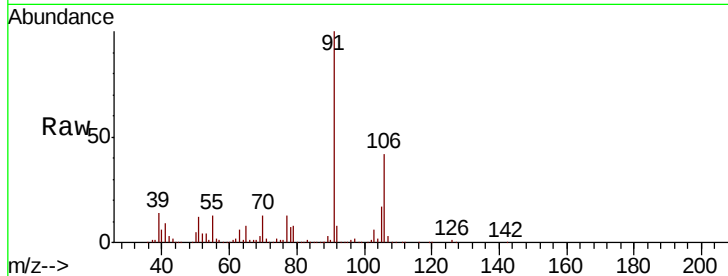
Ion 106.10 (105.80 to 106.80): V





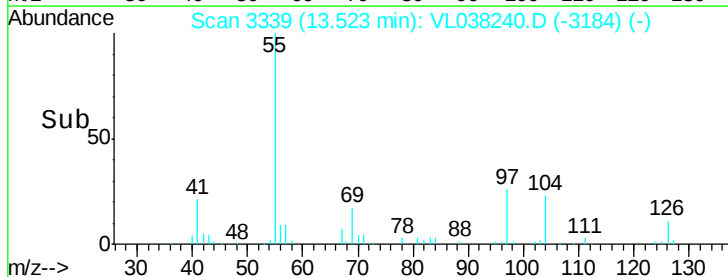
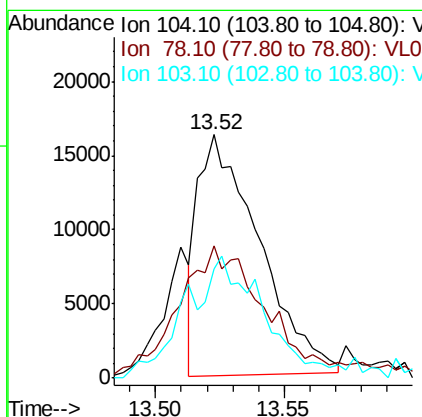
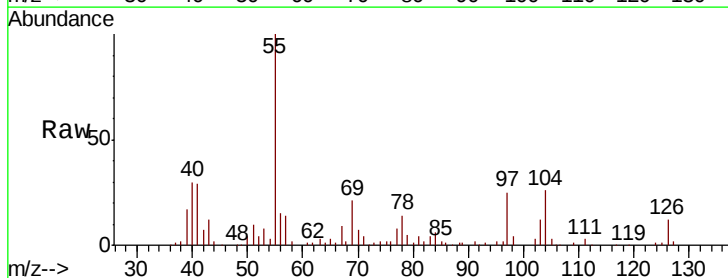
#60
o-Xylene
Concen: 4.024 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Dec 2021 19:58

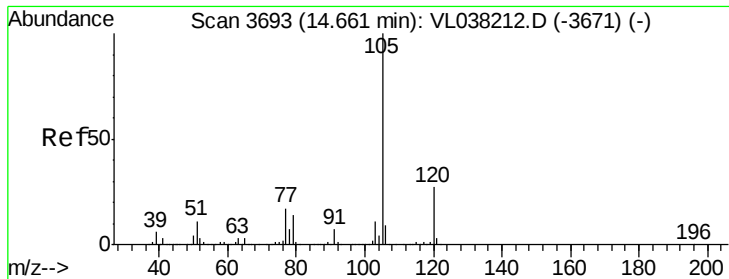
Tot Ion: 91 Resp: 823871
Ion Ratio Lower Upper
91 100
106 44.7 23.5 70.5



#61
Styrene
Concen: 0.258 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. -0.00 min
Lab File: VL038240.D
Acq: 29 Dec 2021 19:58

Tgt Ion: 104 Resp: 26772
Ion Ratio Lower Upper
104 100
78 88.2 41.0 61.6#
103 67.3 38.0 57.0#





#62

Isopropylbenzene

Concen: 0.391 ppbv

RT: 14.66 min

Delta R.T. MSVOA_L

Lab File:

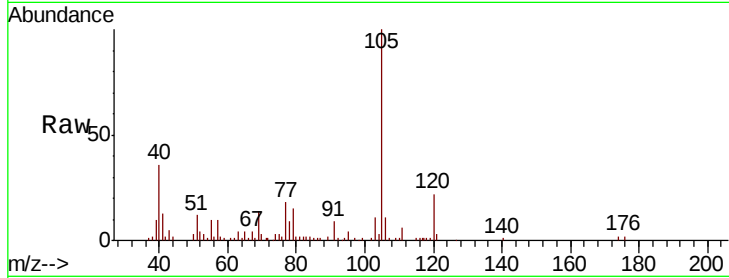
Acq: 29 Dec 2021 19:58

Tot Ion:105 Resp: 112258

Ion Ratio Lower Upper

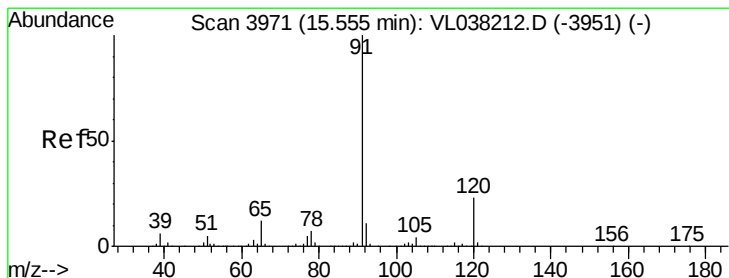
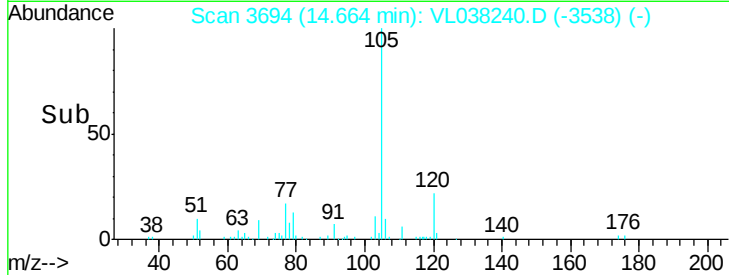
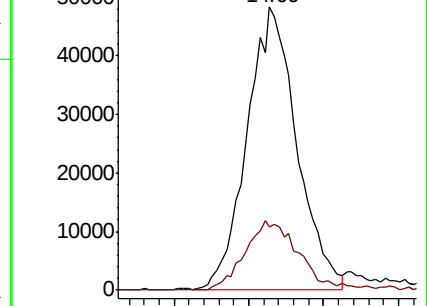
105 100

120 27.1 21.0 31.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 1.114 ppbv

RT: 15.56 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VL038240.D

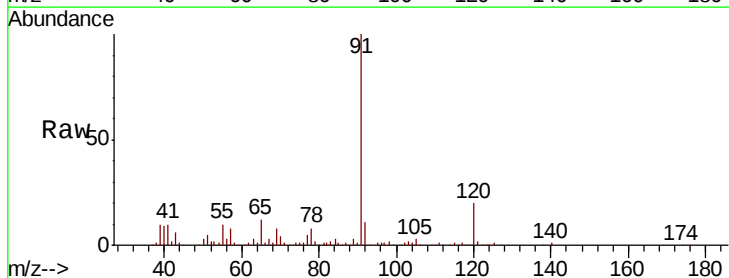
Acq: 29 Dec 2021 19:58

Tgt Ion:120 Resp: 79581

Ion Ratio Lower Upper

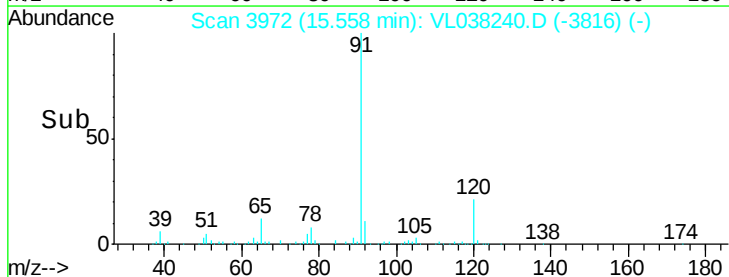
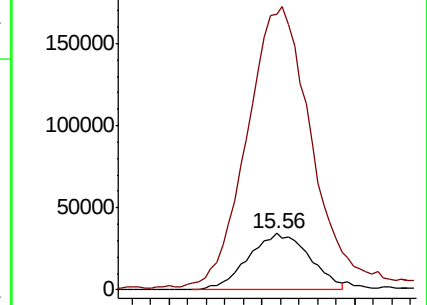
120 100

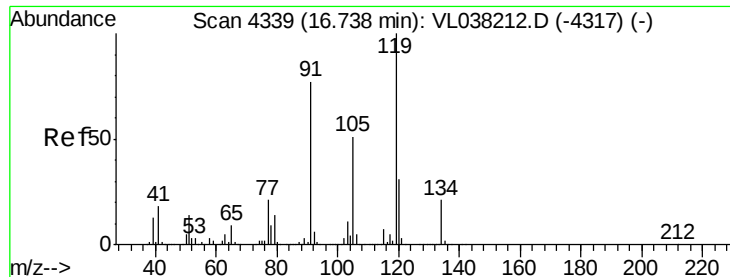
91 537.0 381.5 572.3



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.375 ppbv

RT: 16.76

Delta R.T. MSVOA_L

Lab File:

Acq: 29 Dec 2021 19:58

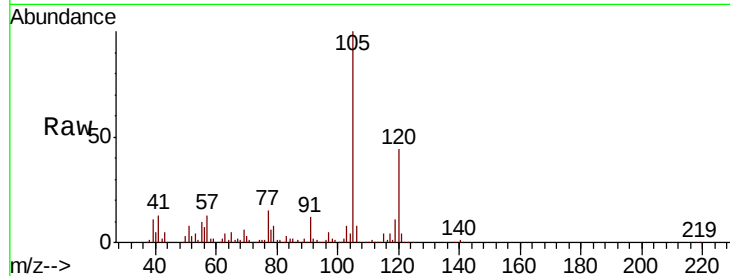
Tot Ion: 119 Resp: 94809

Ion Ratio Lower Upper

119 100

91 112.1 63.0 94.4#

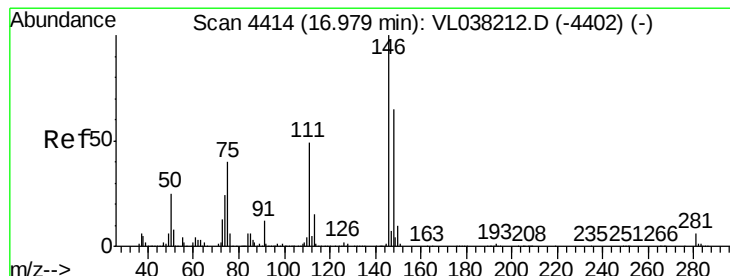
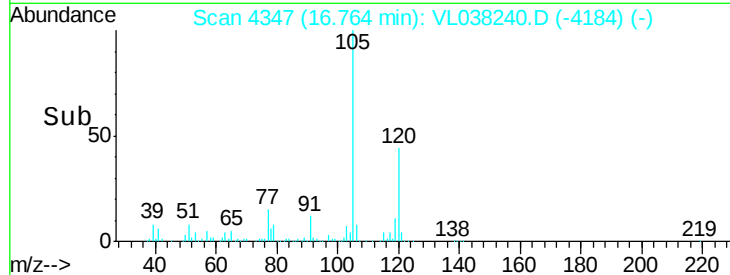
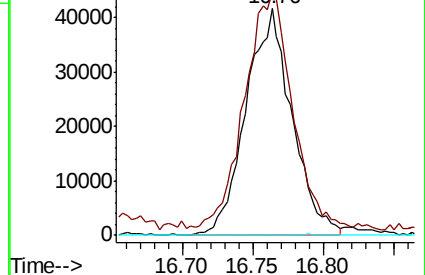
134 0.0 15.8 23.6#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.061 ppbv

RT: 17.00 min Scan# 4420

Delta R.T. 0.02 min

Lab File: VL038240.D

Acq: 29 Dec 2021 19:58

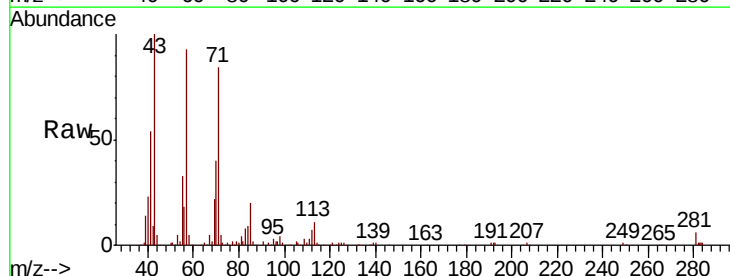
Tgt Ion: 91 Resp: 578

Ion Ratio Lower Upper

91 100

126 0.0 16.0 24.0#

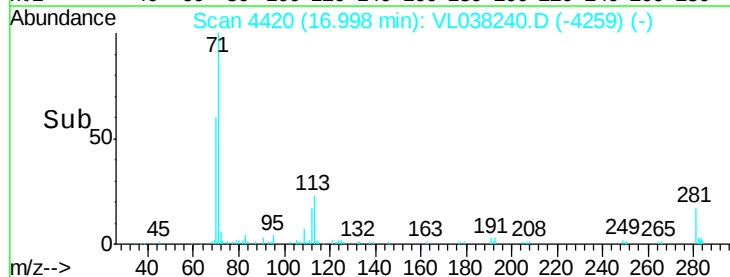
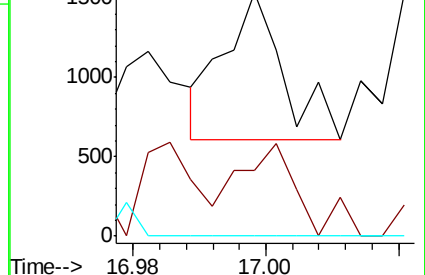
128 0.0 5.0 7.6#

