

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022322\
 Data File : VL038412.D
 Acq On : 23 Feb 2022 17:40
 Operator : SY/AP
 Sample : N1607-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MP-1

Quant Time: Feb 24 07:28:17 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	5.66	49	915621	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	2361271	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	2072292	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1673106	9.76	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	29012	0.20	ppbv #	85
3) Chlorodifluoromethane	3.03	51	1258316	7.78	ppbv #	59
4) Chloromethane	3.14	50	25171	0.45	ppbv	92
7) Chloroethane	3.15	64	1586	0.08	ppbv #	42
9) Propene	3.02	41	10339	0.19	ppbv #	20
10) Heptane	8.12	43	29753	0.23	ppbv	96
11) Trichlorofluoromethane	3.95	101	24618	0.18	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.48	101	3475	0.03	ppbv #	17
13) Ethanol	3.61	45	1659563	311.50	ppbv	87
15) Acetone	3.84	43	5998236	77.03	ppbv	97
16) 1,3-Butadiene	3.31	39	26503	0.51	ppbv #	24
17) tert-Butyl alcohol	4.30	59	558580	7.19	ppbv	97
19) Isopropyl Alcohol	3.98	45	18201295	403.67	ppbv #	95
20) Methylene Chloride	4.35	84	252441	6.54	ppbv	98
21) Allyl Chloride	4.30	41	141935	2.16	ppbv #	65
23) Vinyl Acetate	5.06	43	157478	1.53	ppbv #	1
25) Ethyl Acetate	5.68	43	182731	0.87	ppbv #	88
26) Hexane	5.68	57	221560	2.34	ppbv #	47
29) Chloroform	5.75	83	7138	0.05	ppbv	92
30) Cyclohexane	7.13	84	18066	0.23	ppbv #	42
31) cis-1,2-Dichloroethene	5.55	61	8693	0.09	ppbv	95
34) 2-Butanone	5.24	43	243813	3.28	ppbv	97
36) Benzene	6.88	78	32828	0.16	ppbv #	92
38) Trichloroethene	7.83	130	18885	0.25	ppbv	97
39) 1,2-Dichloropropane	7.17	63	570961	6.90	ppbv #	25
41) Tetrahydrofuran	6.05	42	8125	0.16	ppbv #	53
44) 2,2,4-Trimethylpentane	7.87	57	186695	0.52	ppbv #	86
50) 4-Methyl-2-Pentanone	8.74	43	42664	0.32	ppbv	88
51) 2-Hexanone	10.13	43	75726	1.29	ppbv #	99
52) Tetrachloroethene	11.22	164	2706	0.04	ppbv #	82
53) Toluene	9.80	91	2623890	11.63	ppbv	99
58) Ethyl Benzene	12.70	91	244868	0.86	ppbv	98
59) m/p-Xylene	12.96	91	790246	3.25	ppbv	93
60) o-Xylene	13.68	91	408864	1.78	ppbv	92
61) Styrene	13.52	104	45926	0.43	ppbv	95
62) Isopropylbenzene	14.66	105	116953	0.38	ppbv	98
64) n-propylbenzene	15.55	120	72412	0.95	ppbv	90
65) tert-Butylbenzene	16.75	119	67869	0.25	ppbv #	1
66) Benzyl Chloride	16.82	91	1556	0.11	ppbv #	3
67) sec-Butylbenzene	17.28	105	165236	0.44	ppbv	99
69) p-Isopropyltoluene	17.65	119	129100	0.43	ppbv	94

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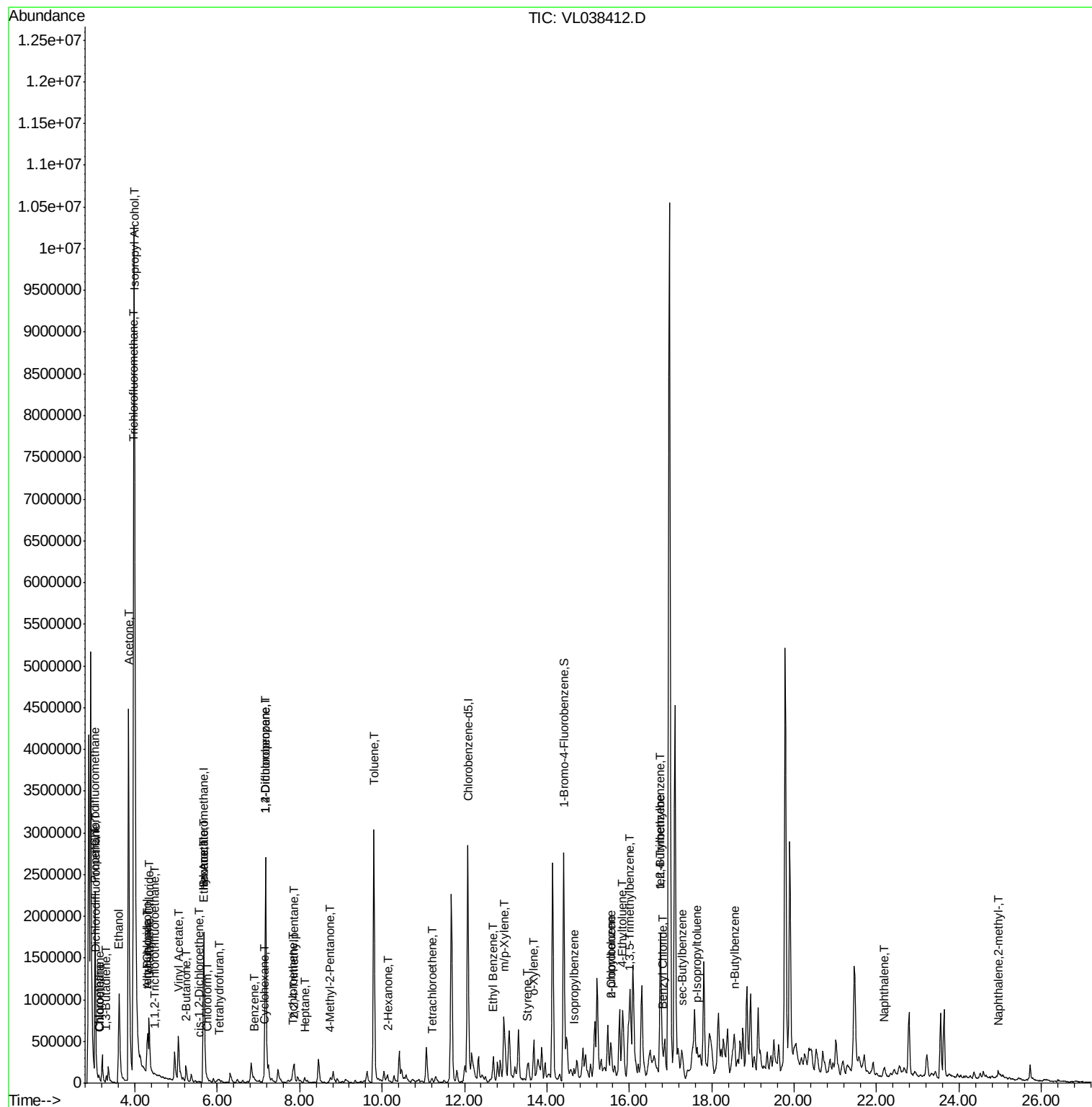
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.54	91	227527	0.74	ppbv #	61
71) 2-Chlorotoluene	15.55	91	351888	1.48	ppbv #	48
72) 4-Ethyltoluene	15.83	105	362203	1.43	ppbv #	92
73) 1,3,5-Trimethylbenzene	15.99	105	381222	1.66	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	1217444	5.01	ppbv #	69
79) Naphthalene	22.19	128	23038	0.17	ppbv #	92
80) Naphthalene,2-methyl-	24.97	142	11681	0.45	ppbv #	85

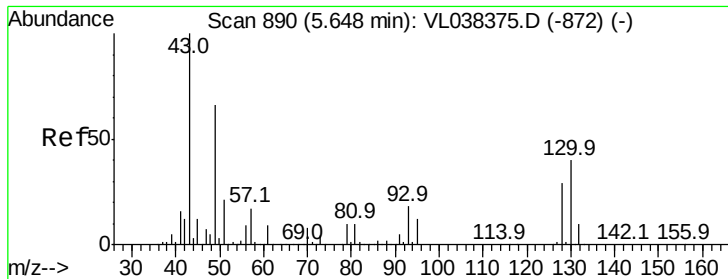
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. 0.01

Lab File: ClientSampleId: MP-1

Acq: 23 Feb 2022 17:40

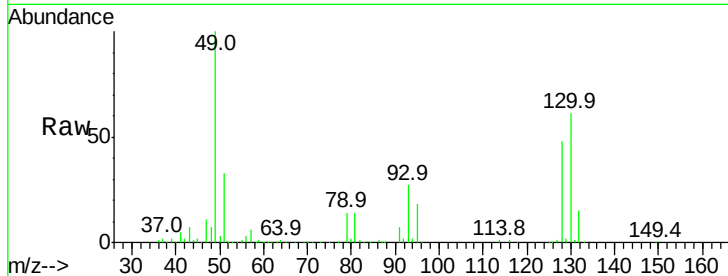
Tgt Ion: 49 Resp: 915621

Ion Ratio Lower Upper

49 100

128 49.4 24.3 72.9

130 62.7 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

5.66

400000

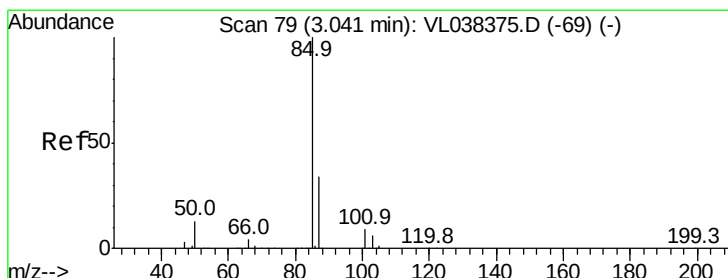
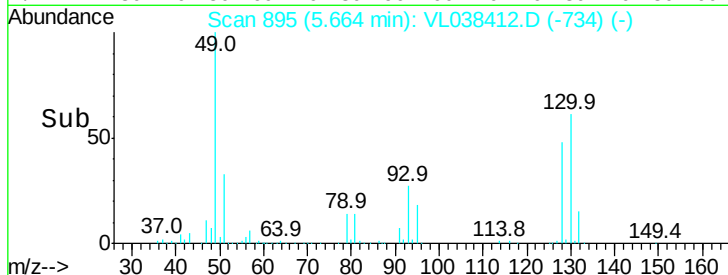
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.20 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038412.D

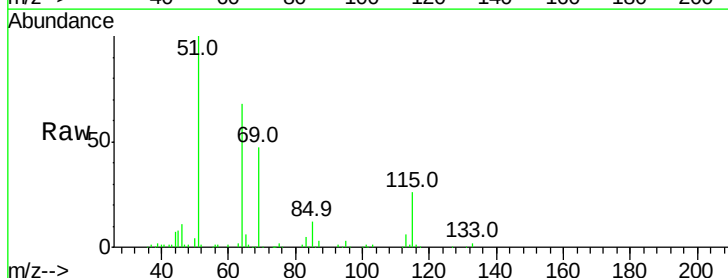
Acq: 23 Feb 2022 17:40

Tgt Ion: 85 Resp: 29012

Ion Ratio Lower Upper

85 100

87 25.8 27.4 41.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

20000

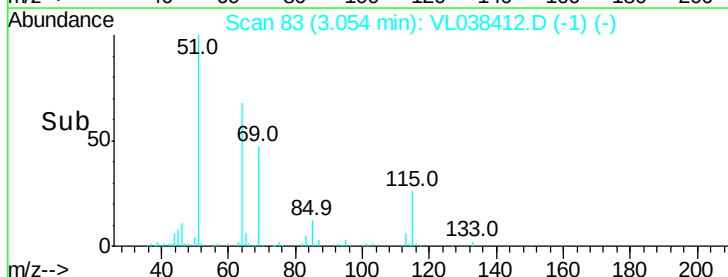
15000

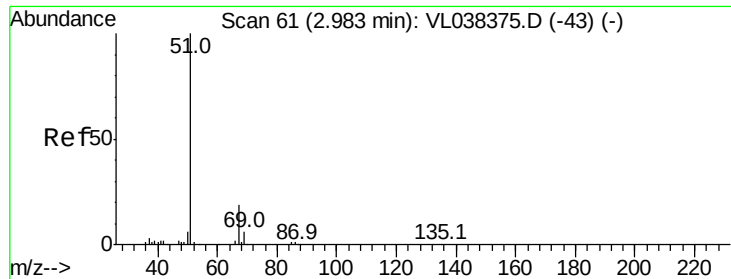
10000

5000

0

Time-->





#3

Chlorodifluoromethane

Concen: 7.78 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: MP-1

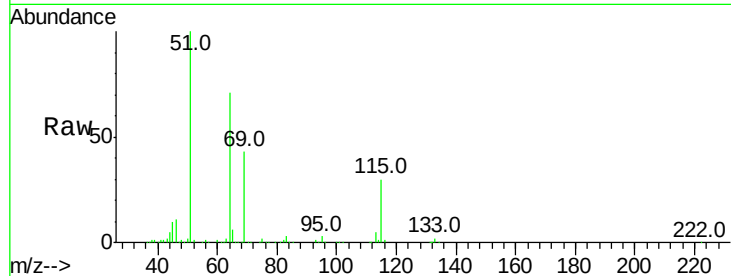
Acq: 23 Feb 2022 17:40

Tgt Ion: 51 Resp: 1258316

Ion Ratio Lower Upper

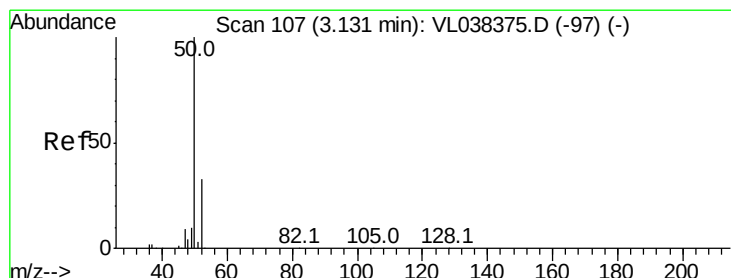
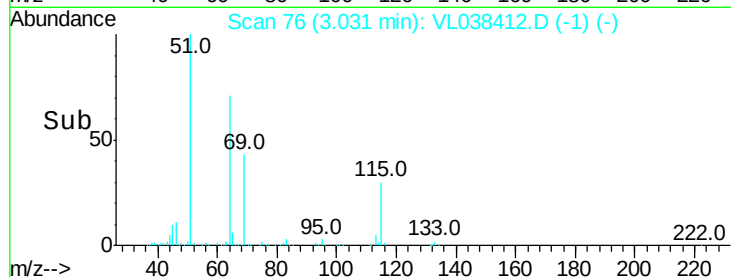
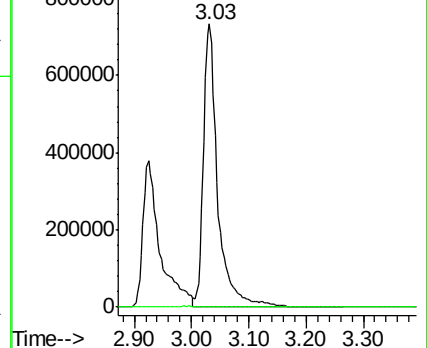
51 100

67 0.1 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: 0.45 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL038412.D

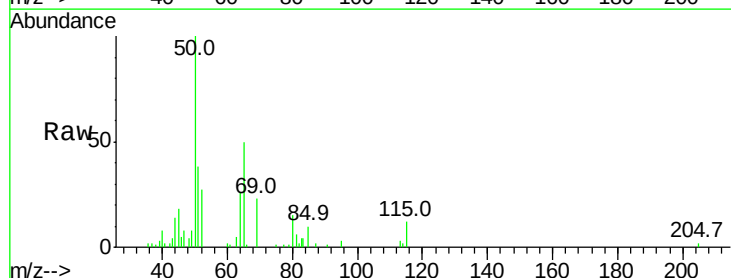
Acq: 23 Feb 2022 17:40

Tgt Ion: 50 Resp: 25171

Ion Ratio Lower Upper

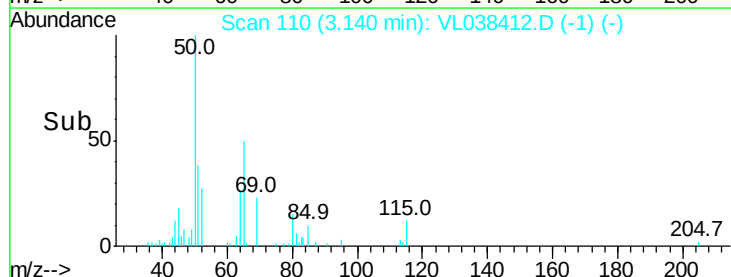
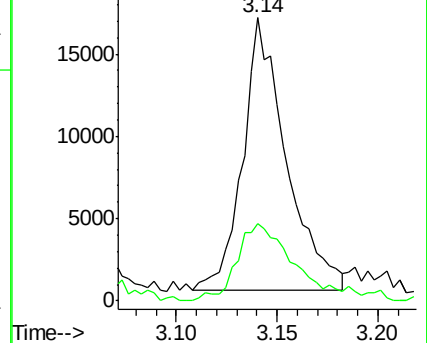
50 100

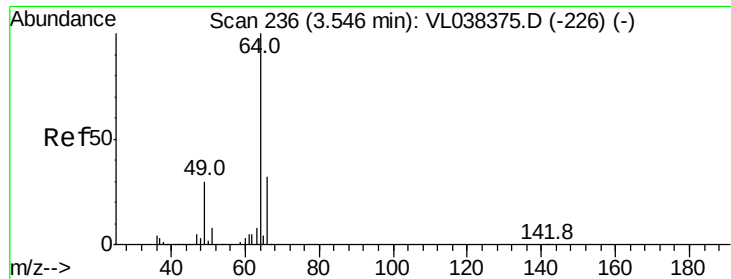
52 28.5 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.08 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

