

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090821\
 Data File : VL037584.D
 Acq On : 8 Sep 2021 23:16
 Operator : SY/AP
 Sample : M3662-03 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Quant Time: Sep 09 09:14:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1559252	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4673907	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4253224	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3214455	10.64	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	22030	0.088	ppbv #	84
3) Chlorodifluoromethane	2.97	51	104067	0.349	ppbv #	76
4) Chloromethane	3.14	50	4623	0.043	ppbv #	1
9) Propene	3.02	41	26739	0.250	ppbv #	41
10) Heptane	8.14	43	114788	0.467	ppbv	99
11) Trichlorofluoromethane	3.95	101	7139	0.030	ppbv #	82
13) Ethanol	3.62	45	21120	2.032	ppbv #	1
15) Acetone	3.85	43	2596735	16.364	ppbv	97
16) 1,3-Butadiene	3.33	39	11741	0.115	ppbv #	10
17) tert-Butyl alcohol	4.30	59	19667	0.136	ppbv #	43
19) Isopropyl Alcohol	3.98	45	28044	0.308	ppbv #	95
20) Methylene Chloride	4.35	84	297955	3.750	ppbv	96
23) Vinyl Acetate	5.09	43	14784	0.063	ppbv #	80
25) Ethyl Acetate	5.70	43	637397	1.582	ppbv #	78
26) Hexane	5.70	57	895943	4.549	ppbv #	46
29) Chloroform	5.76	83	742361	2.659	ppbv	99
30) Cyclohexane	7.15	84	49566	0.302	ppbv #	29
34) 2-Butanone	5.26	43	400130	2.096	ppbv	91
36) Benzene	6.90	78	44610	0.114	ppbv #	87
38) Trichloroethene	7.85	130	30175	0.187	ppbv	88
39) 1,2-Dichloropropane	7.19	63	1095204	7.254	ppbv #	27
41) Tetrahydrofuran	5.70	42	346440	3.768	ppbv #	49
44) 2,2,4-Trimethylpentane	7.89	57	44875	0.068	ppbv #	1
50) 4-Methyl-2-Pentanone	8.77	43	16075	0.065	ppbv #	38
51) 2-Hexanone	10.15	43	336854	2.941	ppbv #	90
52) Tetrachloroethene	11.24	164	1756723	10.911	ppbv	98
53) Toluene	9.82	91	1407847	3.138	ppbv	100
57) Chlorobenzene	12.17	112	13076	0.037	ppbv #	37
58) Ethyl Benzene	12.73	91	604636	1.024	ppbv	93
59) m/p-Xylene	12.98	91	1881335	3.677	ppbv	95
60) o-Xylene	13.70	91	655673	1.373	ppbv	96
62) Isopropylbenzene	14.68	105	77324	0.115	ppbv #	86
63) 1,1,2,2-Tetrachloroethane	13.68	83	28244	0.080	ppbv #	23
64) n-propylbenzene	15.57	120	77510	0.452	ppbv	74
65) tert-Butylbenzene	16.78	119	68797	0.112	ppbv #	20
66) Benzyl Chloride	17.02	91	1558	0.056	ppbv #	1
67) sec-Butylbenzene	17.60	105	136599	0.159	ppbv	93
69) p-Isopropyltoluene	17.67	119	24007	0.034	ppbv #	48
71) 2-Chlorotoluene	15.57	91	359430	0.727	ppbv #	41
72) 4-Ethyltoluene	15.85	105	485959	0.855	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.01	105	266460	0.504	ppbv	99

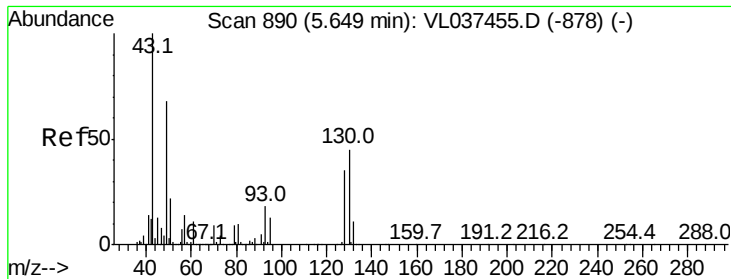
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090821\
Data File : VL037584.D
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.78	105	1244690	2.215	ppbv #	65
79) Naphthalene	22.20	128	97893	0.260	ppbv #	90

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.03 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

SV-1

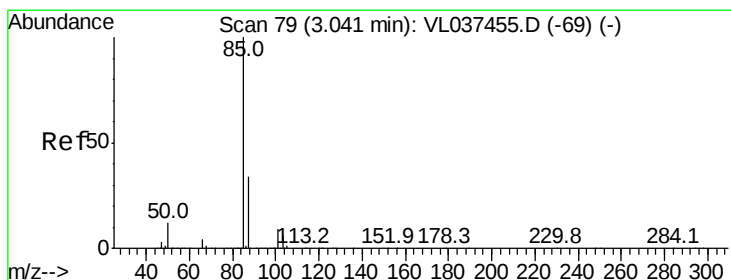
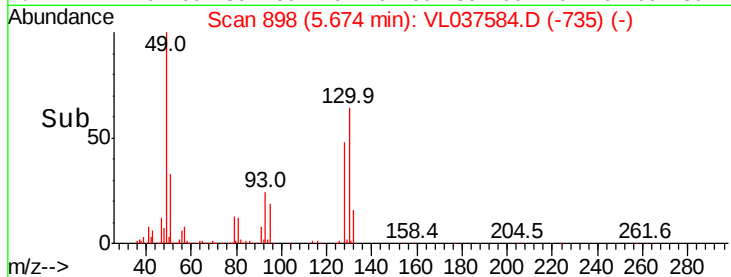
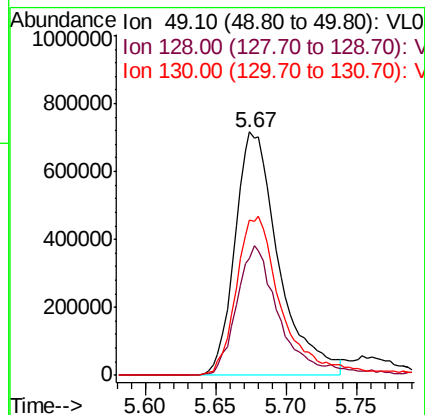
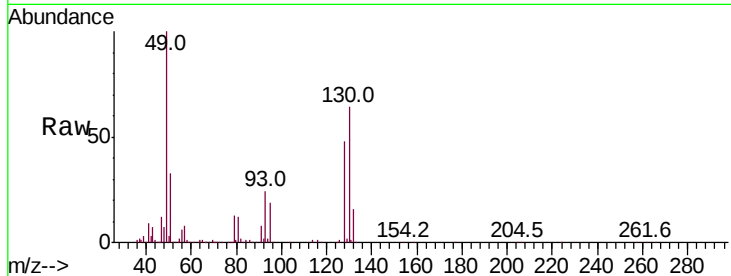
Tot Ion: 49 Resp: 1559252

Ion Ratio Lower Upper

49 100

128 53.4 27.5 82.4

130 69.5 34.0 101.8



#2

Dichlorodifluoromethane

Concen: 0.088 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL037584.D

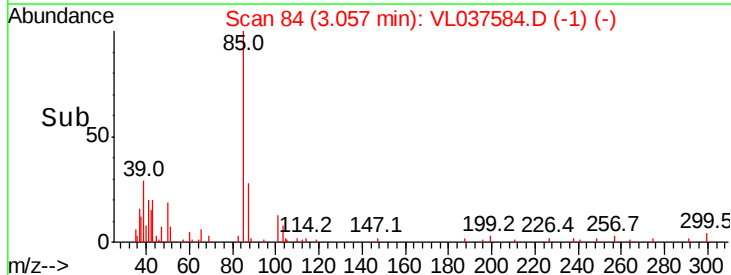
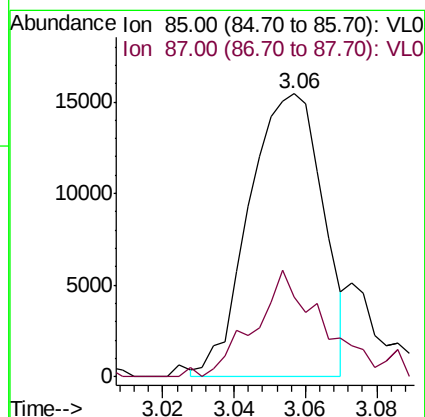
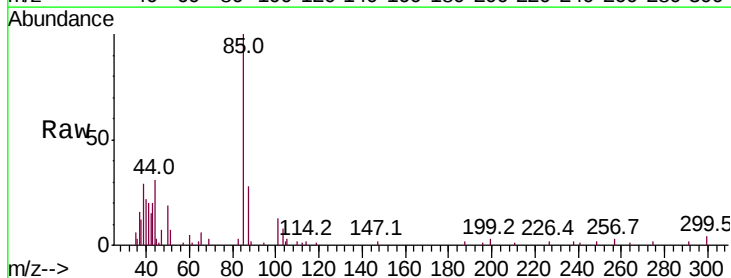
Acq: 8 Sep 2021 23:16

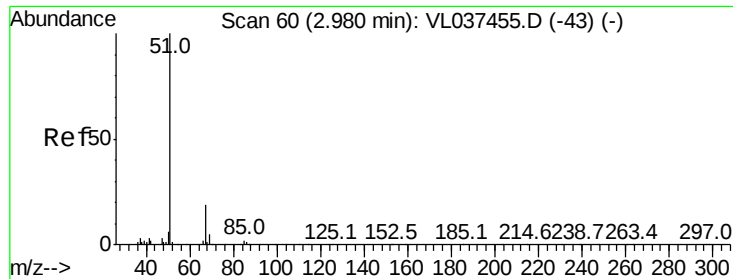
Tgt Ion: 85 Resp: 22030

Ion Ratio Lower Upper

85 100

87 25.5 27.6 41.4#

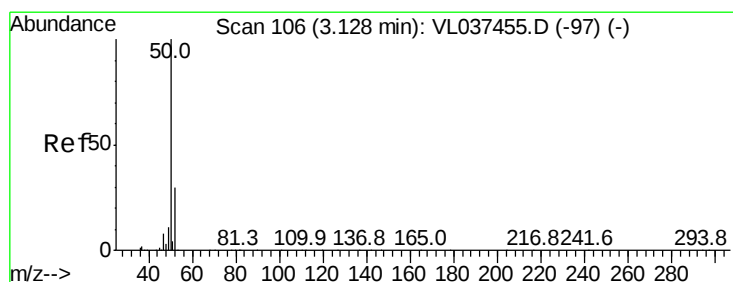
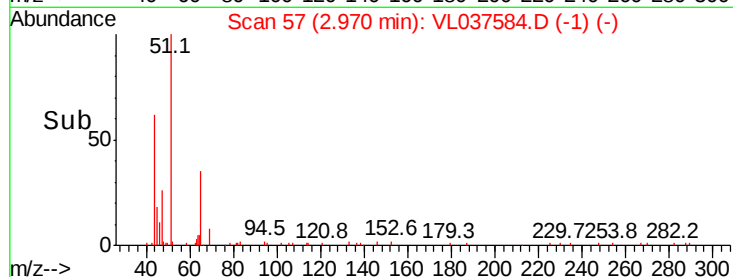
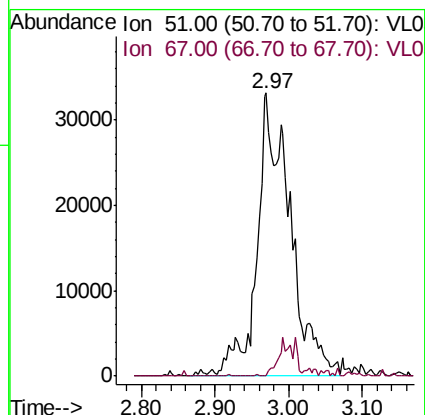
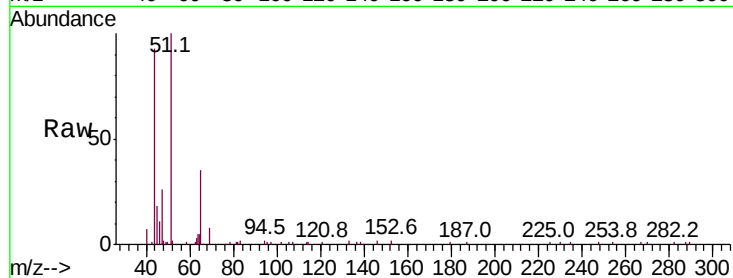




#3
Chlorodifluoromethane
Concen: 0.349 ppbv
RT: 2.97 min Scan# 57
Delta R.T. -0.01 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

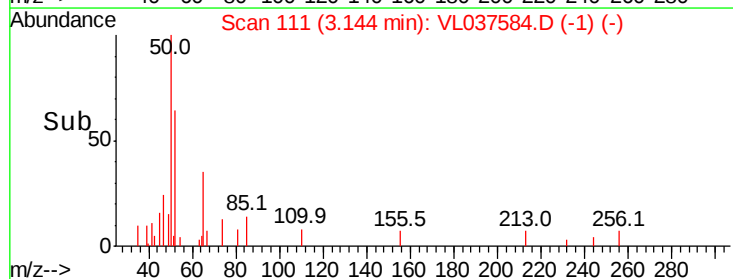
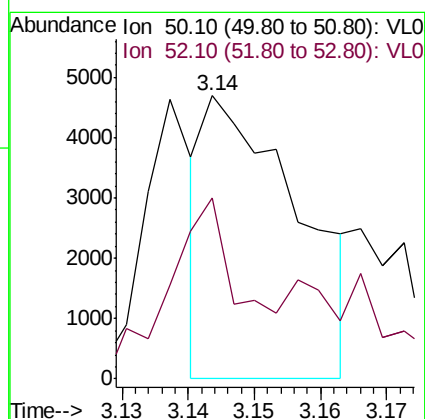
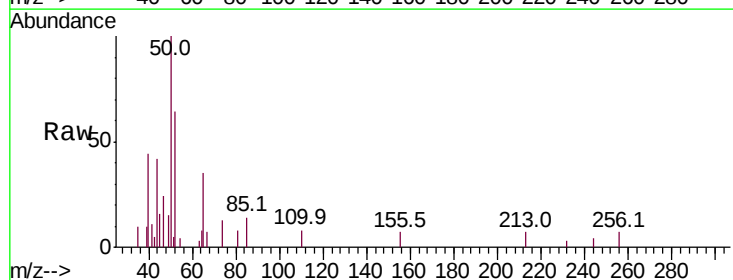
Instrument :
MSVOA_L
ClientSampleId :
SV-1

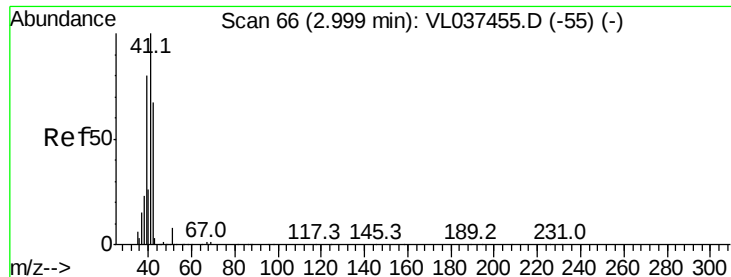
Tot Ion: 51 Resp: 104067
Ion Ratio Lower Upper
51 100
67 6.9 14.2 21.2#



#4
Chloromethane
Concen: 0.043 ppbv
RT: 3.14 min Scan# 111
Delta R.T. 0.02 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion: 50 Resp: 4623
Ion Ratio Lower Upper
50 100
52 89.4 24.0 36.0#





