

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092821\
 Data File : VL037702.D
 Acq On : 28 Sep 2021 15:00
 Operator : SY/AP
 Sample : M3896-03
 Misc : 400mL/MSVOA L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 29 03:40:56 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1375277	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4141709	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3620445	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2638357	10.08	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.97	51	67278	0.259 ppbv	# 81
4) Chloromethane	3.14	50	5794	0.060 ppbv	# 79
7) Chloroethane	3.57	64	2029	0.060 ppbv	# 68
9) Propene	3.03	41	86626	0.947 ppbv	83
10) Heptane	8.13	43	77933	0.365 ppbv	99
11) Trichlorofluoromethane	3.96	101	38737	0.194 ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.49	101	13078	0.089 ppbv	# 10
13) Ethanol	3.61	45	2005644	224.084 ppbv	91
15) Acetone	3.85	43	2608586	18.256 ppbv	99
16) 1,3-Butadiene	3.32	39	35985	0.403 ppbv	# 27
17) tert-Butyl alcohol	4.30	59	15138	0.125 ppbv	# 72
18) 1,1-Dichloroethene	4.30	96	53131	0.773 ppbv	92
19) Isopropyl Alcohol	3.98	45	535282	6.885 ppbv	# 96
20) Methylene Chloride	4.35	84	3057281	44.817 ppbv	98
23) Vinyl Acetate	5.07	43	26355	0.133 ppbv	# 71
24) 1,1-Dichloroethane	5.02	63	318797	2.251 ppbv	99
25) Ethyl Acetate	5.70	43	3113826	8.998 ppbv	# 77
26) Hexane	5.70	57	4330319	26.341 ppbv	# 46
30) Cyclohexane	7.15	84	8286	0.059 ppbv	# 1
32) 1,1,1-Trichloroethane	6.52	97	218153	0.976 ppbv	99
34) 2-Butanone	5.25	43	462883	2.750 ppbv	95
36) Benzene	6.90	78	28897	0.084 ppbv	97
39) 1,2-Dichloropropane	7.18	63	945081	7.145 ppbv	# 27
41) Tetrahydrofuran	6.07	42	80272	1.015 ppbv	# 54
44) 2,2,4-Trimethylpentane	7.88	57	31622	0.054 ppbv	# 42
50) 4-Methyl-2-Pentanone	8.76	43	14848	0.070 ppbv	# 23
51) 2-Hexanone	10.15	43	105729	1.122 ppbv	# 42
53) Toluene	9.82	91	443876	1.156 ppbv	99
57) Chlorobenzene	12.16	112	9646	0.032 ppbv	# 35
58) Ethyl Benzene	12.72	91	114244	0.238 ppbv	89
59) m/p-Xylene	13.00	91	132837	0.317 ppbv	# 31
60) o-Xylene	13.70	91	264975	0.665 ppbv	97
61) Styrene	13.54	104	119954	0.610 ppbv	# 83
63) 1,1,2,2-Tetrachloroethane	13.69	83	112837	0.362 ppbv	# 35
64) n-propylbenzene	15.79	120	4809	0.033 ppbv	88
65) tert-Butylbenzene	16.77	119	25687	0.051 ppbv	# 30
69) p-Isopropyltoluene	17.67	119	22269	0.040 ppbv	# 48
71) 2-Chlorotoluene	15.46	91	21130	0.053 ppbv	92
72) 4-Ethyltoluene	15.84	105	44707	0.098 ppbv	# 77
73) 1,3,5-Trimethylbenzene	16.01	105	19311	0.045 ppbv	86
74) 1,2,4-Trimethylbenzene	16.78	105	152507	0.339 ppbv	# 65

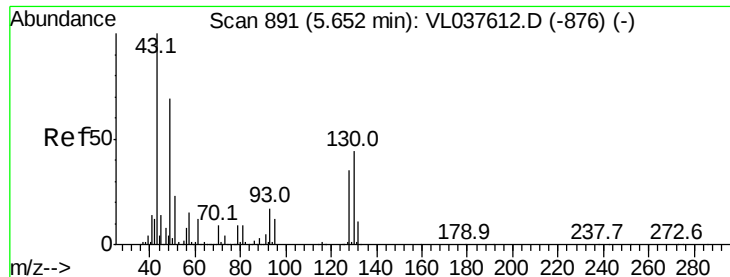
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092821\
Data File : VL037702.D
Acq On : 28 Sep 2021 15:00
Operator : SY/AP
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Hexachloro-1,3-Butadiene	23.38	225	13013	0.058	ppbv #	47
79) Naphthalene	22.22	128	34351	0.125	ppbv #	83
80) Naphthalene,2-methyl-	24.98	142	28998	0.460	ppbv	85

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 15:00

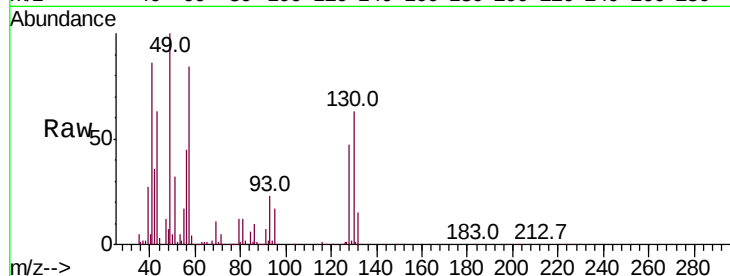
Tot Ion: 49 Resp: 1375277

Ion Ratio Lower Upper

49 100

128 52.5 27.9 83.6

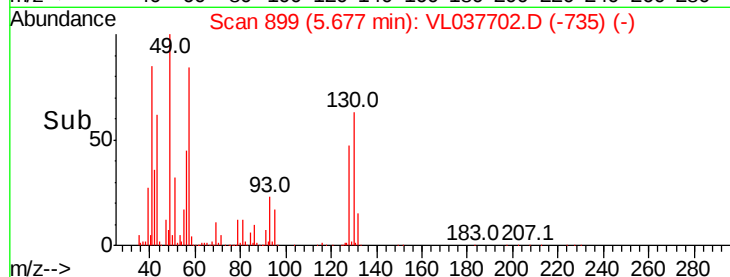
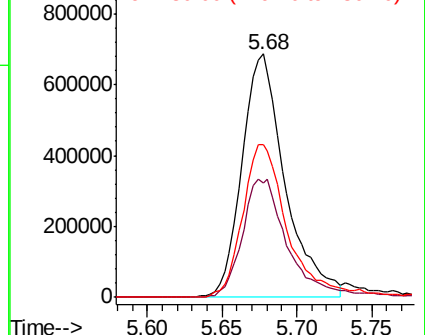
130 66.7 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.259 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL037702.D

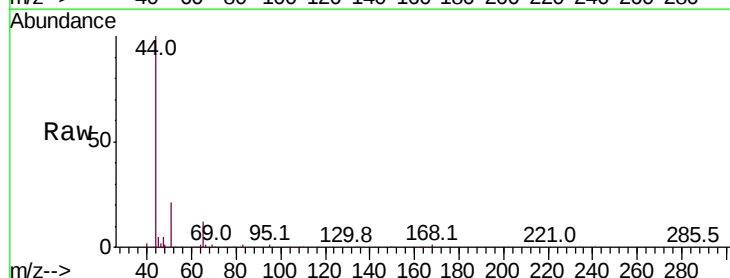
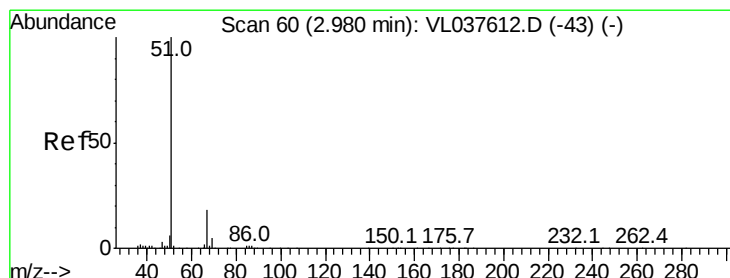
Acq: 28 Sep 2021 15:00

Tgt Ion: 51 Resp: 67278

Ion Ratio Lower Upper

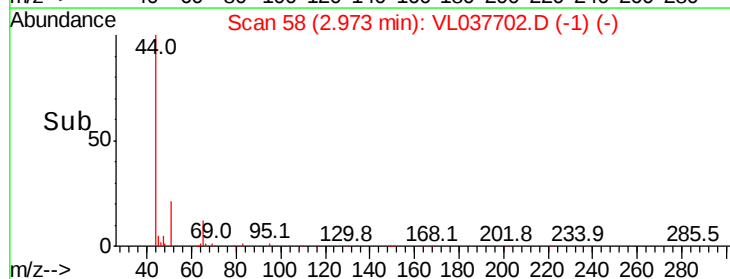
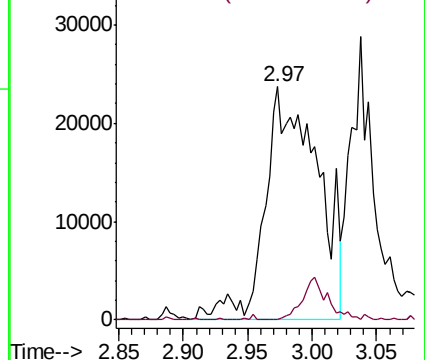
51 100

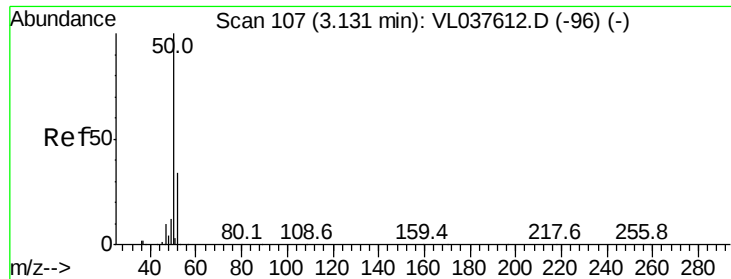
67 9.0 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.060 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

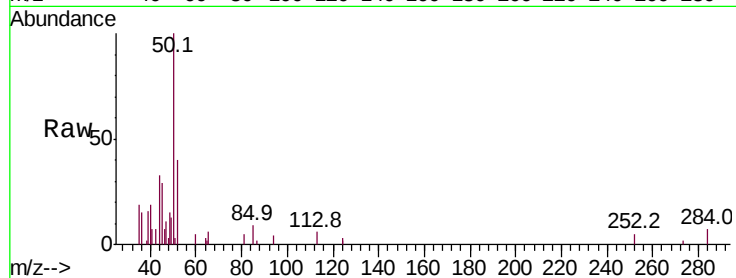
Acq: 28 Sep 2021 15:00

Tot Ion: 50 Resp: 5794

Ion Ratio Lower Upper

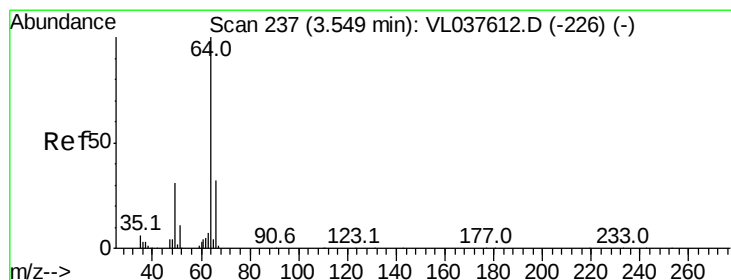
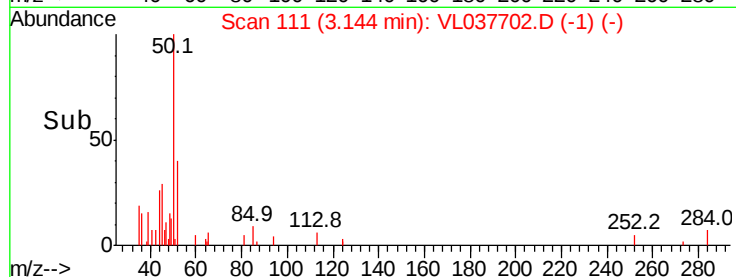
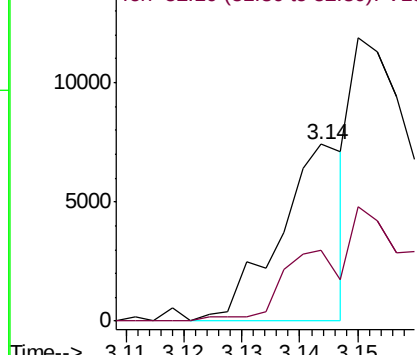
50 100

52 45.9 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#7

Chloroethane

Concen: 0.060 ppbv

RT: 3.57 min Scan# 243

Delta R.T. 0.02 min

Lab File: VL037702.D

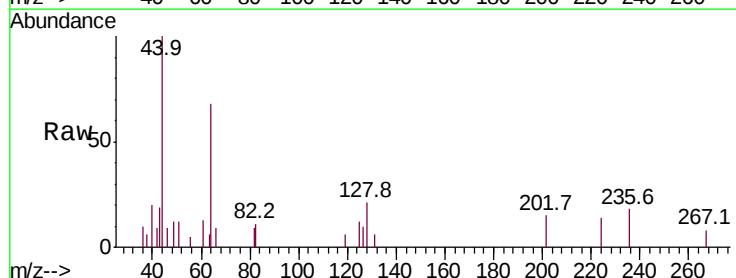
Acq: 28 Sep 2021 15:00

Tgt Ion: 64 Resp: 2029

Ion Ratio Lower Upper

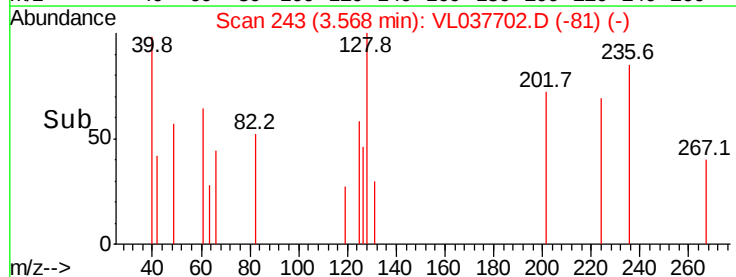
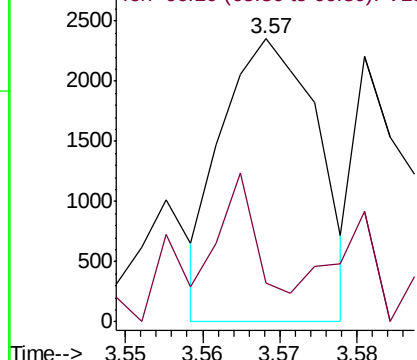
64 100

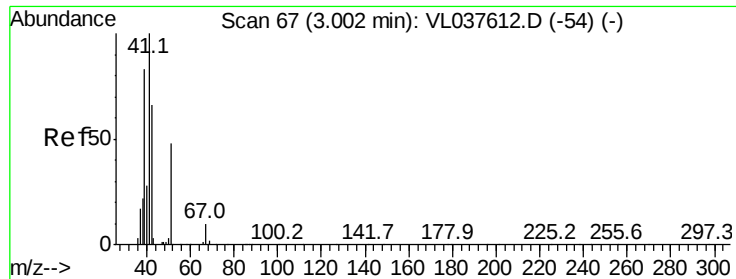
66 13.7 25.3 37.9#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 0.947 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

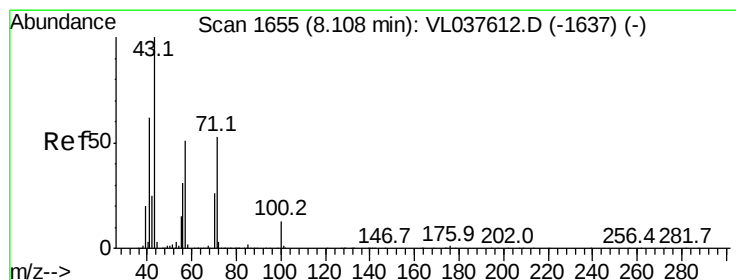
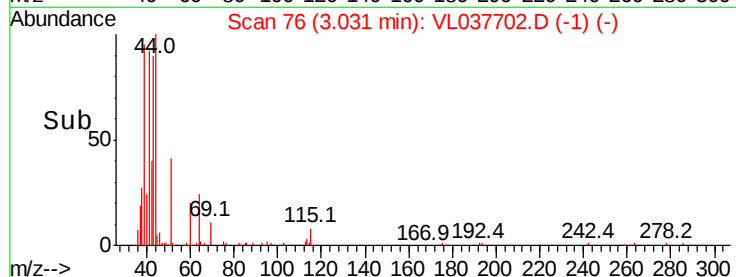
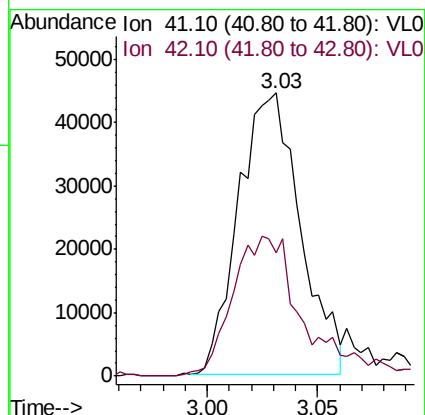
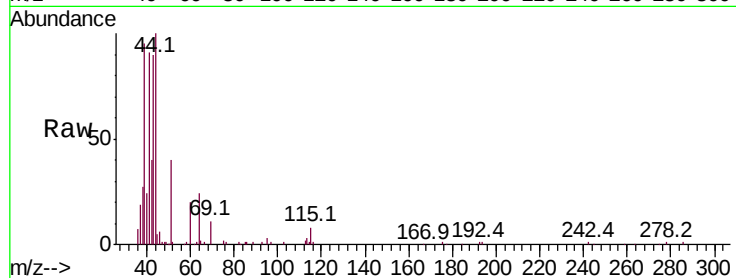
Acq: 28 Sep 2021 15:00