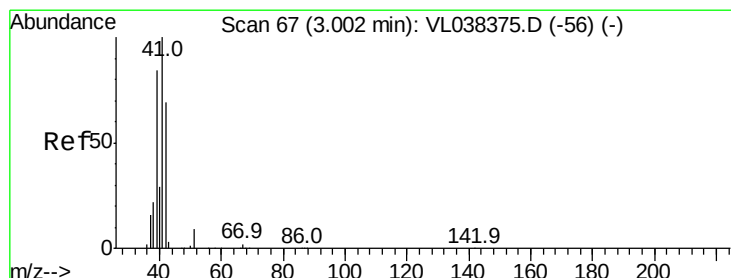
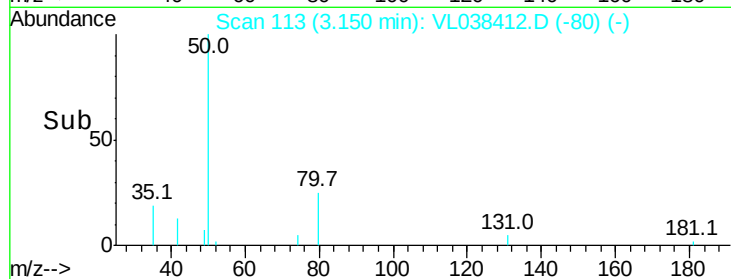
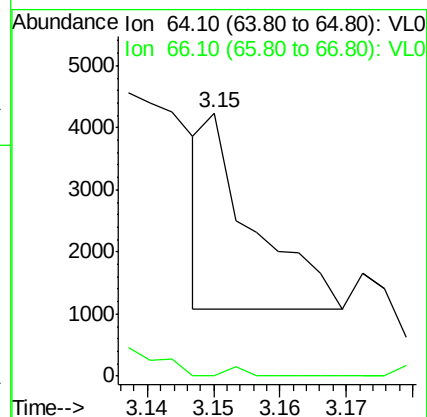
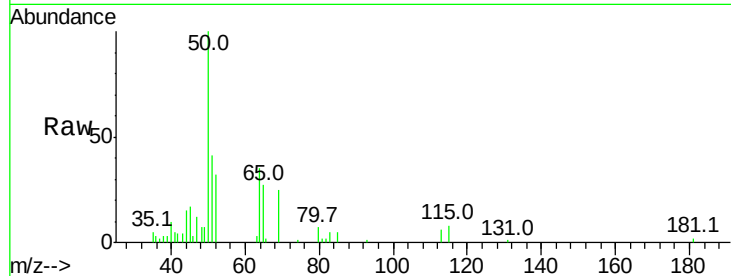
Acq: 23 Feb 2022 17:40 MP-1

Tgt Ion: 64 Resp: 1586

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



#9

Propene

Concen: 0.19 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL038412.D

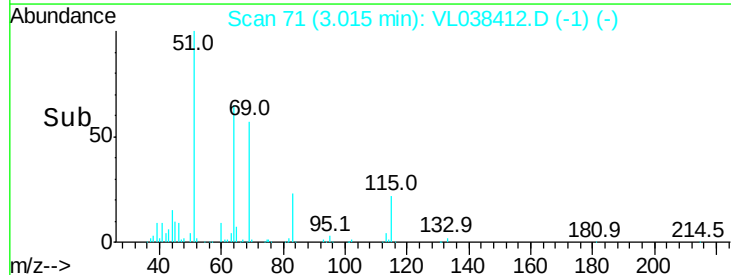
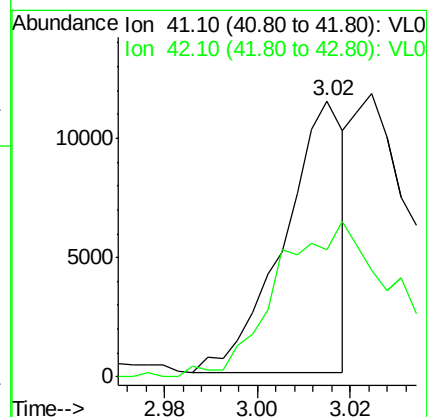
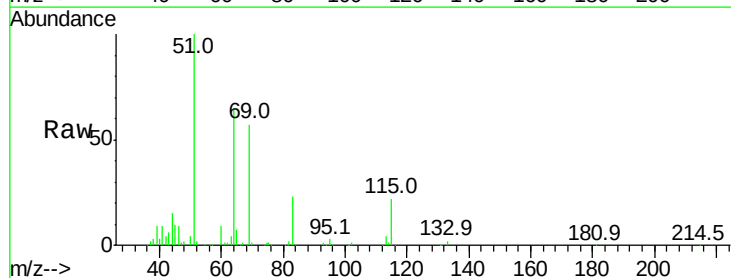
Acq: 23 Feb 2022 17:40

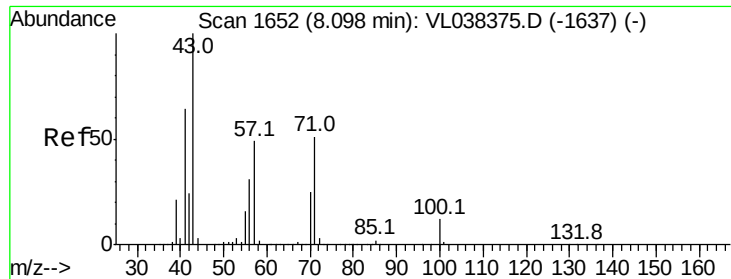
Tgt Ion: 41 Resp: 10339

Ion Ratio Lower Upper

41 100

42 133.1 54.6 82.0#





#10

Heptane

Concen: 0.23 ppbv

RT: 8.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

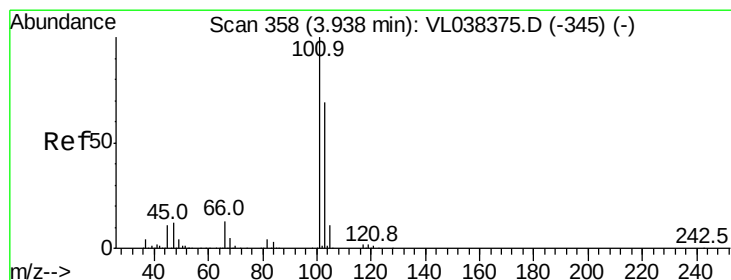
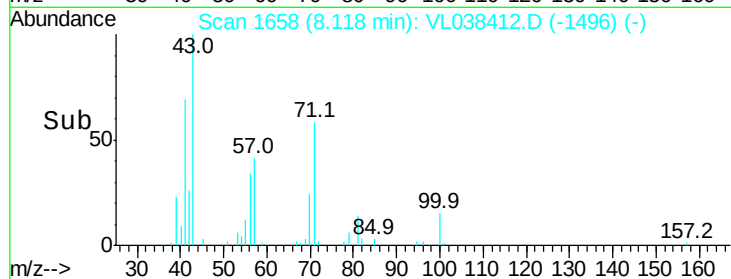
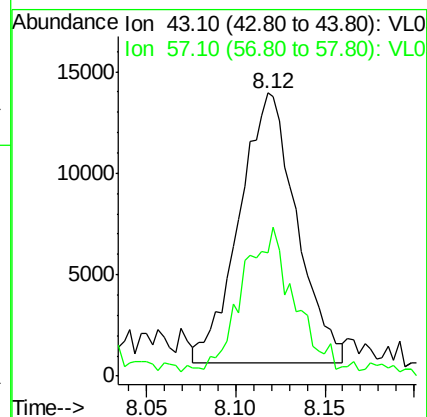
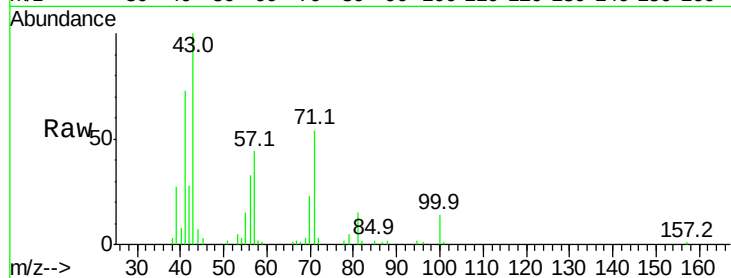
Acq: 23 Feb 2022 17:40 MP-1

Tgt Ion: 43 Resp: 29753

Ion Ratio Lower Upper

43 100

57 47.0 39.8 59.8



#11

Trichlorofluoromethane

Concen: 0.18 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL038412.D

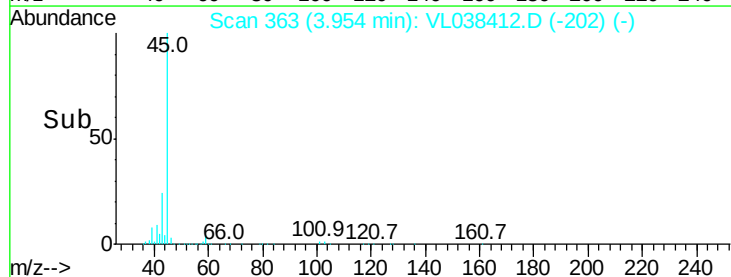
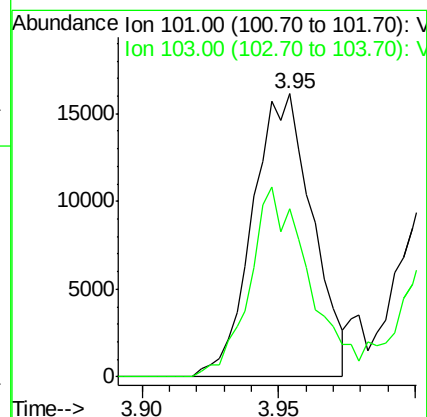
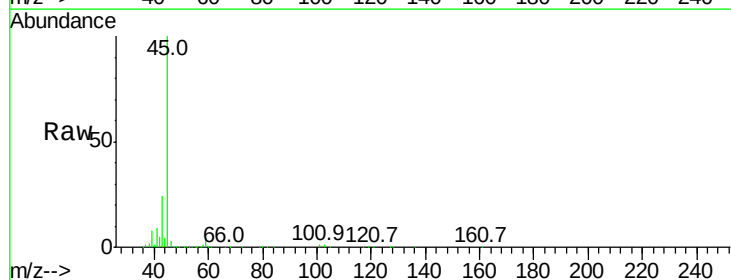
Acq: 23 Feb 2022 17:40

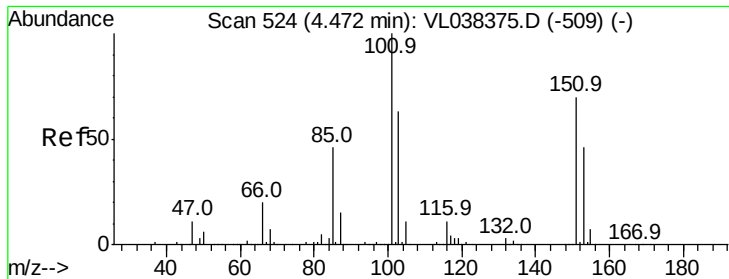
Tgt Ion: 101 Resp: 24618

Ion Ratio Lower Upper

101 100

103 59.5 55.0 82.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.03 ppbv

RT: 4.48 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

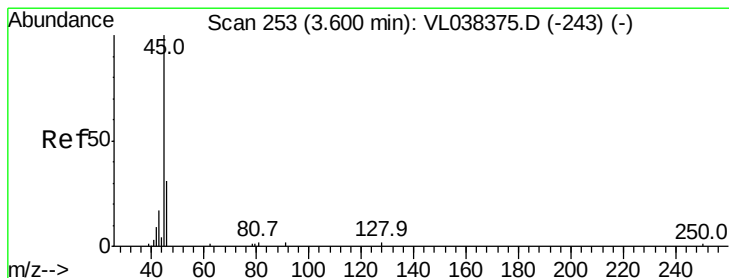
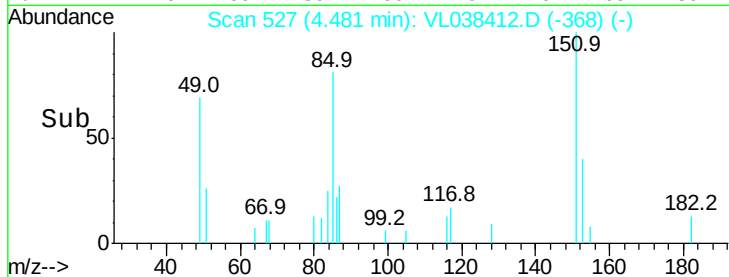
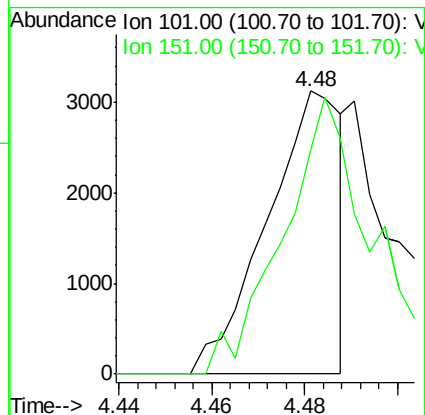
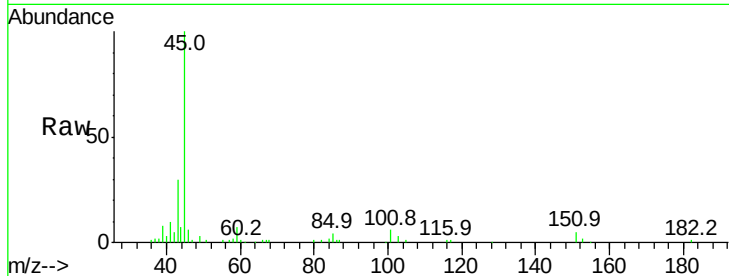
Acq: 23 Feb 2022 17:40 MP-1

Tgt Ion: 101 Resp: 3475

Ion Ratio Lower Upper

101 100

151 137.6 55.9 83.9#



#13

Ethanol

Concen: 311.50 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL038412.D

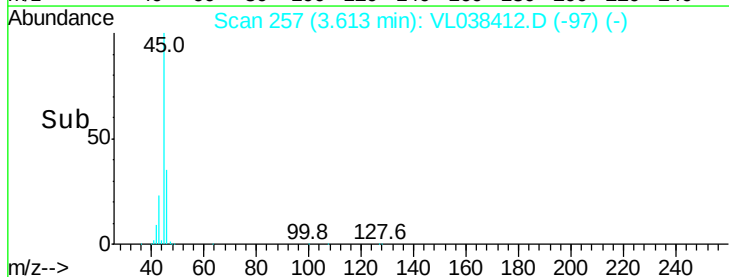
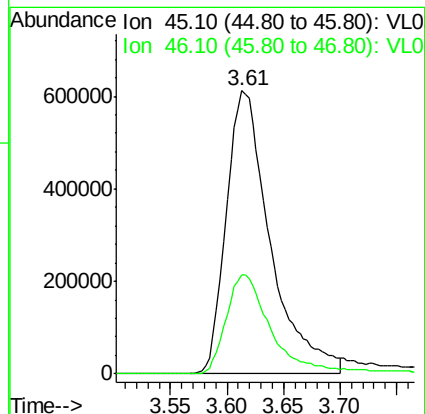
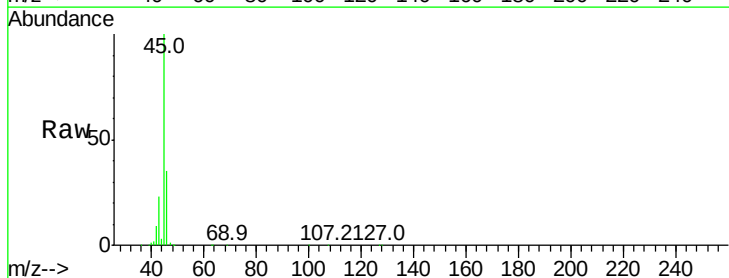
Acq: 23 Feb 2022 17:40

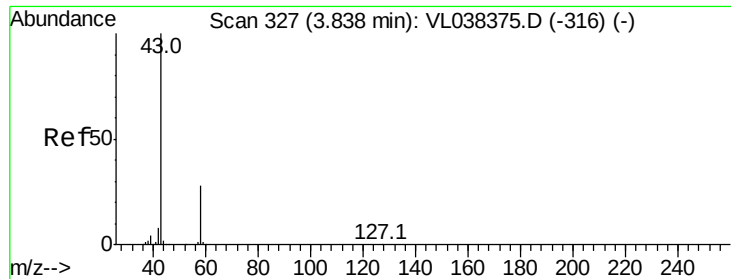
Tgt Ion: 45 Resp: 1659563

Ion Ratio Lower Upper

45 100

46 37.0 18.2 72.8





#15

Acetone

Concen: 77.03 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

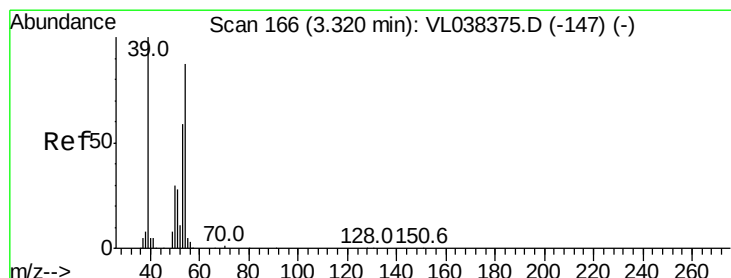
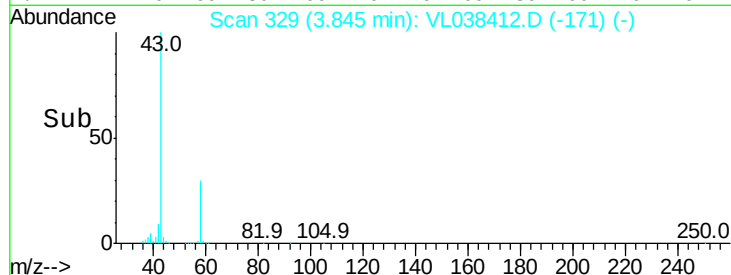
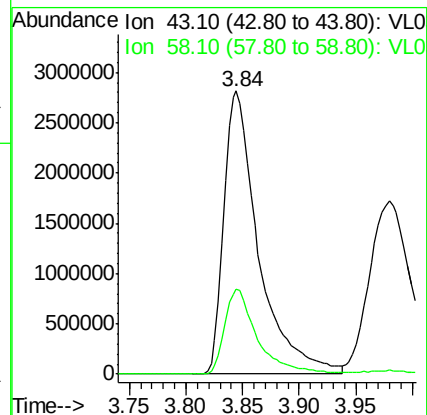
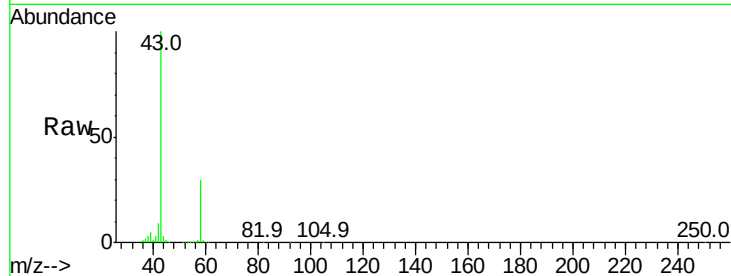
Acq: 23 Feb 2022 17:40 MP-1