#9

Propene

Concen: 0.250 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

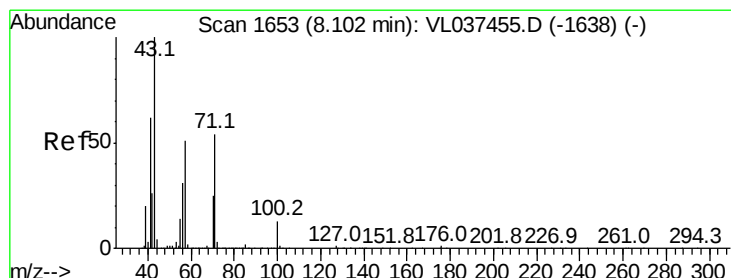
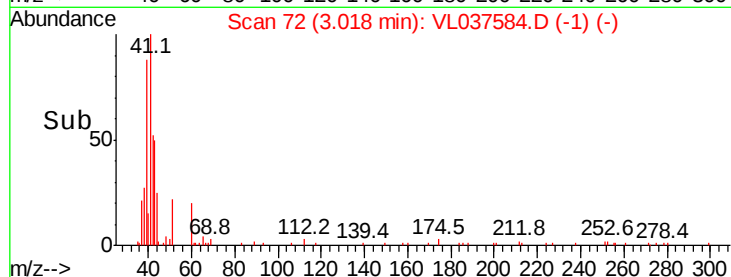
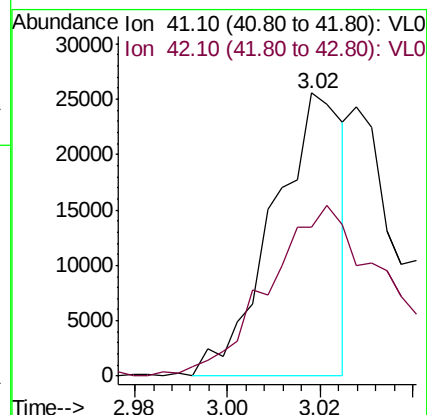
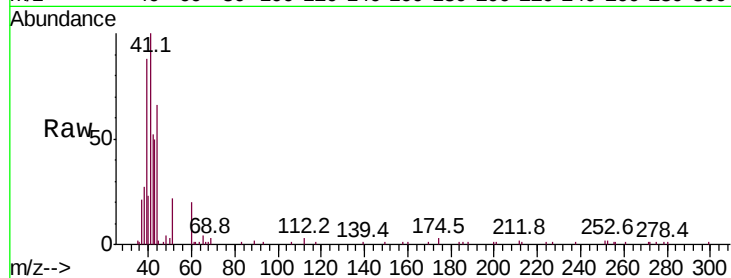
SV-1

Tot Ion: 41 Resp: 26739

Ion Ratio Lower Upper

41 100

42 114.8 53.7 80.5#



#10

Heptane

Concen: 0.467 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.04 min

Lab File: VL037584.D

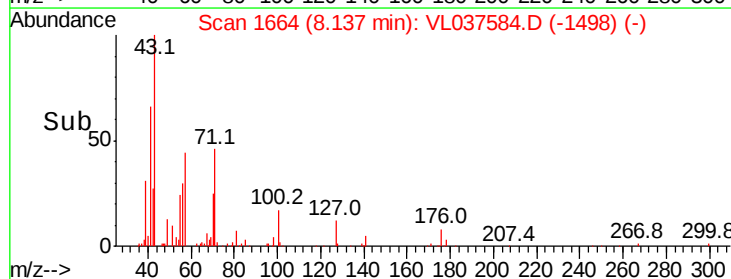
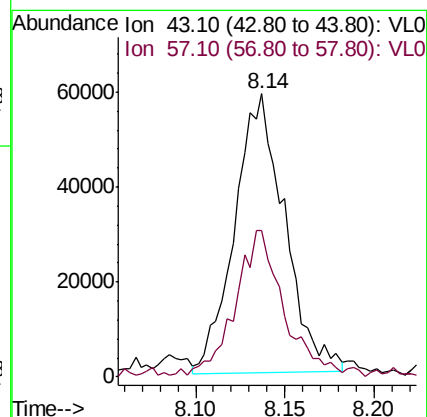
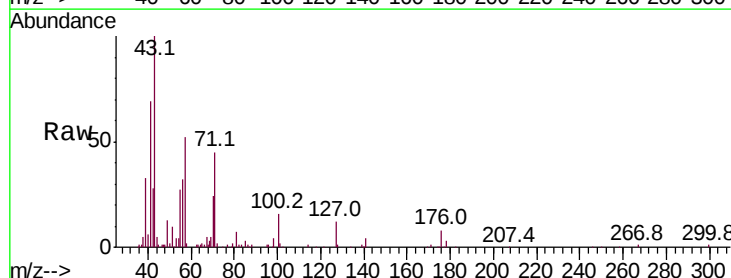
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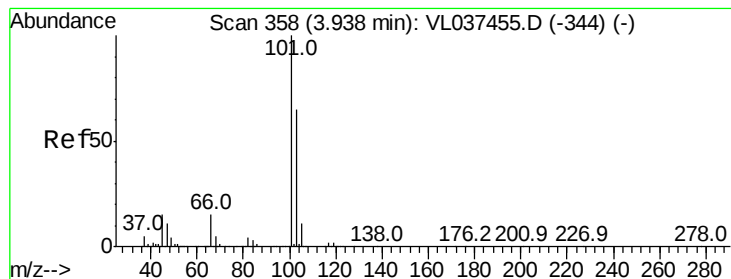
Tgt Ion: 43 Resp: 114788

Ion Ratio Lower Upper

43 100

57 52.3 41.0 61.6





#11

Trichlorofluoromethane

Concen: 0.030 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

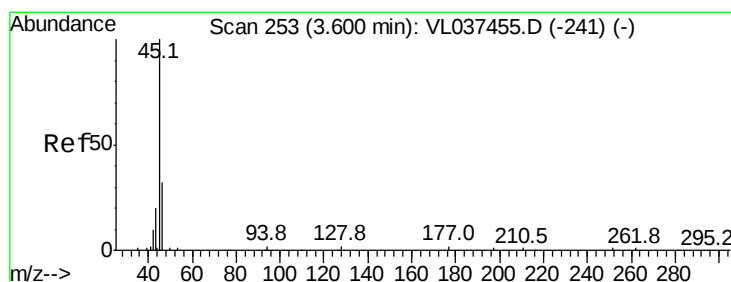
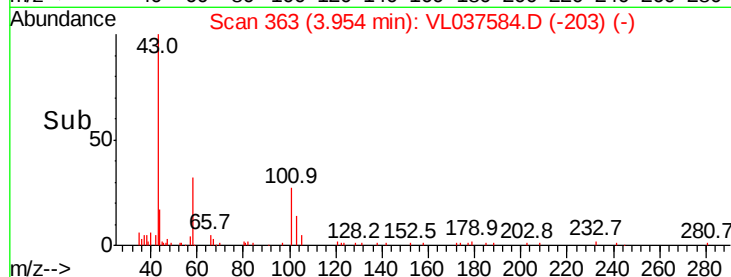
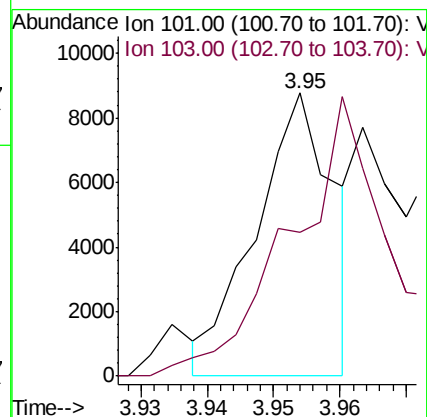
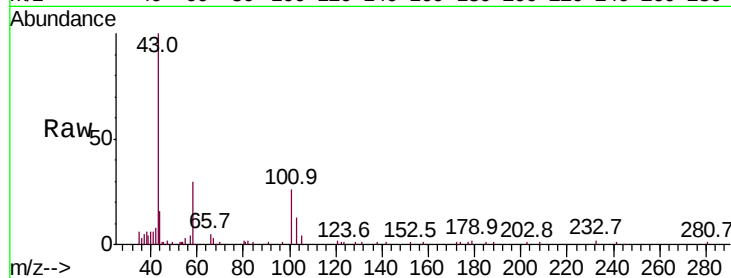
SV-1

Tot Ion:101 Resp: 7139

Ion Ratio Lower Upper

101 100

103 50.6 51.8 77.6#



#13

Ethanol

Concen: 2.032 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL037584.D

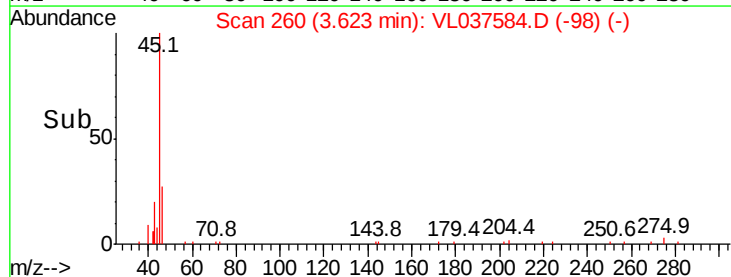
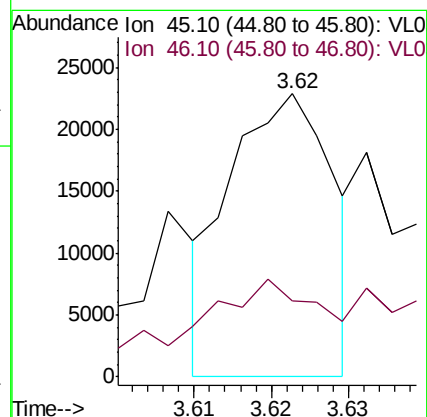
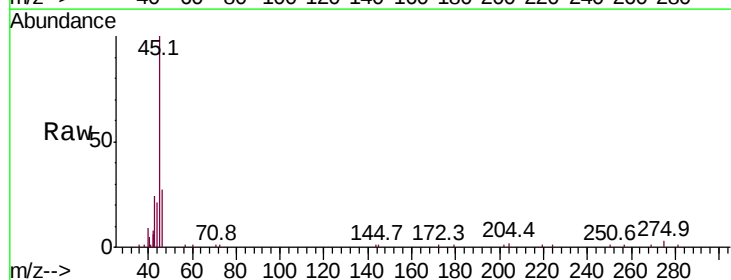
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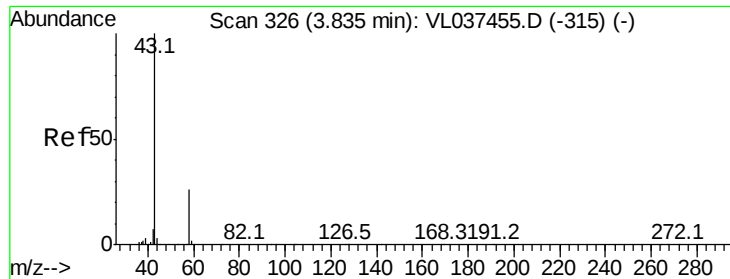
Tgt Ion: 45 Resp: 21120

Ion Ratio Lower Upper

45 100

46 107.8 14.1 56.5#





#15

Acetone

Concen: 16.364 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

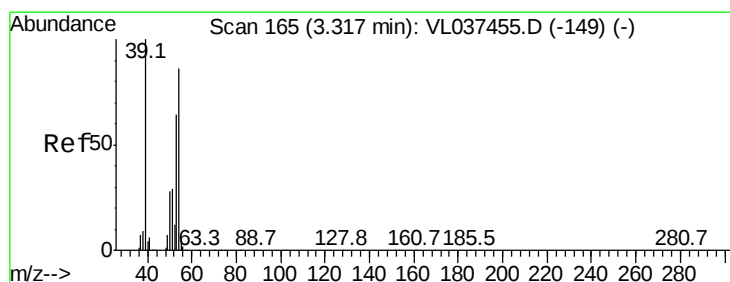
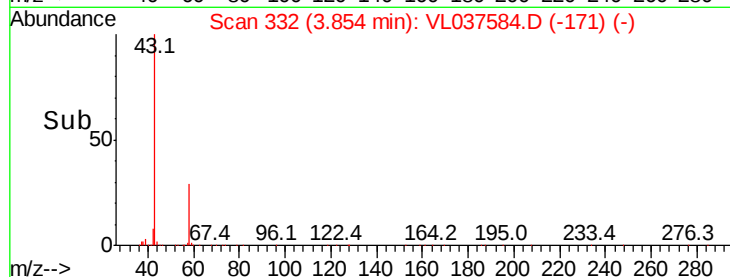
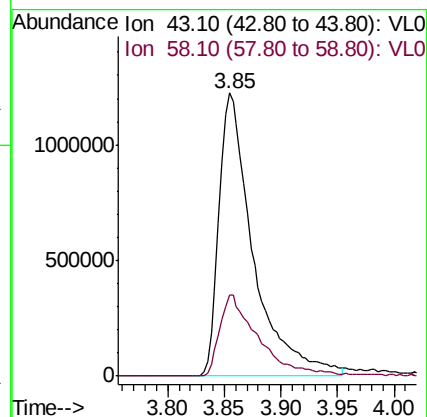
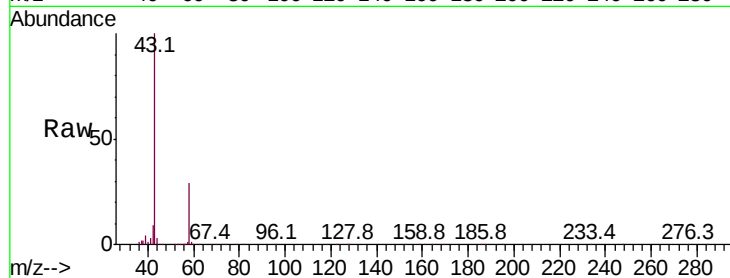
SV-1

Tot Ion: 43 Resp: 2596735

Ion Ratio Lower Upper

43 100

58 32.9 24.8 37.2



#16

1,3-Butadiene

Concen: 0.115 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.01 min

Lab File: VL037584.D

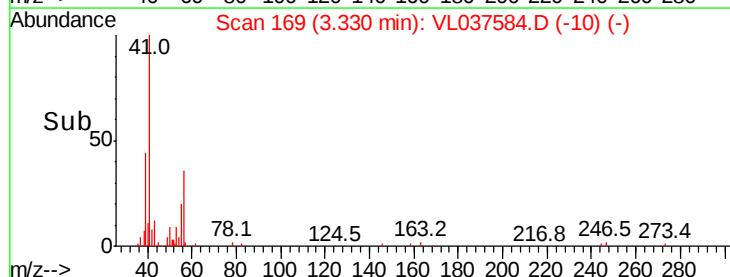
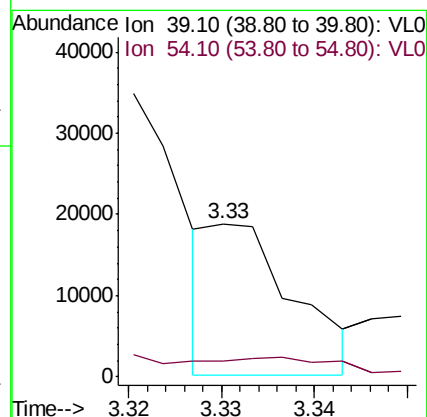
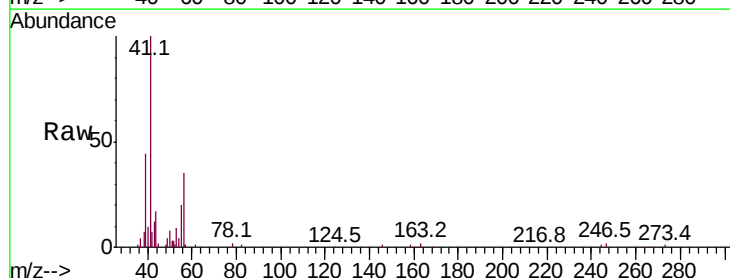
Acq: 8 Sep 2021 23:16