Tot Ion: 41 Resp: 86626

Ion Ratio Lower Upper

41 100

42 57.7 57.2 85.8



#10

Heptane

Concen: 0.365 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.02 min

Lab File: VL037702.D

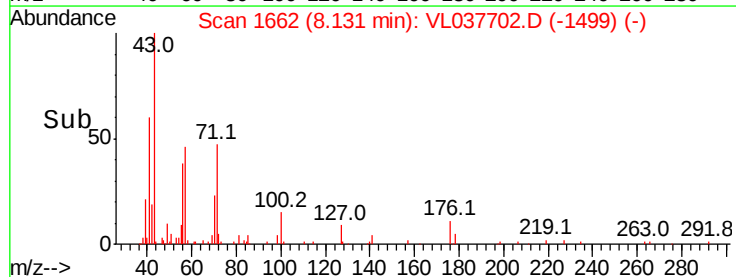
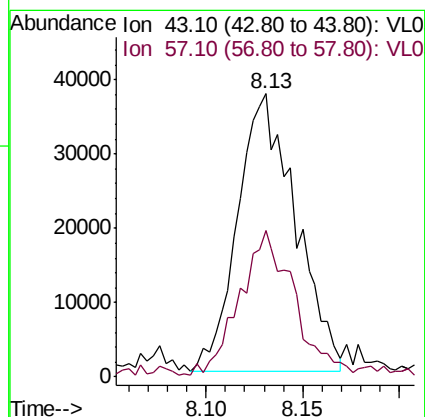
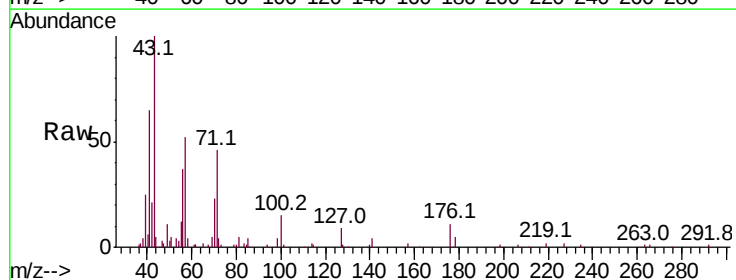
Acq: 28 Sep 2021 15:00

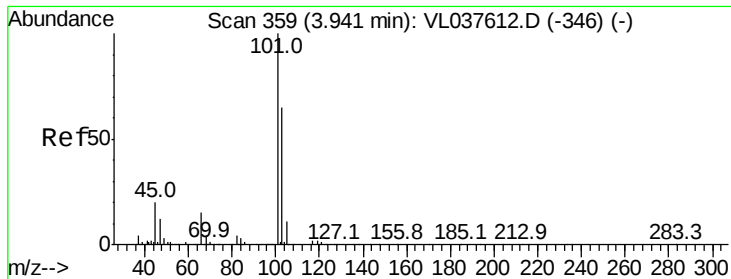
Tgt Ion: 43 Resp: 77933

Ion Ratio Lower Upper

43 100

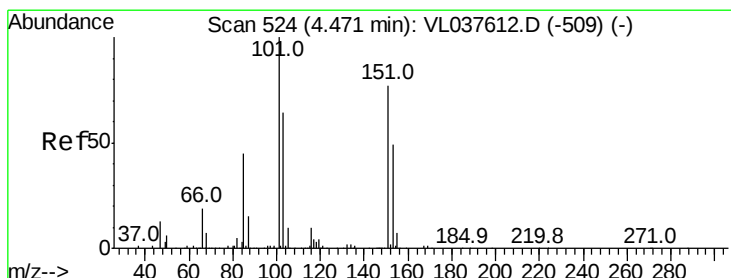
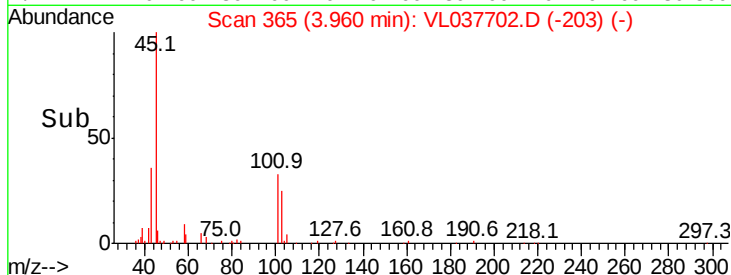
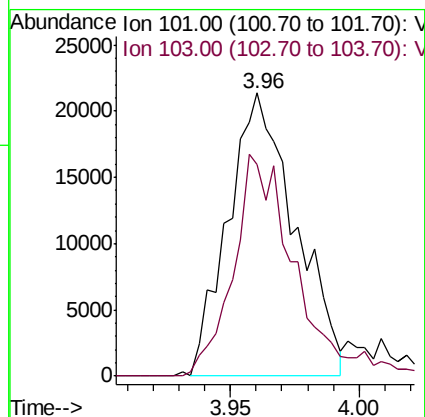
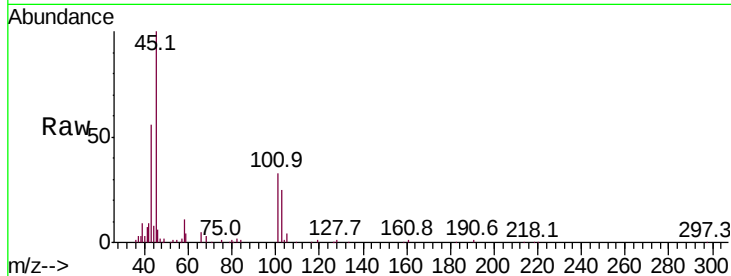
57 50.9 40.1 60.1





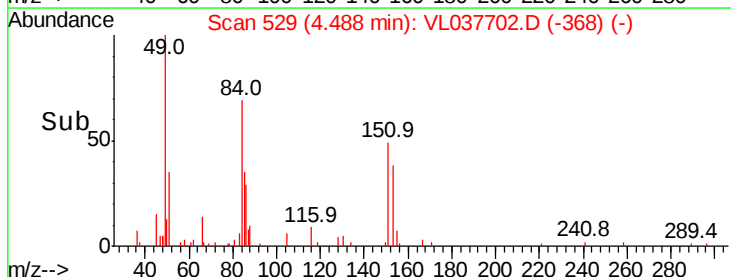
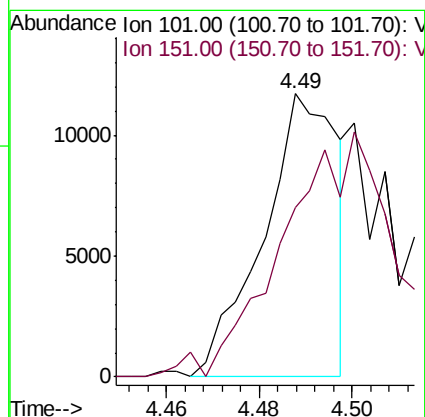
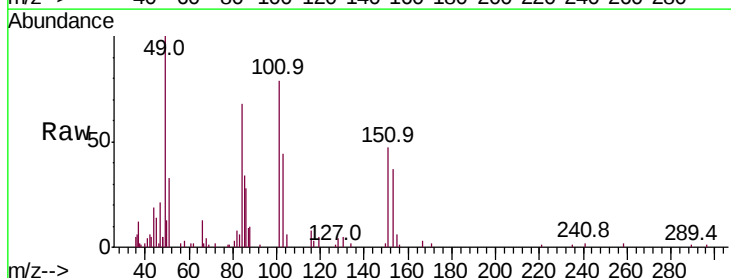
#11
 Trichlorofluoromethane
 Concen: 0.194 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Sep 2021 15:00

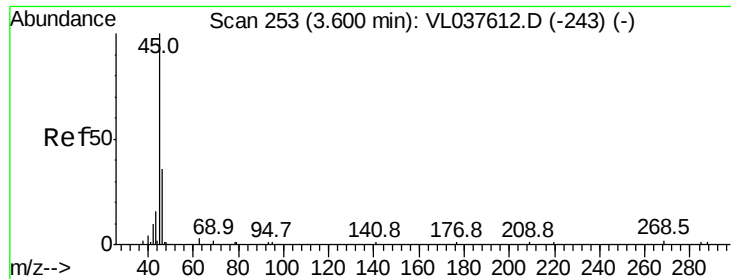
Tot Ion:101 Resp: 38737
 Ion Ratio Lower Upper
 101 100
 103 73.0 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.089 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.02 min
 Lab File: VL037702.D
 Acq: 28 Sep 2021 15:00

Tgt Ion:101 Resp: 13078
 Ion Ratio Lower Upper
 101 100
 151 0.0 63.5 95.3#





#13

Ethanol

Concen: 224.084 ppbv

RT: 3.61 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

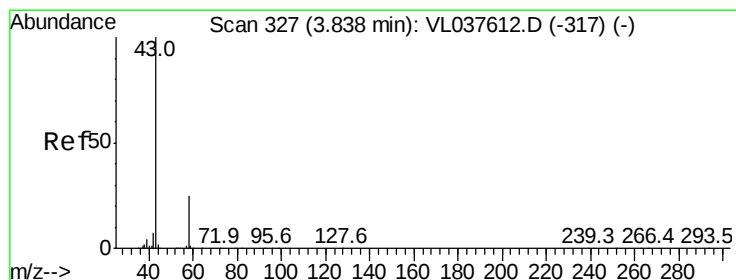
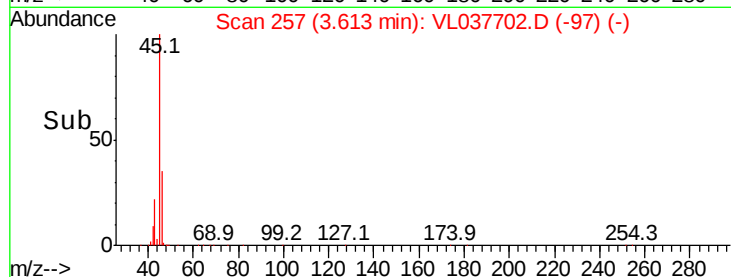
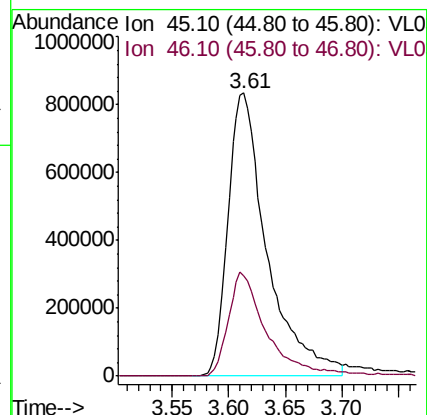
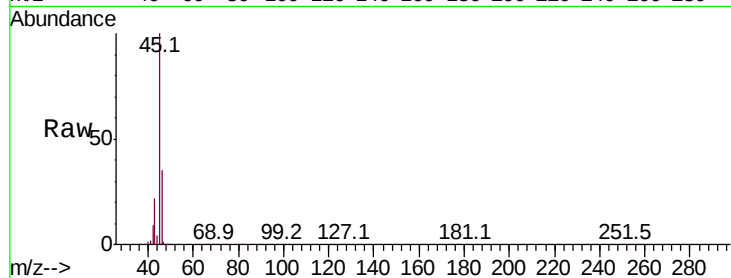
Acq: 28 Sep 2021 15:00

Tot Ion: 45 Resp: 2005644

Ion Ratio Lower Upper

45 100

46 37.0 17.2 68.8



#15

Acetone

Concen: 18.256 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL037702.D

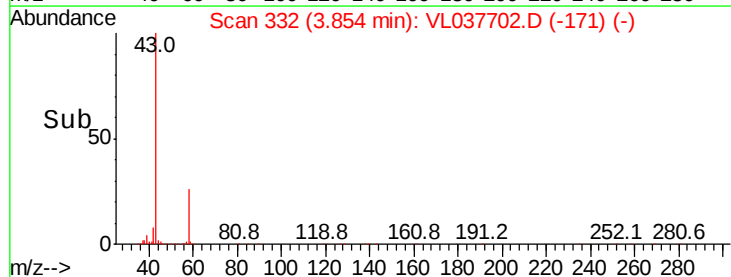
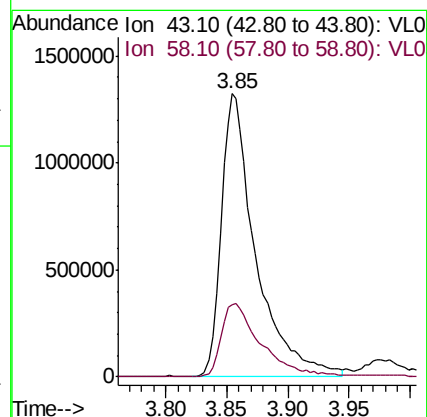
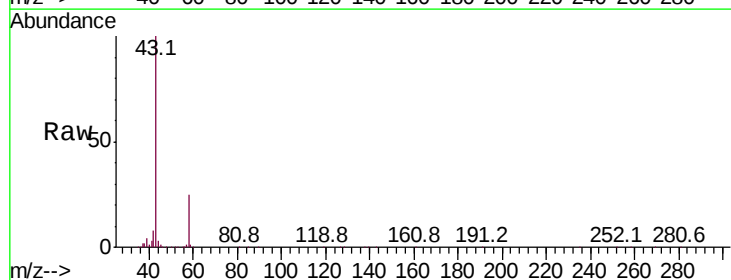
Acq: 28 Sep 2021 15:00

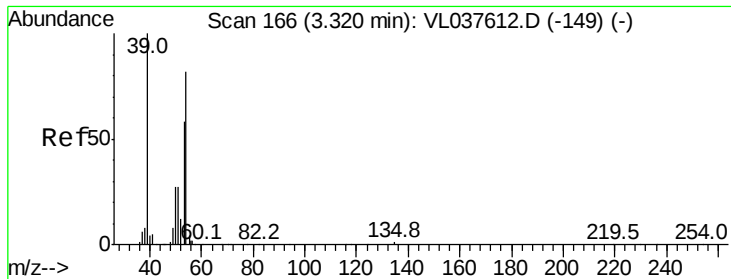
Tgt Ion: 43 Resp: 2608586

Ion Ratio Lower Upper

43 100

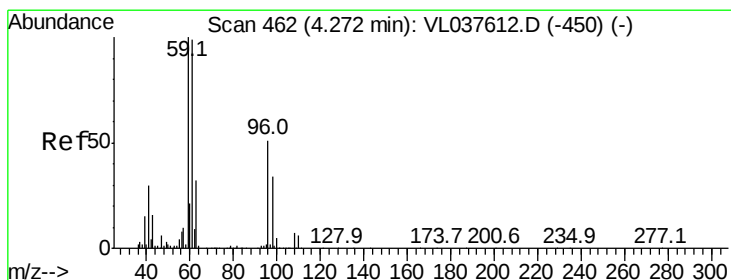
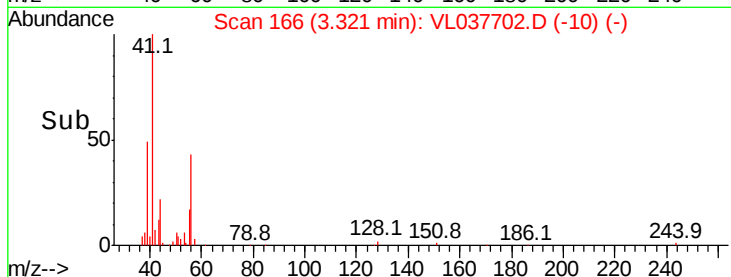
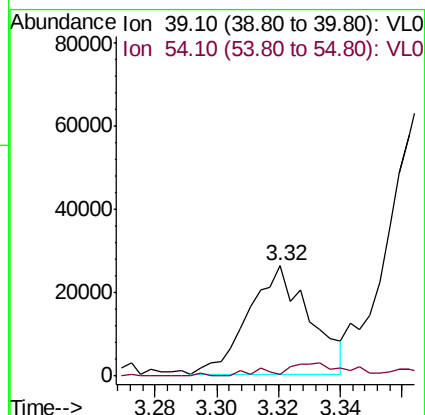
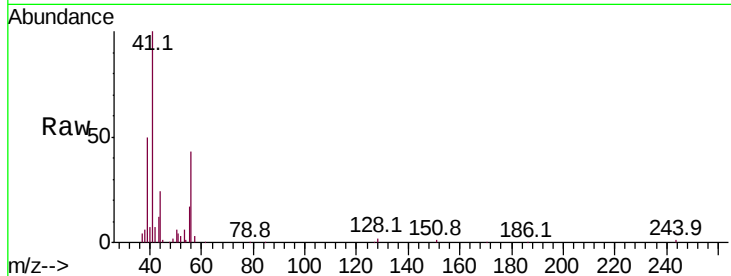
58 30.3 24.9 37.3