Tgt Ion: 43 Resp: 5998236

Ion Ratio Lower Upper

43 100

58 28.6 21.7 32.5



#16

1,3-Butadiene

Concen: 0.51 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.01 min

Lab File: VL038412.D

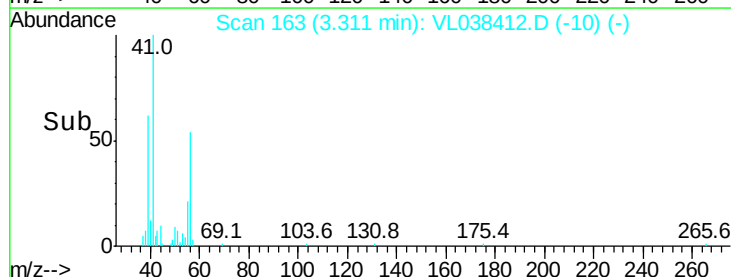
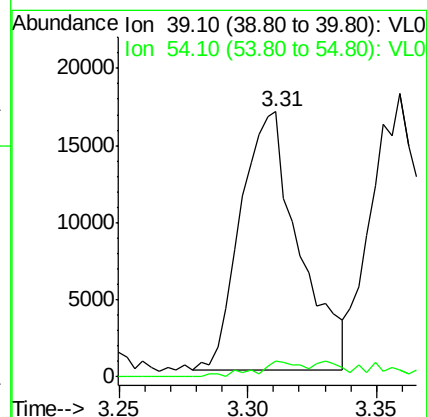
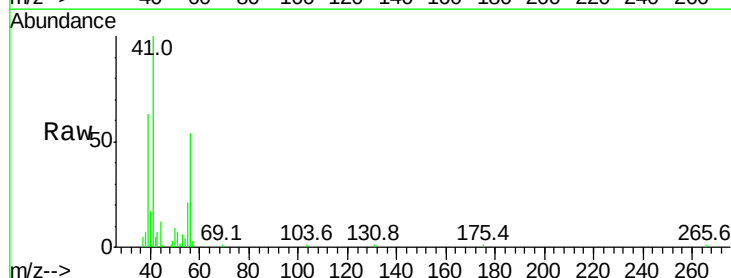
Acq: 23 Feb 2022 17:40

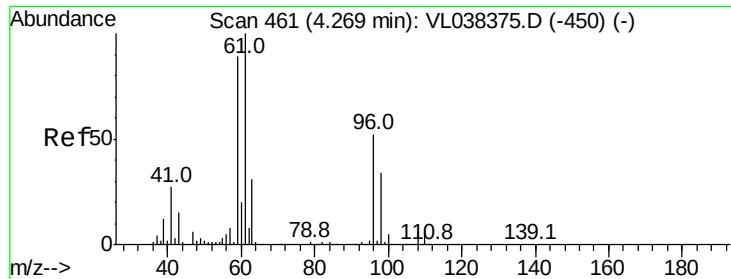
Tgt Ion: 39 Resp: 26503

Ion Ratio Lower Upper

39 100

54 10.5 60.3 90.5#





#17

tert-Butyl alcohol

Concen: 7.19 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

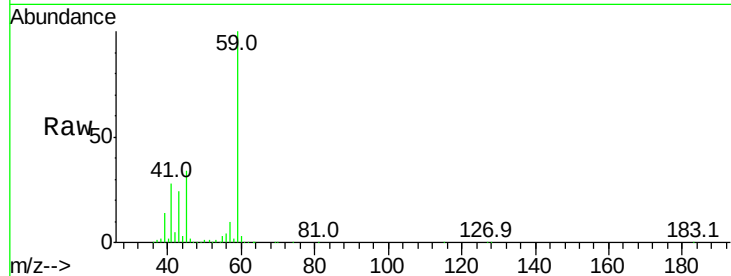
Acq: 23 Feb 2022 17:40 MP-1

Tgt Ion: 59 Resp: 558580

Ion Ratio Lower Upper

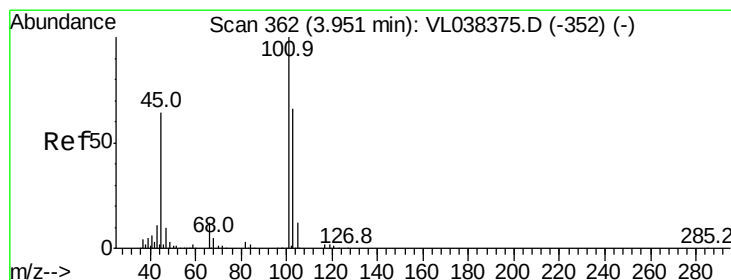
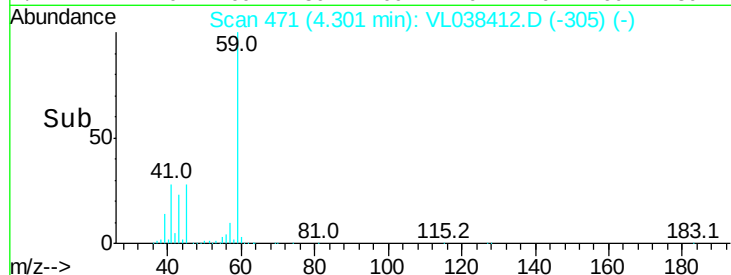
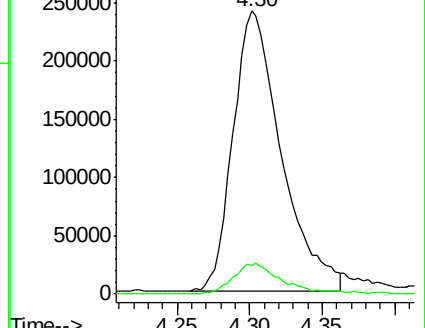
59 100

57 11.5 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 403.67 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.03 min

Lab File: VL038412.D

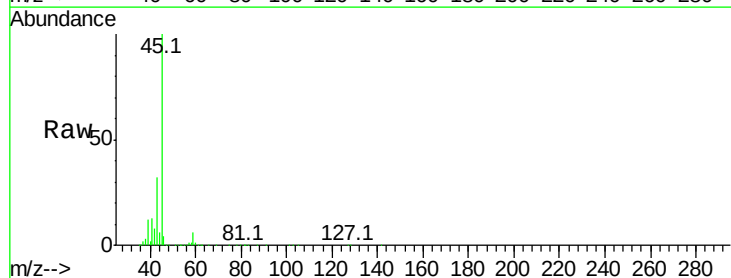
Acq: 23 Feb 2022 17:40

Tgt Ion: 45 Resp: 18201295

Ion Ratio Lower Upper

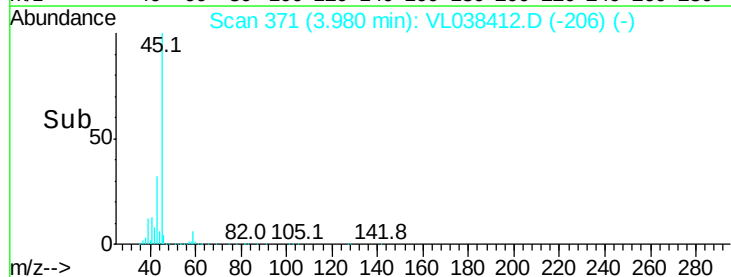
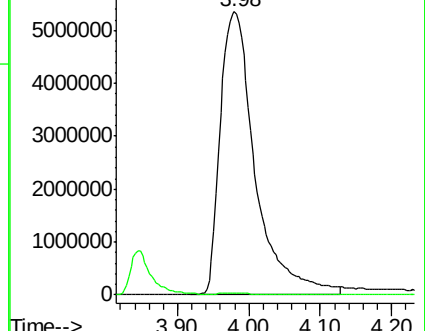
45 100

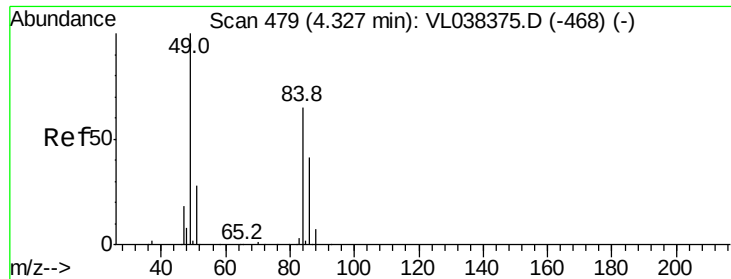
58 0.7 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20

Methylene Chloride

Concen: 6.54 ppbv

RT: 4.35

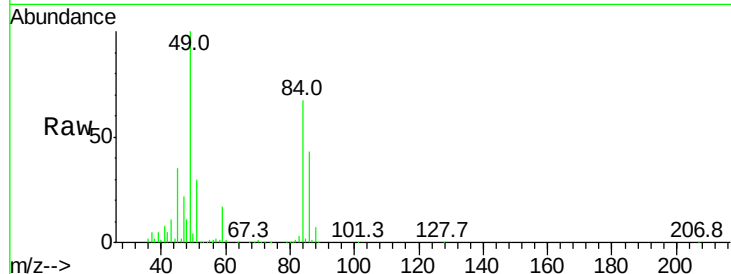
Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 23 Feb 2022 17:40

Tgt Ion: 84 Resp: 252441

Ion	Ratio	Lower	Upper
84	100		
49	149.4	122.4	183.6
51	42.9	33.3	49.9
86	65.0	50.7	76.1



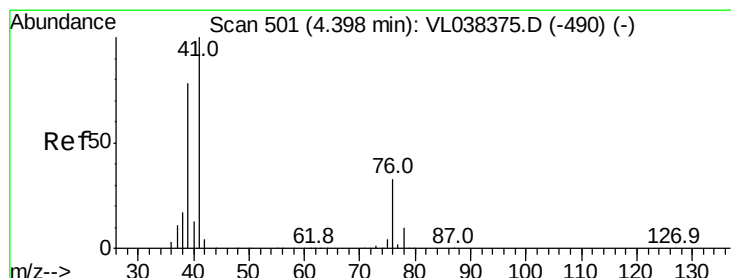
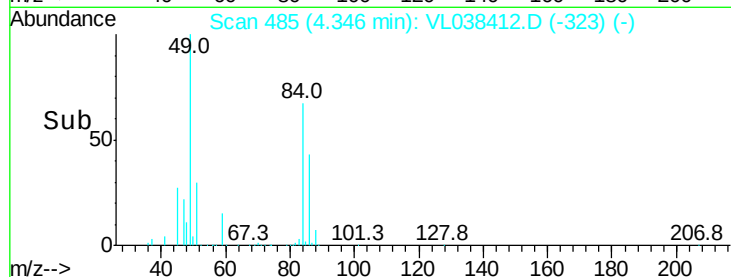
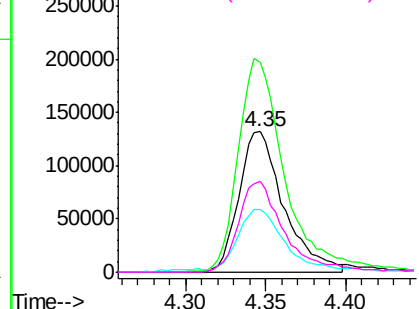
Abundance

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: 2.16 ppbv

RT: 4.30 min Scan# 470

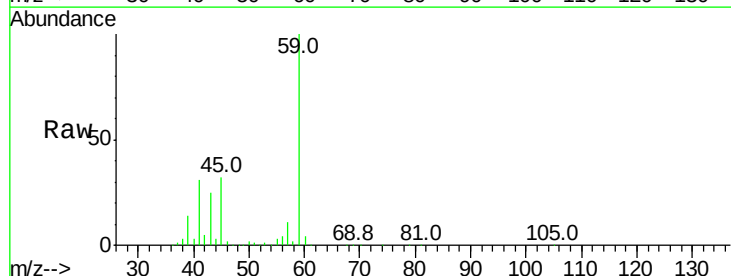
Delta R.T. -0.10 min

Lab File: VL038412.D

Acq: 23 Feb 2022 17:40

Tgt Ion: 41 Resp: 141935

Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.4	38.0#
39	56.3	63.0	94.6#

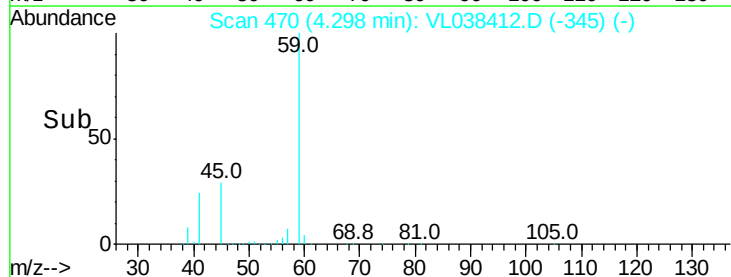
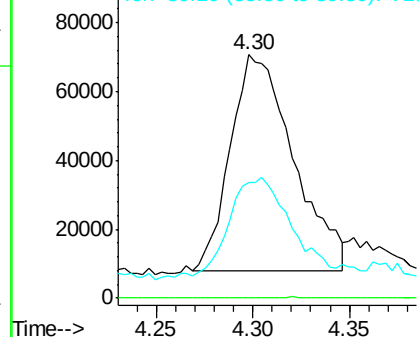


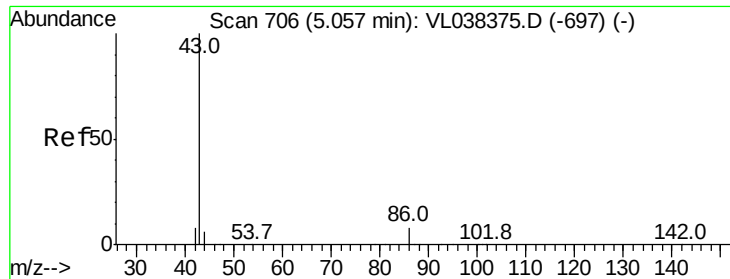
Abundance

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: 1.53 ppbv

RT: 5.06 Instrument: MSVOA_1

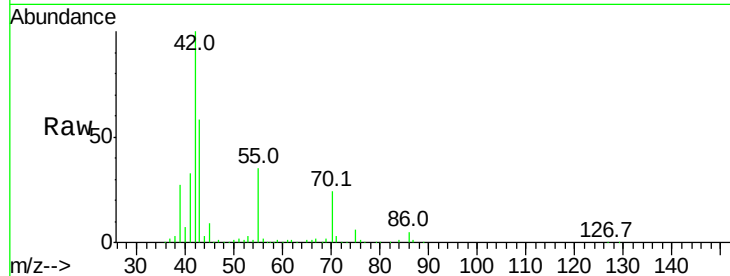
Delta R.T. ClientSampleId:

Lab File: MP-1

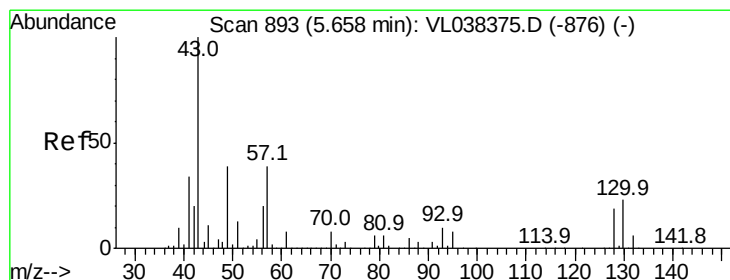
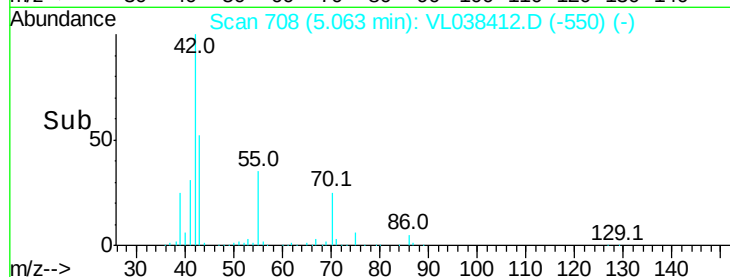
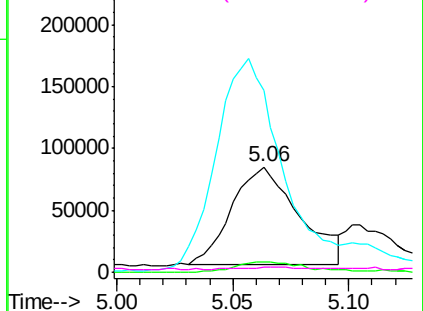
Acq: 23 Feb 2022 17:40

Tgt Ion: 43 Resp: 157478

Ion	Ratio	Lower	Upper
43	100		
86	10.0	5.8	8.6#
42	159.8	7.4	11.0#
44	3.0	4.2	6.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 86.10 (85.80 to 86.80): VL0
 Ion 42.10 (41.80 to 42.80): VL0
 Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.87 ppbv

RT: 5.68 min Scan# 901

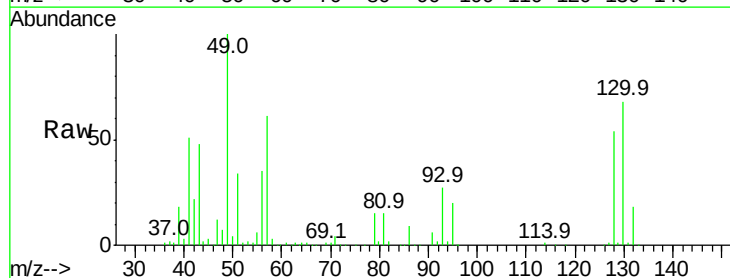
Delta R.T. 0.03 min

Lab File: VL038412.D

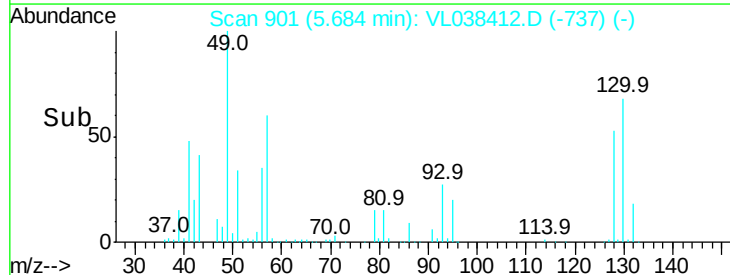
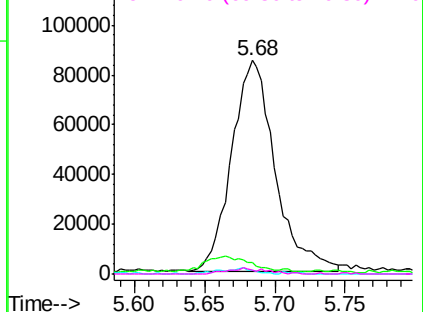
Acq: 23 Feb 2022 17:40

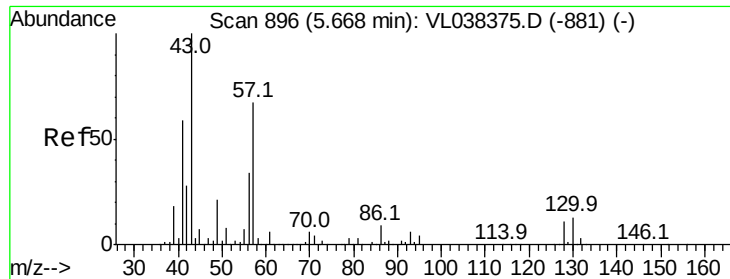
Tgt Ion: 43 Resp: 182731

Ion	Ratio	Lower	Upper
43	100		
45	8.2	7.8	11.6
61	2.4	7.5	11.3#
70	2.5	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: 2.34 ppbv

RT: 5.68

Delta R.T.