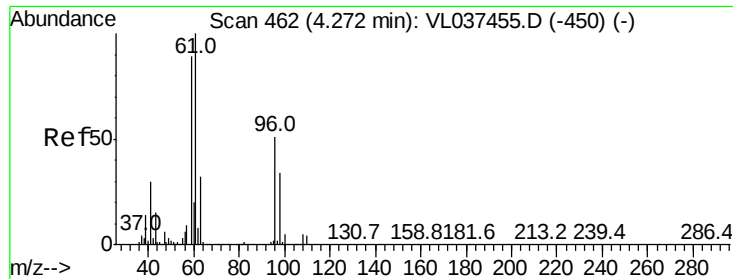
Tgt Ion: 39 Resp: 11741

Ion Ratio Lower Upper

39 100

54 0.0 63.7 95.5#





#17

tert-Butyl alcohol

Concen: 0.136 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.03 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

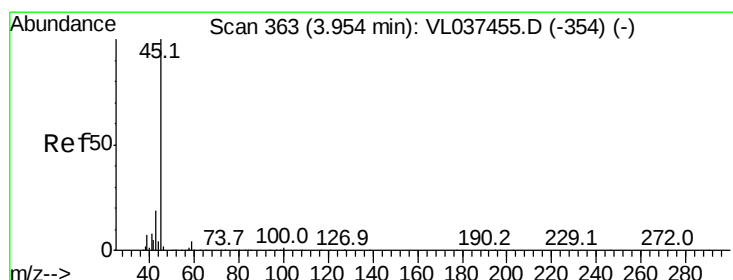
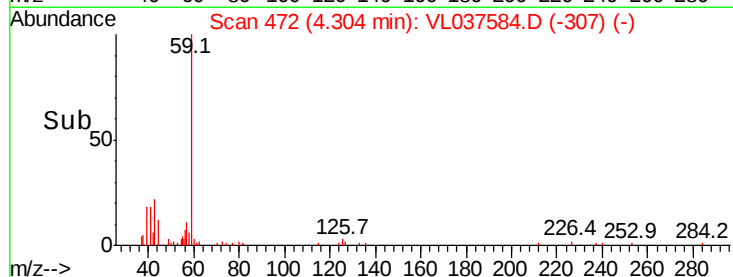
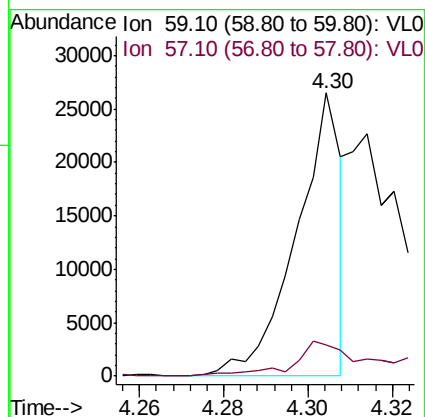
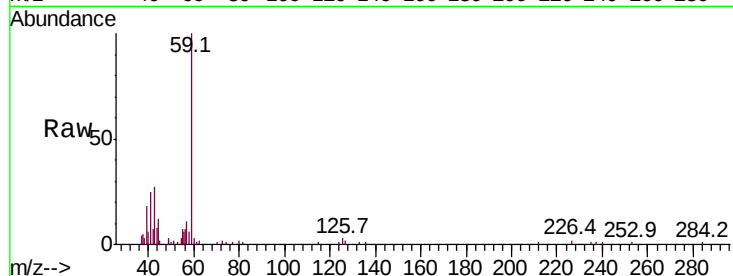
SV-1

Tot Ion: 59 Resp: 19667

Ion Ratio Lower Upper

59 100

57 31.6 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 0.308 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL037584.D

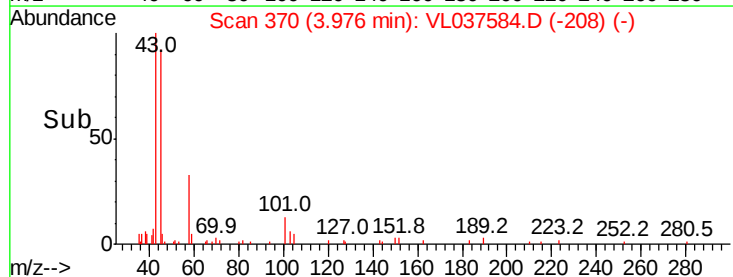
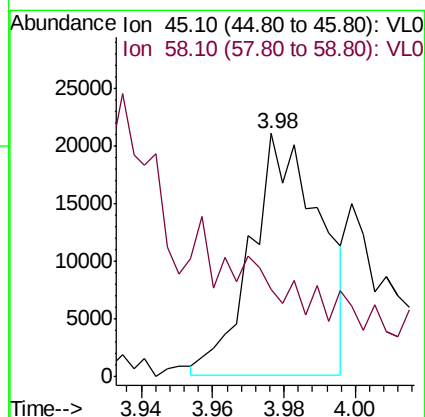
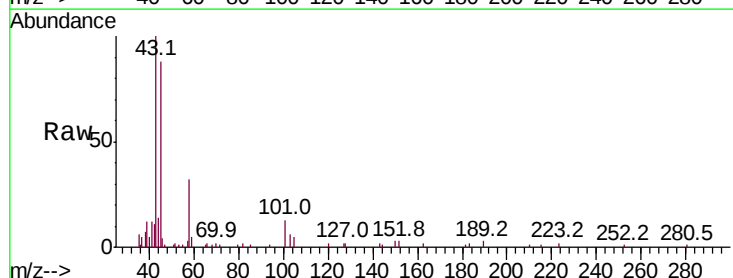
Acq: 8 Sep 2021 23:16

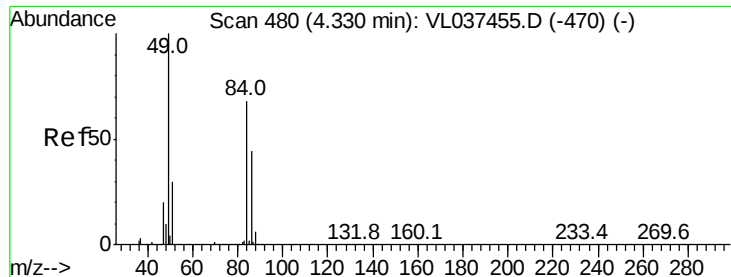
Tgt Ion: 45 Resp: 28044

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#

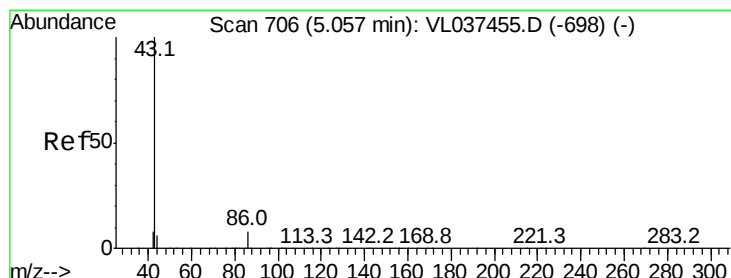
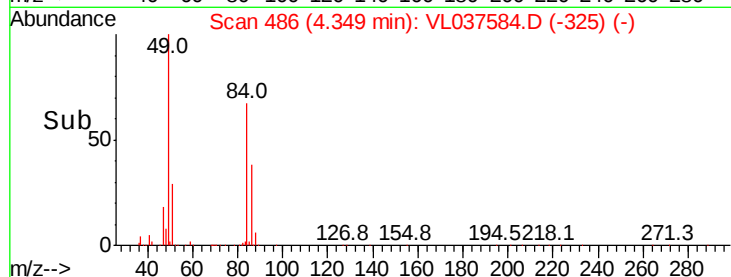
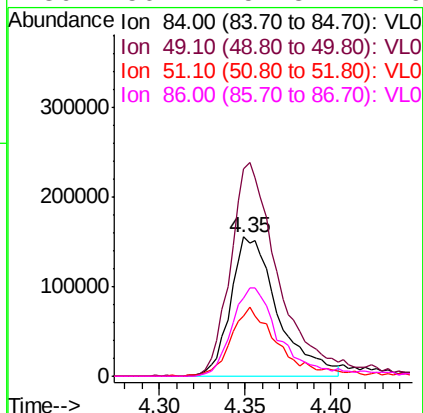
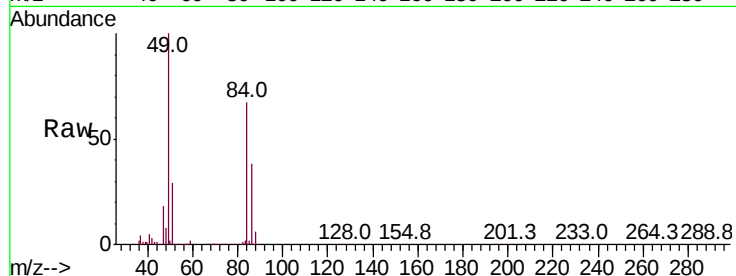




#20
Methvlene Chloride
Concen: 3.750 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.02 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

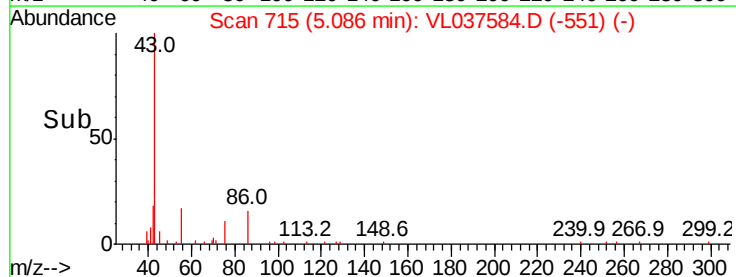
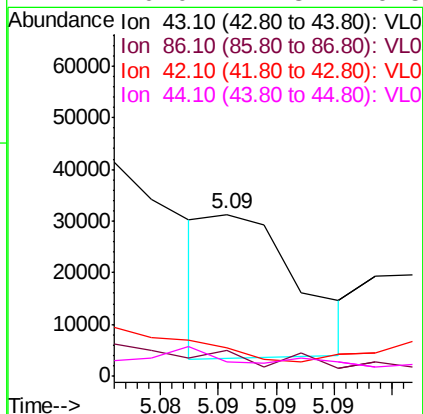
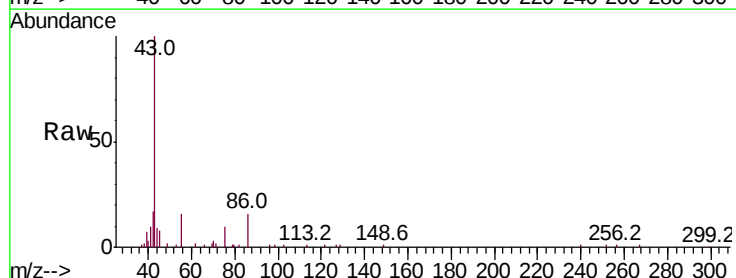
Instrument :
MSVOA_L
ClientSampleId :
SV-1

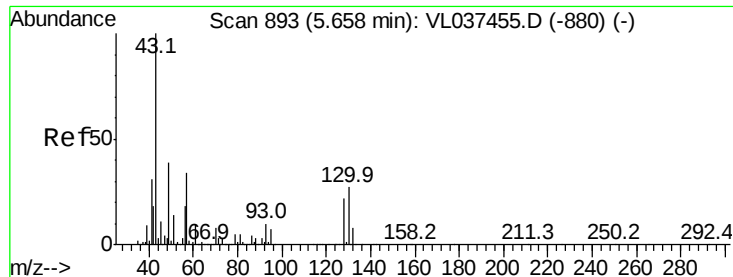
Tot Ion:	84	Resp:	297955
Ion	Ratio	Lower	Upper
84	100		
49	148.8	118.2	177.2
51	42.1	36.6	55.0
86	56.4	51.8	77.6



#23
Vinyl Acetate
Concen: 0.063 ppbv
RT: 5.09 min Scan# 715
Delta R.T. 0.03 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion:	43	Resp:	14784
Ion	Ratio	Lower	Upper
43	100		
86	20.4	5.7	8.5#
42	6.4	7.4	11.2#
44	0.0	4.3	6.5#





#25

Ethyl Acetate

Concen: 1.582 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.04 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampled :

SV-1

Tot Ion: 43 Resp: 637397

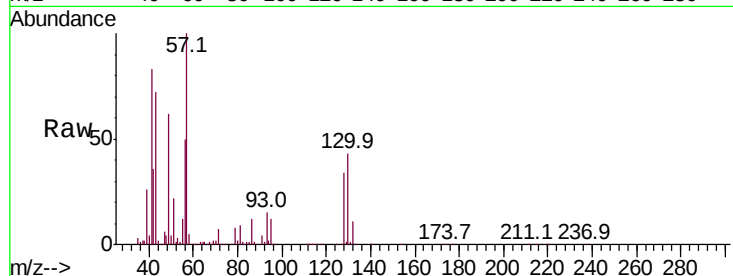
Ion Ratio Lower Upper

43 100

45 1.2 8.0 12.0#

61 0.9 8.0 12.0#

70 1.9 5.6 8.4#



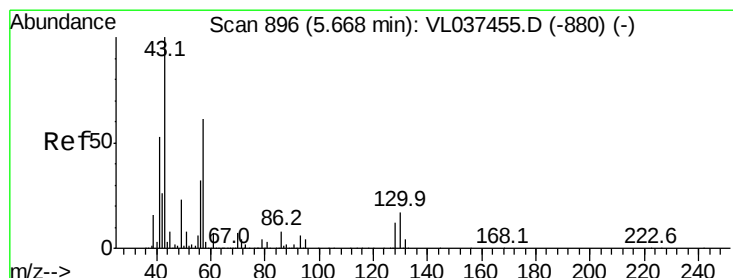
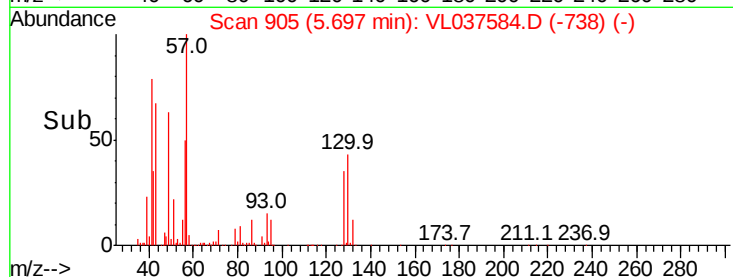
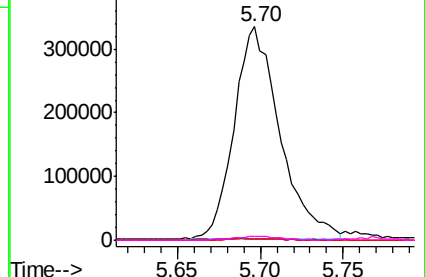
Abundance

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: 4.549 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.03 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Tgt Ion: 57 Resp: 895943