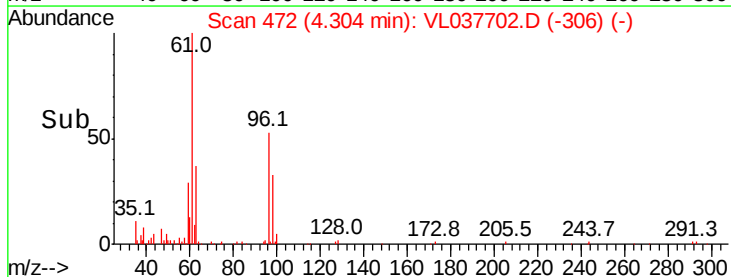
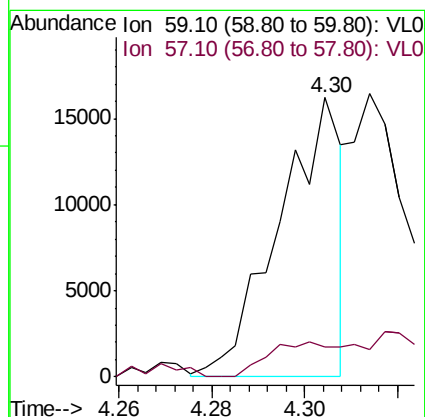
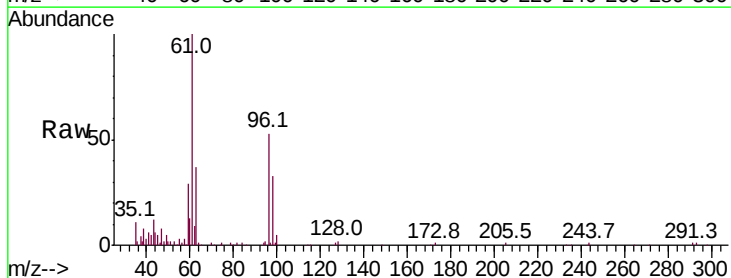
#16
 1,3-Butadiene
 Concen: 0.403 ppbv
 RT: 3.32 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId:
 Acq: 28 Sep 2021 15:00

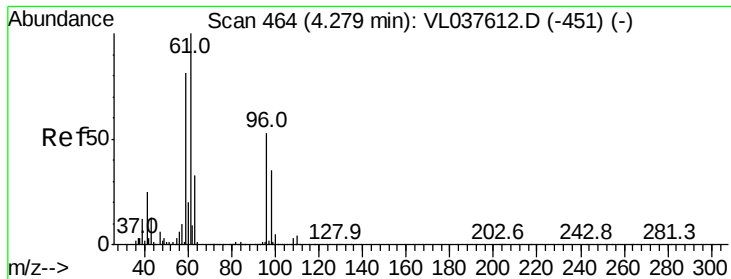
Tot Ion: 39 Resp: 35985
 Ion Ratio Lower Upper
 39 100
 54 14.2 62.6 93.8#



#17
 tert-Butyl alcohol
 Concen: 0.125 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.03 min
 Lab File: VL037702.D
 Acq: 28 Sep 2021 15:00

Tgt Ion: 59 Resp: 15138
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#





#18

1,1-Dichloroethene

Concen: 0.773 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 15:00

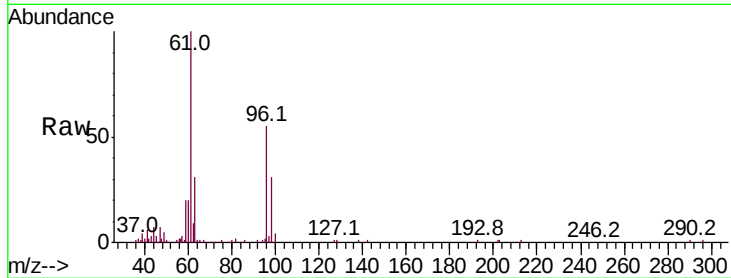
Tot Ion: 96 Resp: 53131

Ion Ratio Lower Upper

96 100

61 179.2 150.4 225.6

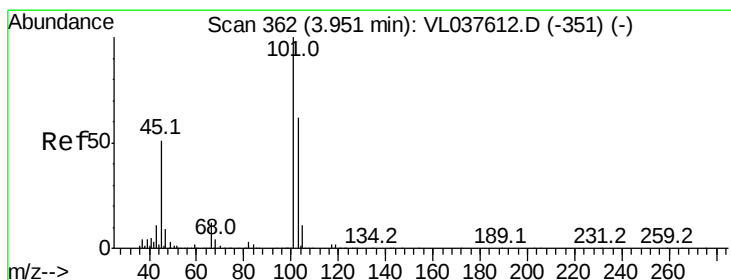
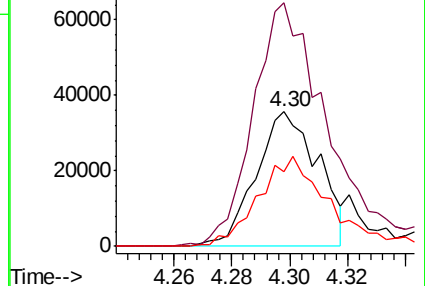
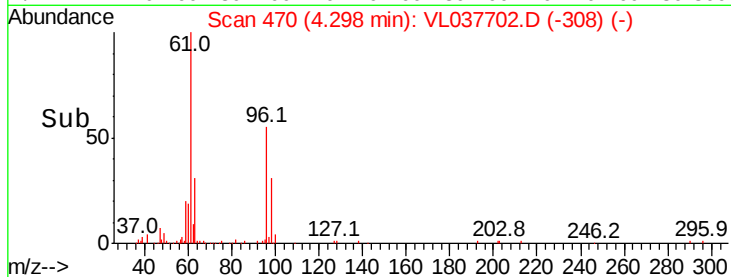
98 55.5 52.1 78.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 6.885 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.03 min

Lab File: VL037702.D

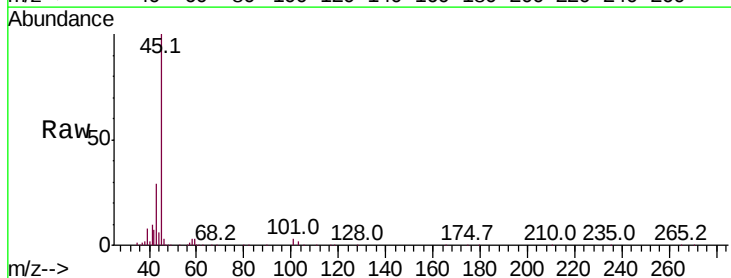
Acq: 28 Sep 2021 15:00

Tgt Ion: 45 Resp: 535282

Ion Ratio Lower Upper

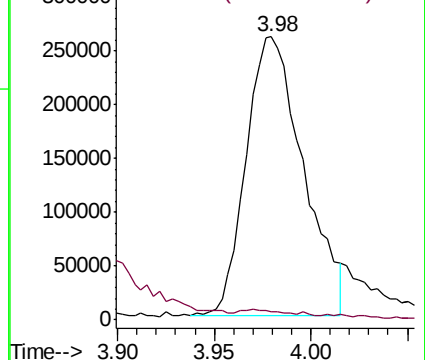
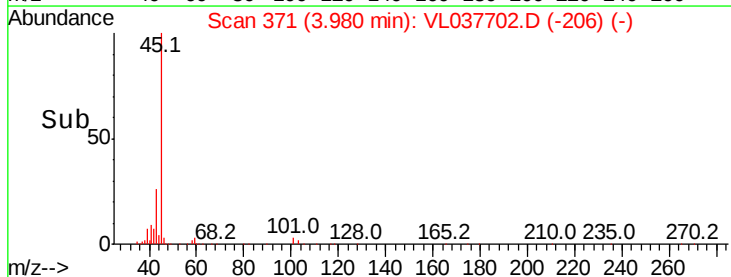
45 100

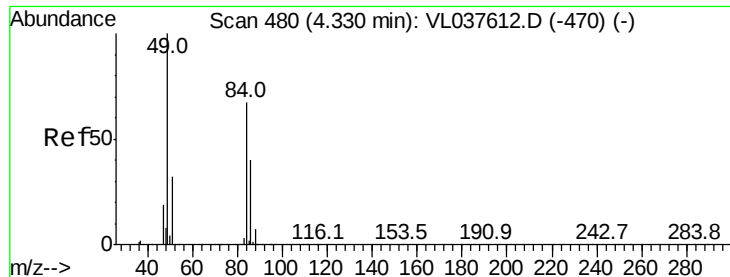
58 5.0 2.9 4.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

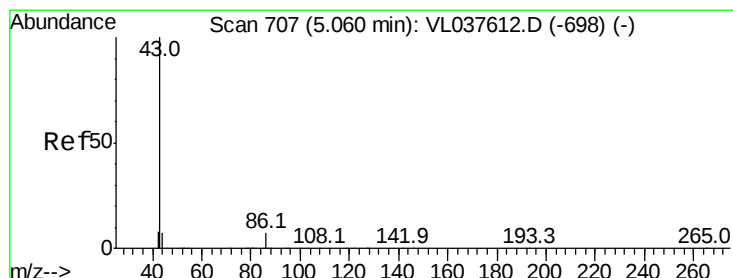
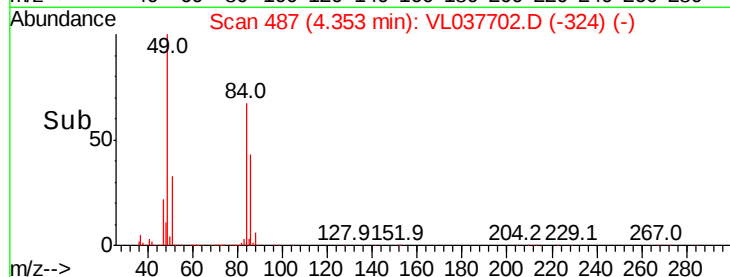
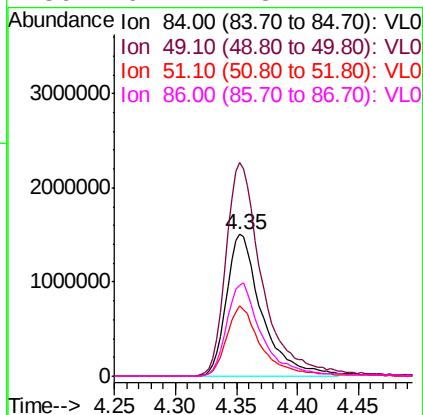
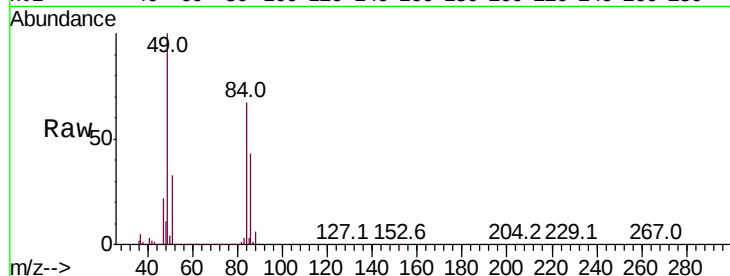




#20
Methvlene Chloride
Concen: 44.817 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 28 Sep 2021 15:00

Tot Ion: 84 Resp: 3057281

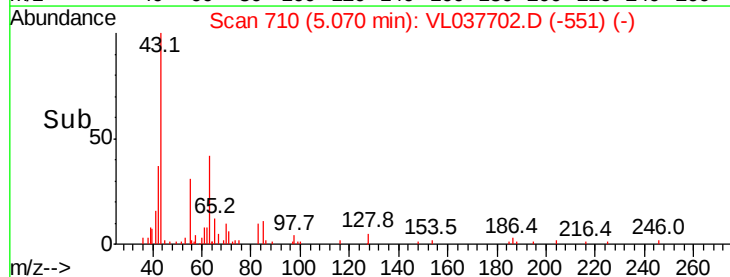
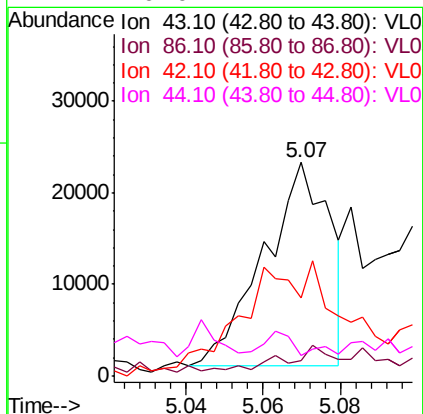
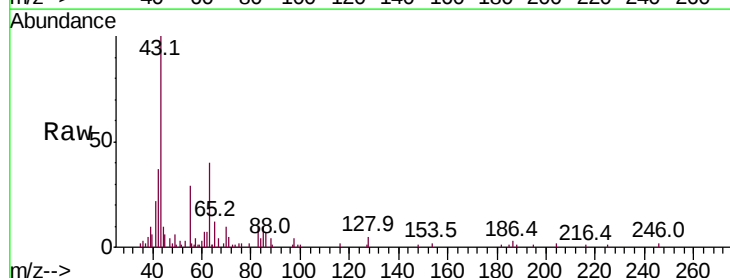
Ion	Ratio	Lower	Upper
84	100		
49	150.2	120.0	180.0
51	49.3	38.0	57.0
86	64.4	48.2	72.2

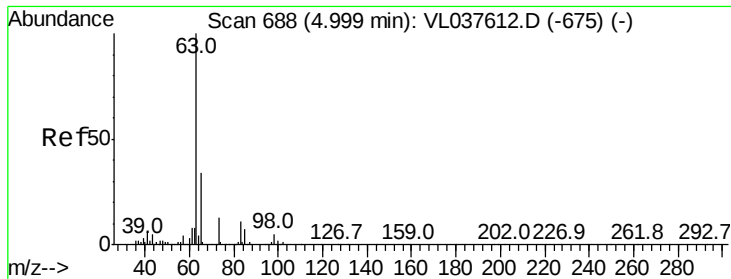


#23
Vinyl Acetate
Concen: 0.133 ppbv
RT: 5.07 min Scan# 710
Delta R.T. 0.01 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

Tgt Ion: 43 Resp: 26355

Ion	Ratio	Lower	Upper
43	100		
86	2.7	5.0	7.6#
42	27.0	7.5	11.3#
44	0.0	4.7	7.1#





#24

1,1-Dichloroethane

Concen: 2.251 ppbv

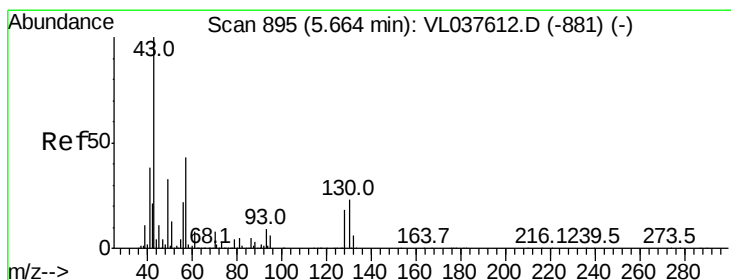
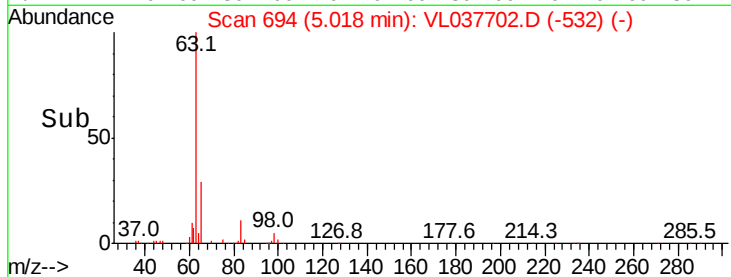
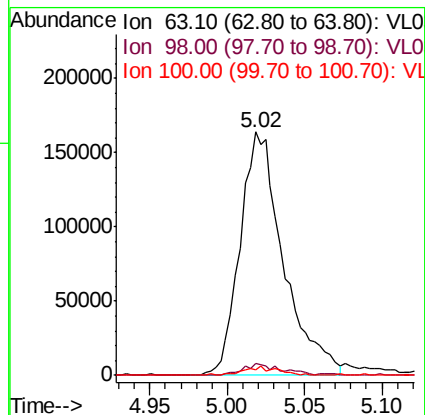
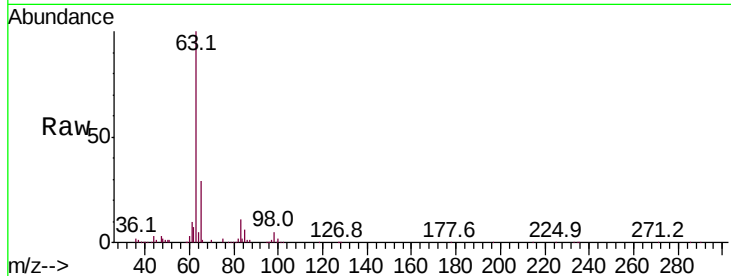
RT: 5.02 Instrument:

Delta R.T. MSVOA_1

Lab File:

Acq: 28 Sep 2021 15:00

Tot Ion:	63	Resp:	318797
Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.4	7.2
100	2.1	1.1	3.5



#25

Ethyl Acetate

Concen: 8.998 ppbv

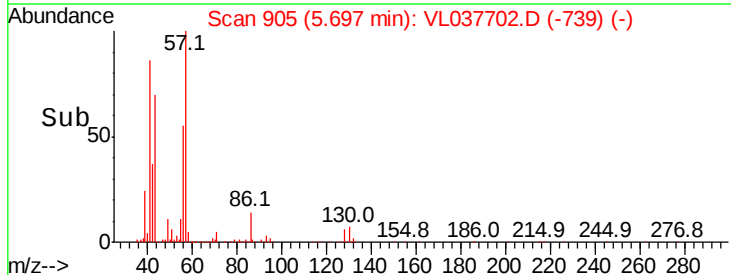
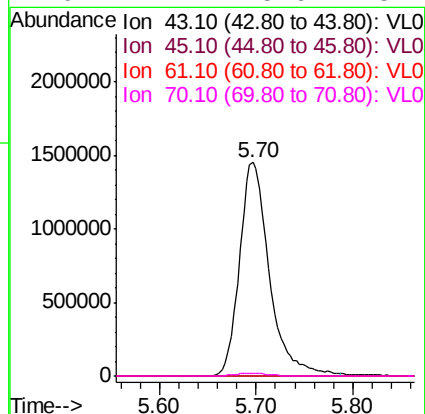
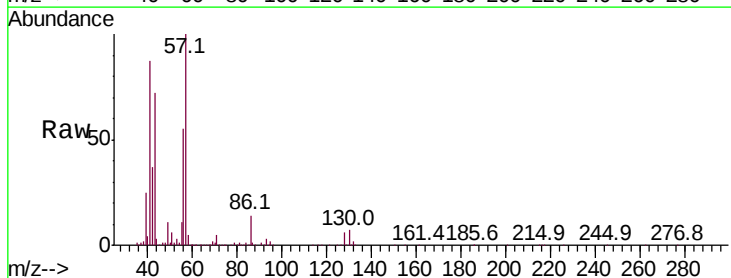
RT: 5.70 min Scan# 905

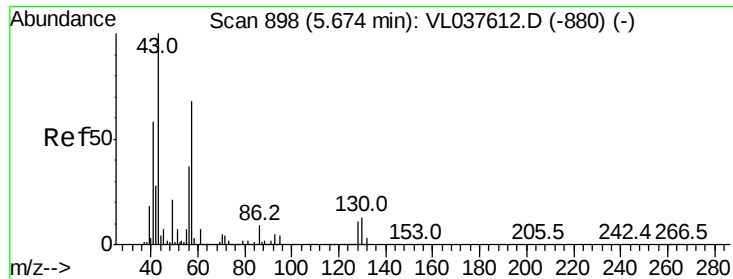
Delta R.T. 0.03 min

Lab File: VL037702.D

Acq: 28 Sep 2021 15:00

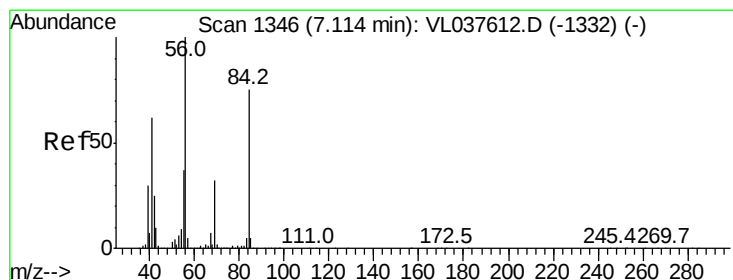
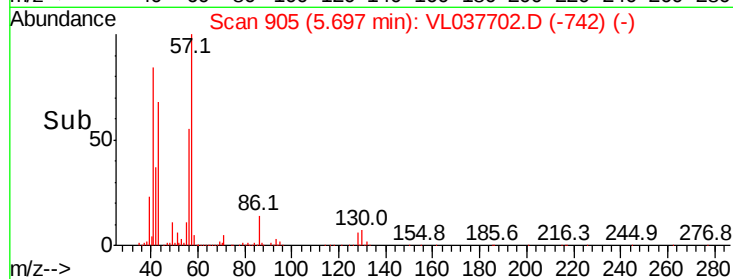
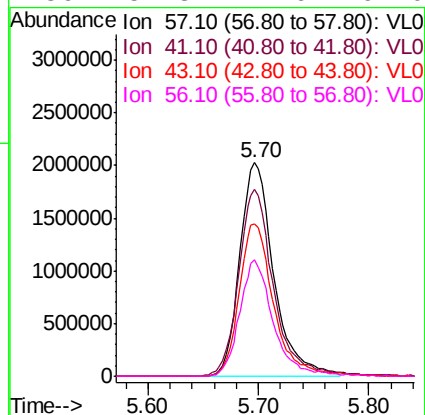
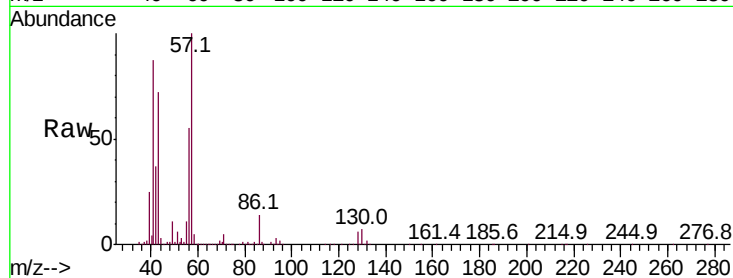
Tgt Ion:	43	Resp:	3113826
Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.0	12.0#
61	0.3	7.5	11.3#
70	1.7	5.6	8.4#





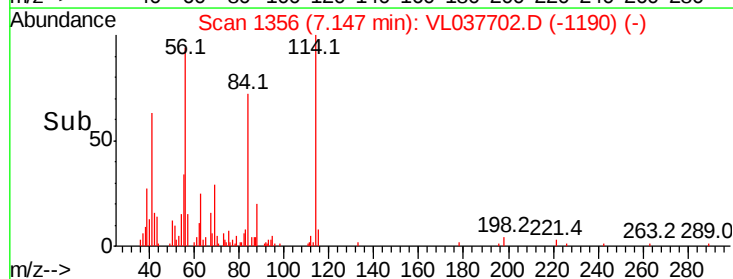
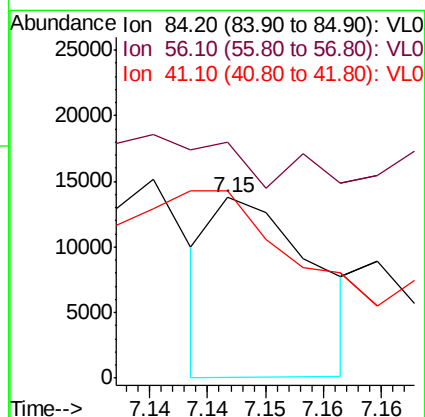
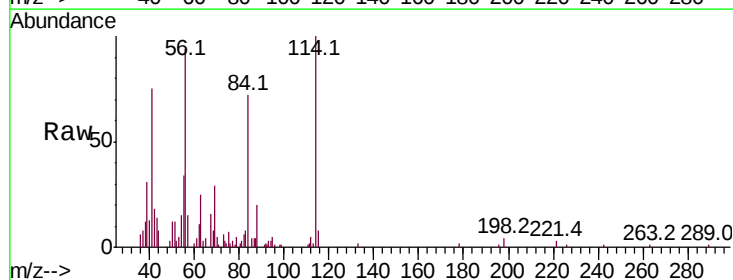
#26
Hexane
Concen: 26.341 ppbv
RT: 5.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Sep 2021 15:00

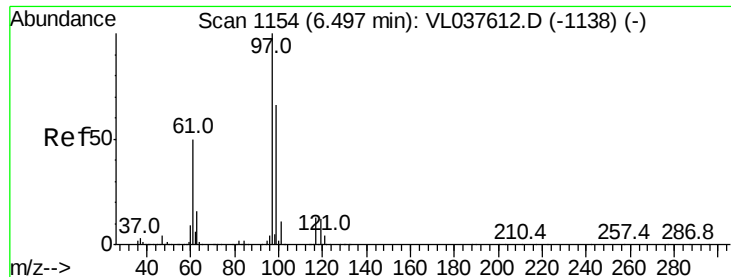
Tot Ion:	57	Resp:	4330319
Ion	Ratio	Lower	Upper
57	100		
41	90.5	70.9	106.3
43	72.5	170.4	255.6#
56	54.3	42.6	64.0



#30
Cyclohexane
Concen: 0.059 ppbv
RT: 7.15 min Scan# 1356
Delta R.T.: 0.03 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

Tgt Ion:	84	Resp:	8286
Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.6	170.4#
41	372.3	67.9	101.9#





#32

1,1,1-Trichloroethane

Concen: 0.976 ppbv

RT: 6.52 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 15:00

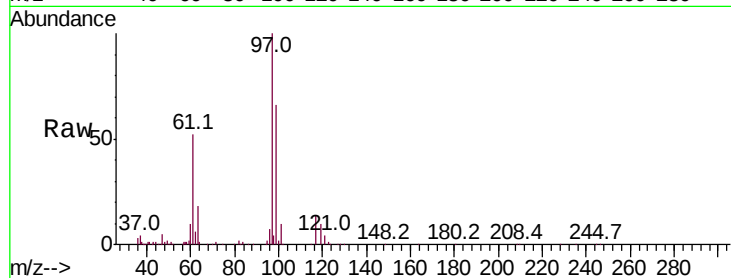
Tot Ion: 97 Resp: 218153

Ion Ratio Lower Upper

97 100

99 64.9 52.3 78.5

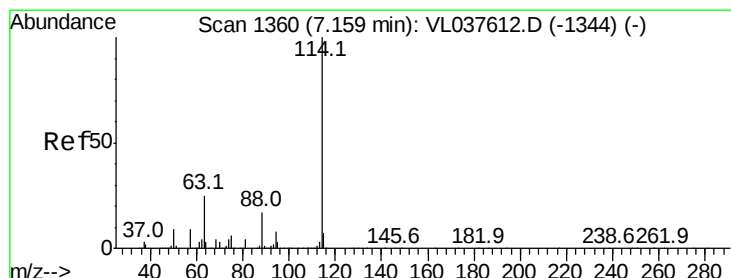
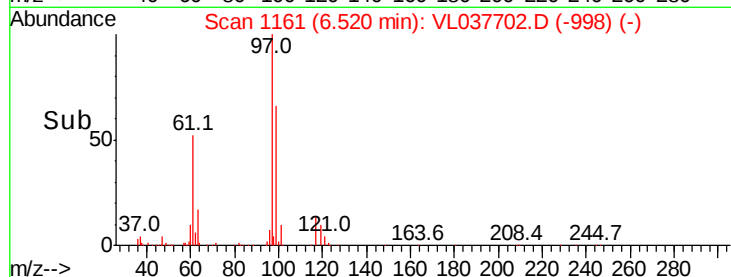
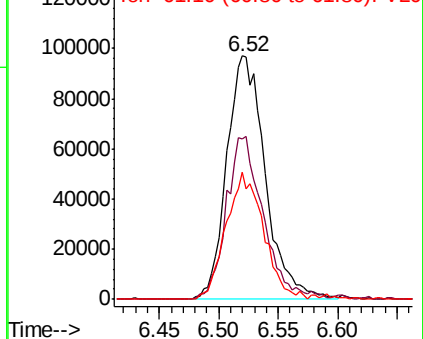
61 51.2 39.5 59.3



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.03 min

Lab File: VL037702.D

Acq: 28 Sep 2021 15:00

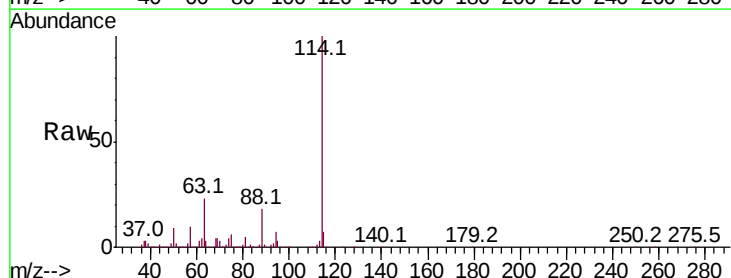
Tgt Ion: 114 Resp: 4141709

Ion Ratio Lower Upper

114 100

63 23.5 19.6 29.4

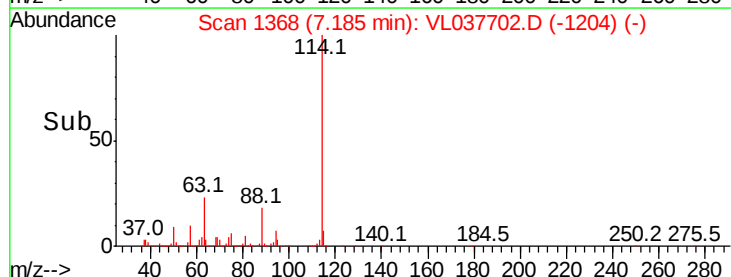
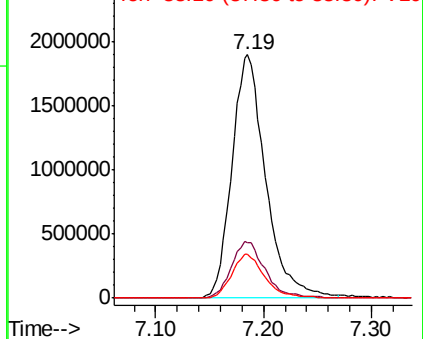
88 17.8 14.2 21.4

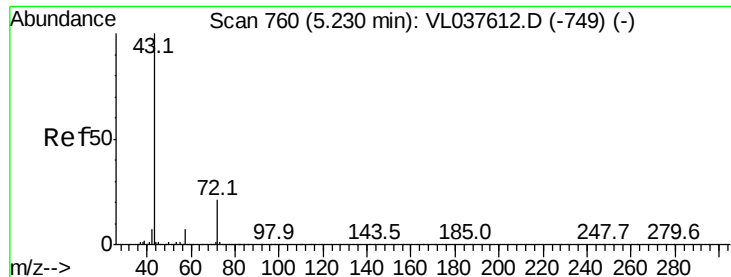


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

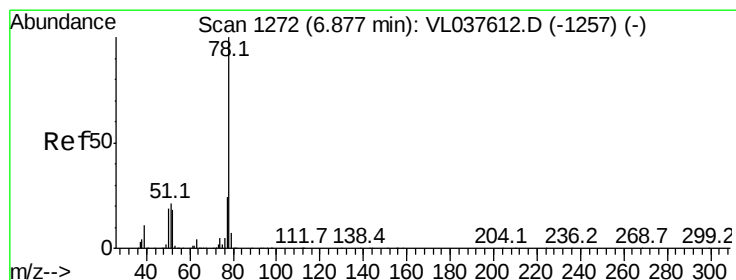
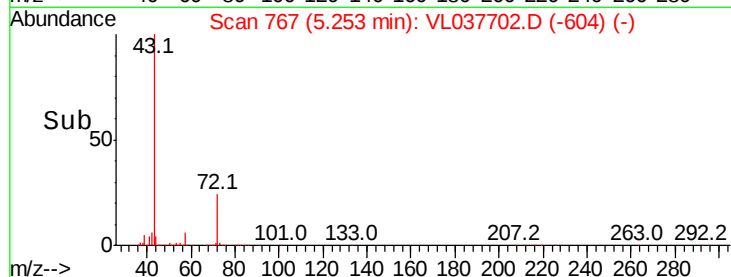
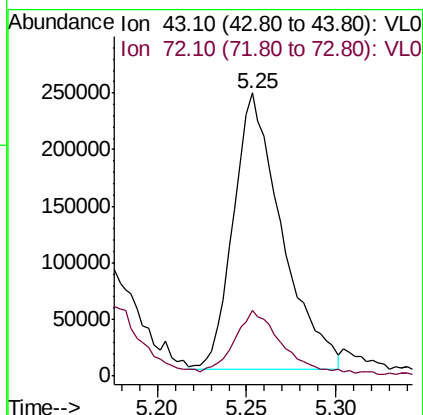
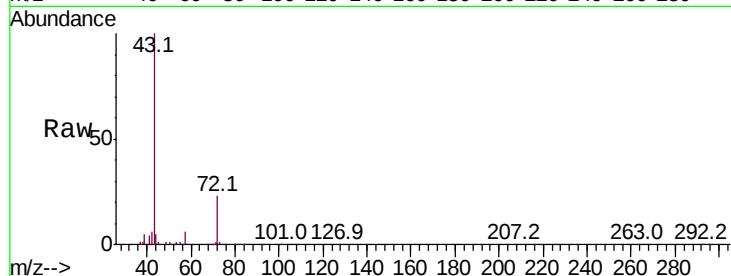
Ion 88.10 (87.80 to 88.80): VL0