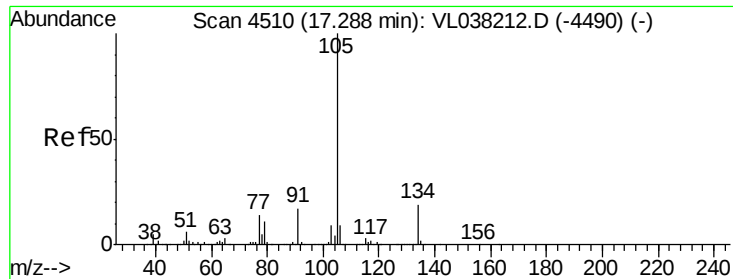


Abundance Ion 91.10 (90.80 to 91.80): VLO

Ion 126.10 (125.80 to 126.80): V

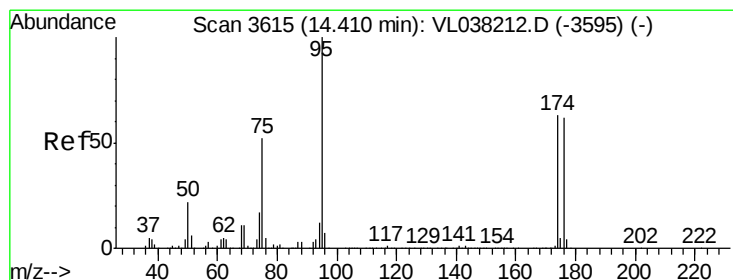
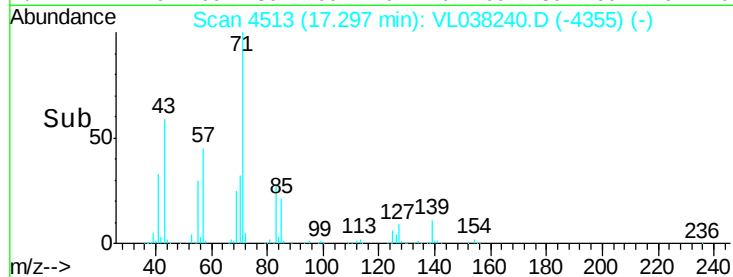
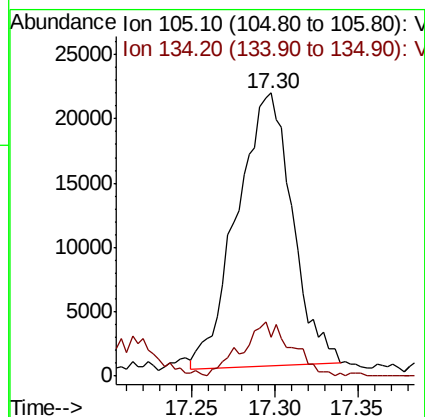
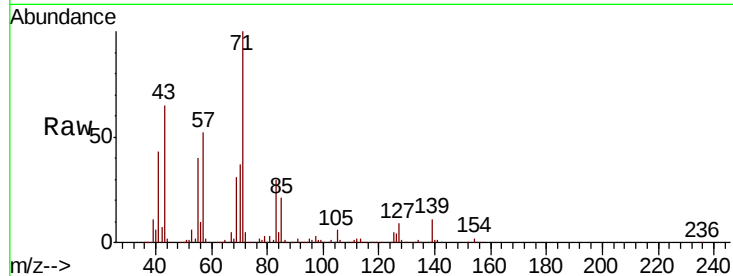
Ion 128.10 (127.80 to 128.80): V