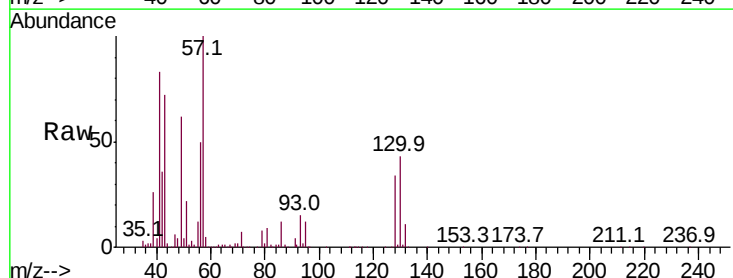
Ion Ratio Lower Upper

57 100

41 91.2 72.3 108.5

43 73.8 172.3 258.5#

56 54.8 42.8 64.2



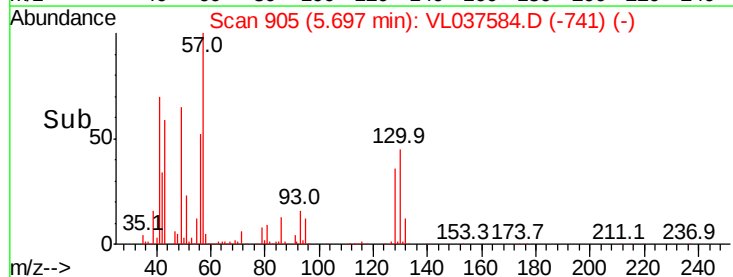
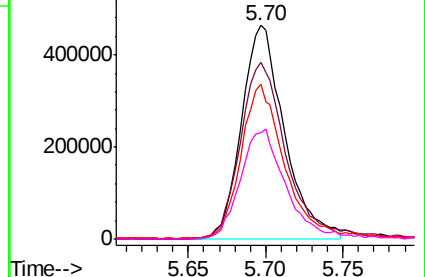
Abundance

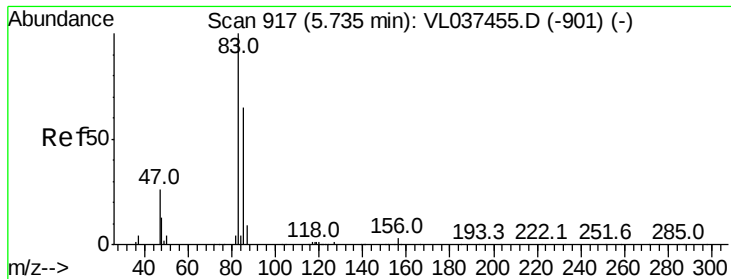
Ion 57.10 (56.80 to 57.80): VL0

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

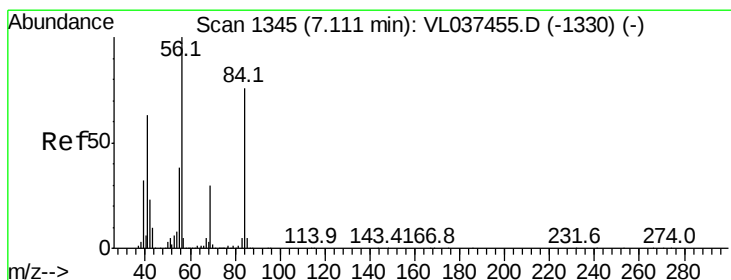
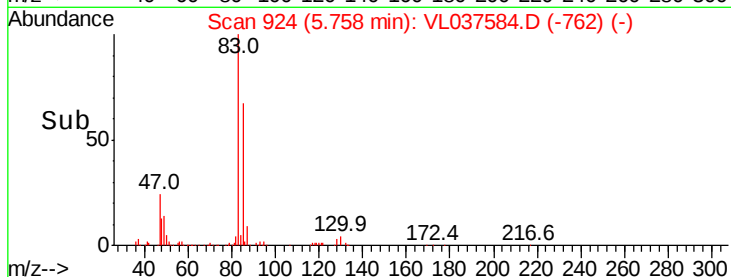
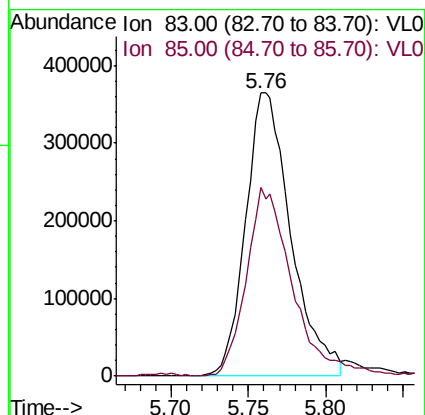
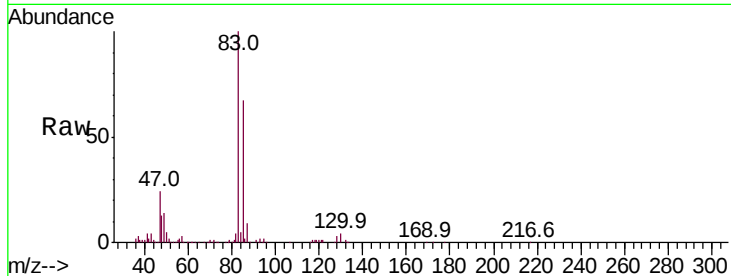




#29
Chloroform
Concen: 2.659 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.02 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

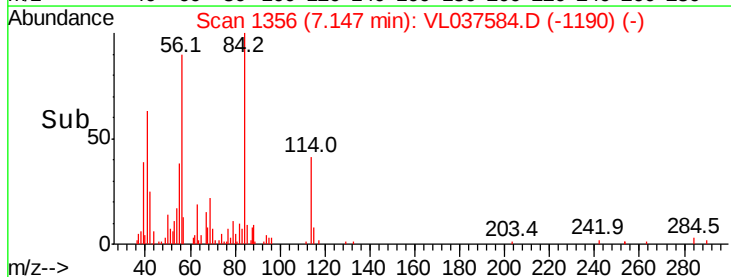
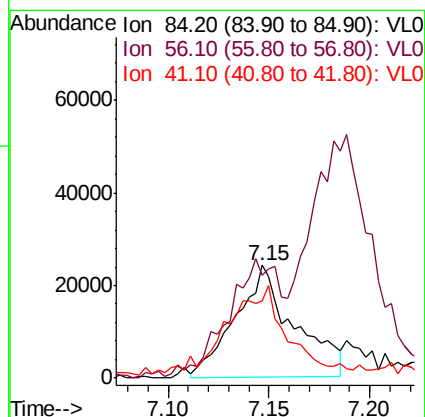
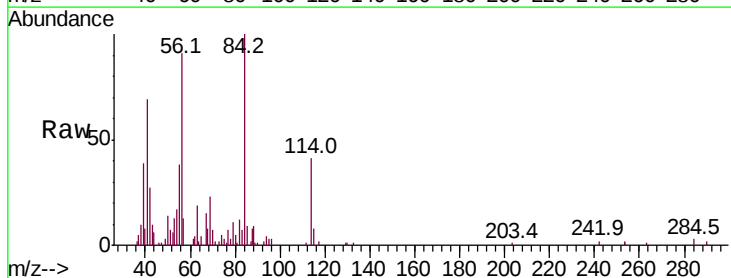
Instrument :
MSVOA_L
ClientSampleId :
SV-1

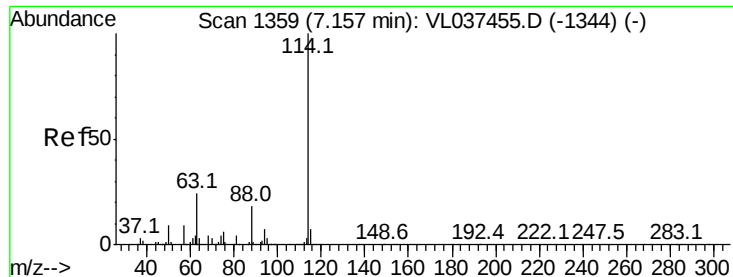
Tot Ion: 83 Resp: 742361
Ion Ratio Lower Upper
83 100
85 66.4 52.3 78.5



#30
Cyclohexane
Concen: 0.302 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. 0.04 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion: 84 Resp: 49566
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 83.9 67.0 100.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.03 min

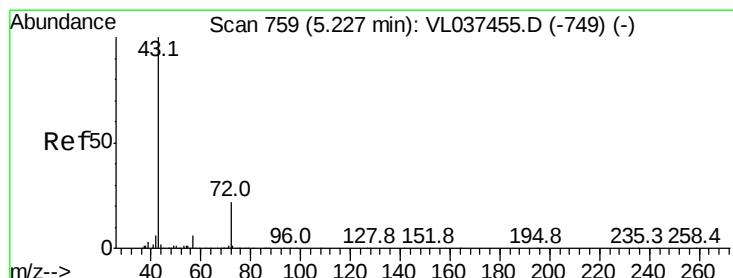
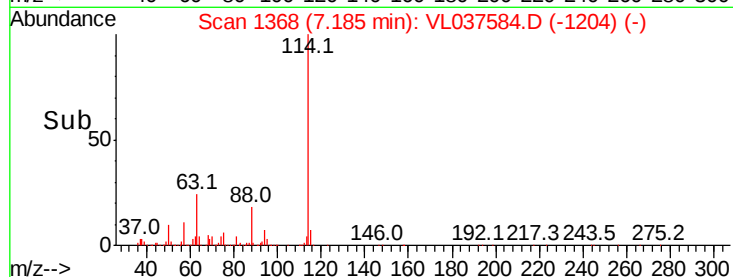
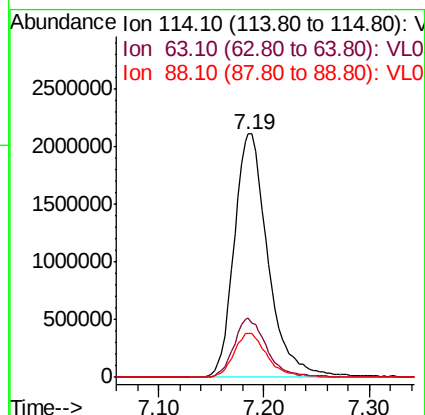
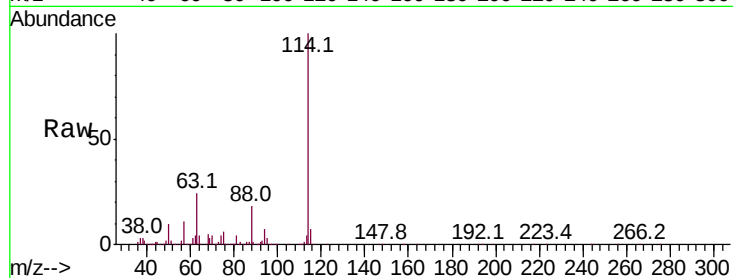
Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tot Ion:114 Resp: 4673907

Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.3	28.9
88	18.2	14.2	21.4



#34

2-Butanone

Concen: 2.096 ppbv

RT: 5.26 min Scan# 768

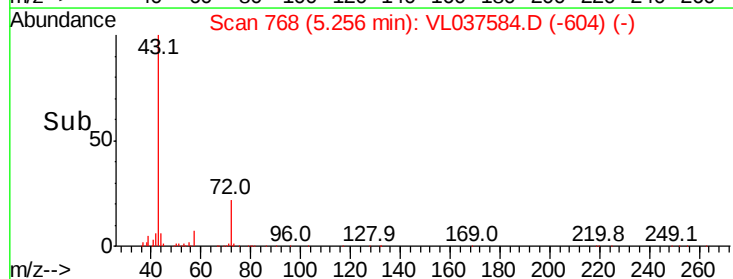
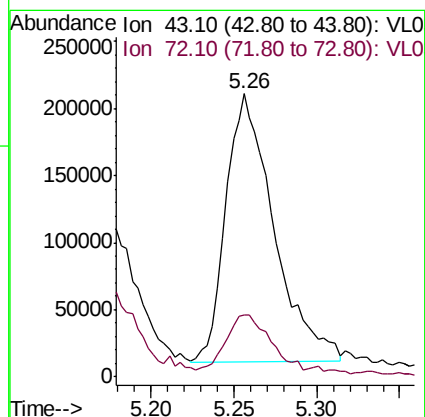
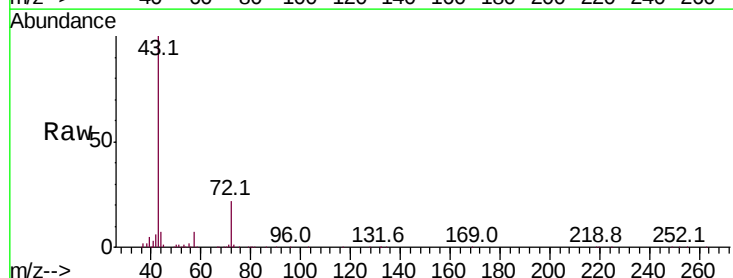
Delta R.T. 0.03 min

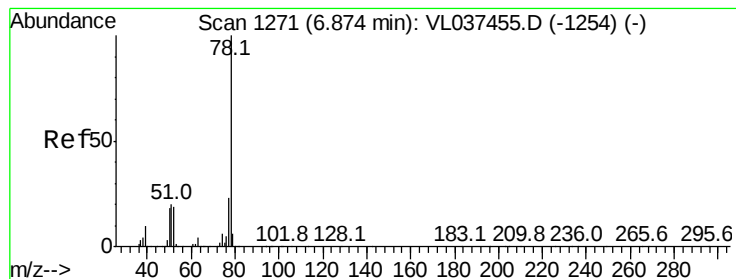
Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Tgt Ion: 43 Resp: 400130

Ion	Ratio	Lower	Upper
43	100		
72	26.0	17.4	26.0





#36

Benzene

Concen: 0.114 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.03 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

SV-1

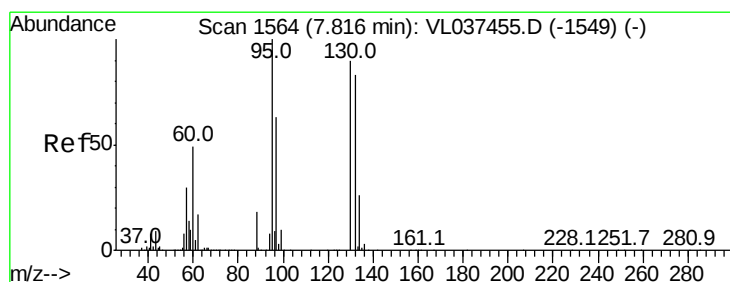
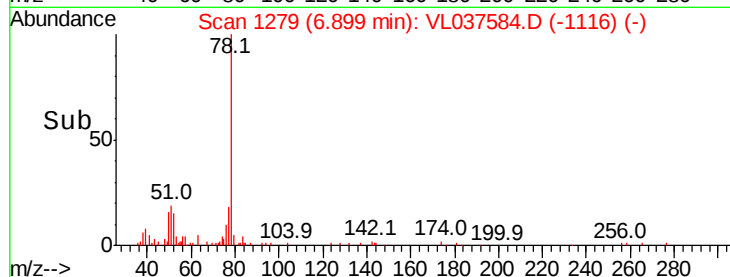
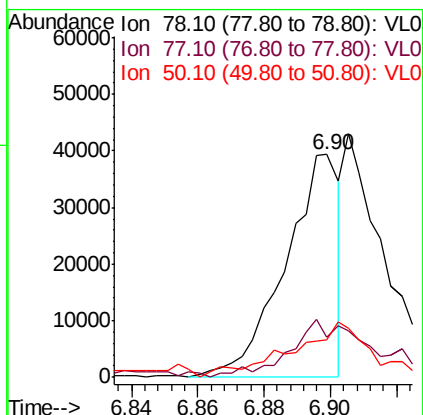
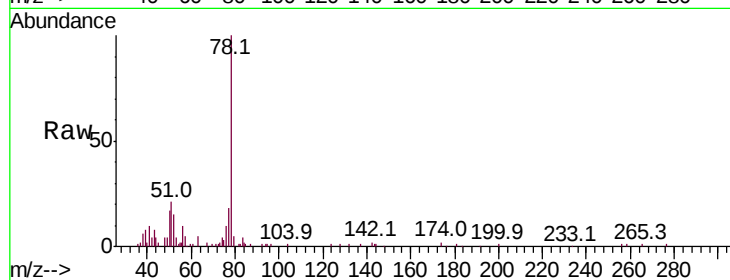
Tot Ion: 78 Resp: 44610