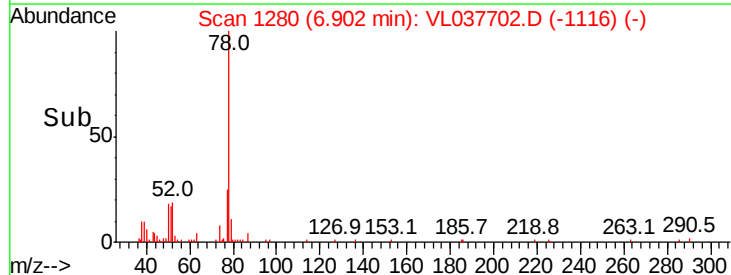
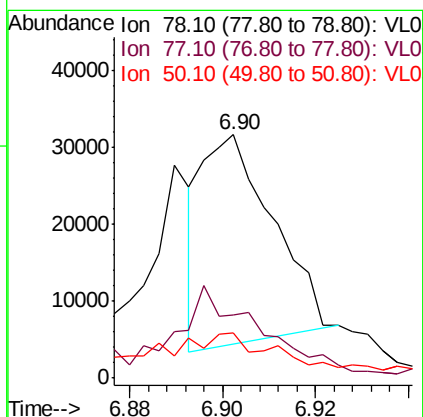
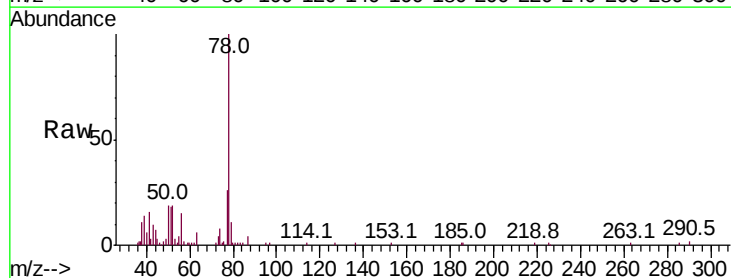
#34
2-Butanone
Concen: 2.750 ppbv
RT: 5.25
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Sep 2021 15:00

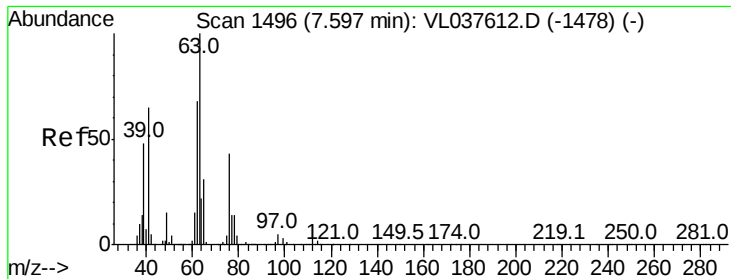
Tot Ion: 43 Resp: 462883
Ion Ratio Lower Upper
43 100
72 25.4 18.4 27.6



#36
Benzene
Concen: 0.084 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. 0.03 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

Tgt Ion: 78 Resp: 28897
Ion Ratio Lower Upper
78 100
77 26.1 19.0 28.4
50 18.7 14.8 22.2





#39

1,2-Dichloropropane

Concen: 7.145 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Sep 2021 15:00

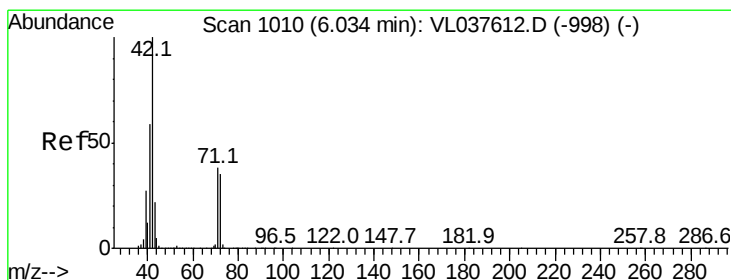
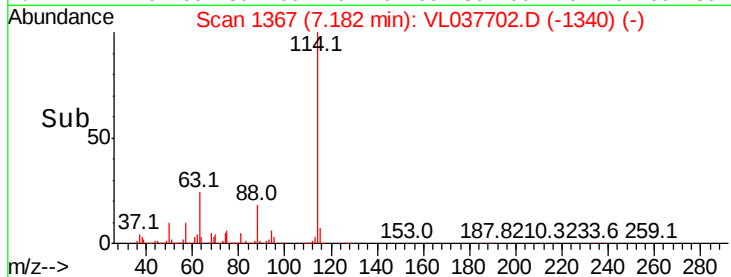
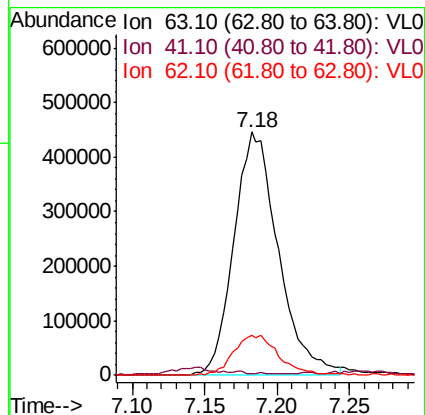
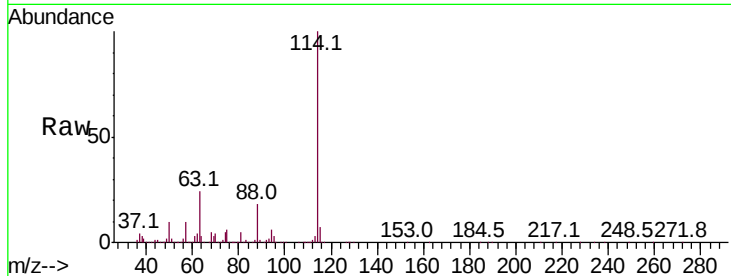
Tot Ion: 63 Resp: 945081

Ion Ratio Lower Upper

63 100

41 0.0 51.6 77.4#

62 16.6 54.6 81.8#



#41

Tetrahydrofuran

Concen: 1.015 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. 0.03 min

Lab File: VL037702.D

Acq: 28 Sep 2021 15:00

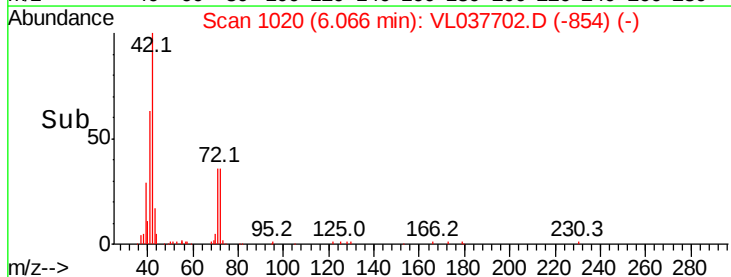
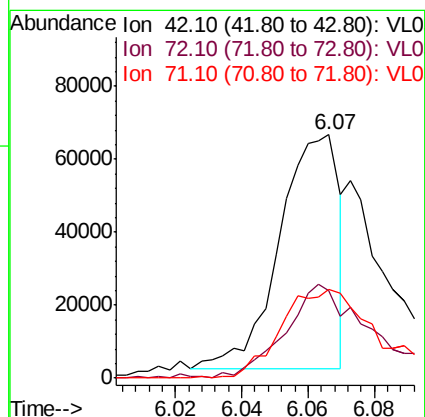
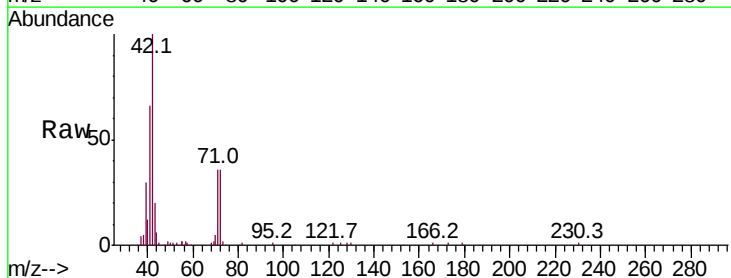
Tgt Ion: 42 Resp: 80272

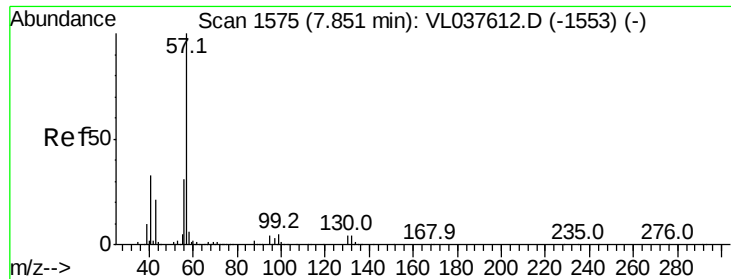
Ion Ratio Lower Upper

42 100

72 64.6 31.4 47.2#

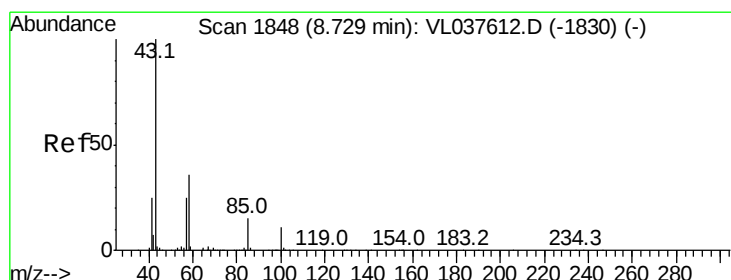
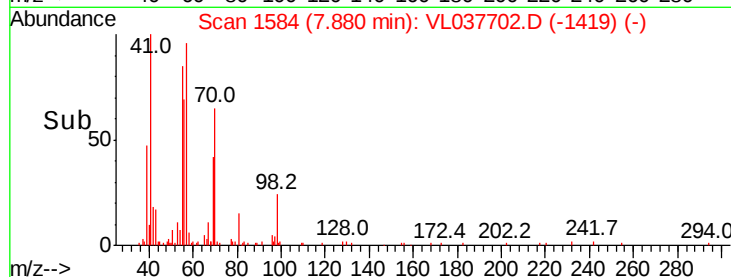
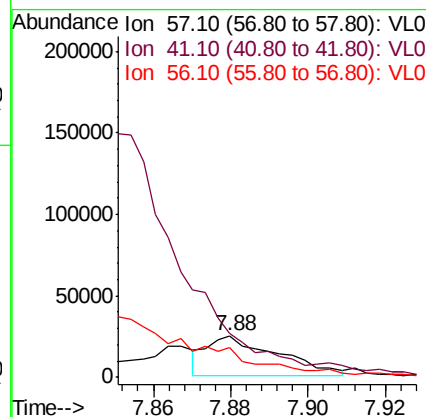
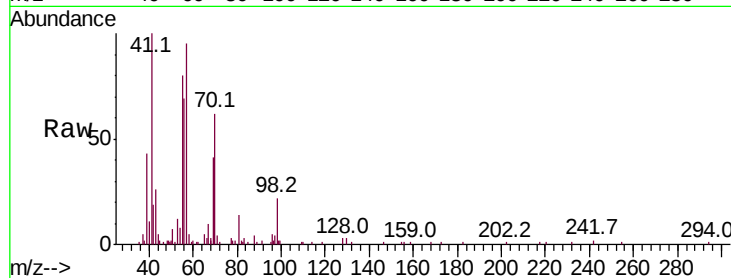
71 68.5 30.6 46.0#





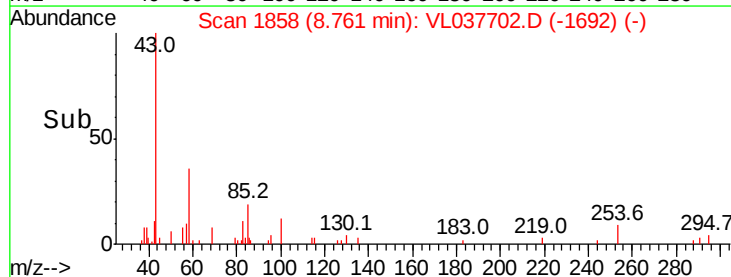
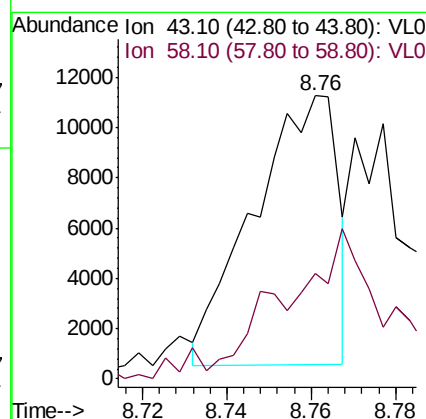
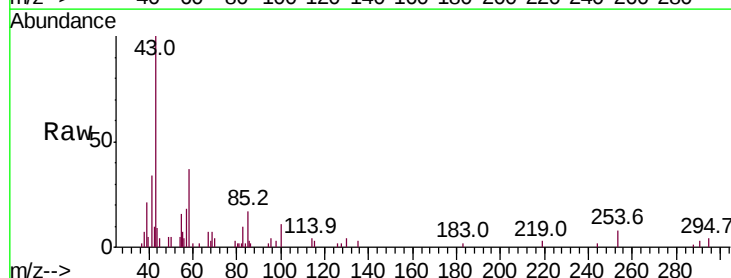
#44
 2,2,4-Trimethylpentane
 Concen: 0.054 ppbv
 RT: 7.88
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Sep 2021 15:00

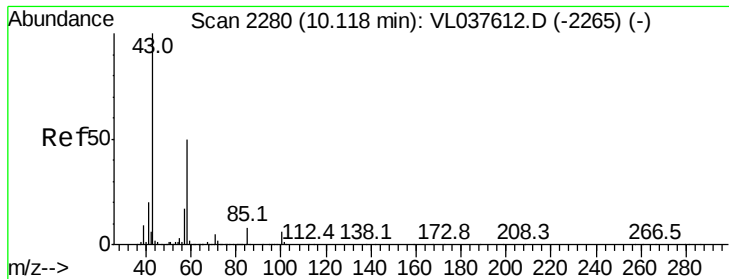
Tot Ion: 57 Resp: 31622
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.1 39.1#
 56 0.0 25.7 38.5#



#50
 4-Methyl-2-Pentanone
 Concen: 0.070 ppbv
 RT: 8.76 min Scan# 1858
 Delta R.T.: 0.03 min
 Lab File: VL037702.D
 Acq: 28 Sep 2021 15:00

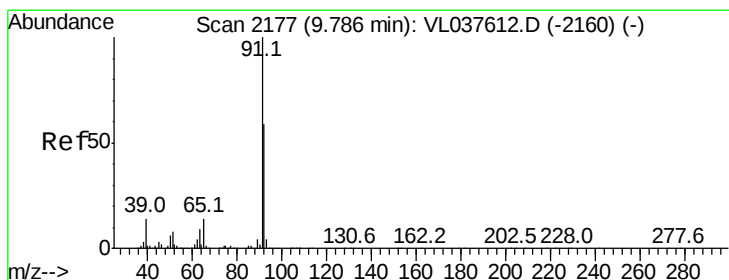
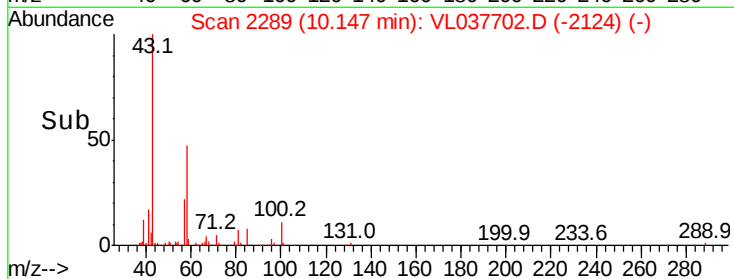
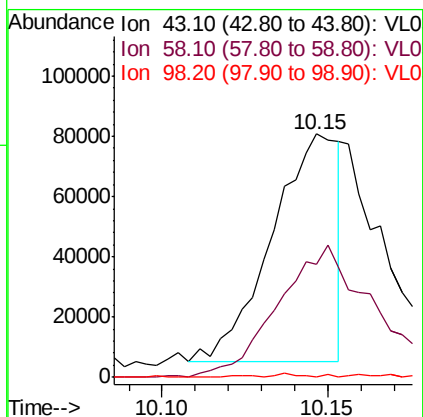
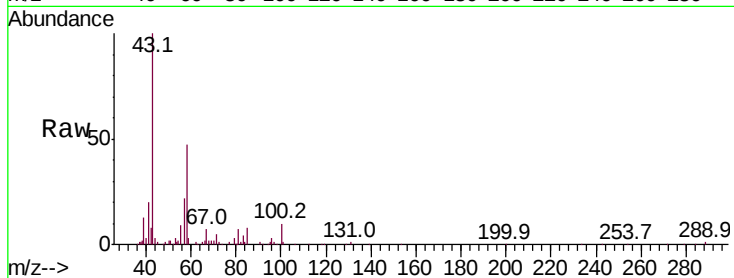
Tgt Ion: 43 Resp: 14848
 Ion Ratio Lower Upper
 43 100
 58 82.5 29.4 44.2#