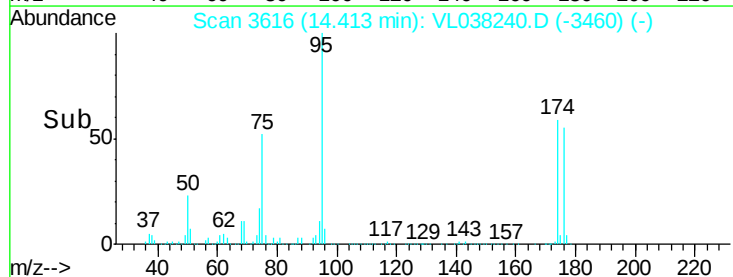
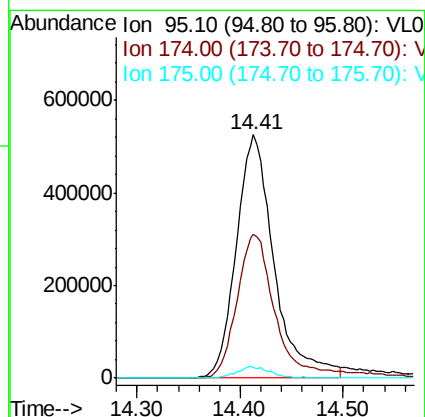
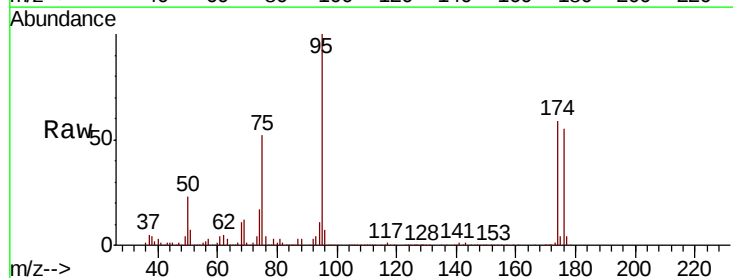
#67
 sec-Butylbenzene
 Concen: 0.141 ppbv
 RT: 17.30 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Dec 2021 19:58

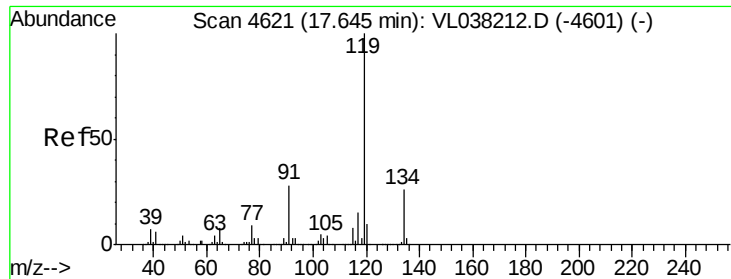
Tot Ion: 105 Resp: 49176
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.6 22.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.452 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. 0.00 min
 Lab File: VL038240.D
 Acq: 29 Dec 2021 19:58

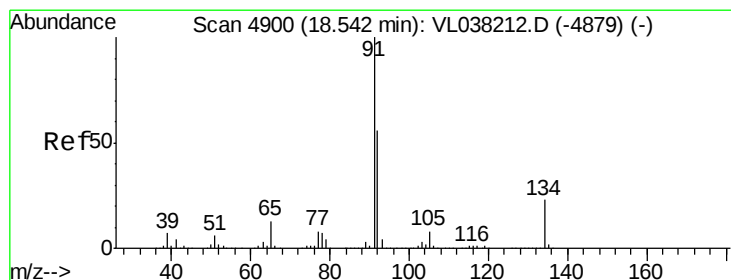
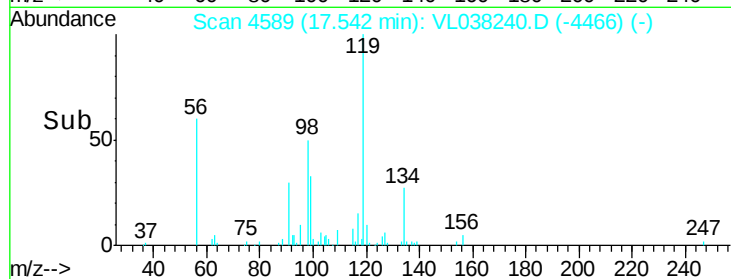
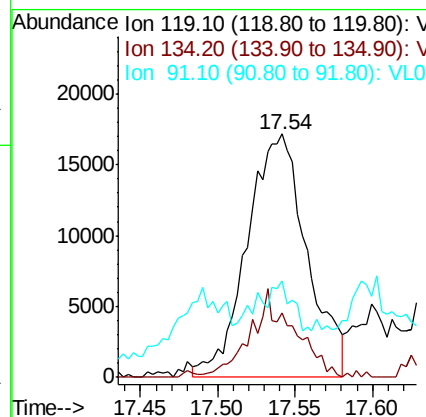
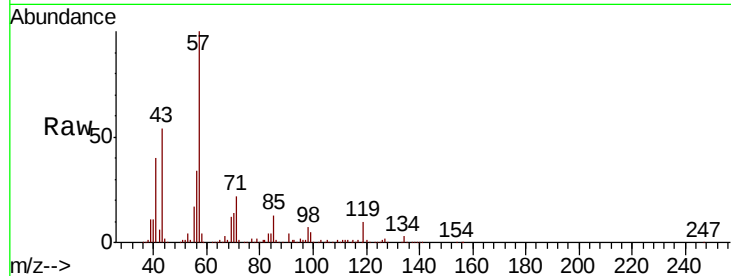
Tgt Ion: 95 Resp: 1340755
 Ion Ratio Lower Upper
 95 100
 174 62.4 54.6 81.8
 175 4.7 4.1 6.1