Ion Ratio Lower Upper

78 100

77 15.7 18.2 27.4#

50 13.0 14.6 21.8#



#38

Trichloroethene

Concen: 0.187 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.03 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Tgt Ion: 130 Resp: 30175

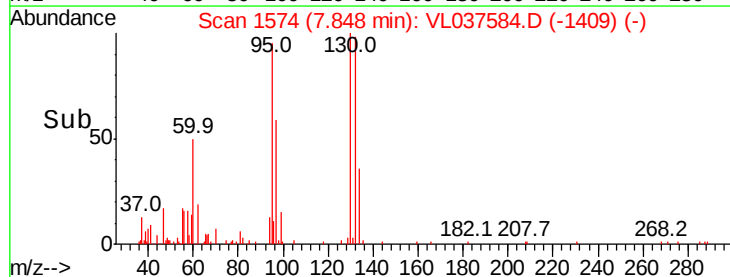
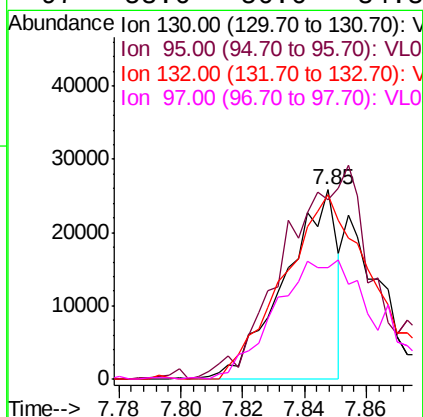
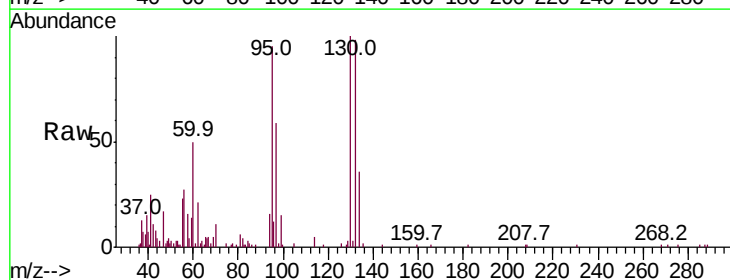
Ion Ratio Lower Upper

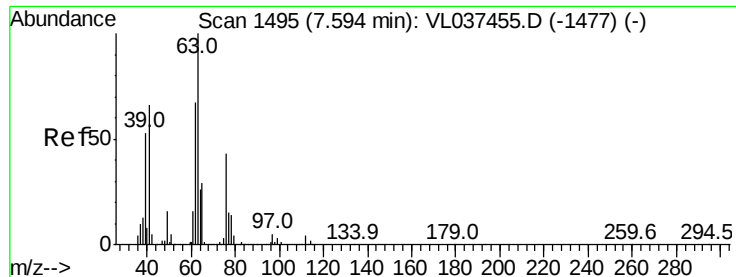
130 100

95 94.9 89.2 133.8

132 97.8 74.0 111.0

97 58.6 56.6 84.8





#39

1,2-Dichloropropane

Concen: 7.254 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.41 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

SV-1

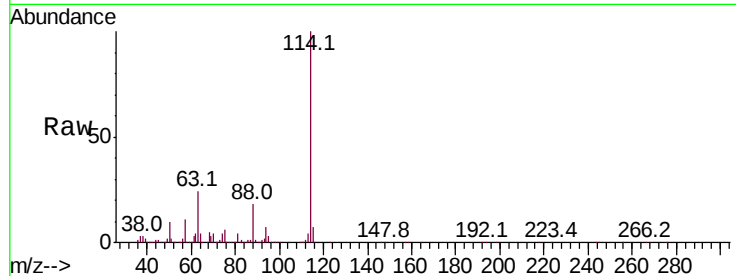
Tot Ion: 63 Resp: 1095204

Ion Ratio Lower Upper

63 100

41 0.0 52.4 78.6#

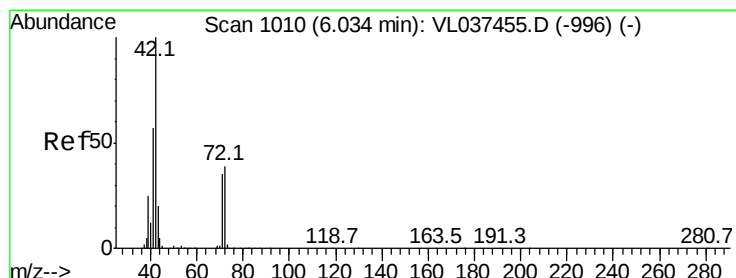
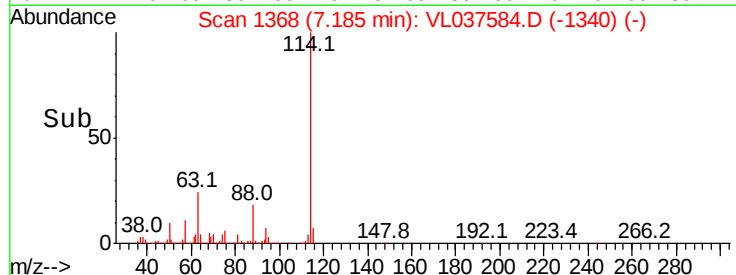
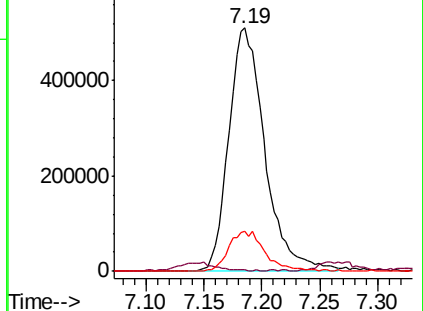
62 16.3 53.6 80.4#



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: 3.768 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.34 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

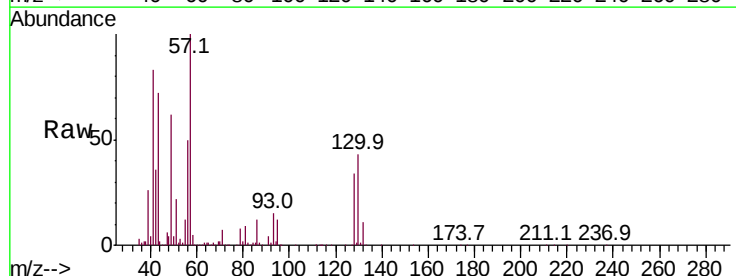
Tgt Ion: 42 Resp: 346440

Ion Ratio Lower Upper

42 100

72 1.2 32.2 48.4#

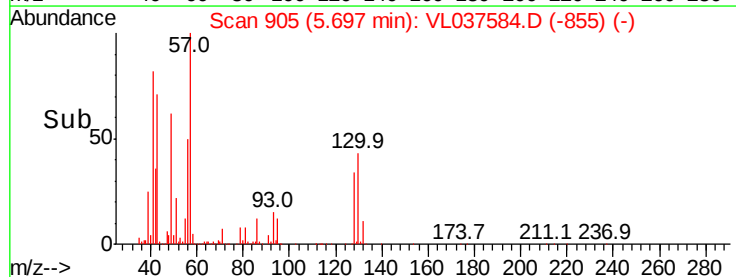
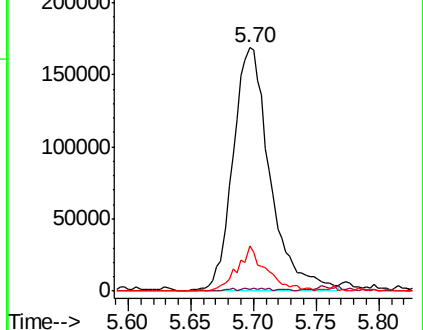
71 15.0 30.5 45.7#

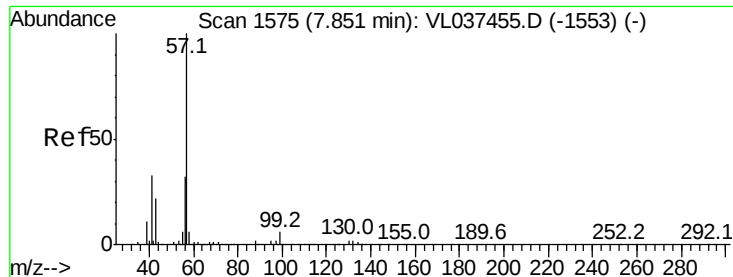


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.068 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.04 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampled :

SV-1

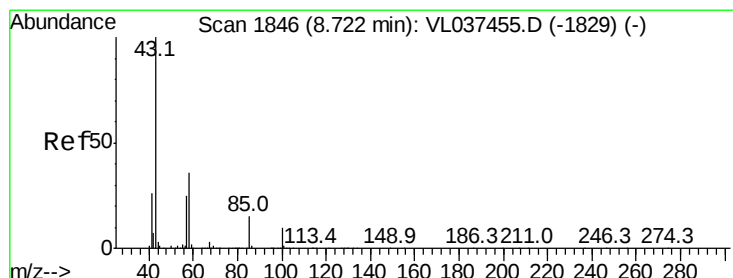
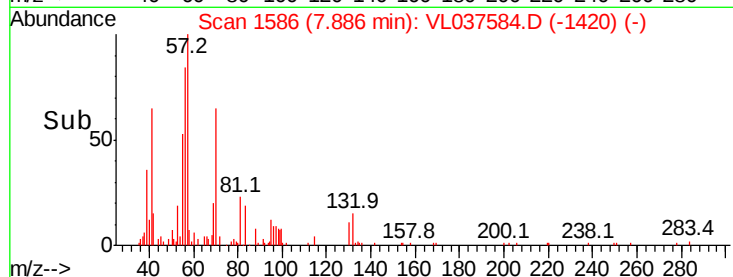
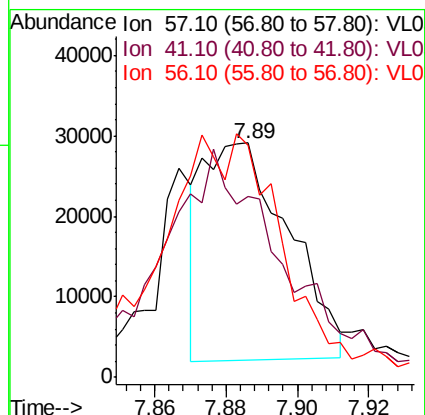
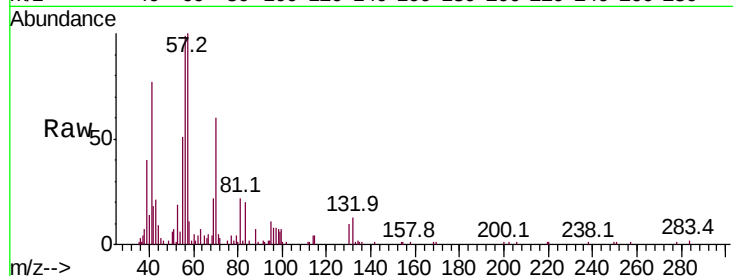
Tot Ion: 57 Resp: 44875

Ion Ratio Lower Upper

57 100

41 141.9 26.2 39.4#

56 165.4 25.4 38.2#



#50

4-Methyl-2-Pentanone

Concen: 0.065 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.04 min

Lab File: VL037584.D

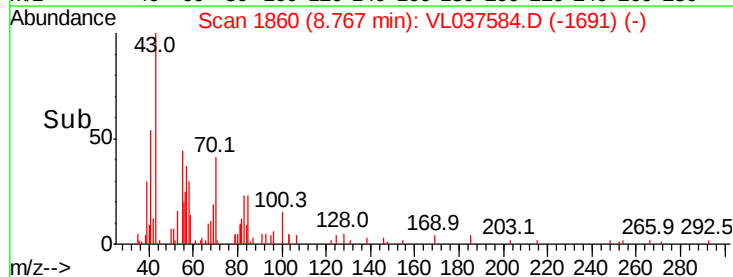
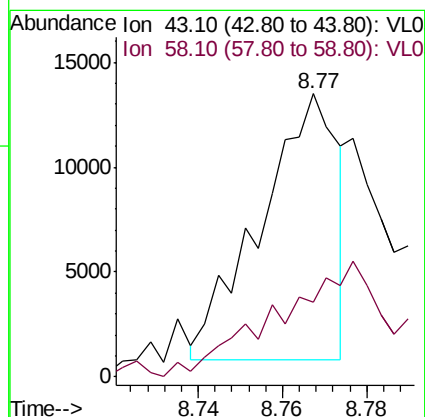
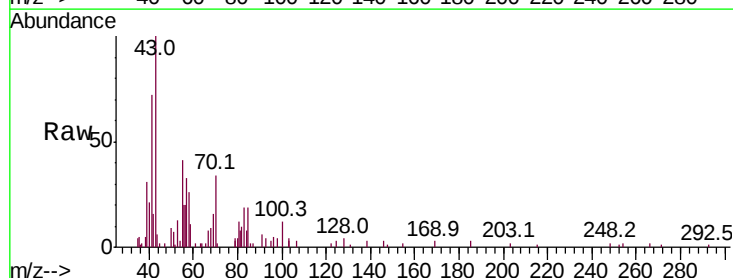
Acq: 8 Sep 2021 23:16

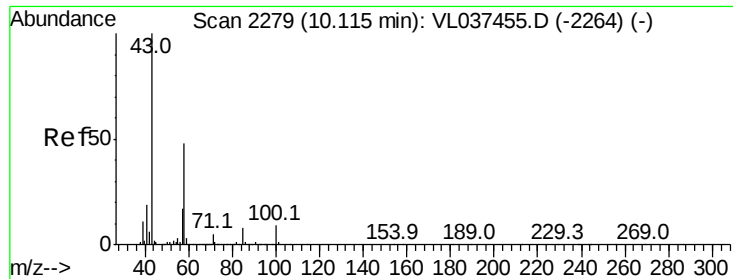
Tgt Ion: 43 Resp: 16075

Ion Ratio Lower Upper

43 100

58 0.0 29.9 44.9#

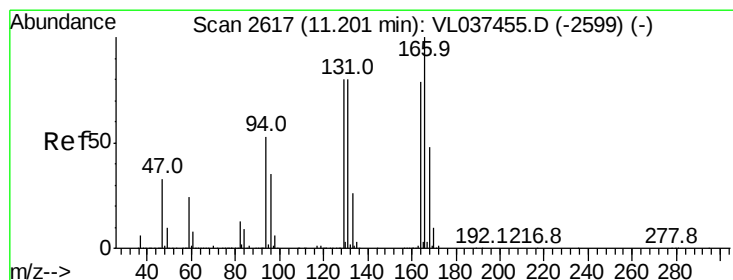
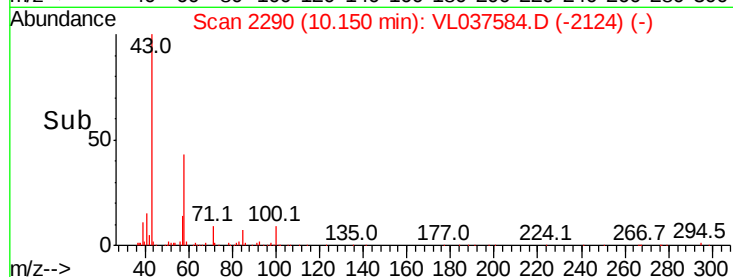
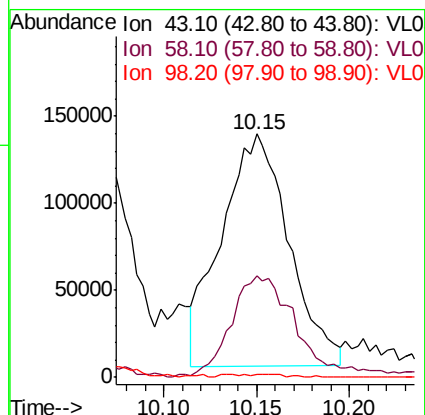
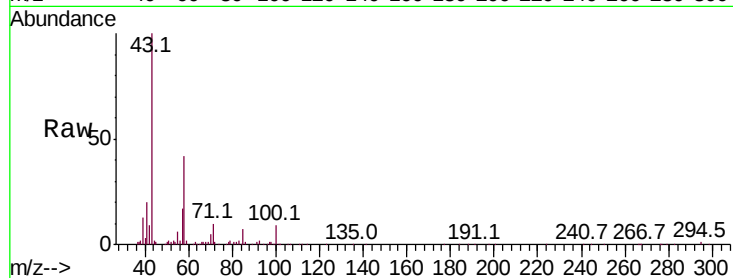