Lab File:

Acq: 23 Feb 2022 17:40

Instrument:

MSVOA_1

ClientSampleId:

MP-1

Tgt Ion: 57 Resp: 221560

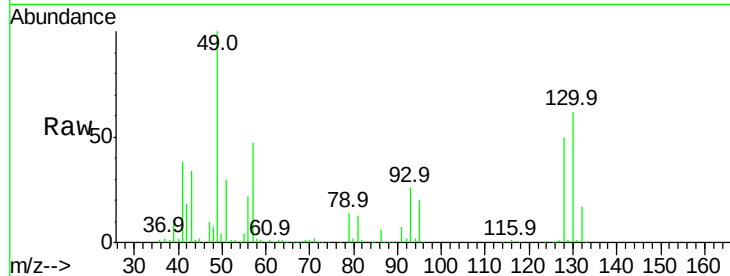
Ion Ratio Lower Upper

57 100

41 89.7 73.1 109.7

43 84.4 181.0 271.4#

56 53.1 43.4 65.0

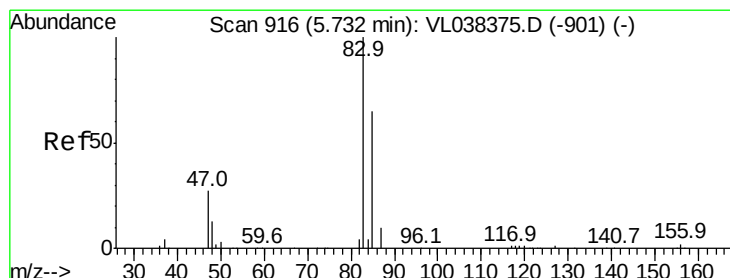
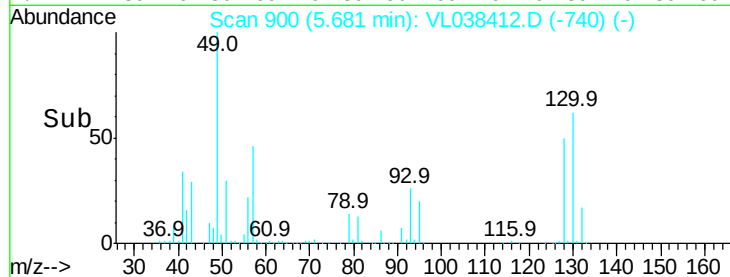
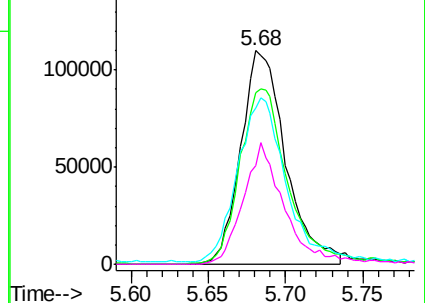


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.05 ppbv

RT: 5.75 min Scan# 923

Delta R.T. 0.02 min

Lab File: VL038412.D

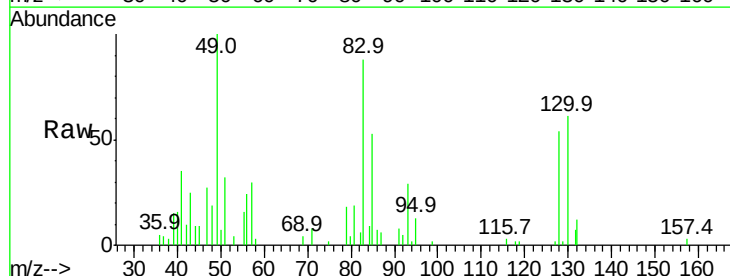
Acq: 23 Feb 2022 17:40

Tgt Ion: 83 Resp: 7138

Ion Ratio Lower Upper

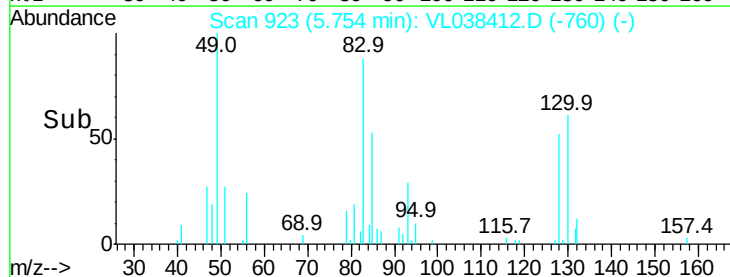
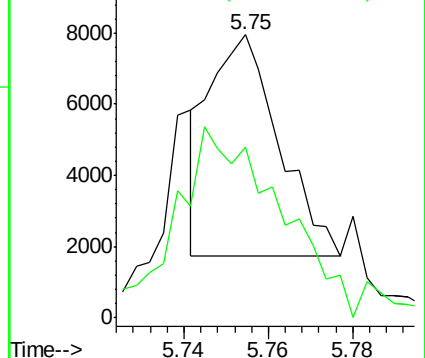
83 100

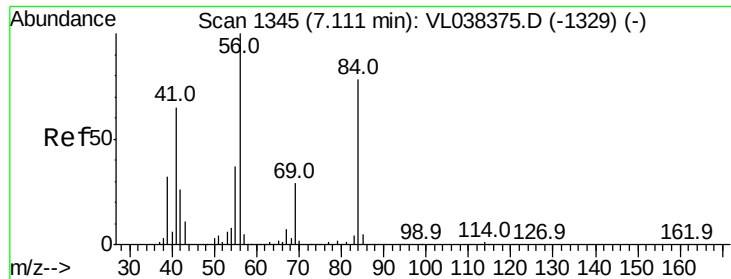
85 57.9 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

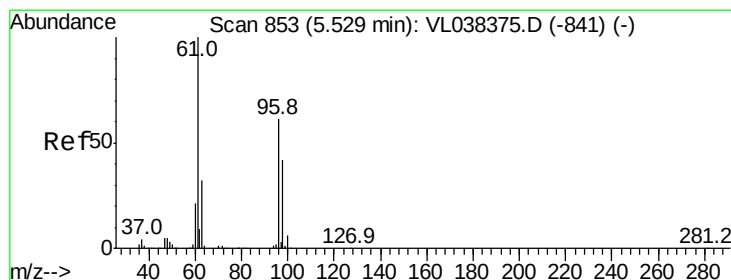
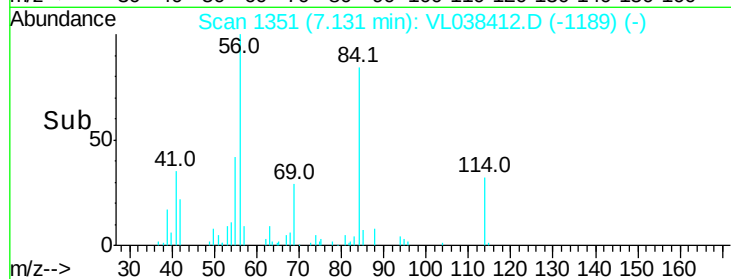
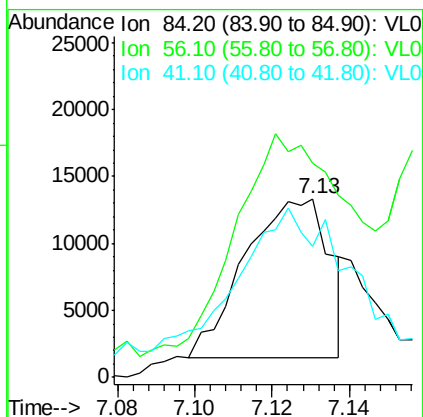
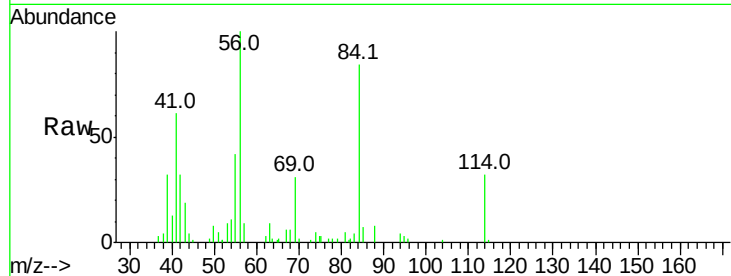
Ion 85.00 (84.70 to 85.70): VL0





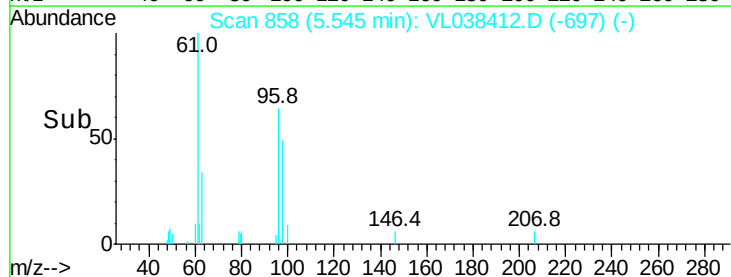
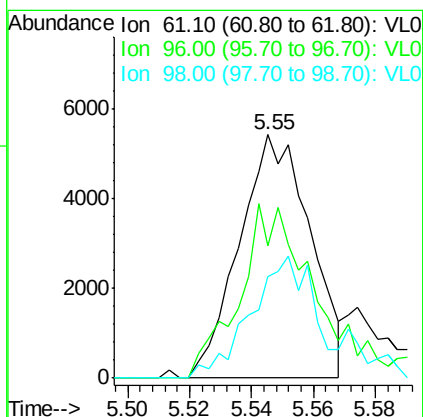
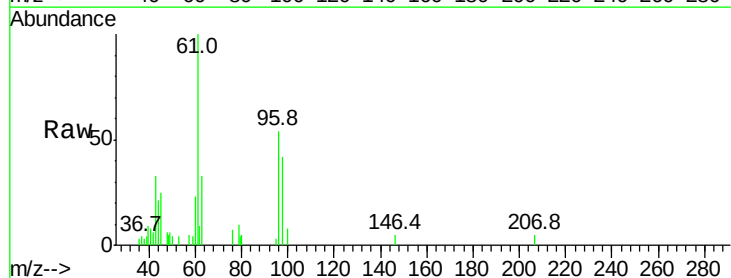
#30
Cyclohexane
Concen: 0.23 ppbv
RT: 7.13
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 23 Feb 2022 17:40

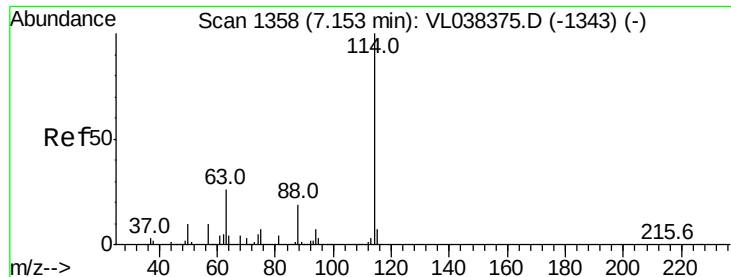
Tgt Ion: 84 Resp: 18066
Ion Ratio Lower Upper
84 100
56 204.0 116.2 174.4#
41 166.0 74.3 111.5#



#31
cis-1,2-Dichloroethene
Concen: 0.09 ppbv
RT: 5.55 min Scan# 858
Delta R.T. 0.02 min
Lab File: VL038412.D
Acq: 23 Feb 2022 17:40

Tgt Ion: 61 Resp: 8693
Ion Ratio Lower Upper
61 100
96 54.1 48.6 73.0
98 41.7 33.2 49.8

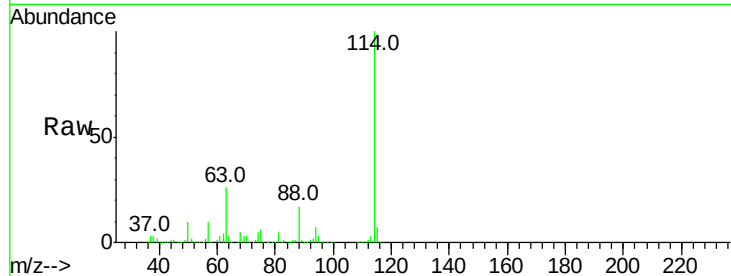




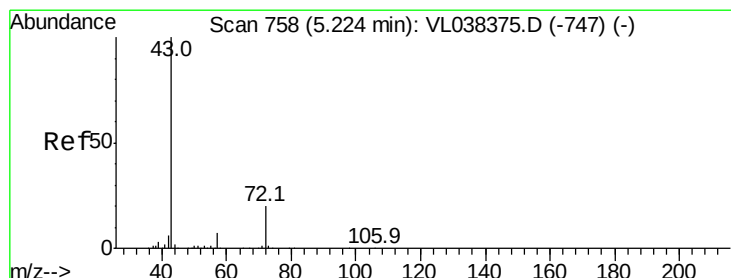
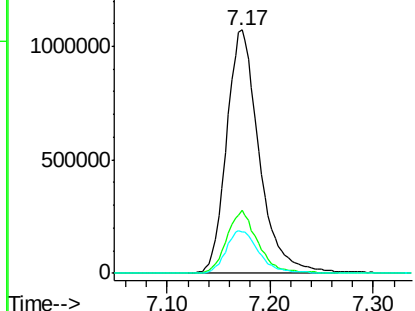
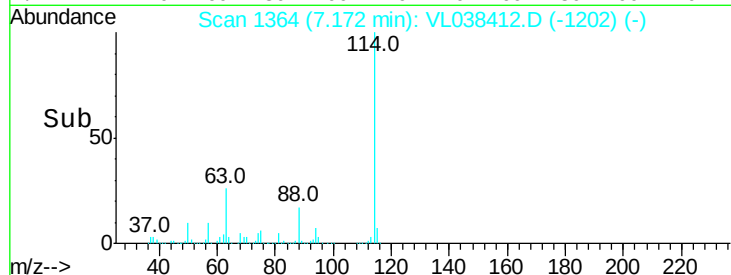
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Feb 2022 17:40

Tgt Ion: 114 Resp: 2361271

Ion	Ratio	Lower	Upper
114	100		
63	24.8	22.2	33.2
88	18.0	15.2	22.8



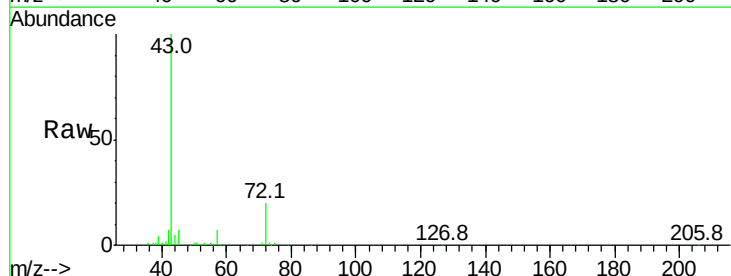
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



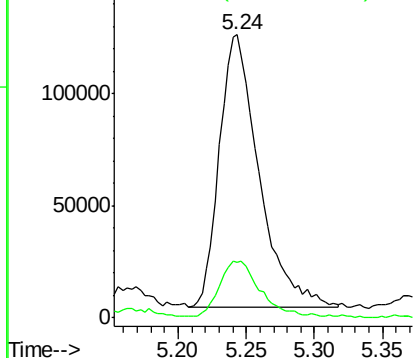
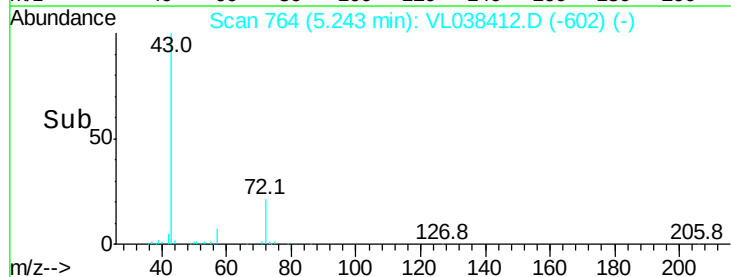
#34
 2-Butanone
 Concen: 3.28 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.02 min
 Lab File: VL038412.D
 Acq: 23 Feb 2022 17:40

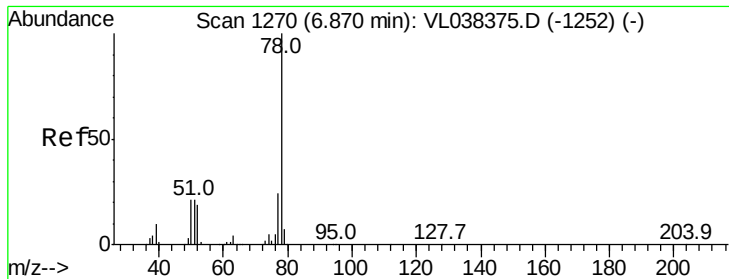
Tgt Ion: 43 Resp: 243813

Ion	Ratio	Lower	Upper
43	100		
72	23.0	17.4	26.2



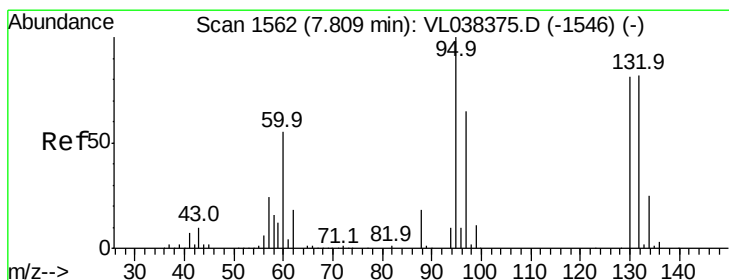
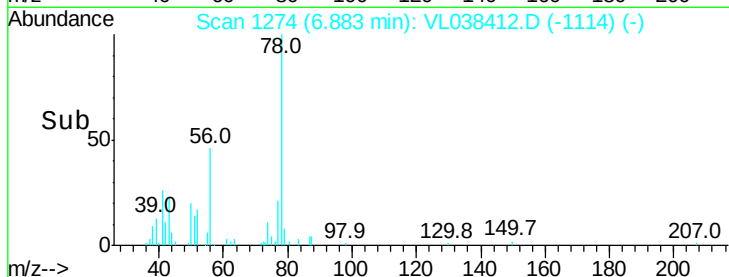
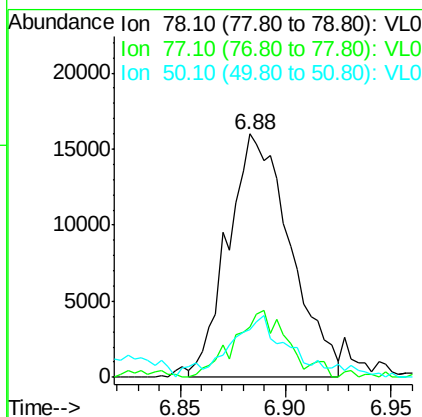
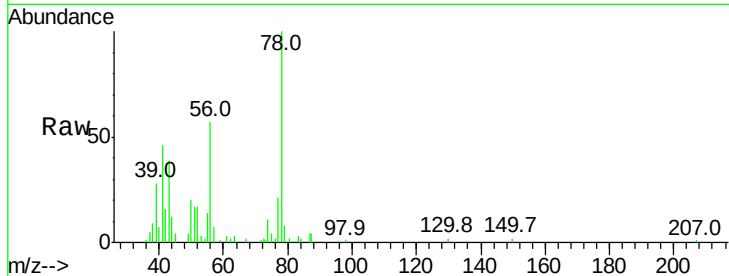
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