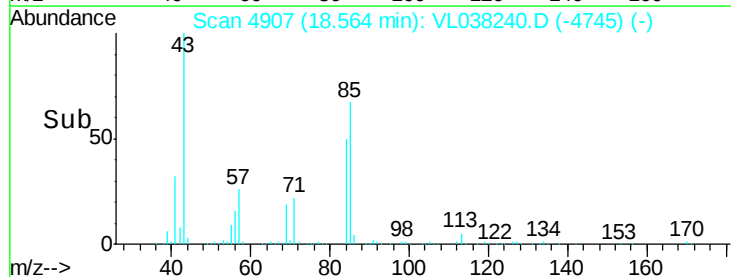
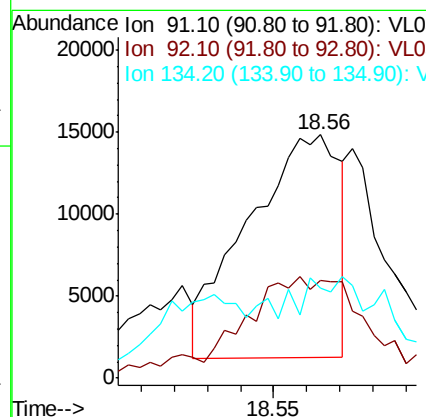
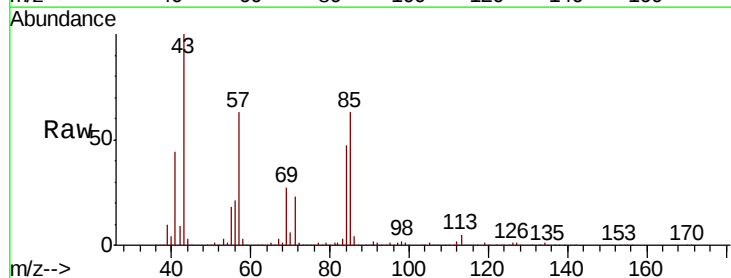
#69
 p-Isopropyltoluene
 Concen: 0.165 ppbv
 RT: 17.54 min
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Dec 2021 19:58

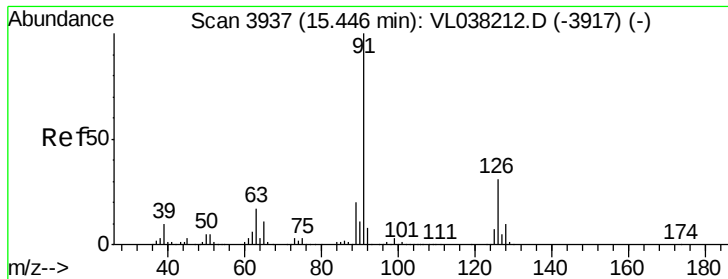
Tot Ion:	119	Resp:	46153
Ion	Ratio	Lower	Upper
119	100		
134	27.0	20.4	30.6
91	28.9	22.4	33.6



#70
 n-Butylbenzene
 Concen: 0.099 ppbv
 RT: 18.56 min Scan# 4907
 Delta R.T.: 0.02 min
 Lab File: VL038240.D
 Acq: 29 Dec 2021 19:58