#51
2-Hexanone
Concen: 2.941 ppbv
RT: 10.15 min Scan# 2290
Delta R.T. 0.04 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

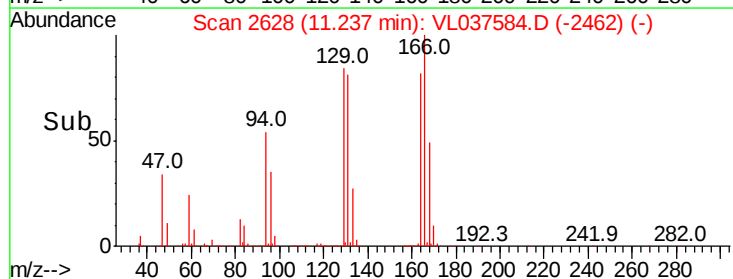
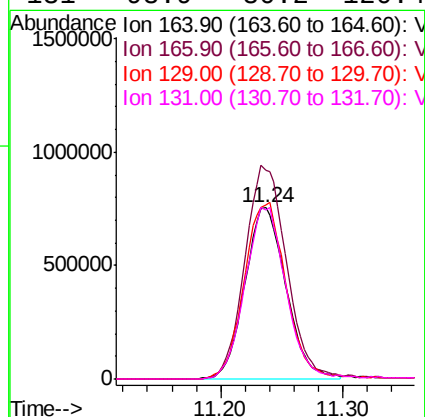
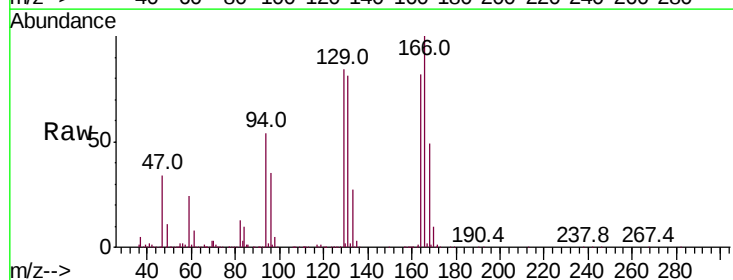
Instrument :
MSVOA_L
ClientSampled :
SV-1

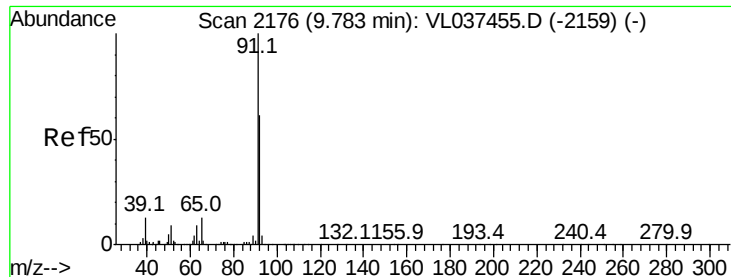
Tot Ion: 43 Resp: 336854
Ion Ratio Lower Upper
43 100
58 43.9 41.0 61.6
98 0.0 0.3 0.5#



#52
Tetrachloroethene
Concen: 10.911 ppbv
RT: 11.24 min Scan# 2628
Delta R.T. 0.04 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion: 164 Resp: 1756723
Ion Ratio Lower Upper
164 100
166 121.6 100.7 151.1
129 101.7 80.9 121.3
131 98.9 80.2 120.4





#53

Toluene

Concen: 3.138 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

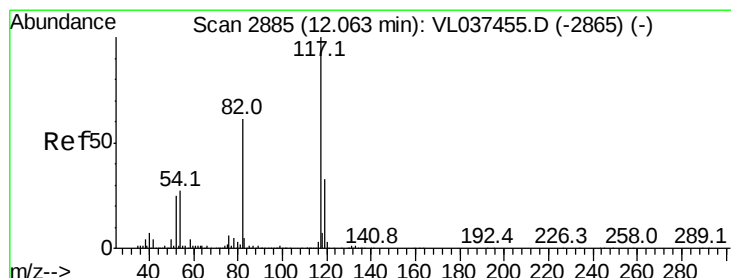
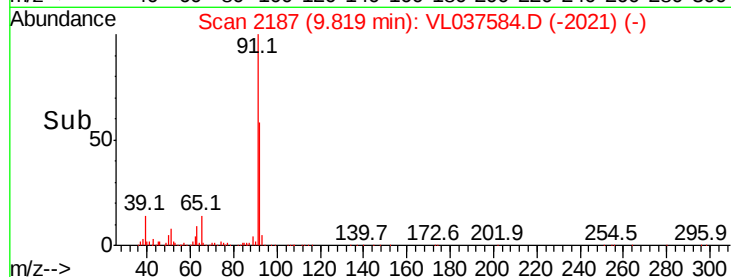
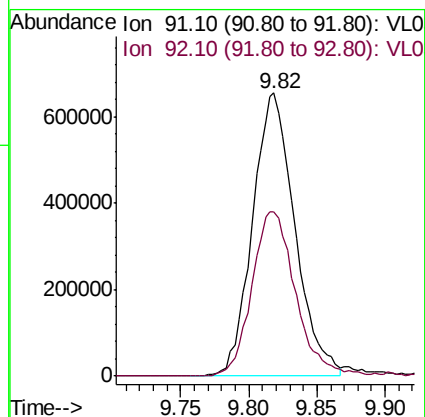
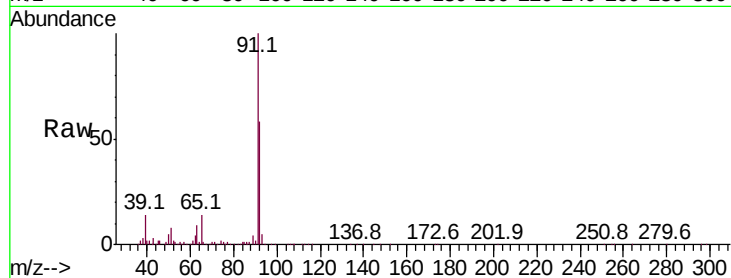
SV-1

Tot Ion: 91 Resp: 1407847

Ion Ratio Lower Upper

91 100

92 60.8 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.04 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

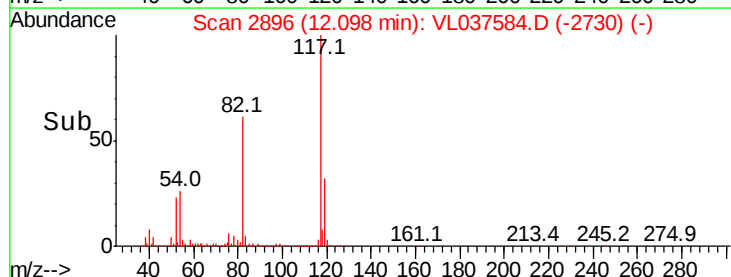
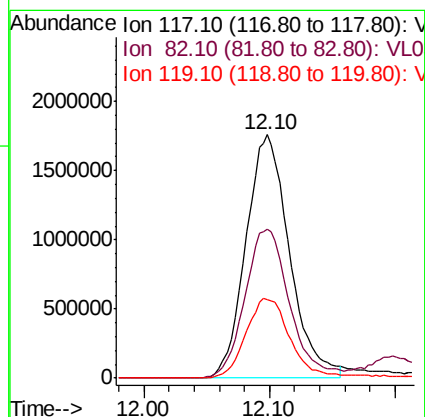
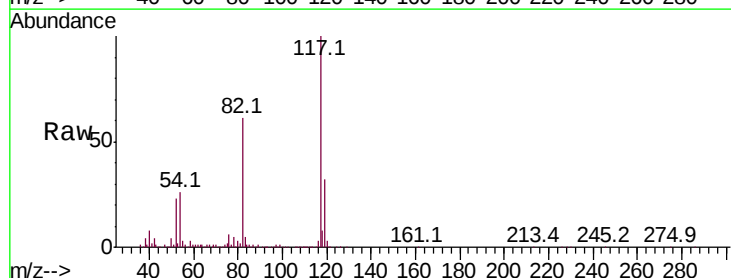
Tgt Ion: 117 Resp: 4253224

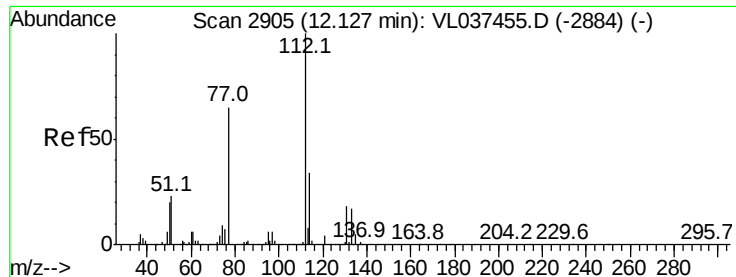
Ion Ratio Lower Upper

117 100

82 62.8 52.9 79.3

119 34.5 24.8 37.2





#57

Chlorobenzene

Concen: 0.037 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. 0.04 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

SV-1

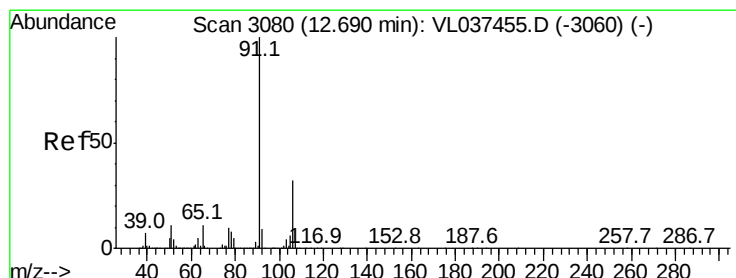
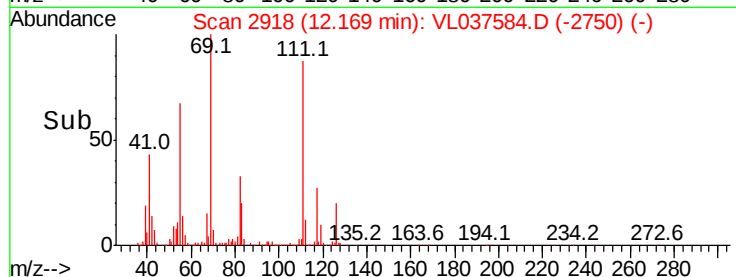
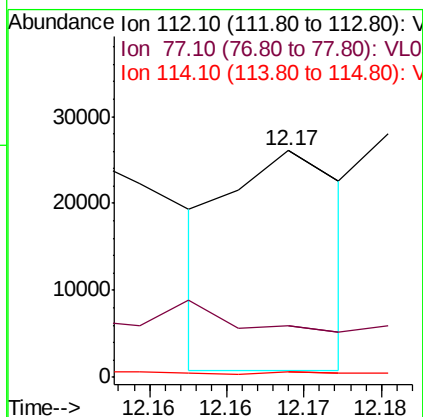
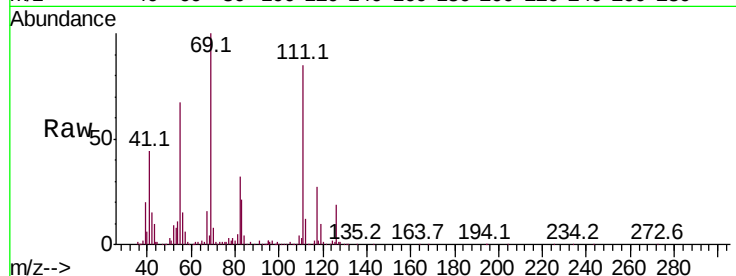
Tot Ion:112 Resp: 13076

Ion Ratio Lower Upper

112 100

77 12.4 51.6 77.4#

114 1.5 30.7 37.5#



#58

Ethyl Benzene

Concen: 1.024 ppbv

RT: 12.73 min Scan# 3091

Delta R.T. 0.04 min

Lab File: VL037584.D

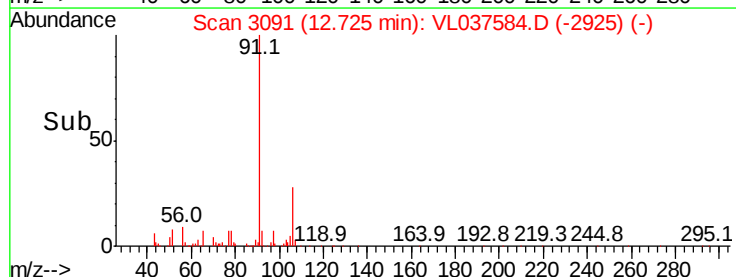
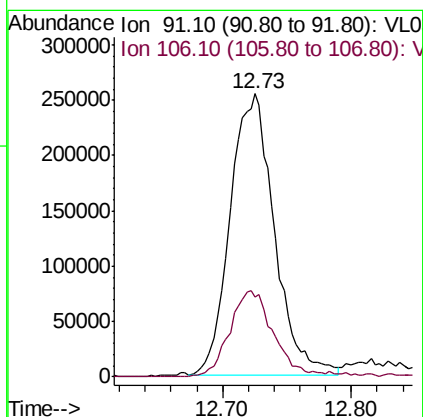
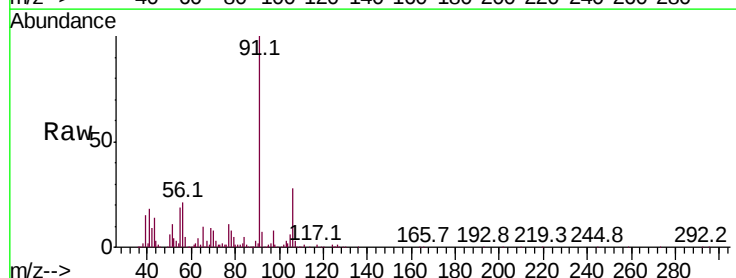
Acq: 8 Sep 2021 23:16