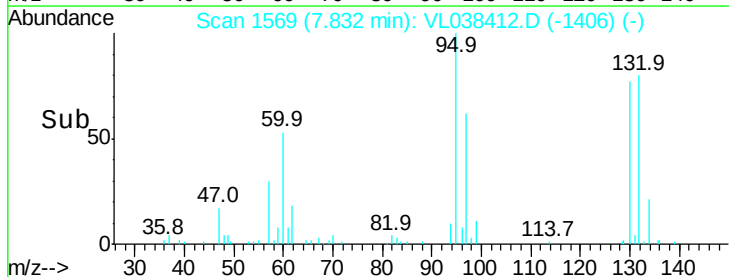
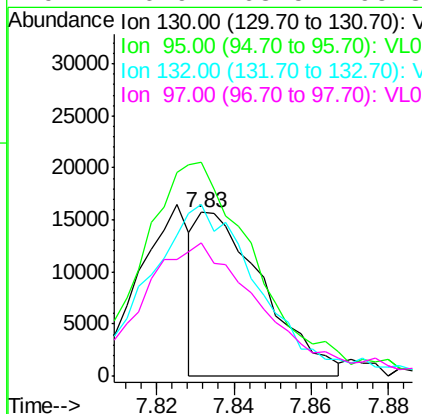
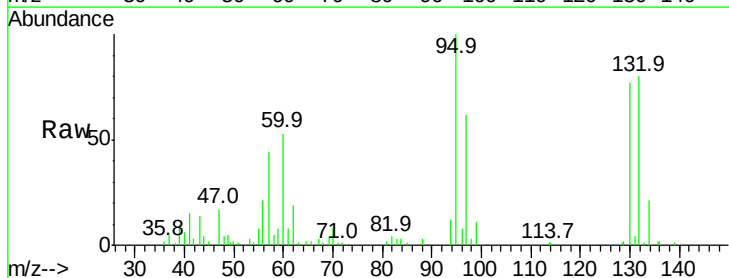
#36
Benzene
Concen: 0.16 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Feb 2022 17:40

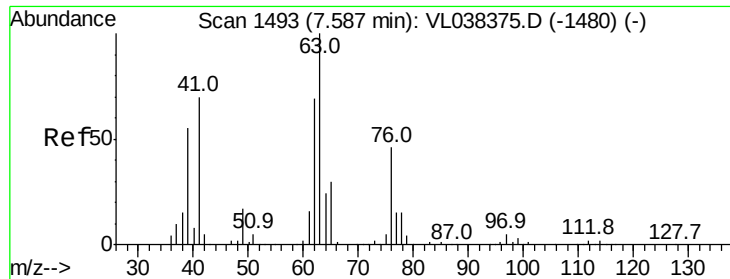
Tgt Ion: 78 Resp: 32828
Ion Ratio Lower Upper
78 100
77 21.3 19.0 28.6
50 15.7 16.6 24.8#



#38
Trichloroethene
Concen: 0.25 ppbv
RT: 7.83 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VL038412.D
Acq: 23 Feb 2022 17:40

Tgt Ion:130 Resp: 18885
Ion Ratio Lower Upper
130 100
95 125.5 98.1 147.1
132 103.0 80.3 120.5
97 76.9 63.5 95.3





#39

1,2-Dichloropropane

Concen: 6.90 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 23 Feb 2022 17:40 MP-1

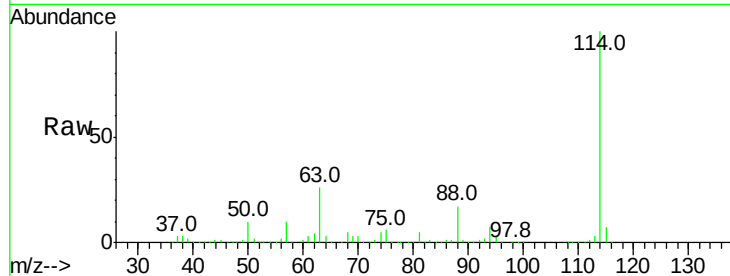
Tgt Ion: 63 Resp: 570961

Ion Ratio Lower Upper

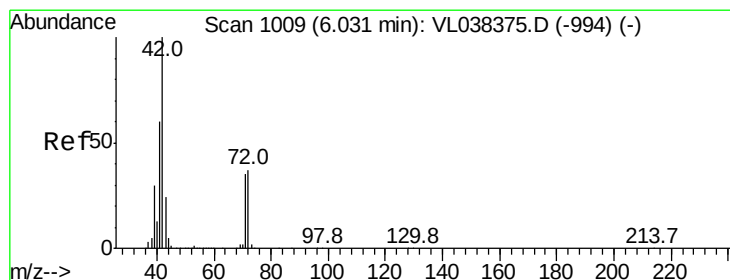
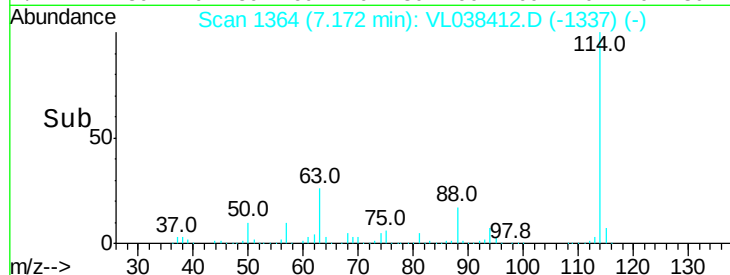
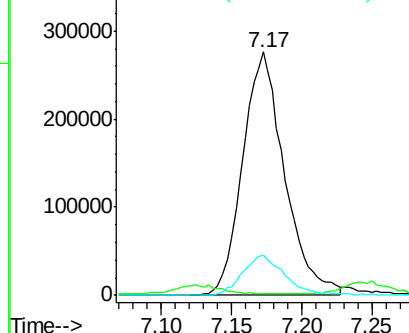
63 100

41 0.0 56.1 84.1#

62 16.7 55.5 83.3#



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



#41

Tetrahydrofuran

Concen: 0.16 ppbv

RT: 6.05 min Scan# 1016

Delta R.T. 0.02 min

Lab File: VL038412.D

Acq: 23 Feb 2022 17:40

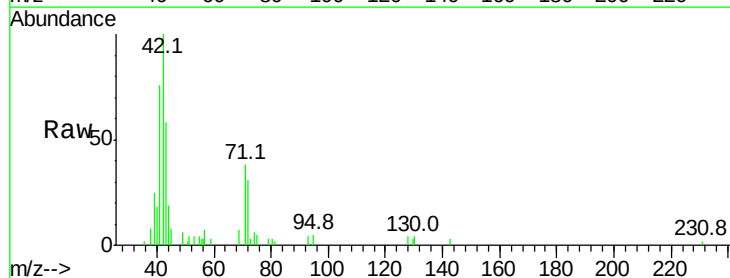
Tgt Ion: 42 Resp: 8125

Ion Ratio Lower Upper

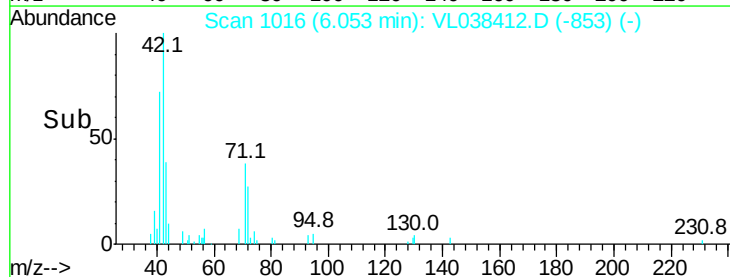
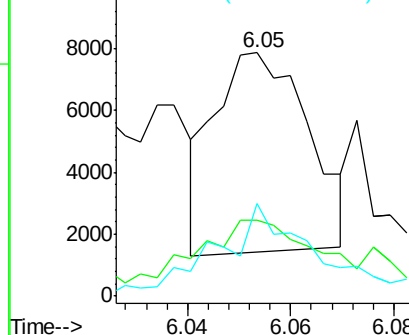
42 100

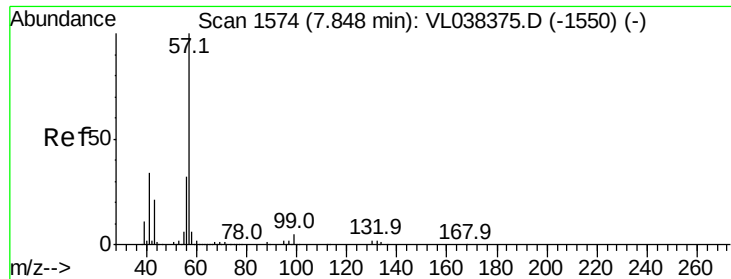
72 72.8 29.9 44.9#

71 55.8 28.6 42.8#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.52 ppbv

RT: 7.87 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 23 Feb 2022 17:40 MP-1

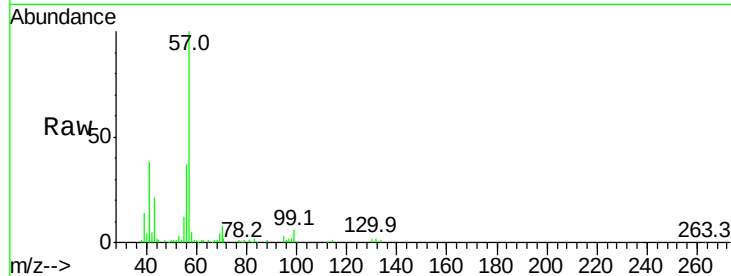
Tgt Ion: 57 Resp: 186695

Ion Ratio Lower Upper

57 100

41 38.3 26.6 39.8

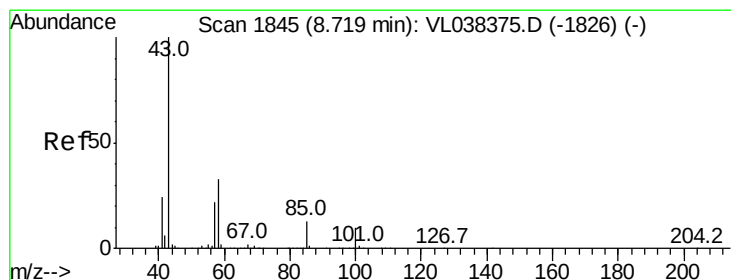
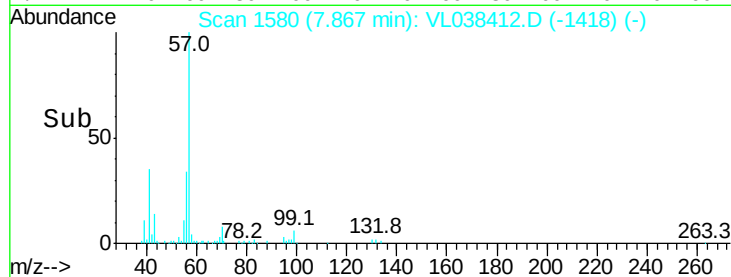
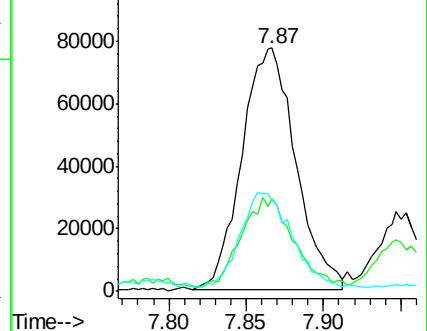
56 41.7 25.0 37.6#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.32 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. 0.02 min

Lab File: VL038412.D

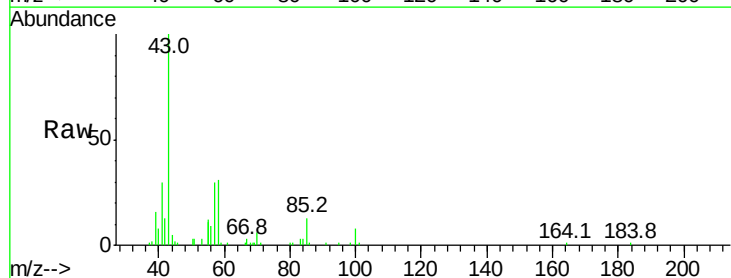
Acq: 23 Feb 2022 17:40

Tgt Ion: 43 Resp: 42664

Ion Ratio Lower Upper

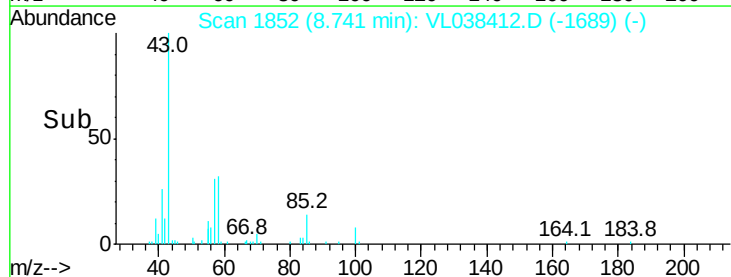
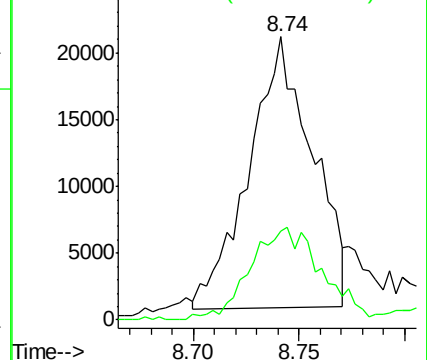
43 100

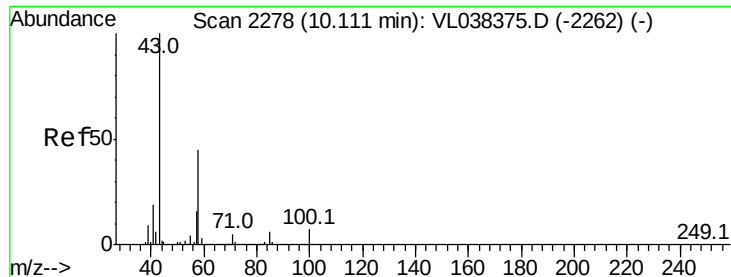
58 41.4 27.7 41.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

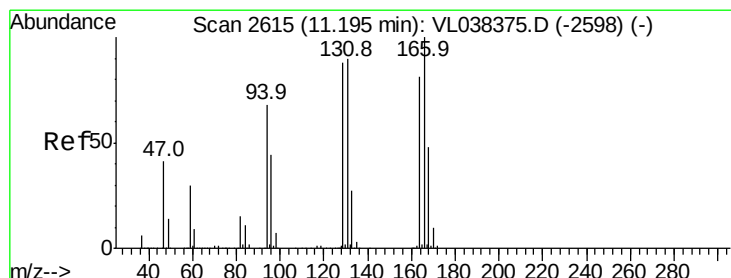
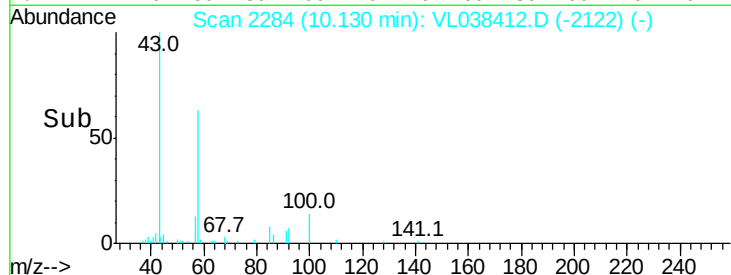
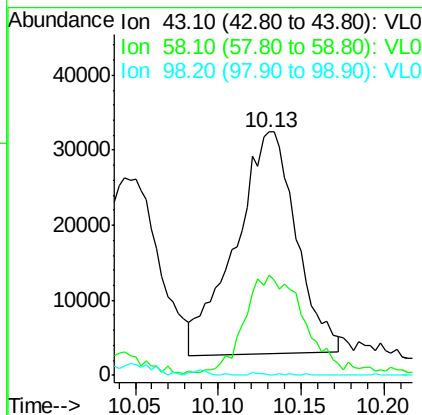
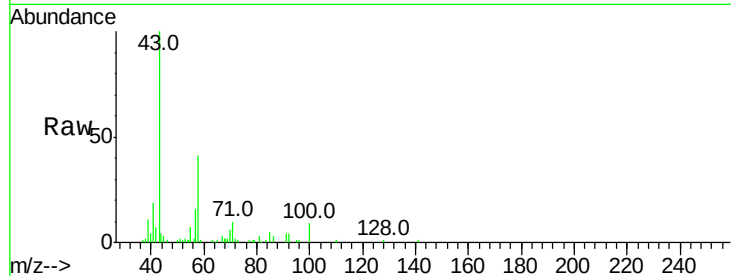
Ion 58.10 (57.80 to 58.80): VL0