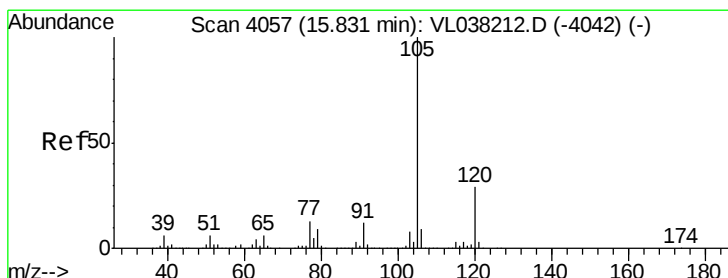
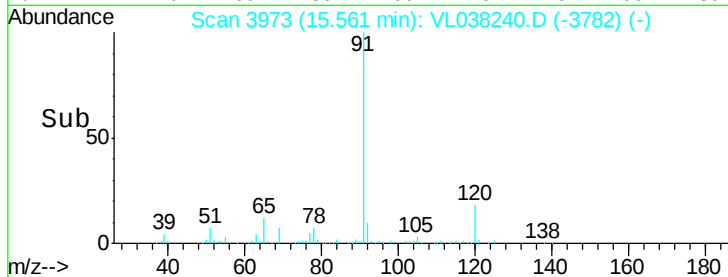
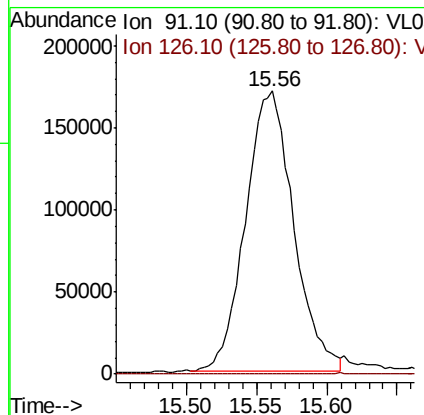
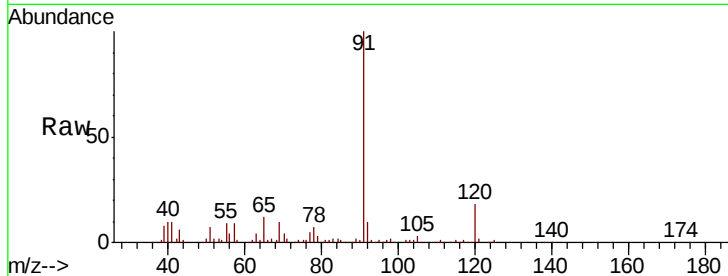
Tgt Ion:	91	Resp:	26308
Ion	Ratio	Lower	Upper
91	100		
92	69.9	44.0	66.0#
134	0.0	18.5	27.7#





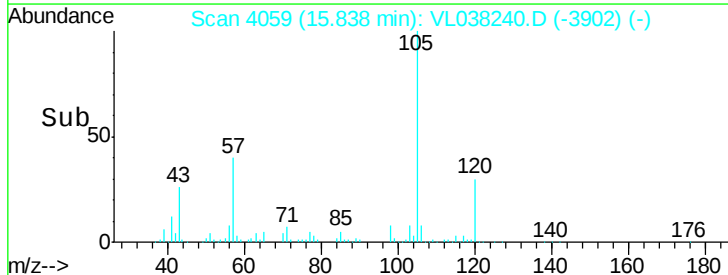
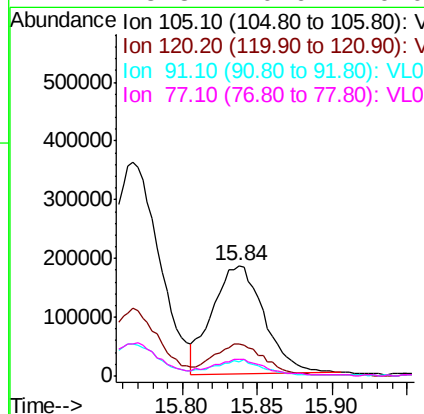
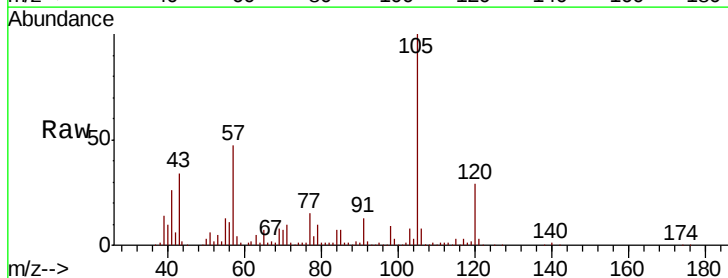
#71
 2-Chlorotoluene
 Concen: 1.901 ppbv
 RT: 15.56
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Dec 2021 19:58