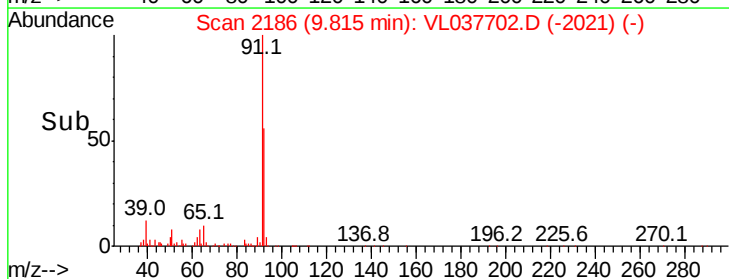
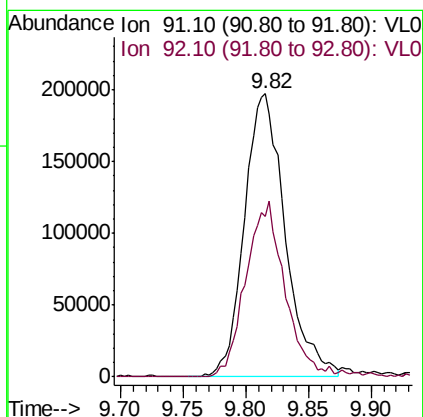
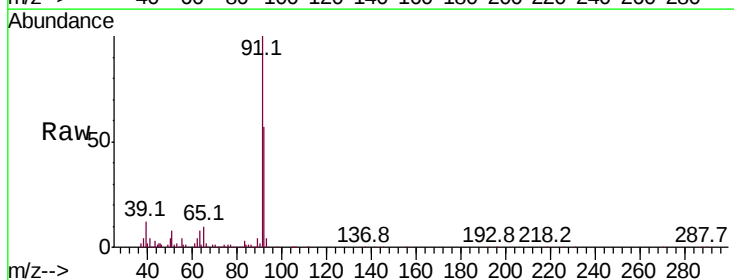
#51
2-Hexanone
Concen: 1.122 ppbv
RT: 10.15
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 28 Sep 2021 15:00

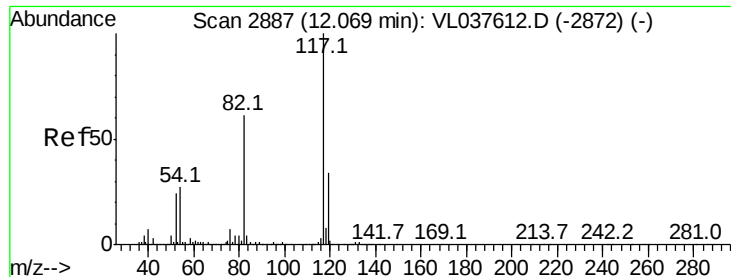
Tot Ion: 43 Resp: 105729
Ion Ratio Lower Upper
43 100
58 88.8 39.3 58.9#
98 2.3 0.4 0.6#



#53
Toluene
Concen: 1.156 ppbv
RT: 9.82 min Scan# 2186
Delta R.T. 0.03 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

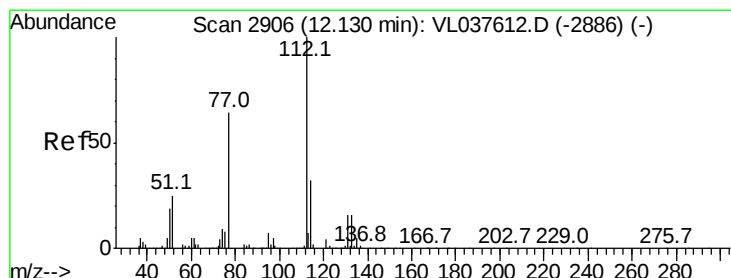
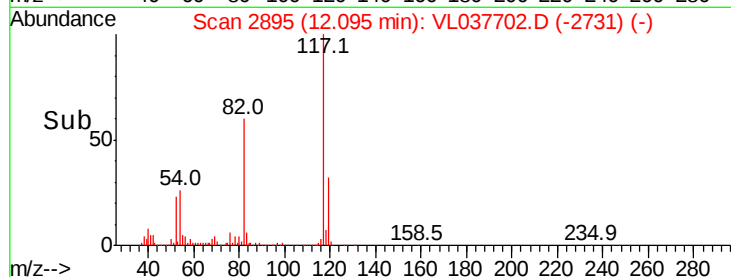
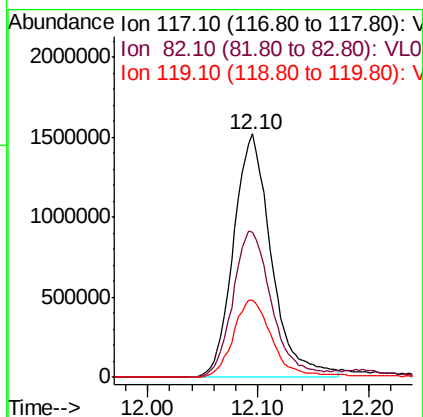
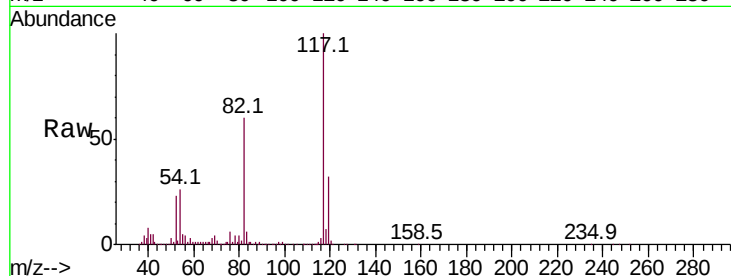
Tgt Ion: 91 Resp: 443876
Ion Ratio Lower Upper
91 100
92 60.5 48.9 73.3





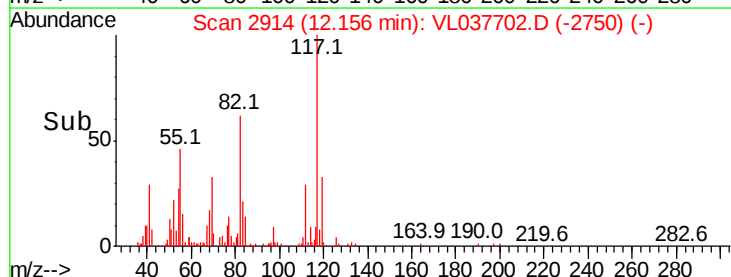
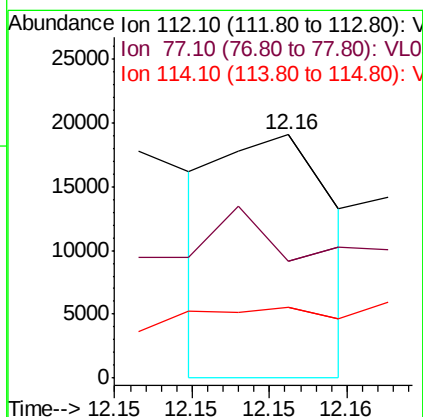
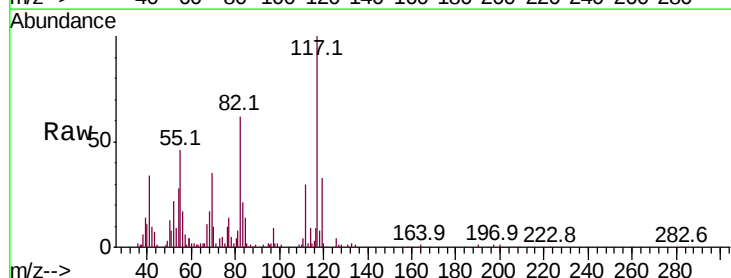
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Sep 2021 15:00

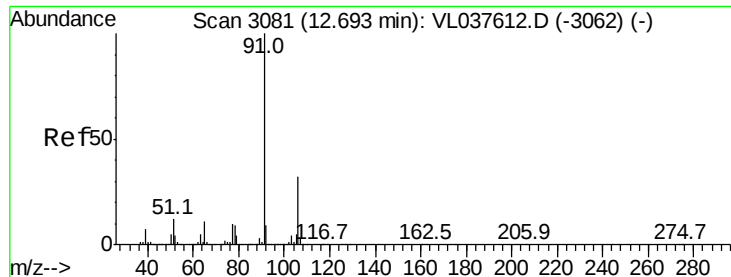
Tot Ion:117 Resp: 3620445
Ion Ratio Lower Upper
117 100
82 62.4 50.6 75.8
119 34.4 26.2 39.2



#57
Chlorobenzene
Concen: 0.032 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. 0.03 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

Tgt Ion:112 Resp: 9646
Ion Ratio Lower Upper
112 100
77 0.0 52.1 78.1#
114 15.9 29.2 35.6#





#58

Ethyl Benzene

Concen: 0.238 ppbv

RT: 12.72 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

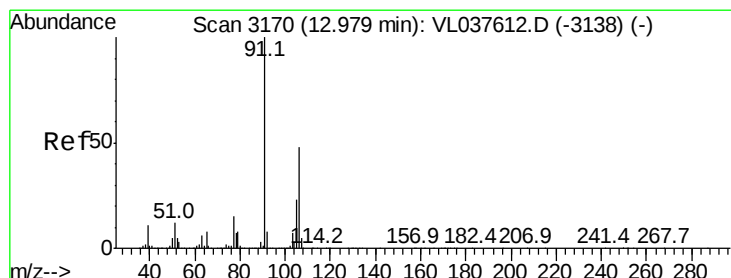
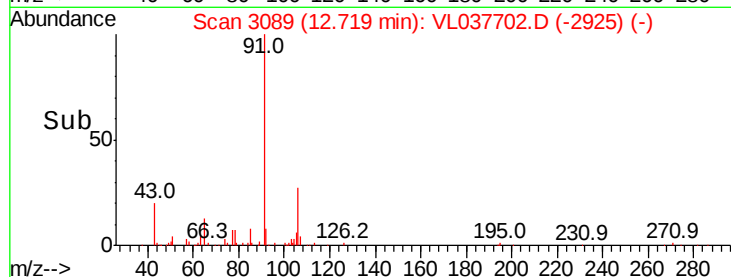
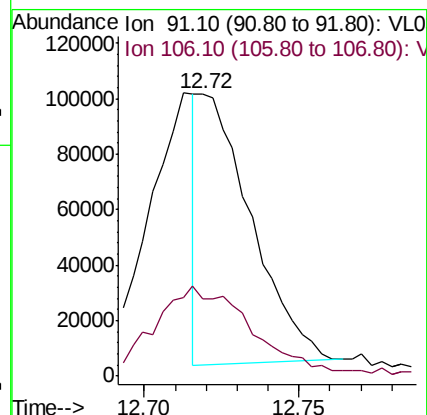
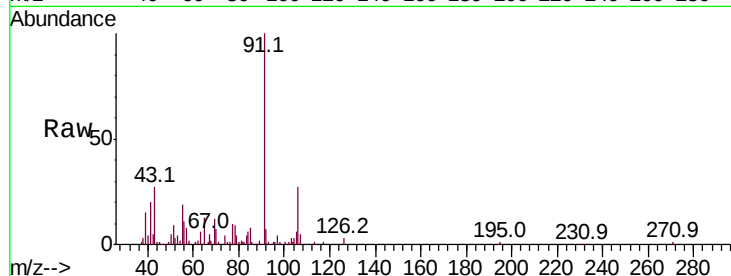
Acq: 28 Sep 2021 15:00

Tot Ion: 91 Resp: 114244

Ion Ratio Lower Upper

91 100

106 25.7 25.3 37.9



#59

m/p-Xylene

Concen: 0.317 ppbv

RT: 13.00 min Scan# 3177

Delta R.T. 0.02 min

Lab File: VL037702.D

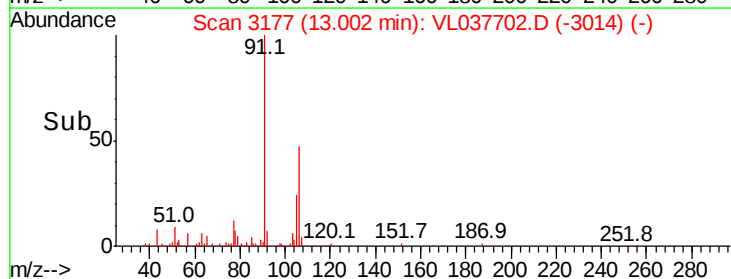
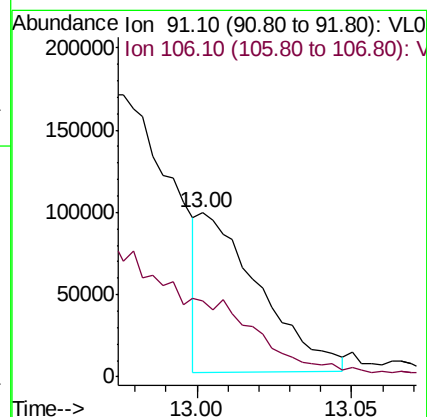
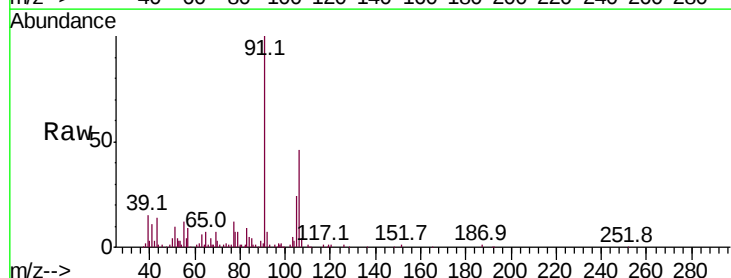
Acq: 28 Sep 2021 15:00

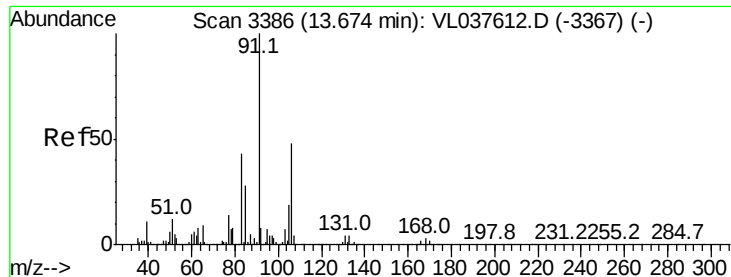
Tgt Ion: 91 Resp: 132837

Ion Ratio Lower Upper

91 100

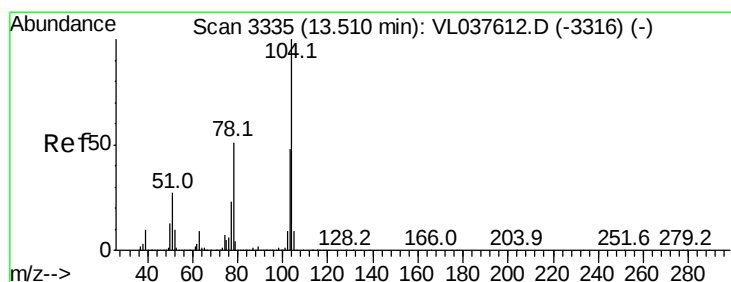
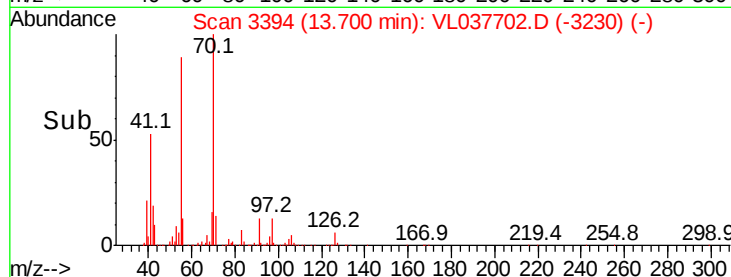
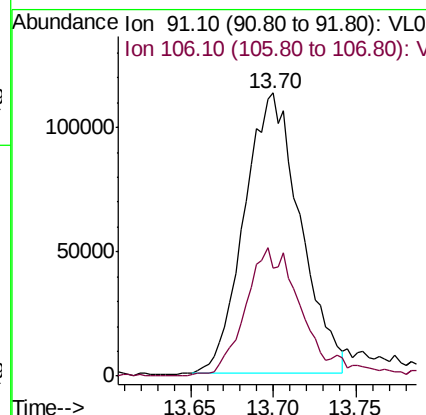
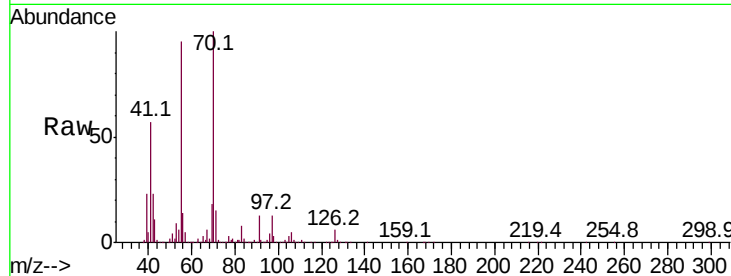
106 0.0 36.6 55.0#