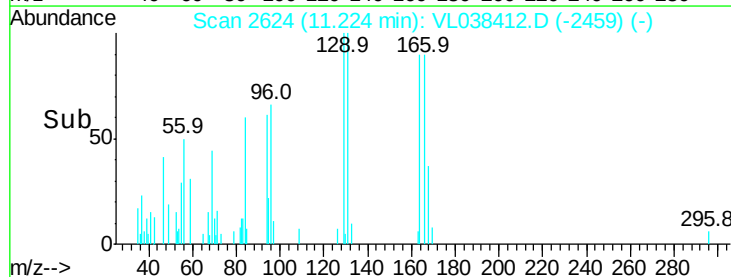
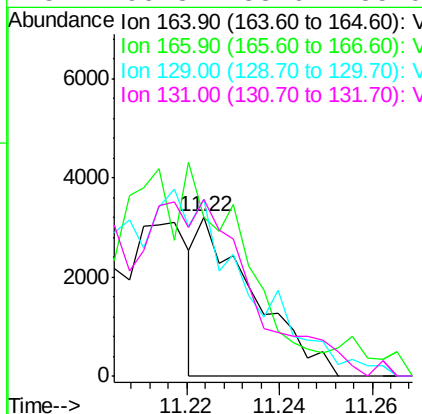
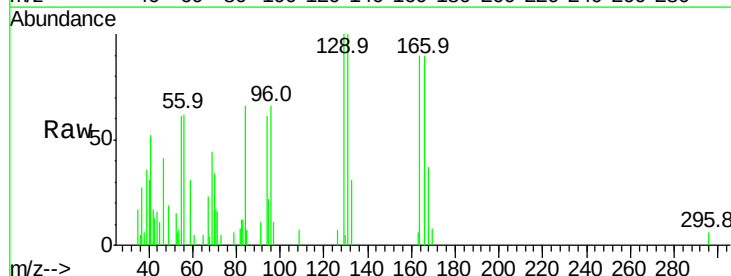
#51
 2-Hexanone
 Concen: 1.29 ppbv
 RT: 10.13 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Feb 2022 17:40

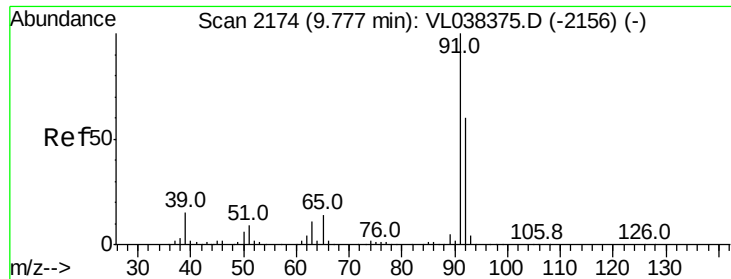
Tgt Ion: 43 Resp: 75726
 Ion Ratio Lower Upper
 43 100
 58 45.9 37.4 56.0
 98 0.0 0.1 0.1#



#52
 Tetrachloroethene
 Concen: 0.04 ppbv
 RT: 11.22 min Scan# 2624
 Delta R.T. 0.03 min
 Lab File: VL038412.D
 Acq: 23 Feb 2022 17:40

Tgt Ion: 164 Resp: 2706
 Ion Ratio Lower Upper
 164 100
 166 81.7 98.6 148.0#
 129 109.0 86.9 130.3
 131 95.8 88.6 133.0





#53

Toluene

Concen: 11.63 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

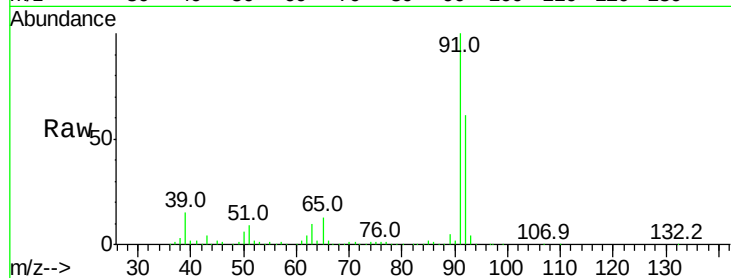
Acq: 23 Feb 2022 17:40 MP-1

Tgt Ion: 91 Resp: 2623890

Ion Ratio Lower Upper

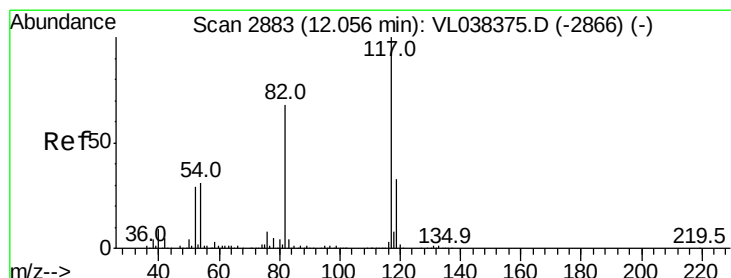
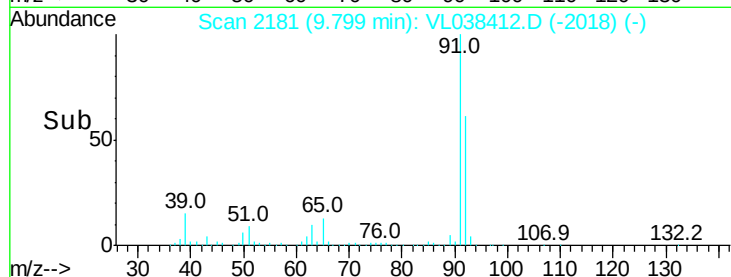
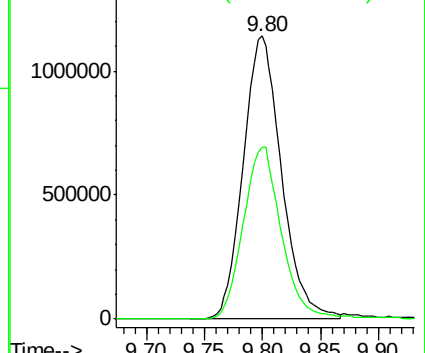
91 100

92 61.2 48.2 72.4



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: 12.08 min Scan# 2890

Delta R.T. 0.02 min

Lab File: VL038412.D

Acq: 23 Feb 2022 17:40

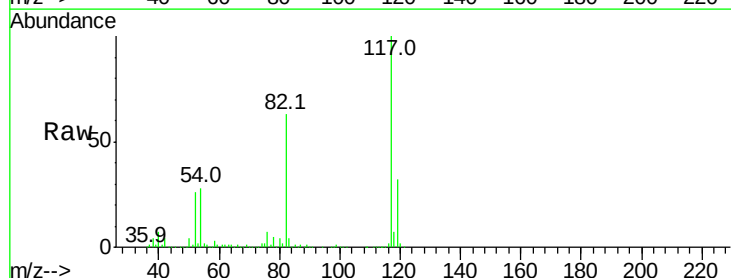
Tgt Ion: 117 Resp: 2072292

Ion Ratio Lower Upper

117 100

82 63.1 54.9 82.3

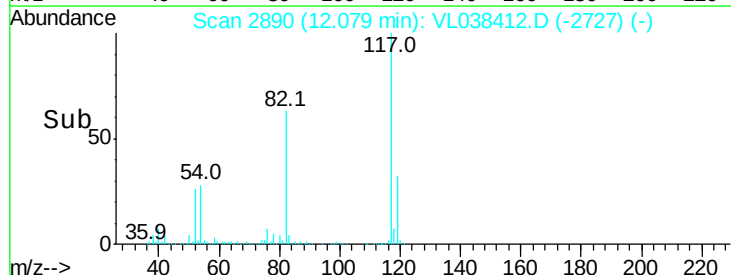
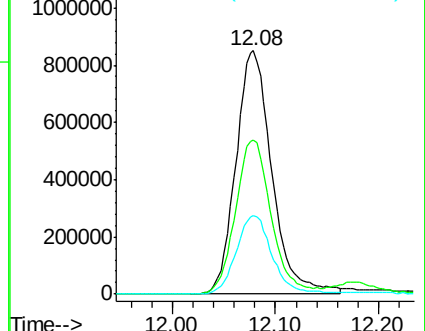
119 33.5 46.1 69.1#

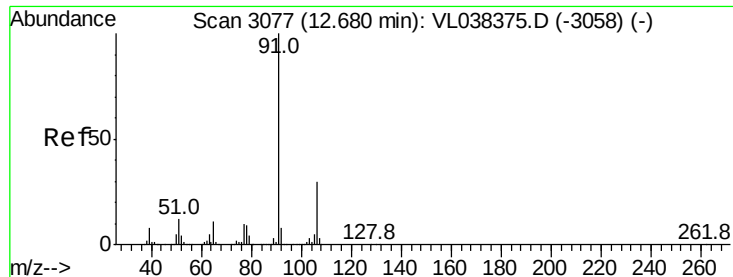


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.86 ppbv

RT: 12.70

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

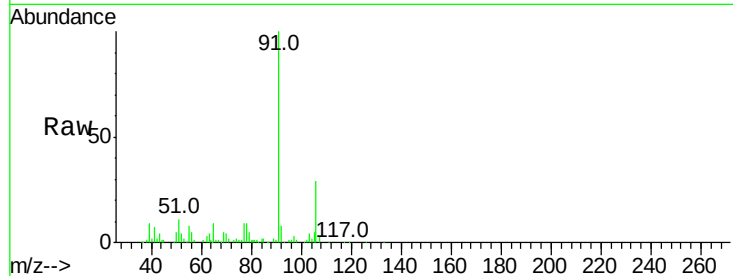
Acq: 23 Feb 2022 17:40

Tgt Ion: 91 Resp: 244868

Ion Ratio Lower Upper

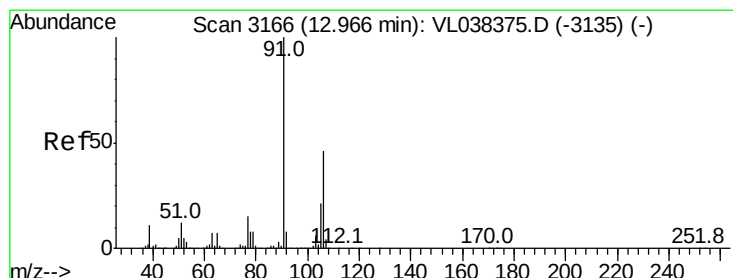
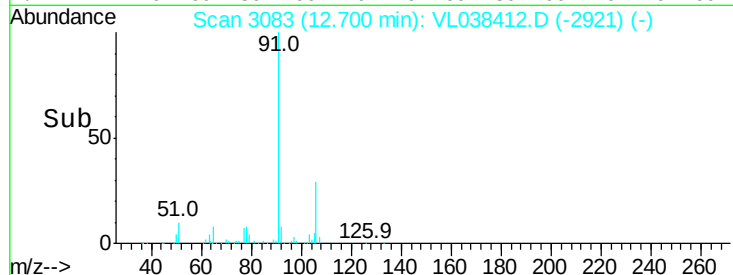
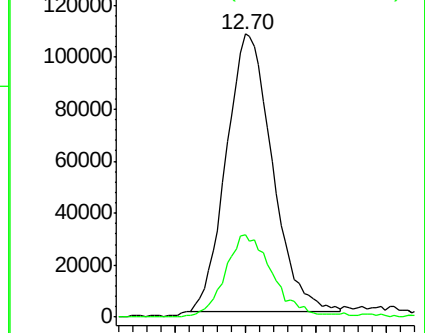
91 100

106 28.8 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 3.25 ppbv

RT: 12.96 min Scan# 3164

Delta R.T. -0.01 min

Lab File: VL038412.D

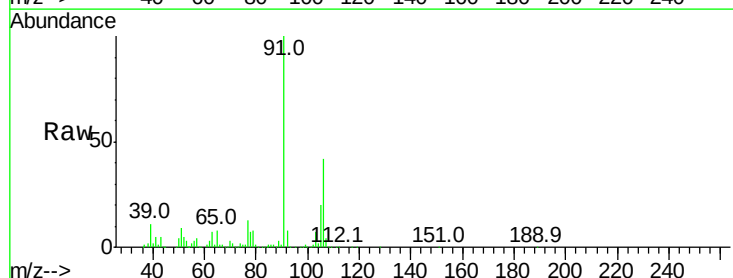
Acq: 23 Feb 2022 17:40

Tgt Ion: 91 Resp: 790246

Ion Ratio Lower Upper

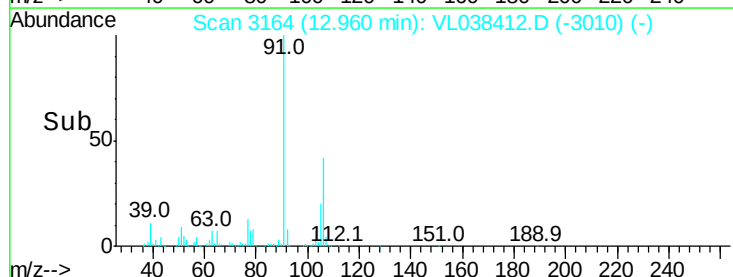
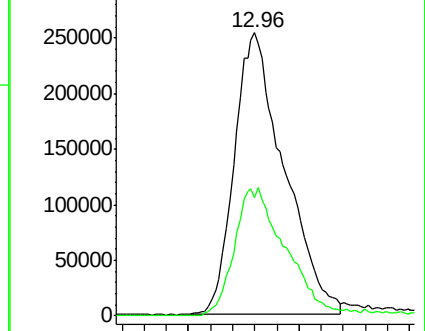
91 100

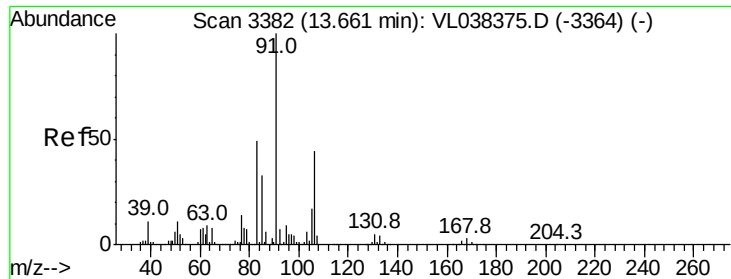
106 47.8 34.4 51.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

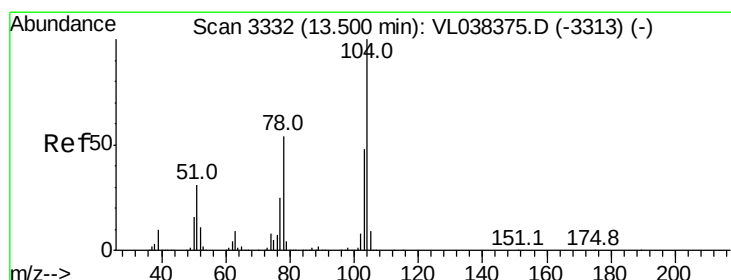
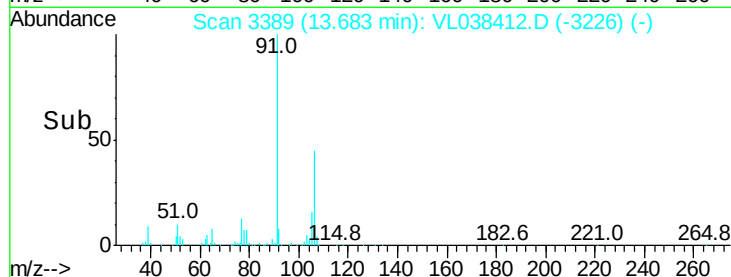
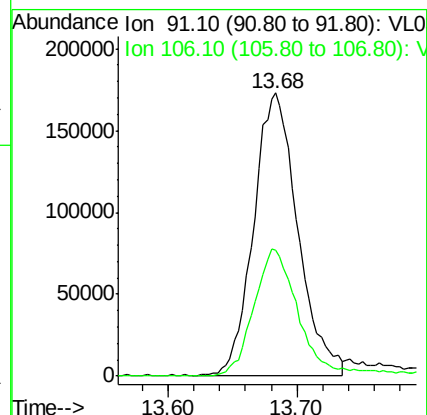
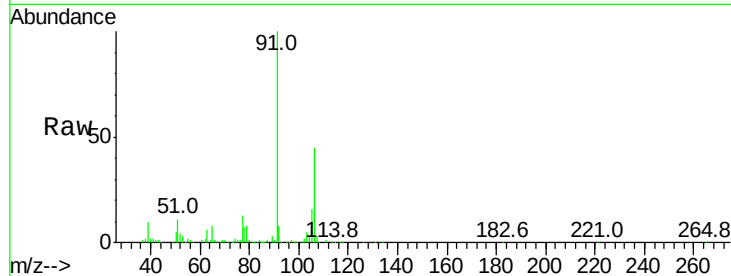
Ion 106.10 (105.80 to 106.80): V





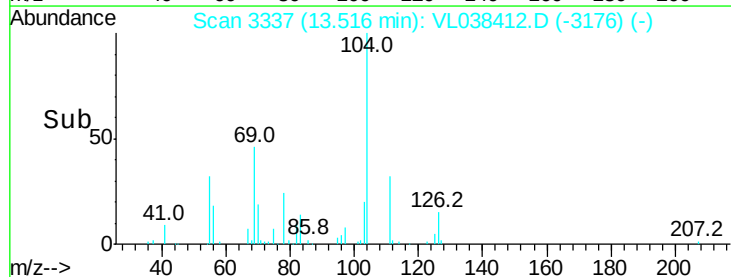
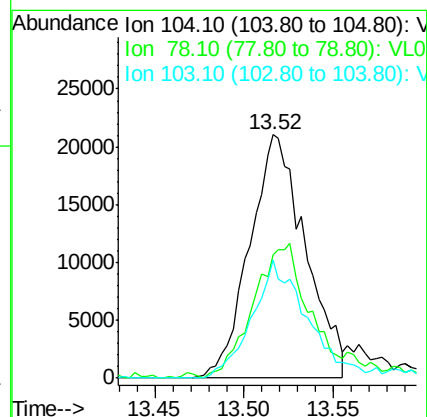
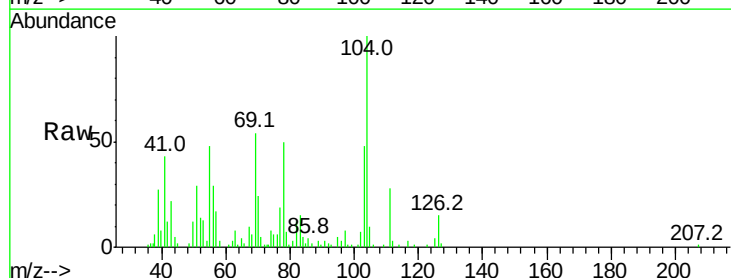
#60
o-Xylene
Concen: 1.78 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 23 Feb 2022 17:40