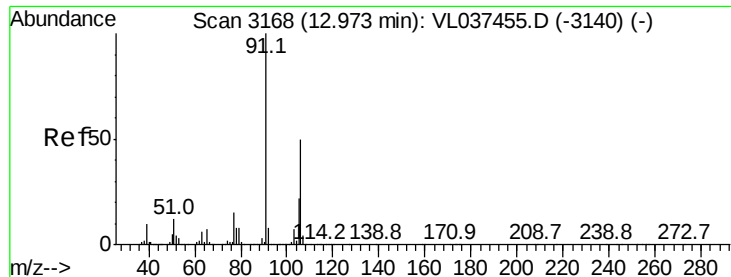
Tgt Ion: 91 Resp: 604636

Ion Ratio Lower Upper

91 100

106 28.0 25.7 38.5

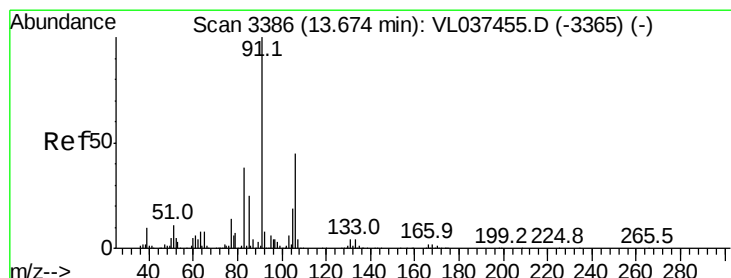
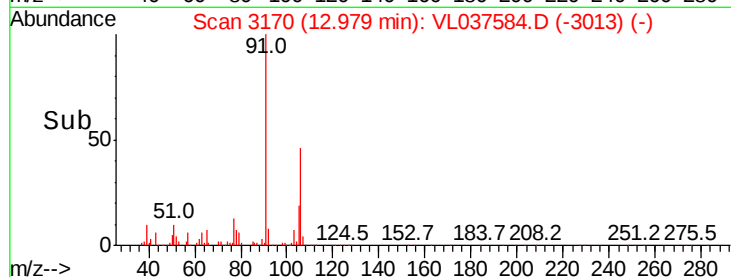
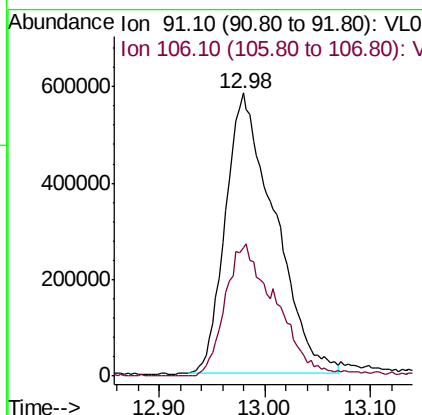
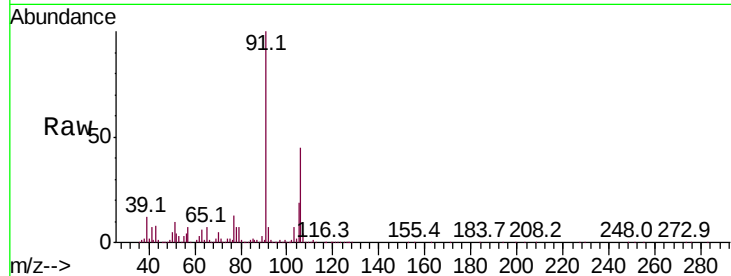




#59
m/p-Xylene
Concen: 3.677 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. 0.01 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

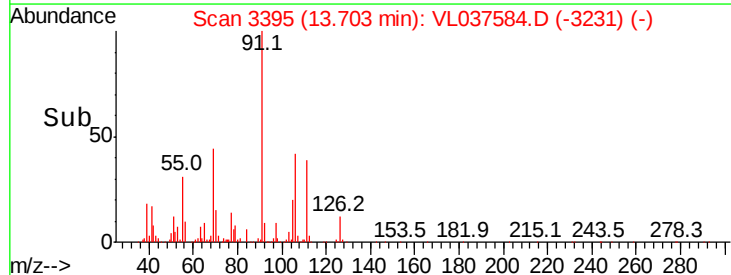
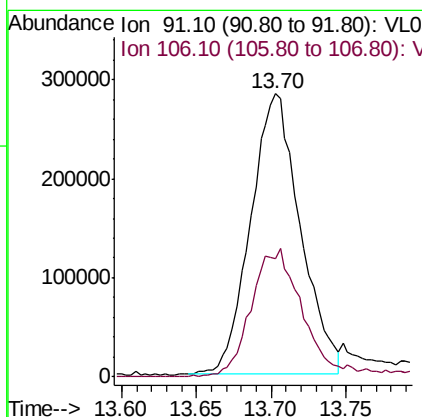
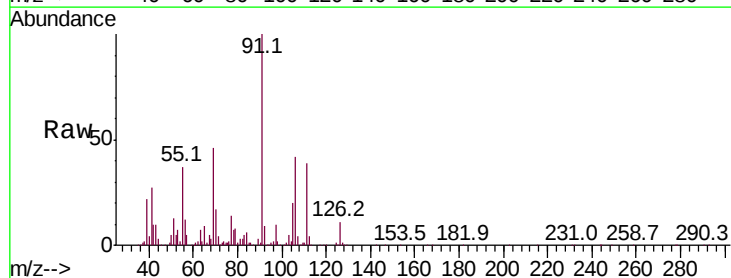
Instrument :
MSVOA_L
ClientSampleId :
SV-1

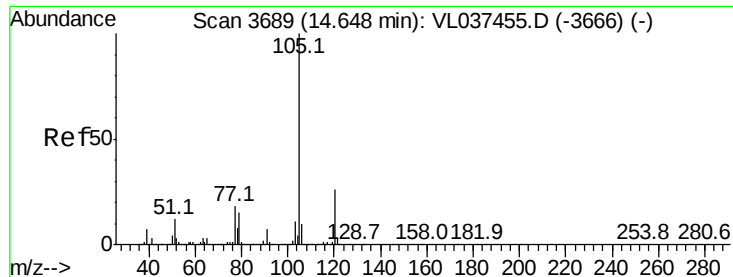
Tot Ion: 91 Resp: 1881335
Ion Ratio Lower Upper
91 100
106 49.6 36.9 55.3



#60
o-Xylene
Concen: 1.373 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.03 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion: 91 Resp: 655673
Ion Ratio Lower Upper
91 100
106 50.3 23.7 71.1





#62

Isopropylbenzene

Concen: 0.115 ppbv

RT: 14.68 min Scan# 3698

Delta R.T. 0.03 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampled :

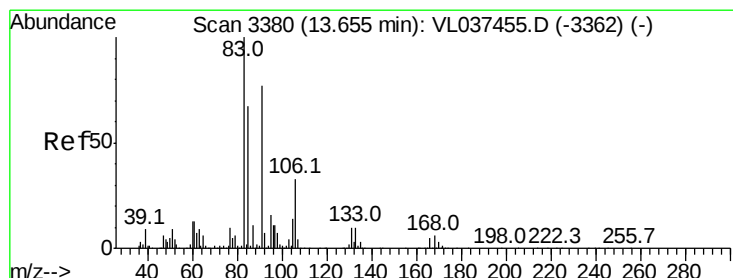
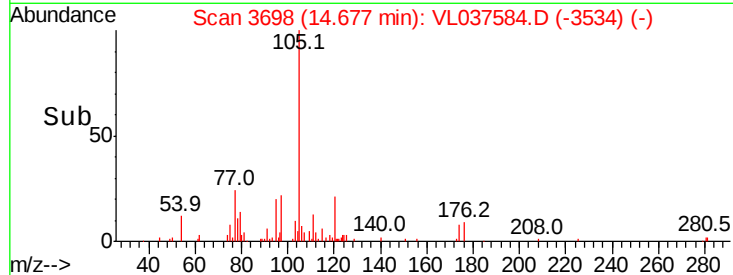
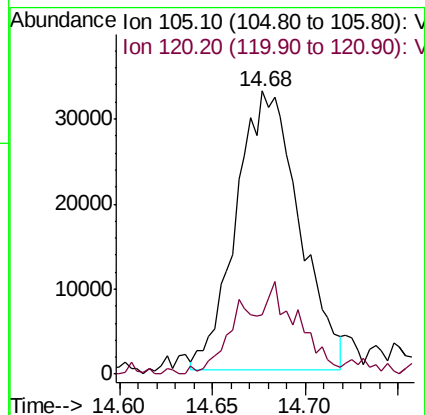
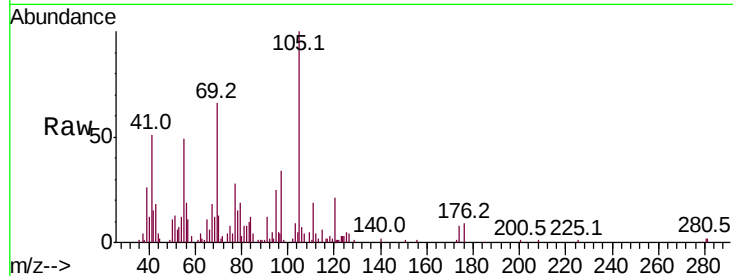
SV-1

Tot Ion:105 Resp: 77324

Ion Ratio Lower Upper

105 100

120 34.2 21.5 32.3#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.080 ppbv

RT: 13.68 min Scan# 3389

Delta R.T. 0.03 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

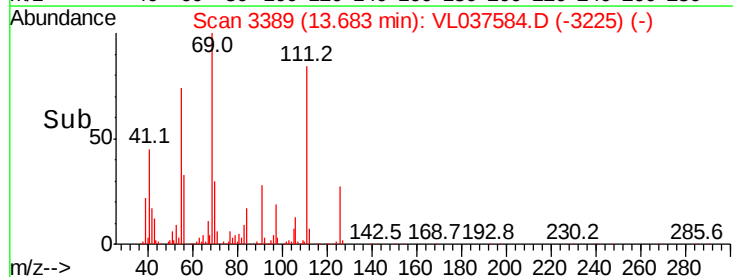
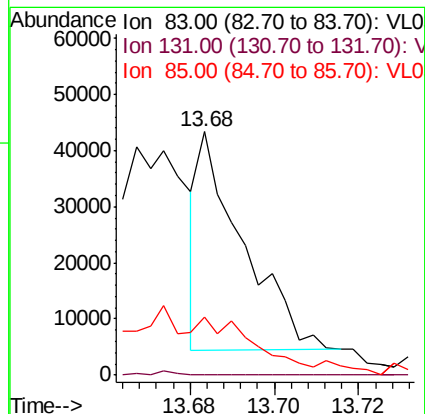
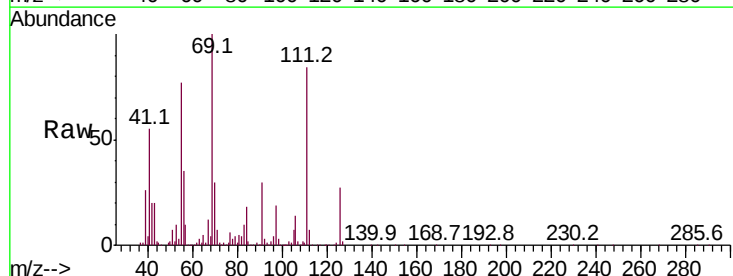
Tgt Ion: 83 Resp: 28244

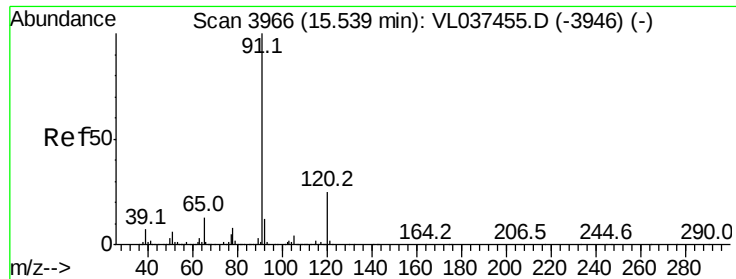
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 33.8 101.3#





#64

n-propylbenzene

Concen: 0.452 ppbv

RT: 15.57 min Scan# 3976

Delta R.T. 0.03 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampled :

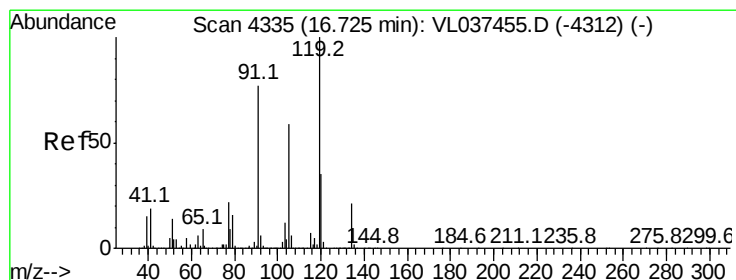
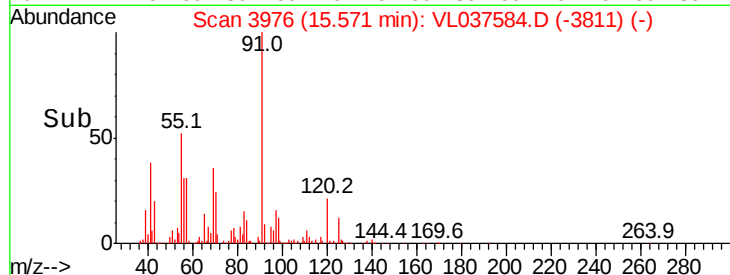
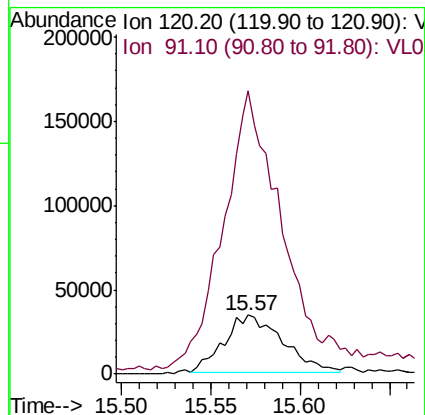
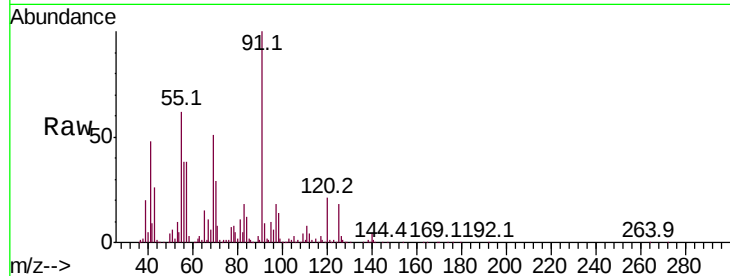
SV-1

Tot Ion:120 Resp: 77510

Ion Ratio Lower Upper

120 100

91 535.5 373.8 560.6



#65

tert-Butylbenzene

Concen: 0.112 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. 0.05 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

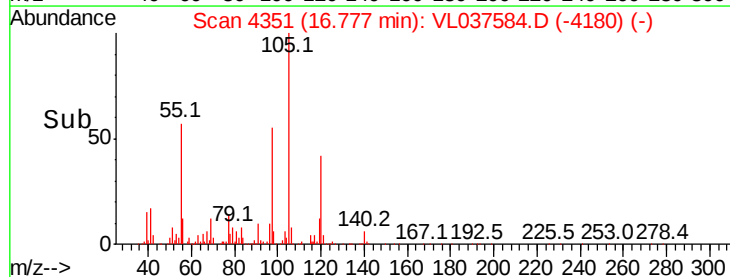
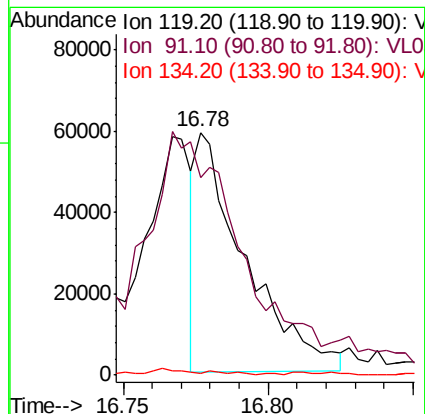
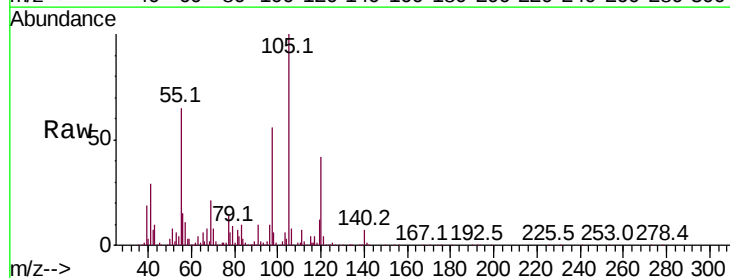
Tgt Ion:119 Resp: 68797