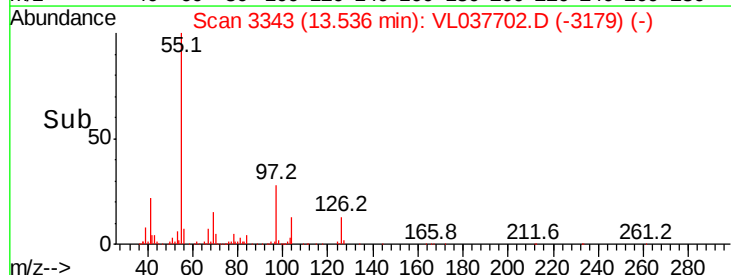
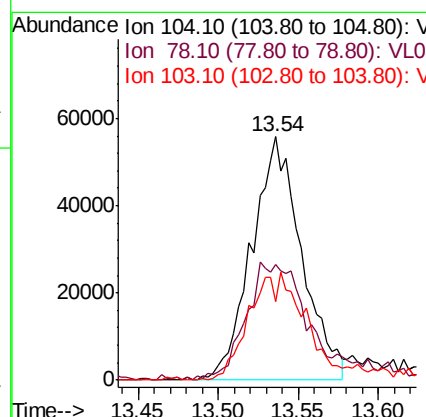
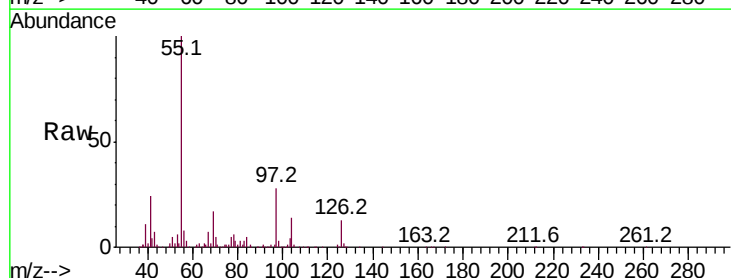
#60
o-Xylene
Concen: 0.665 ppbv
RT: 13.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Sep 2021 15:00

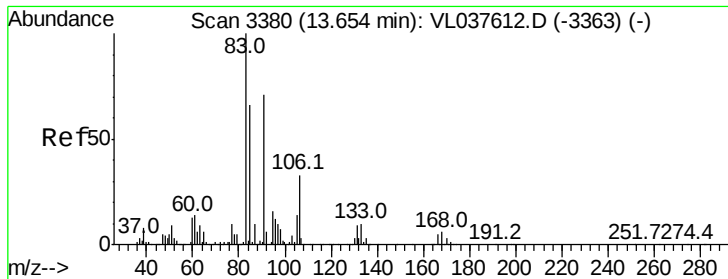
Tot Ion: 91 Resp: 264975
Ion Ratio Lower Upper
91 100
106 48.2 23.0 69.0



#61
Styrene
Concen: 0.610 ppbv
RT: 13.54 min Scan# 3343
Delta R.T. 0.03 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

Tgt Ion:104 Resp: 119954
Ion Ratio Lower Upper
104 100
78 66.7 39.7 59.5#
103 54.8 38.8 58.2





#63

1,1,2,2-Tetrachloroethane

Concen: 0.362 ppbv

RT: 13.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Sep 2021 15:00

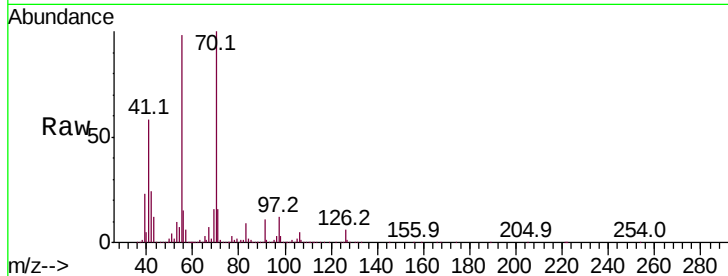
Tot Ion: 83 Resp: 112837

Ion Ratio Lower Upper

83 100

131 0.7 5.1 15.3#

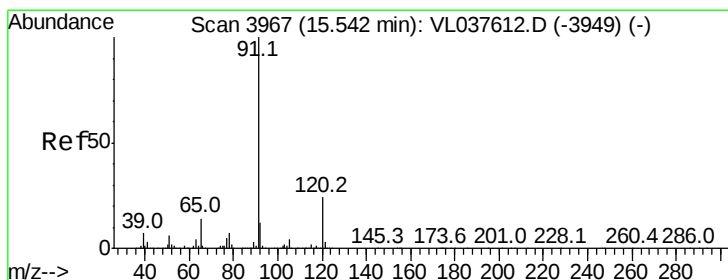
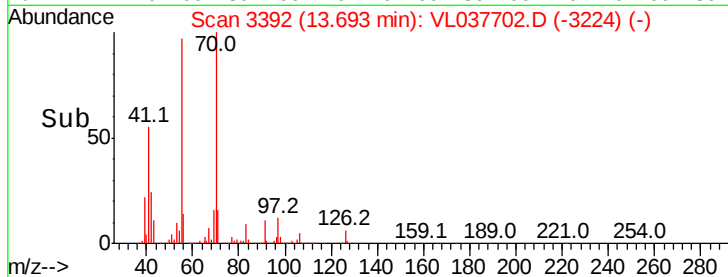
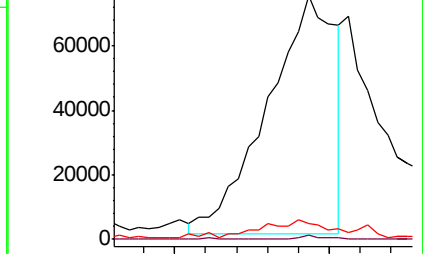
85 9.6 33.3 99.9#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.033 ppbv

RT: 15.79 min Scan# 4043

Delta R.T. 0.24 min

Lab File: VL037702.D

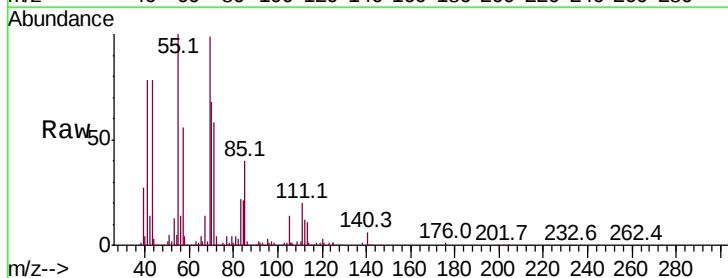
Acq: 28 Sep 2021 15:00

Tgt Ion: 120 Resp: 4809

Ion Ratio Lower Upper

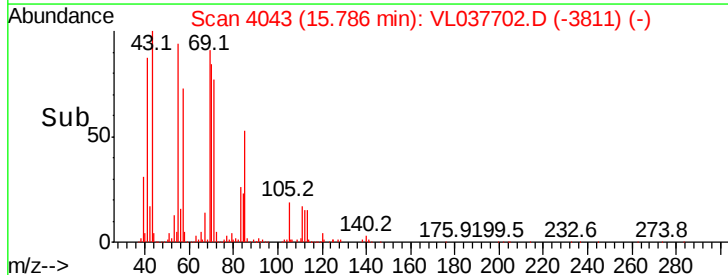
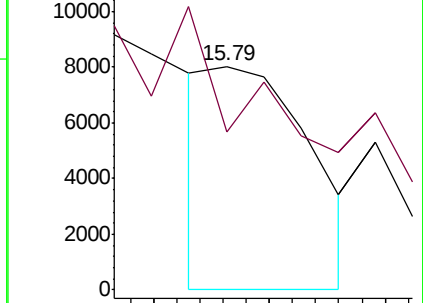
120 100

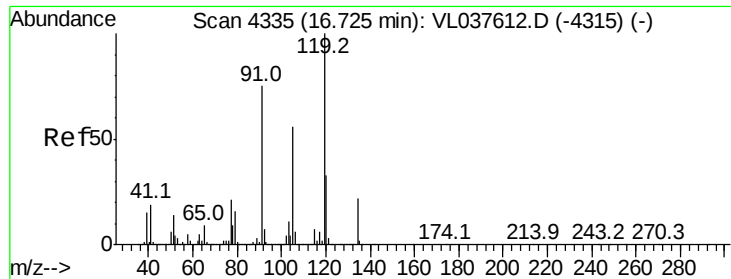
91 401.9 345.0 517.4



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.051 ppbv

RT: 16.77

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 28 Sep 2021 15:00

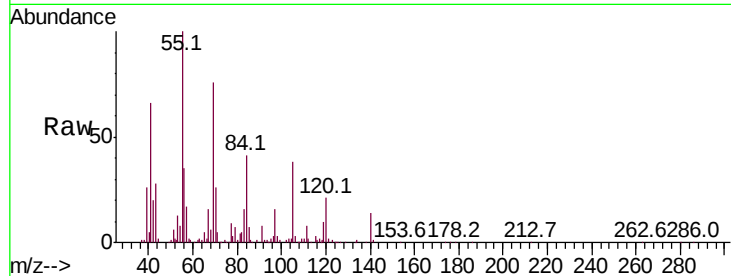
Tot Ion: 119 Resp: 25687

Ion Ratio Lower Upper

119 100

91 143.8 61.9 92.9#

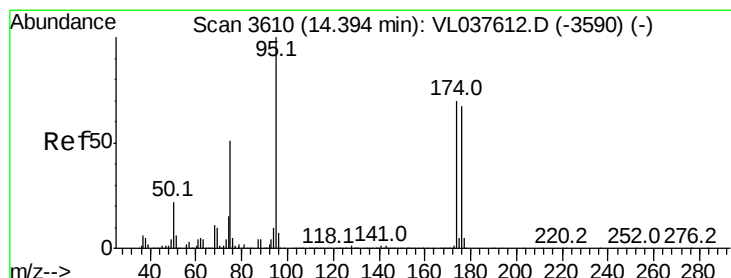
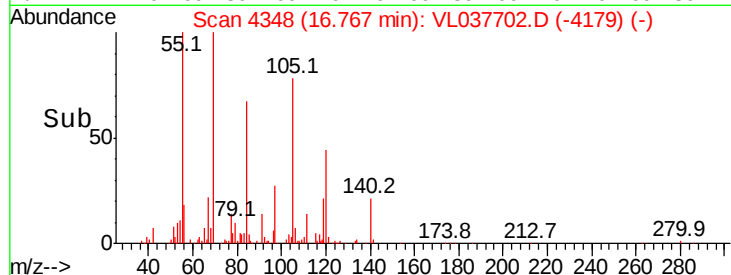
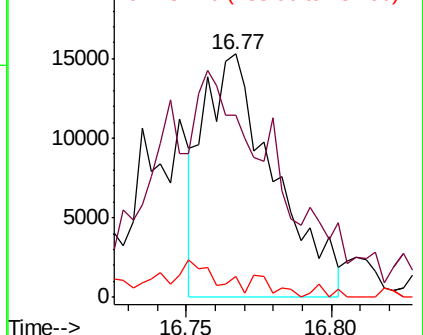
134 0.0 16.5 24.7#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.084 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. 0.03 min

Lab File: VL037702.D

Acq: 28 Sep 2021 15:00

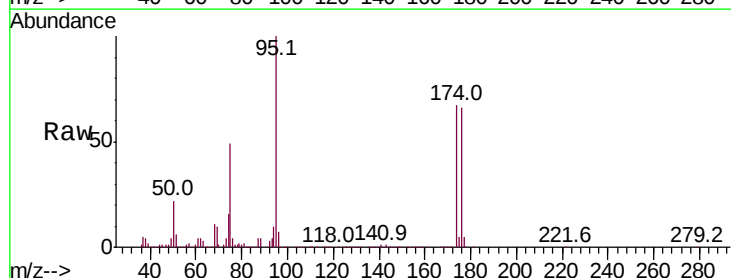
Tgt Ion: 95 Resp: 2638357

Ion Ratio Lower Upper

95 100

174 75.5 56.3 84.5

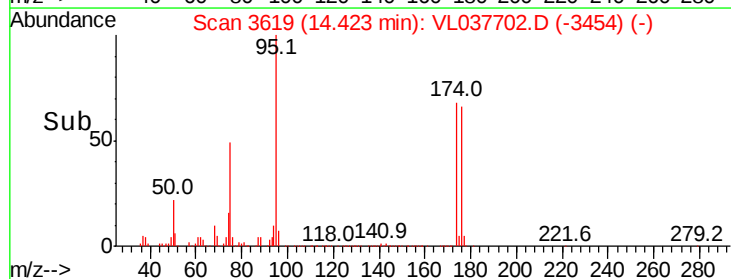
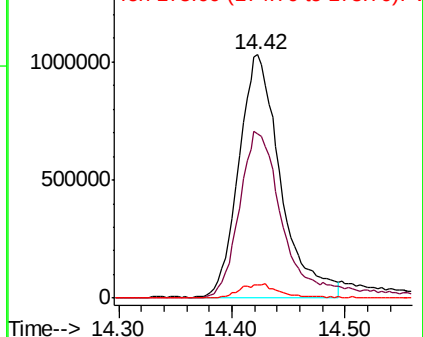
175 5.8 4.4 6.6

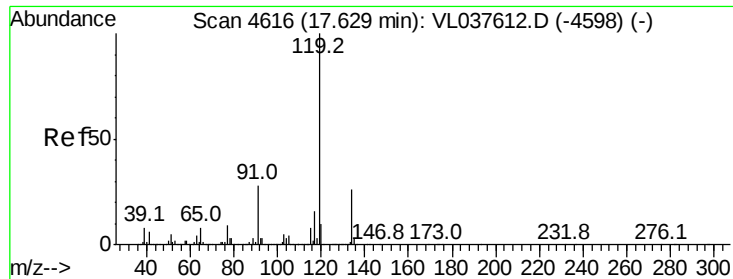


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

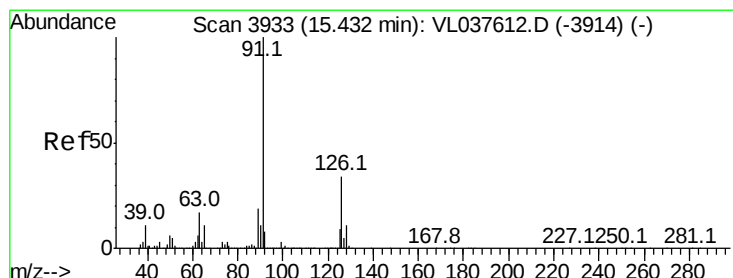
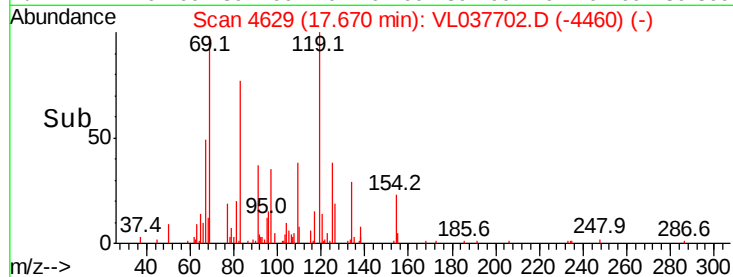
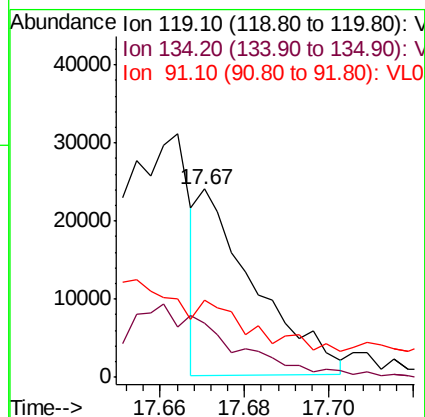
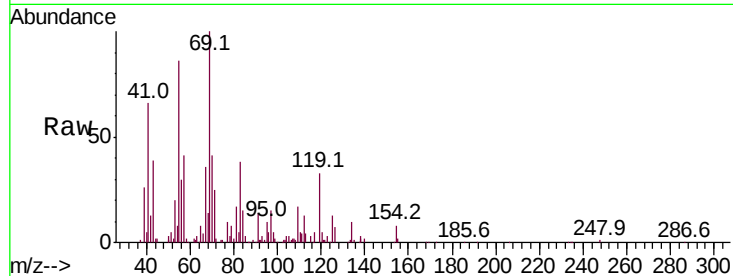
Ion 175.00 (174.70 to 175.70): V