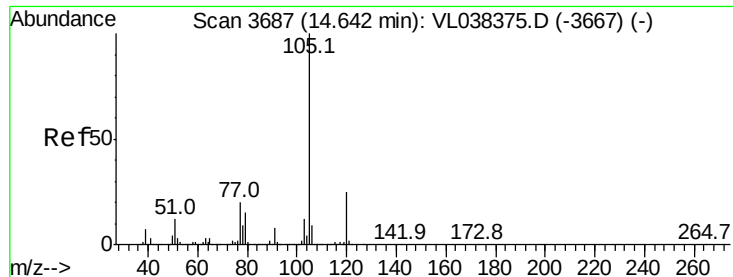
Tgt Ion: 91 Resp: 408864
Ion Ratio Lower Upper
91 100
106 48.6 21.9 65.5



#61
Styrene
Concen: 0.43 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. 0.02 min
Lab File: VL038412.D
Acq: 23 Feb 2022 17:40

Tgt Ion: 104 Resp: 45926
Ion Ratio Lower Upper
104 100
78 58.8 44.2 66.4
103 51.3 38.4 57.6





#62

Isopropylbenzene

Concen: 0.38 ppbv

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

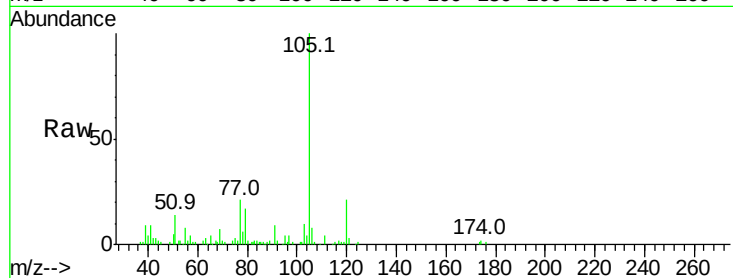
Acq: 23 Feb 2022 17:40

Tgt Ion:105 Resp: 116953

Ion Ratio Lower Upper

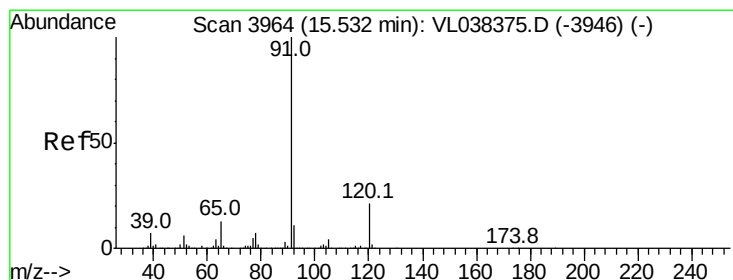
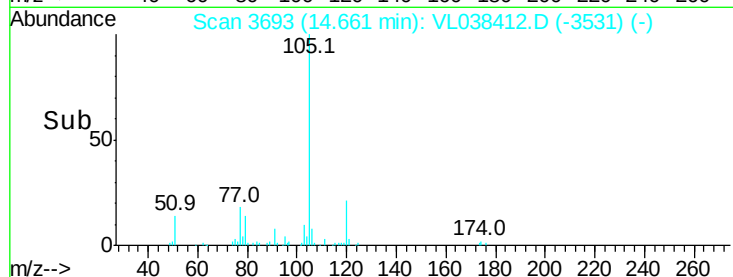
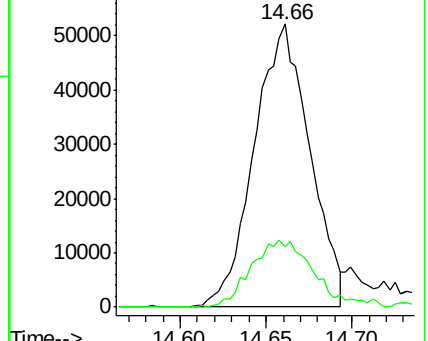
105 100

120 26.8 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.95 ppbv

RT: 15.55 min Scan# 3971

Delta R.T. 0.02 min

Lab File: VL038412.D

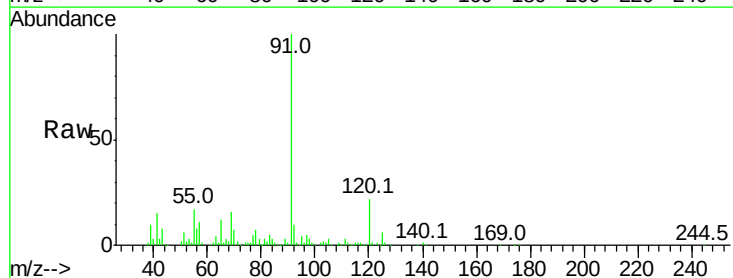
Acq: 23 Feb 2022 17:40

Tgt Ion:120 Resp: 72412

Ion Ratio Lower Upper

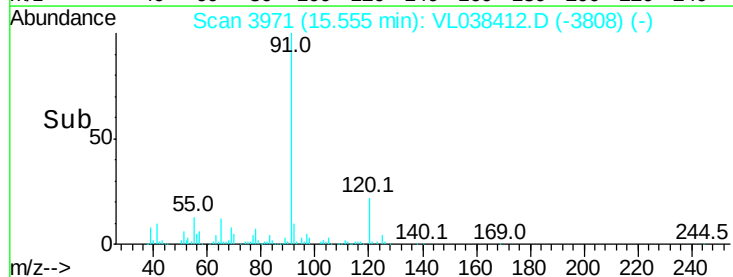
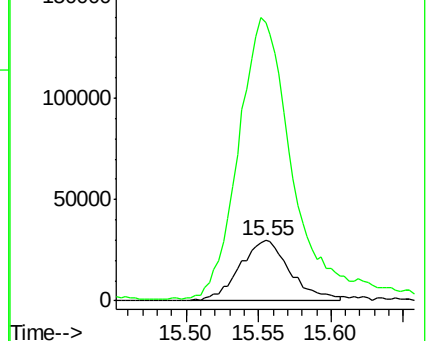
120 100

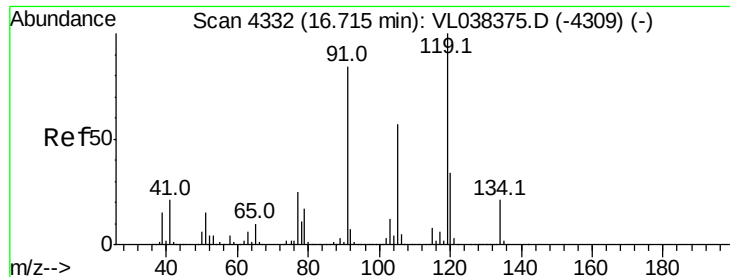
91 511.0 388.1 582.1



Abundance Ion 120.20 (119.90 to 120.90): V

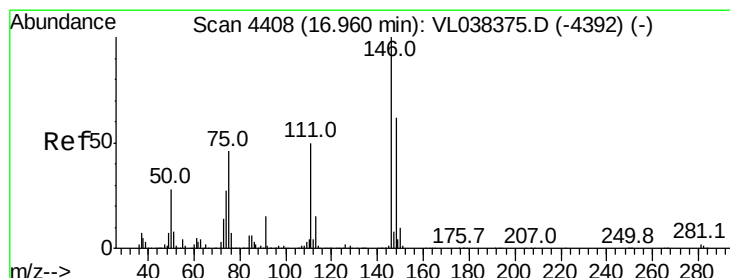
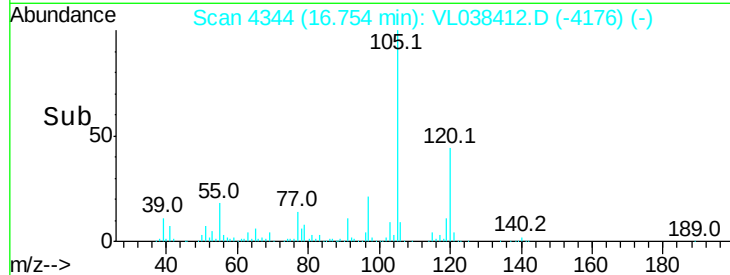
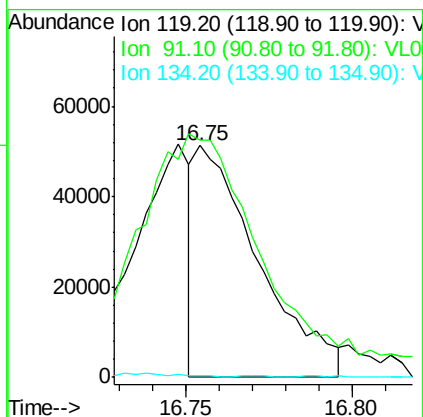
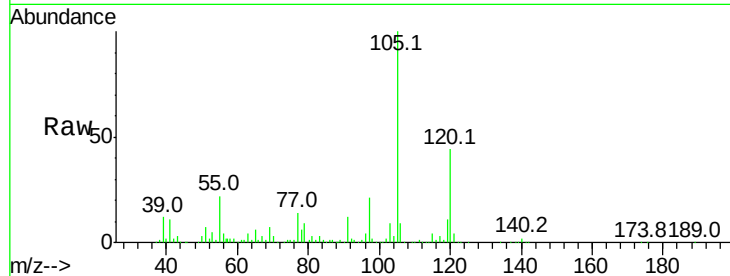
Ion 91.10 (90.80 to 91.80): VL0





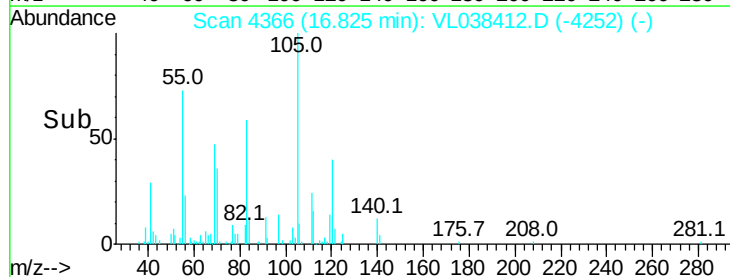
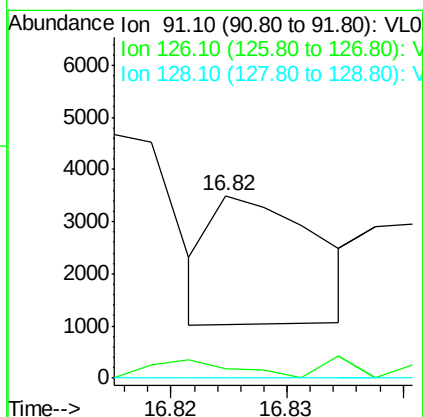
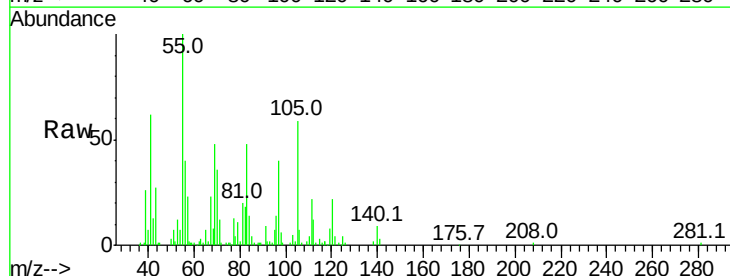
#65
 tert-Butylbenzene
 Concen: 0.25 ppbv
 RT: 16.75 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 23 Feb 2022 17:40

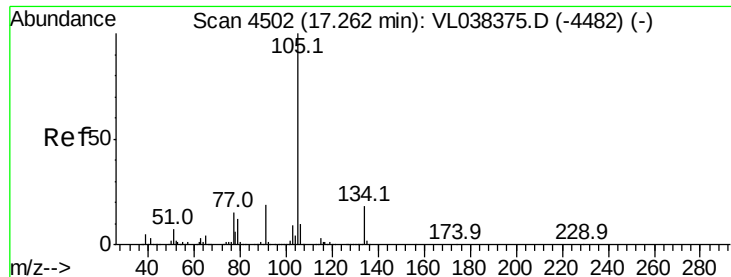
Tgt Ion: 119 Resp: 67869
 Ion Ratio Lower Upper
 119 100
 91 215.3 68.0 102.0#
 134 0.0 15.8 23.8#



#66
 Benzyl Chloride
 Concen: 0.11 ppbv
 RT: 16.82 min Scan# 4366
 Delta R.T. -0.14 min
 Lab File: VL038412.D
 Acq: 23 Feb 2022 17:40

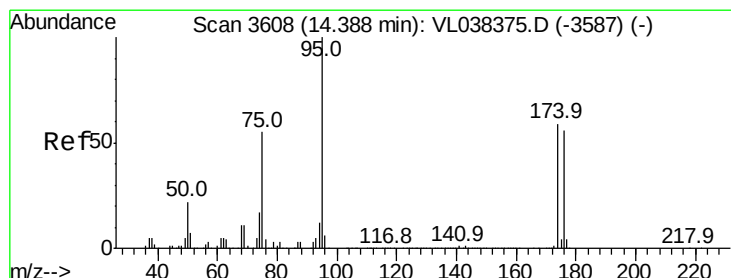
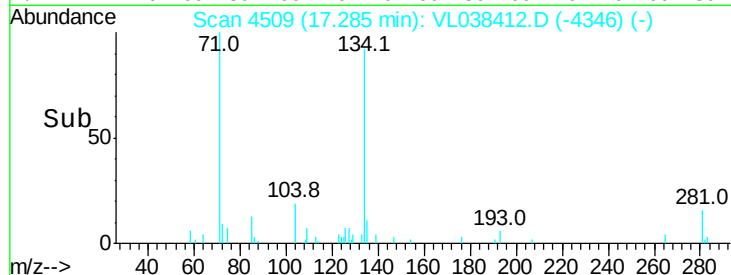
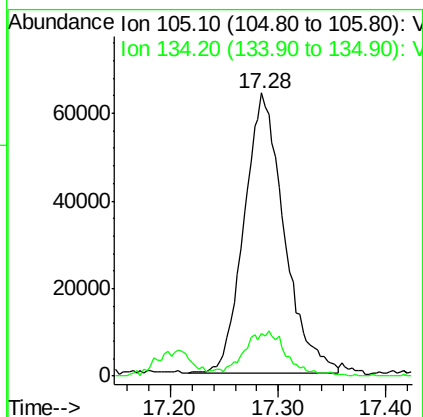
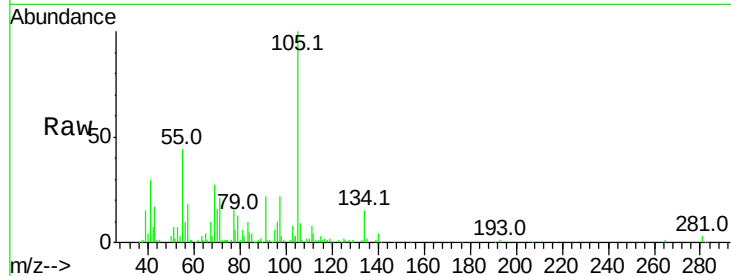
Tgt Ion: 91 Resp: 1556
 Ion Ratio Lower Upper
 91 100
 126 67.9 12.3 18.5#
 128 0.0 4.2 6.4#





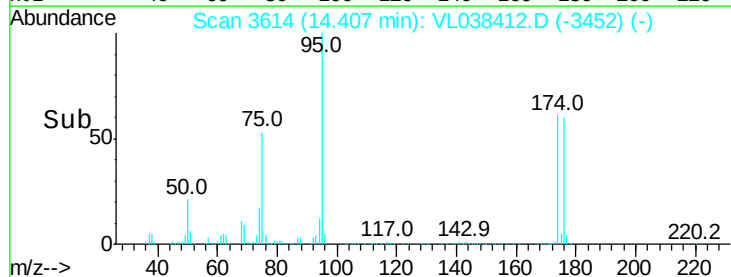
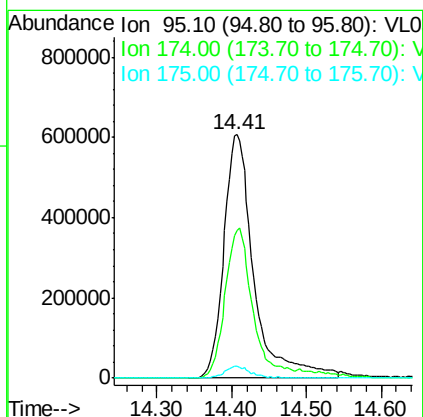
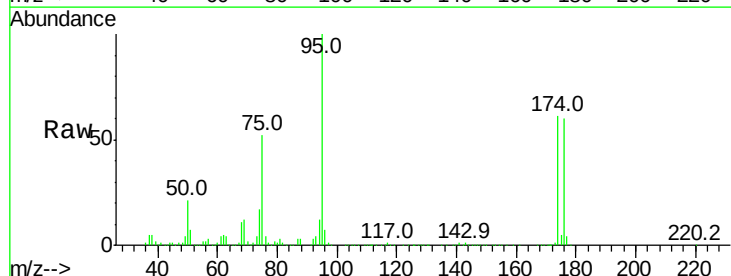
#67
 sec-Butylbenzene
 Concen: 0.44 ppbv
 RT: 17.28
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 MP-1
 Acq: 23 Feb 2022 17:40

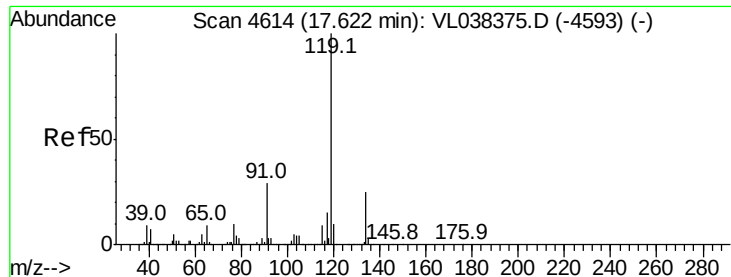
Tgt Ion: 105 Resp: 165236
 Ion Ratio Lower Upper
 105 100
 134 17.8 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.76 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T.: 0.02 min
 Lab File: VL038412.D
 Acq: 23 Feb 2022 17:40

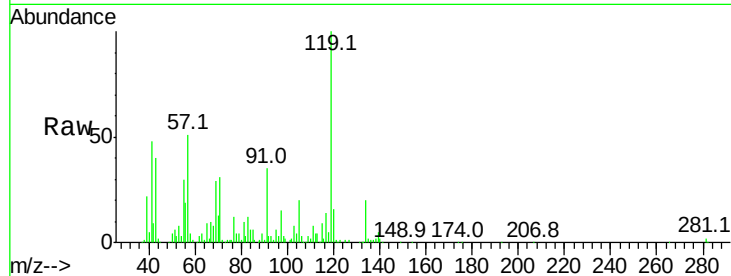
Tgt Ion: 95 Resp: 1673106
 Ion Ratio Lower Upper
 95 100
 174 61.2 49.0 73.4
 175 4.5 3.6 5.4