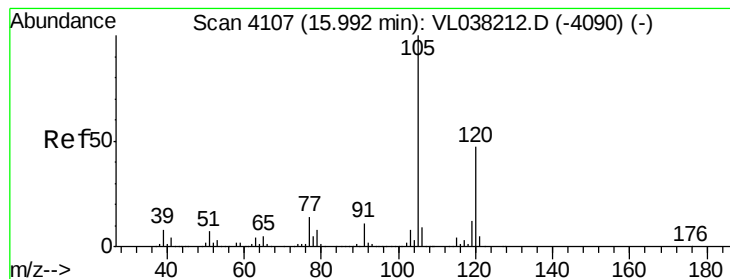
Tot Ion: 91 Resp: 406673
 Ion Ratio Lower Upper
 91 100
 126 0.3 12.8 51.0#



#72
 4-Ethyltoluene
 Concen: 1.878 ppbv
 RT: 15.84 min Scan# 4059
 Delta R.T. 0.01 min
 Lab File: VL038240.D
 Acq: 29 Dec 2021 19:58

Tgt Ion: 105 Resp: 442677
 Ion Ratio Lower Upper
 105 100
 120 32.1 24.3 36.5
 91 13.8 9.8 14.6
 77 15.8 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 1.120 ppbv

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

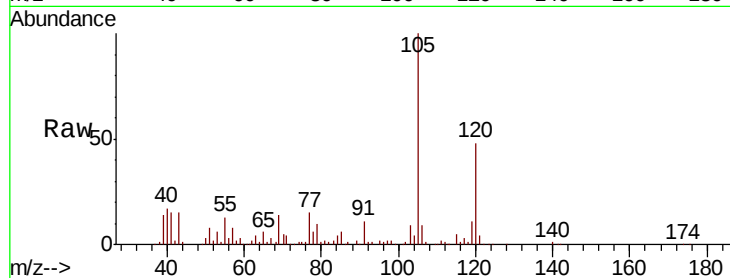
Acq: 29 Dec 2021 19:58

Tot Ion:105 Resp: 236324

Ion Ratio Lower Upper

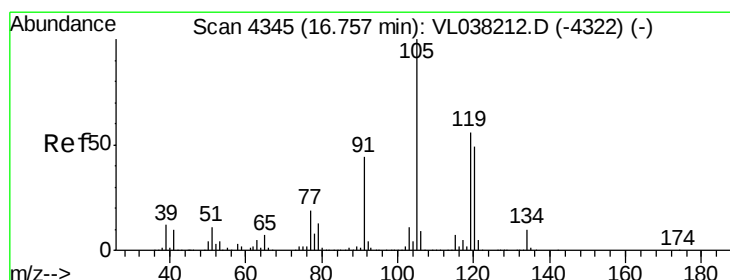
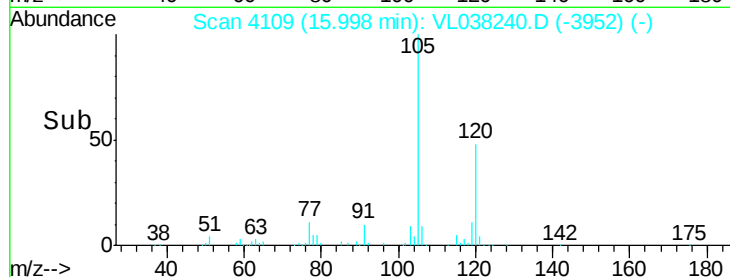
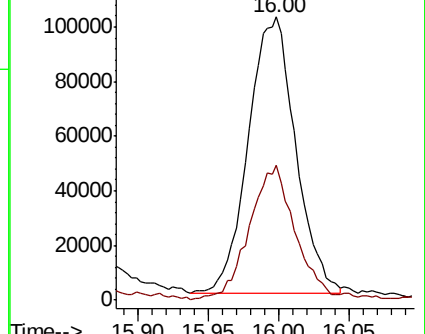
105 100

120 49.2 37.3 55.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 3.995 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.00 min

Lab File: VL038240.D

Acq: 29 Dec 2021 19:58

Tgt Ion:105 Resp: 885322

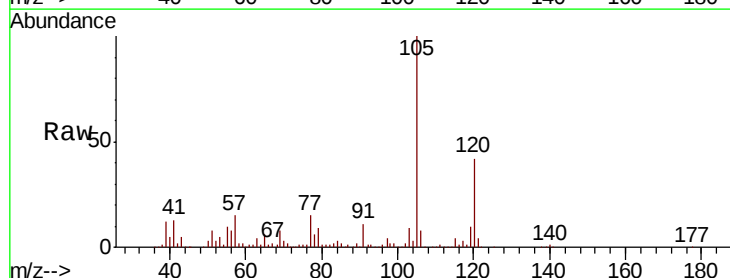
Ion Ratio Lower Upper

105 100

120 42.0 39.4 59.2

91 10.9 35.0 52.4#

77 14.2 15.6 23.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