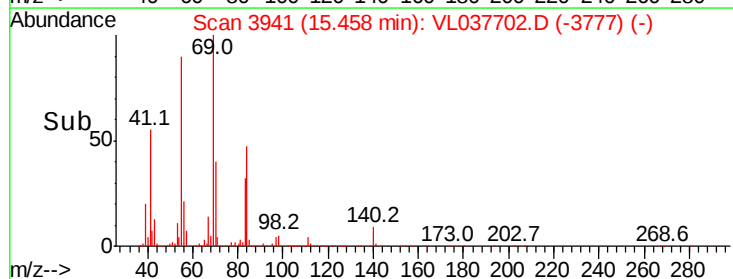
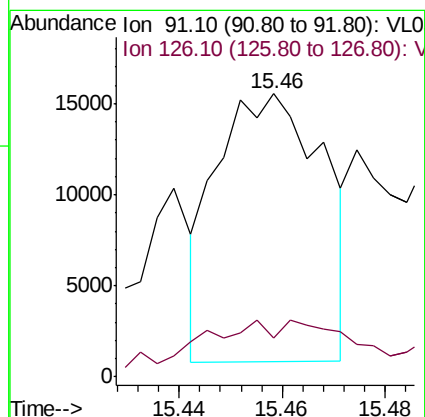
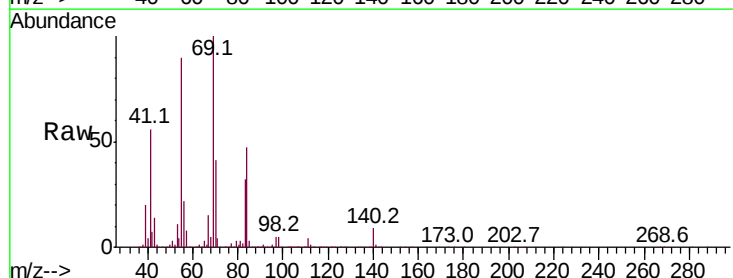
#69
 p-Isopropyltoluene
 Concen: 0.040 ppbv
 RT: 17.67
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Sep 2021 15:00

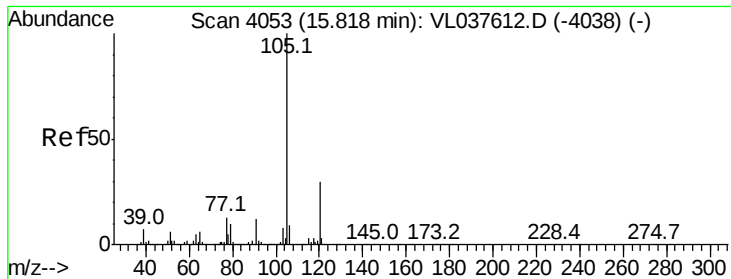
Tot Ion: 119 Resp: 22269
 Ion Ratio Lower Upper
 119 100
 134 0.0 21.2 31.8#
 91 0.0 22.2 33.2#



#71
 2-Chlorotoluene
 Concen: 0.053 ppbv
 RT: 15.46 min Scan# 3941
 Delta R.T. 0.03 min
 Lab File: VL037702.D
 Acq: 28 Sep 2021 15:00

Tgt Ion: 91 Resp: 21130
 Ion Ratio Lower Upper
 91 100
 126 37.7 13.2 52.8





#72

4-Ethyltoluene

Concen: 0.098 ppbv

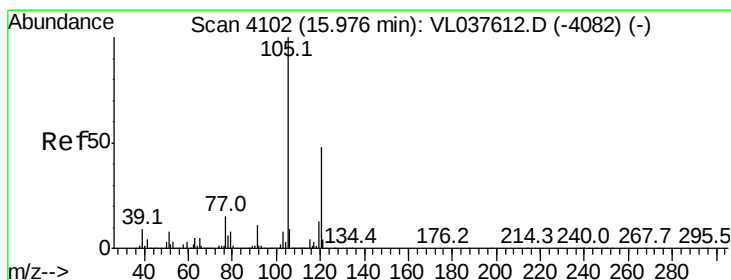
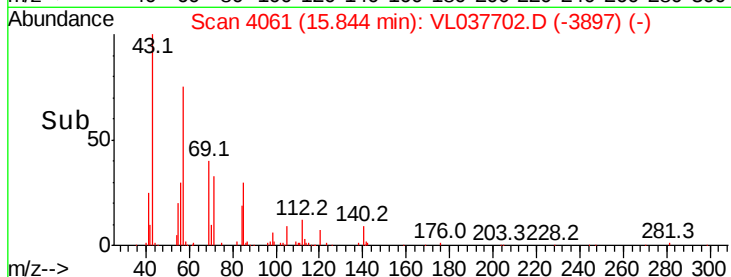
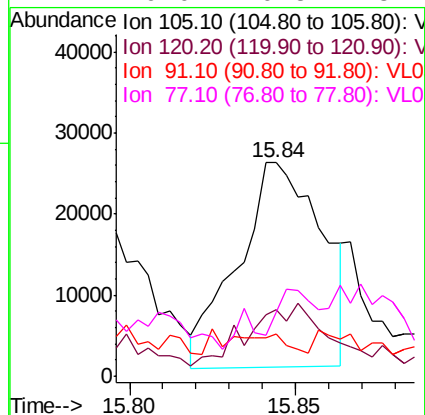
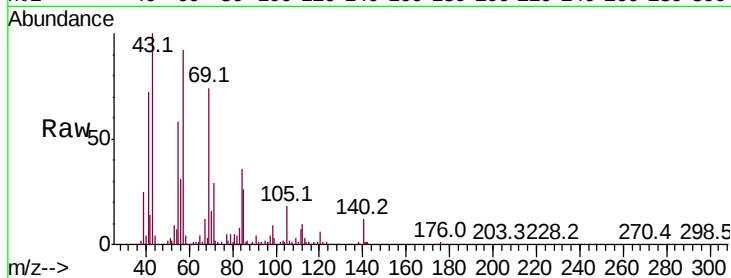
RT: 15.84

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 28 Sep 2021 15:00

Tot Ion:	105	Resp:	44707
Ion	Ratio	Lower	Upper
105	100		
120	44.7	24.7	37.1#
91	14.6	9.9	14.9
77	0.0	10.5	15.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.045 ppbv

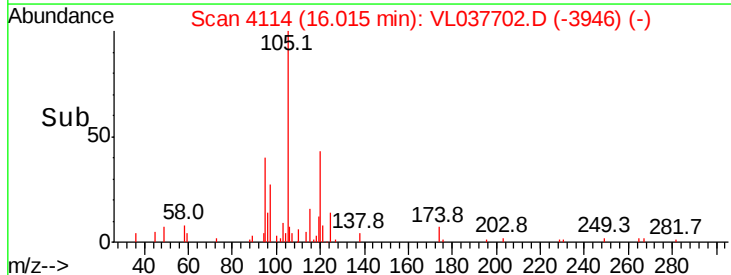
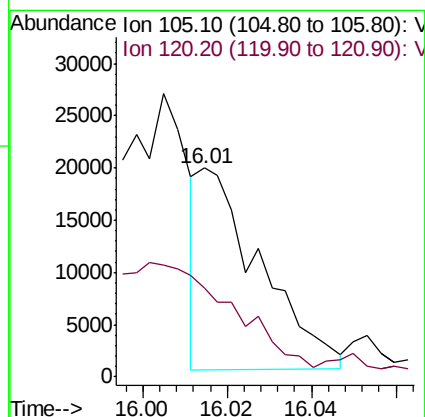
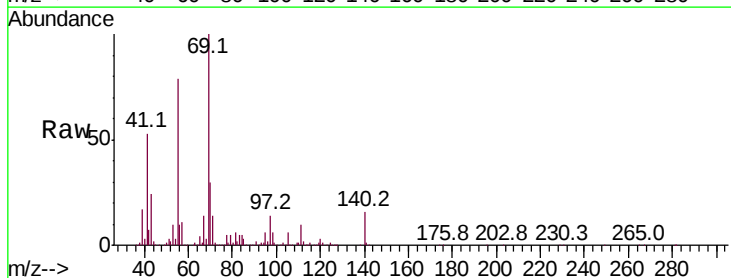
RT: 16.01 min Scan# 4114

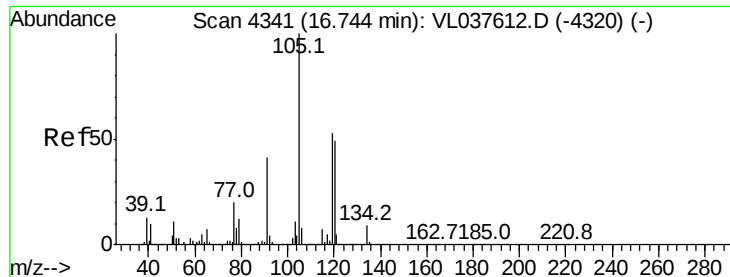
Delta R.T. 0.04 min

Lab File: VL037702.D

Acq: 28 Sep 2021 15:00

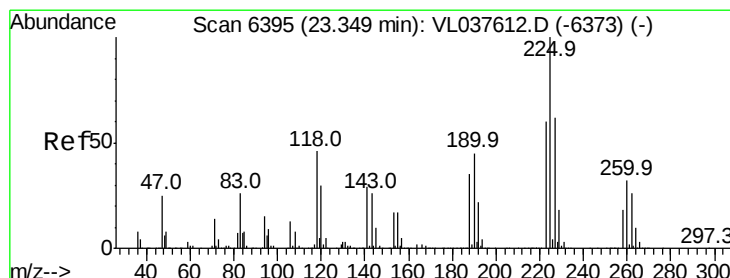
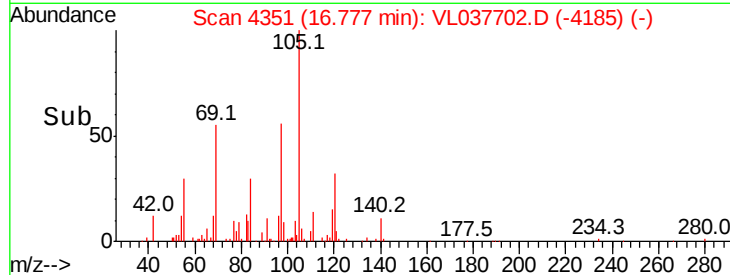
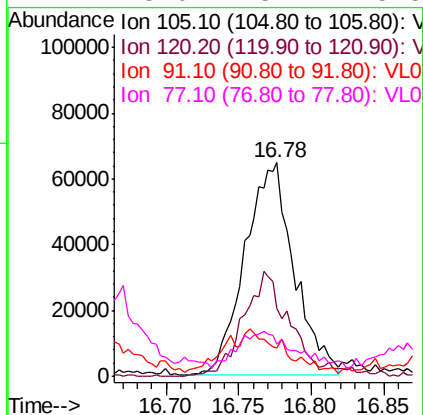
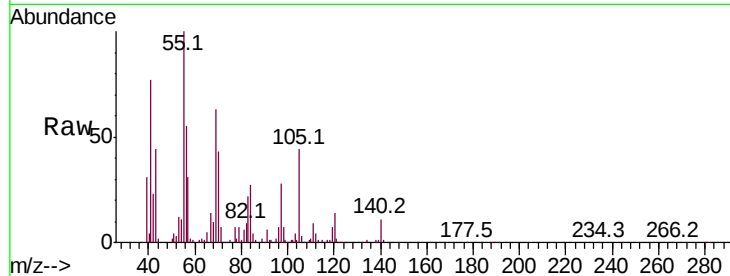
Tgt Ion:	105	Resp:	19311
Ion	Ratio	Lower	Upper
105	100		
120	38.5	38.3	57.5





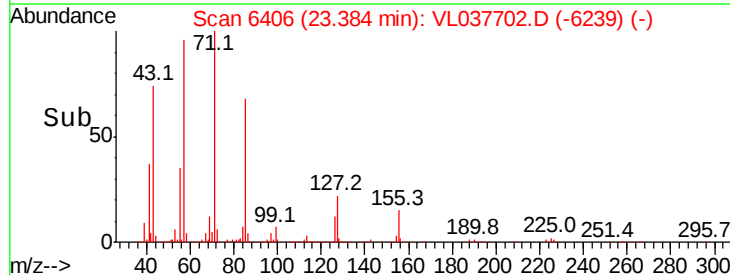
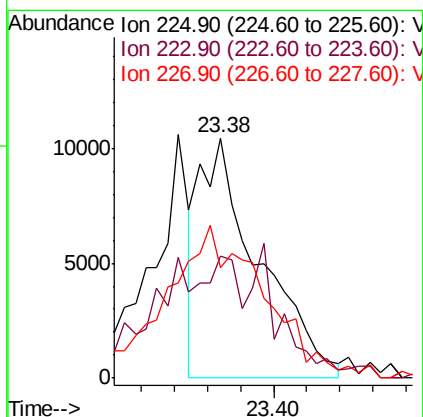
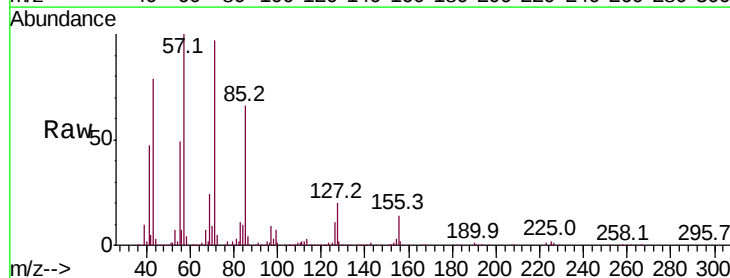
#74
1,2,4-Trimethylbenzene
Concen: 0.339 ppbv
RT: 16.78 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Sep 2021 15:00

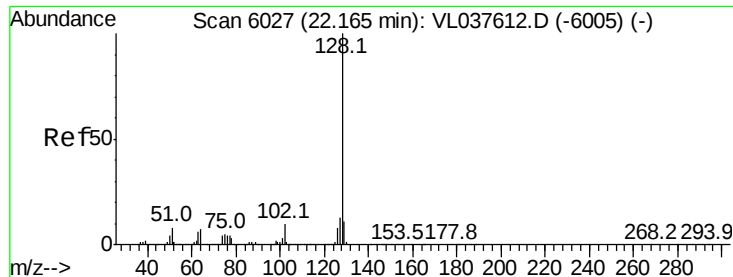
Tot Ion:	105	Resp:	152507
Ion Ratio	Lower	Upper	
105	100		
120	30.3	39.4	59.0#
91	11.5	33.3	49.9#
77	8.0	15.7	23.5#



#78
Hexachloro-1,3-Butadiene
Concen: 0.058 ppbv
RT: 23.38 min Scan# 6406
Delta R.T.: 0.04 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

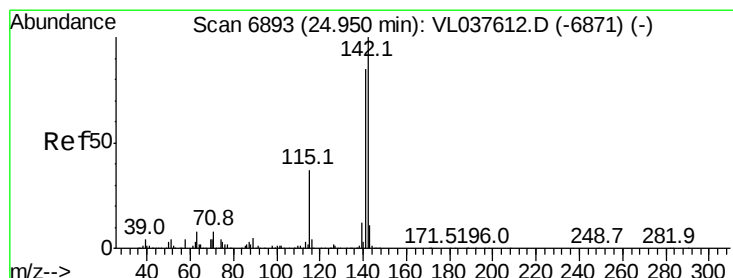
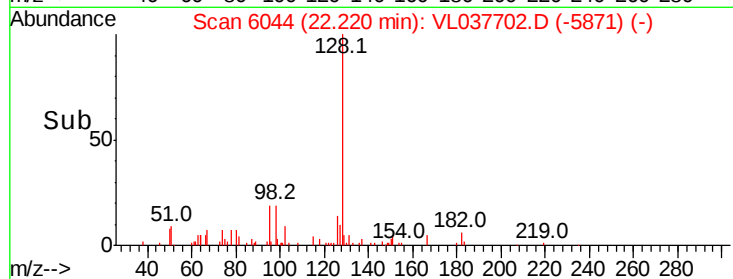
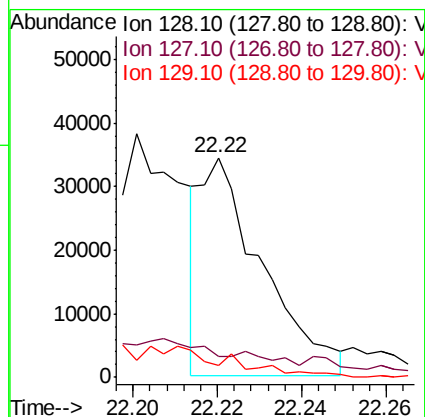
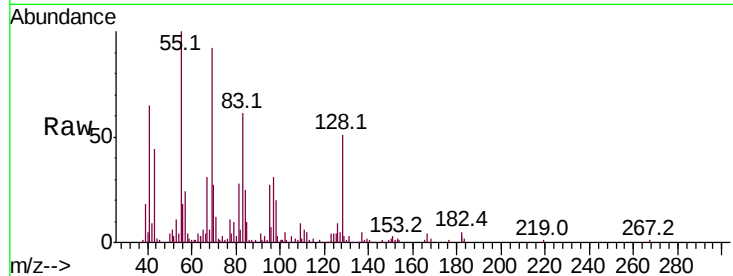
Tgt Ion:	225	Resp:	13013
Ion Ratio	Lower	Upper	
225	100		
223	103.0	51.1	76.7#
227	109.4	52.2	78.4#





#79
Naphthalene
Concen: 0.125 ppbv
RT: 22.22 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Sep 2021 15:00

Tot Ion:128	Resp:	34351
Ion Ratio	Lower	Upper
128	100	
127	5.6	10.6 16.0#
129	4.9	8.6 12.8#



#80
Naphthalene, 2-methyl-
Concen: 0.460 ppbv
RT: 24.98 min Scan# 6901
Delta R.T.: 0.03 min
Lab File: VL037702.D
Acq: 28 Sep 2021 15:00

Tgt Ion:142	Resp:	28998
Ion Ratio	Lower	Upper
142	100	
141	70.9	70.9 106.3
115	39.4	29.6 44.4