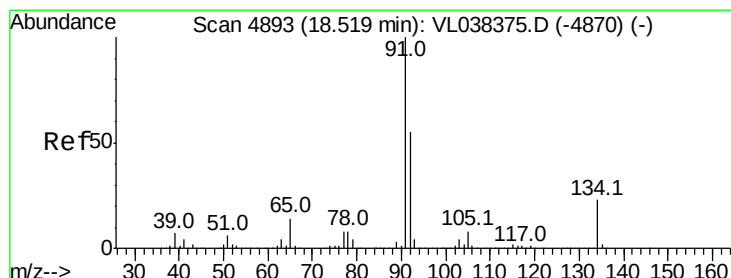
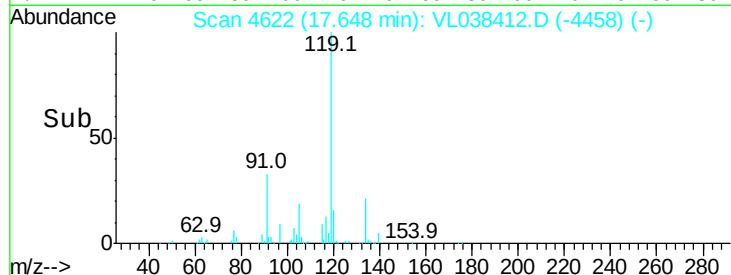
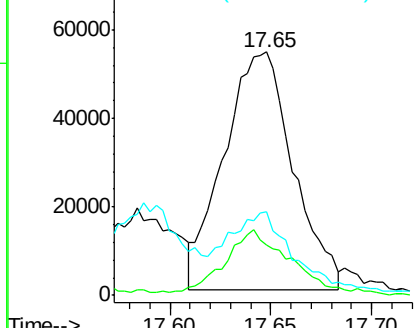


#69
 p-Isopropyltoluene
 Concen: 0.43 ppbv
 RT: 17.65
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MP-1
 Acq: 23 Feb 2022 17:40

Tgt Ion:	119	Resp:	129100
Ion	Ratio	Lower	Upper
119	100		
134	27.1	20.4	30.6
91	34.5	23.8	35.8

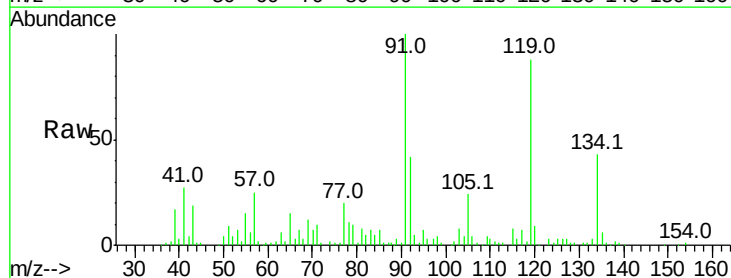


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

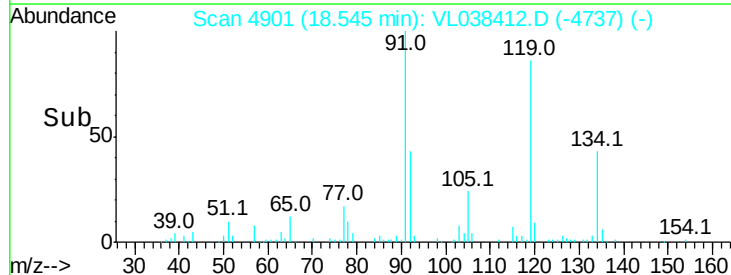
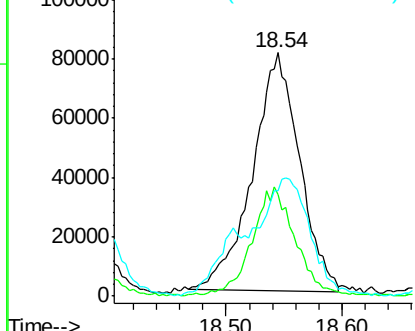


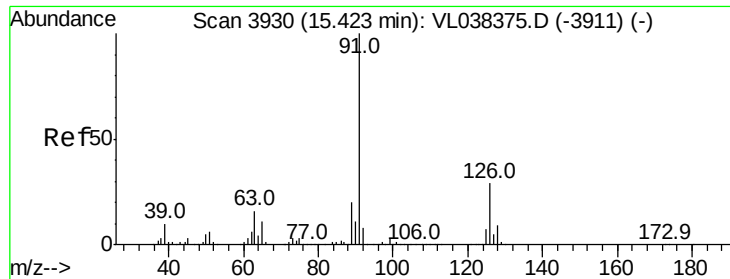
#70
 n-Butylbenzene
 Concen: 0.74 ppbv
 RT: 18.54 min Scan# 4901
 Delta R.T. 0.03 min
 Lab File: VL038412.D
 Acq: 23 Feb 2022 17:40

Tgt Ion:	91	Resp:	227527
Ion	Ratio	Lower	Upper
91	100		
92	42.5	43.1	64.7#
134	68.1	17.4	26.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 1.48 ppbv

RT: 15.55

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

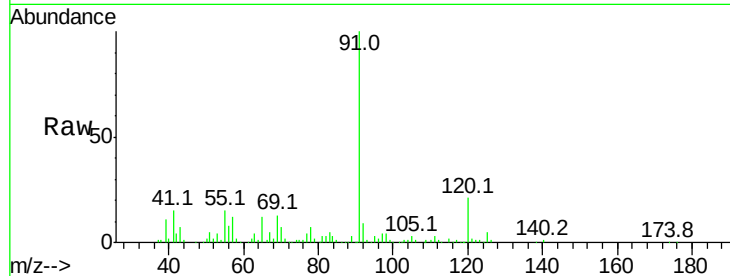
Acq: 23 Feb 2022 17:40

Tgt Ion: 91 Resp: 351888

Ion Ratio Lower Upper

91 100

126 1.6 11.9 47.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

15.55

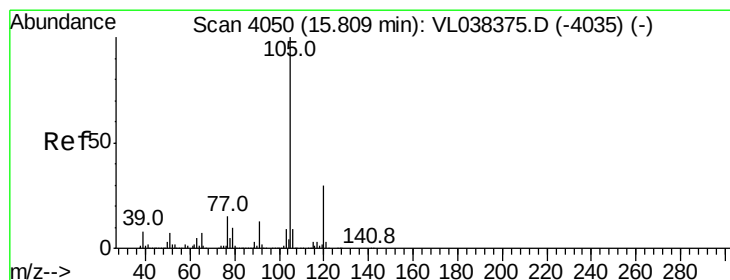
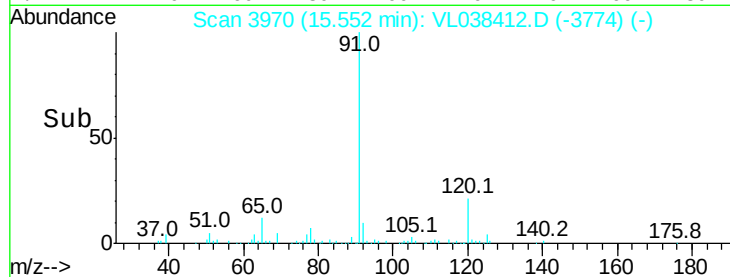
150000

100000

50000

0

Time-->



#72

4-Ethyltoluene

Concen: 1.43 ppbv

RT: 15.83 min Scan# 4056

Delta R.T. 0.02 min

Lab File: VL038412.D

Acq: 23 Feb 2022 17:40

Tgt Ion: 105 Resp: 362203

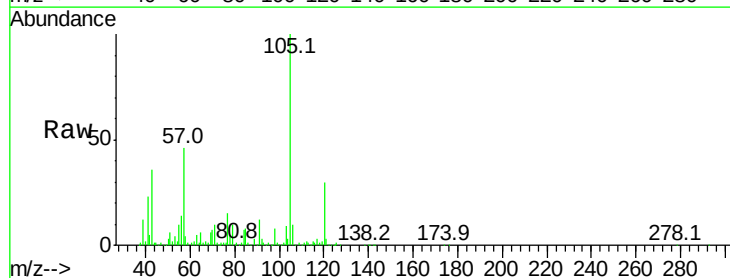
Ion Ratio Lower Upper

105 100

120 35.2 23.4 35.2#

91 14.9 10.4 15.6

77 15.7 11.6 17.4



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

400000

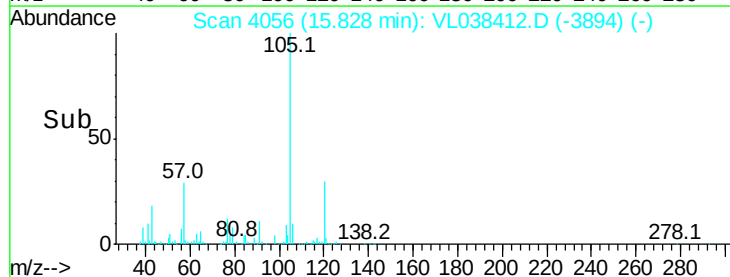
300000

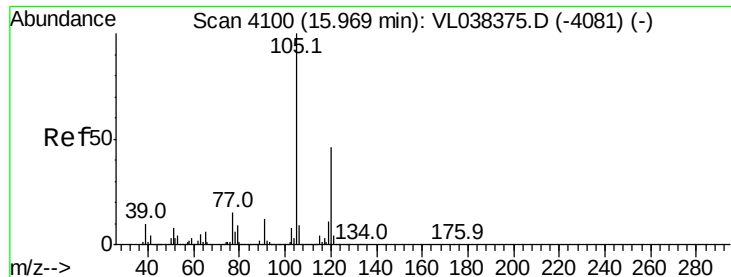
200000

100000

0

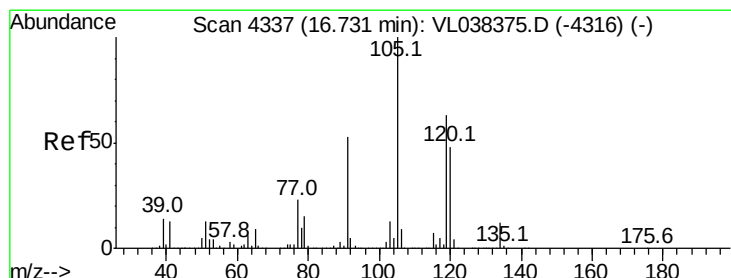
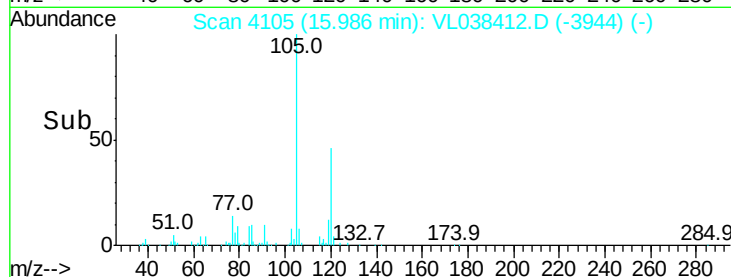
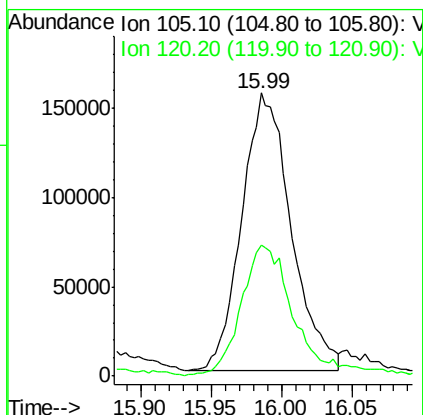
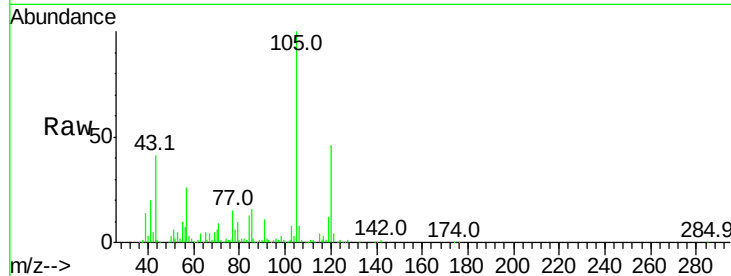
Time-->





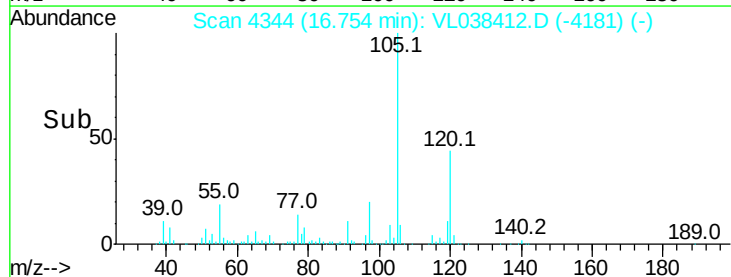
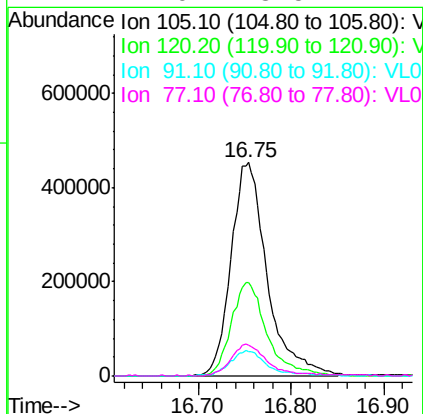
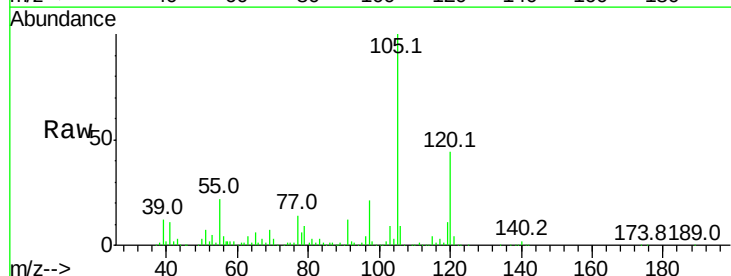
#73
 1,3,5-Trimethylbenzene
 Concen: 1.66 ppbv
 RT: 15.99
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MP-1
 Acq: 23 Feb 2022 17:40

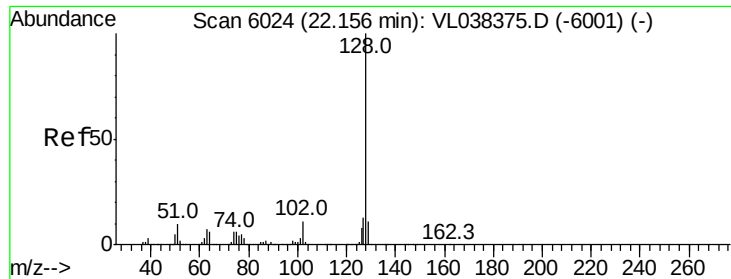
Tgt Ion:105 Resp: 381222
 Ion Ratio Lower Upper
 105 100
 120 46.6 36.6 55.0



#74
 1,2,4-Trimethylbenzene
 Concen: 5.01 ppbv
 RT: 16.75 min Scan# 4344
 Delta R.T. 0.02 min
 Lab File: VL038412.D
 Acq: 23 Feb 2022 17:40

Tgt Ion:105 Resp: 1217444
 Ion Ratio Lower Upper
 105 100
 120 43.9 38.2 57.4
 91 11.4 42.7 64.1#
 77 14.0 18.5 27.7#





#79

Naphthalene

Concen: 0.17 ppbv

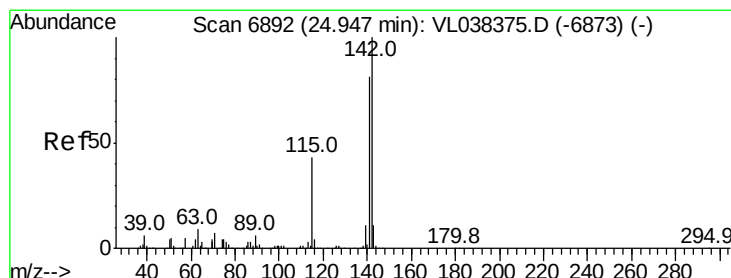
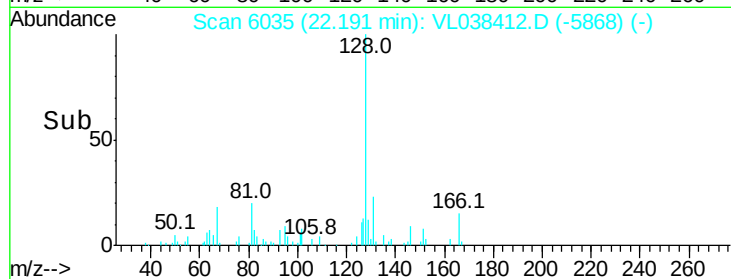
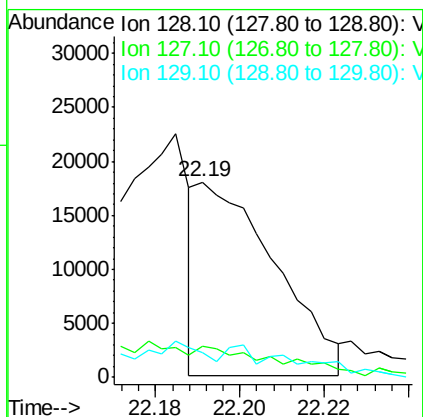
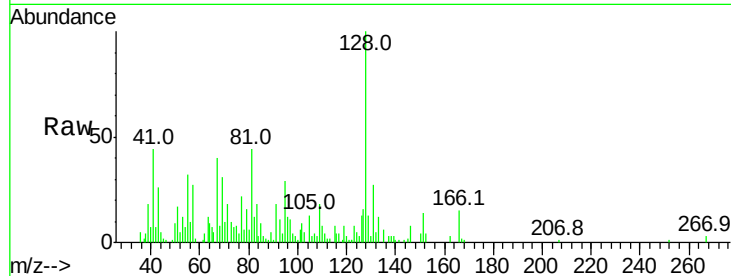
RT: 22.19 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId : MP-1

Acq: 23 Feb 2022 17:40

Tgt Ion:	128	Resp:	23038
Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.7	16.1
129	5.8	8.8	13.2



#80

Naphthalene, 2-methyl-

Concen: 0.45 ppbv

RT: 24.97 min Scan# 6898

Delta R.T. 0.02 min

Lab File: VL038412.D

Acq: 23 Feb 2022 17:40

Tgt Ion:	142	Resp:	11681
Ion	Ratio	Lower	Upper
142	100		
141	99.0	69.8	104.6
115	54.1	33.0	49.6