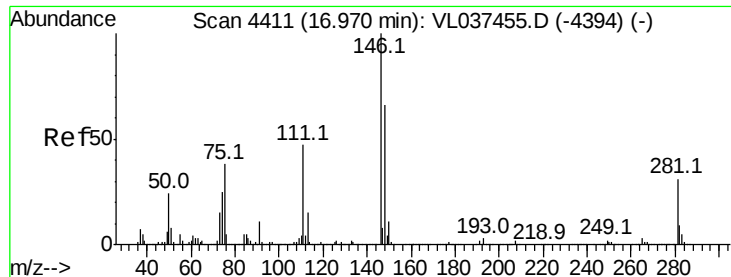
Ion Ratio Lower Upper

119 100

91 0.0 62.9 94.3#

134 0.0 16.4 24.6#

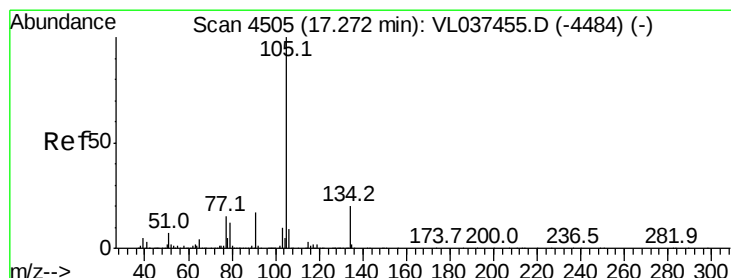
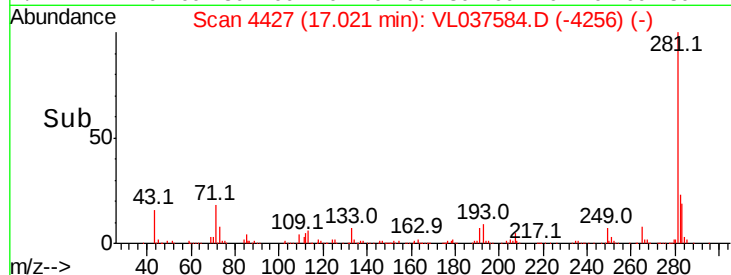
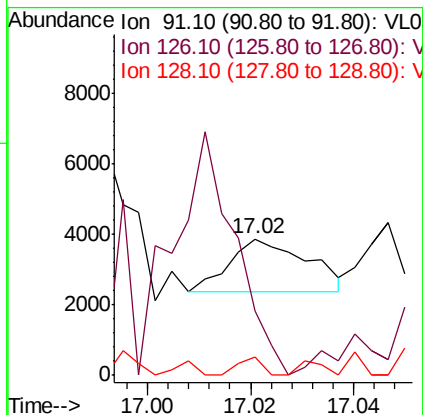
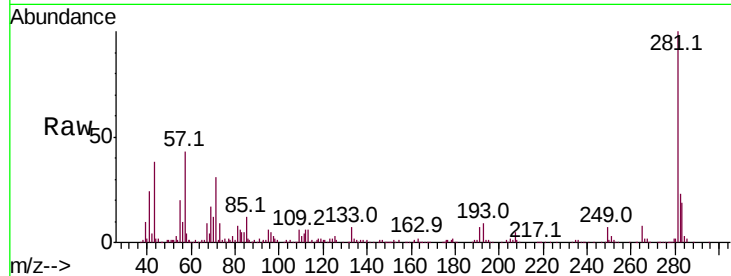




#66
Benzyl Chloride
Concen: 0.056 ppbv
RT: 17.02 min Scan# 4427
Delta R.T. 0.05 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

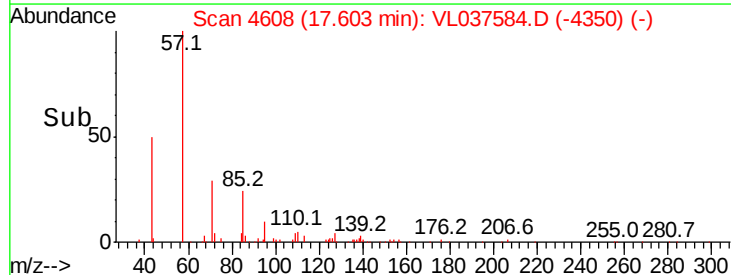
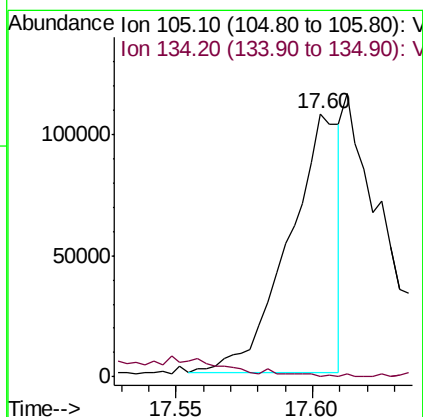
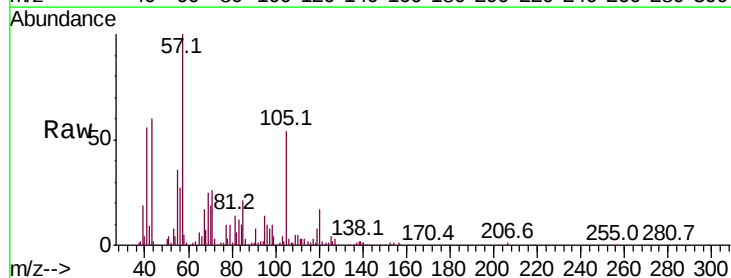
Instrument :
MSVOA_L
ClientSampled :
SV-1

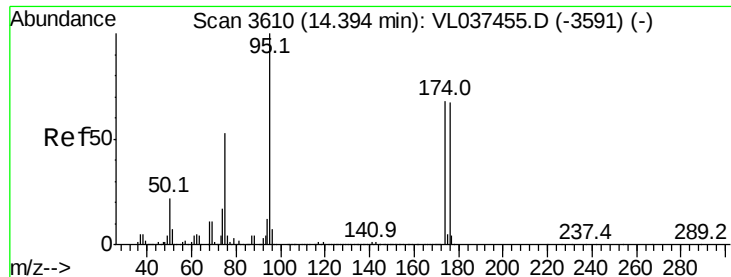
Tot Ion: 91 Resp: 1558
Ion Ratio Lower Upper
91 100
126 314.6 15.9 23.9#
128 0.0 5.4 8.0#



#67
sec-Butylbenzene
Concen: 0.159 ppbv
RT: 17.60 min Scan# 4608
Delta R.T. 0.33 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion: 105 Resp: 136599
Ion Ratio Lower Upper
105 100
134 15.7 15.2 22.8





#68

1-Bromo-4-Fluorobenzene

Concen: 10.638 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.03 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampled :

SV-1

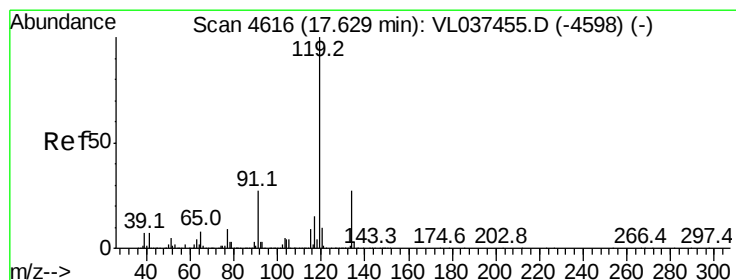
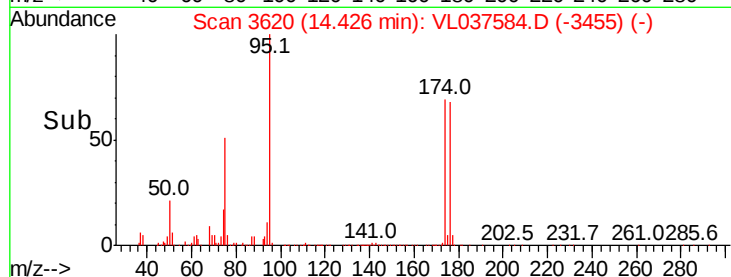
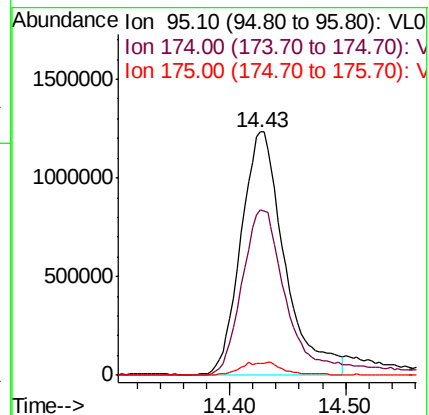
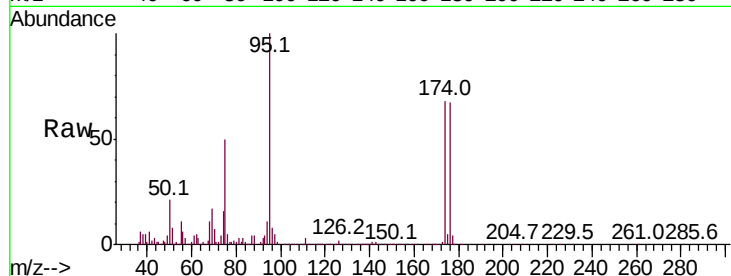
Tot Ion: 95 Resp: 3214455

Ion Ratio Lower Upper

95 100

174 74.3 59.6 89.4

175 5.5 4.6 7.0



#69

p-Isopropyltoluene

Concen: 0.034 ppbv

RT: 17.67 min Scan# 4628

Delta R.T. 0.04 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

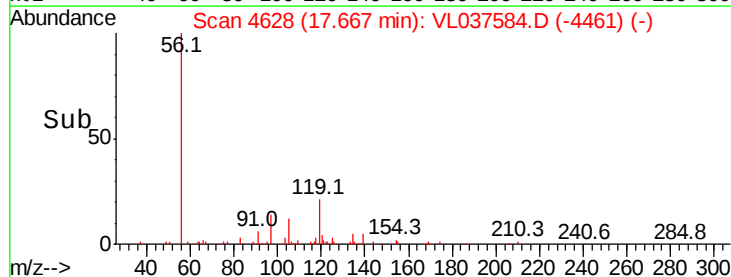
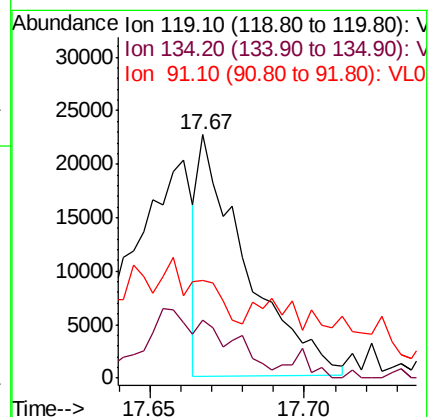
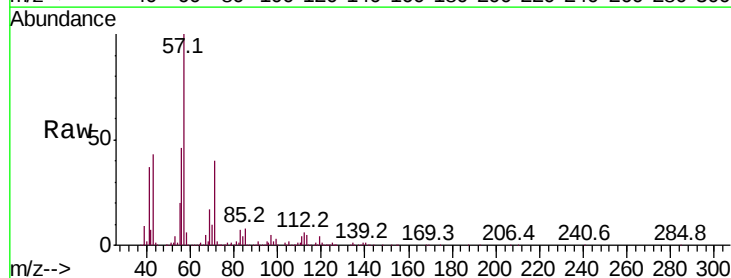
Tgt Ion: 119 Resp: 24007

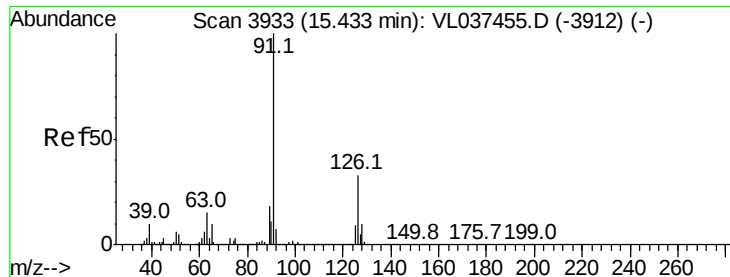
Ion Ratio Lower Upper

119 100

134 0.0 21.1 31.7#

91 0.0 22.4 33.6#





#71

2-Chlorotoluene

Concen: 0.727 ppbv

RT: 15.57 min Scan# 3976

Delta R.T. 0.14 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

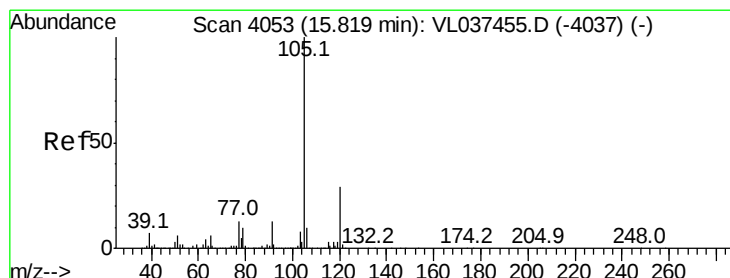
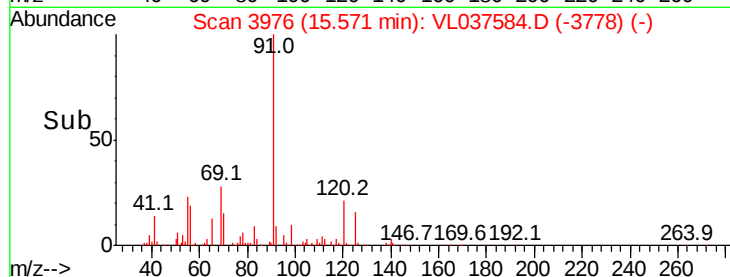
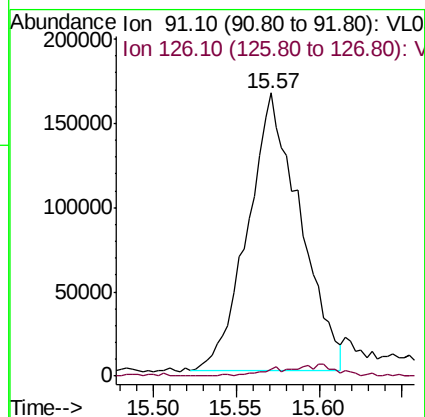
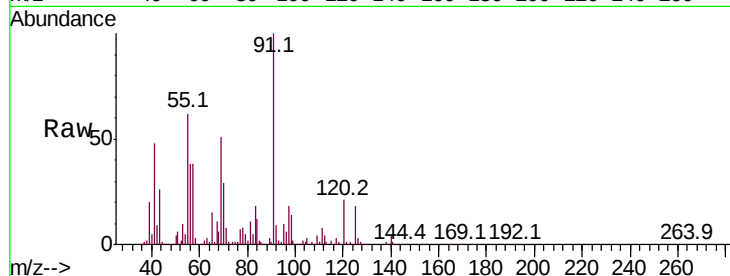
SV-1

Tot Ion: 91 Resp: 359430

Ion Ratio Lower Upper

91 100

126 0.0 13.6 54.4#



#72

4-Ethyltoluene

Concen: 0.855 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. 0.04 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Tgt Ion: 105 Resp: 485959

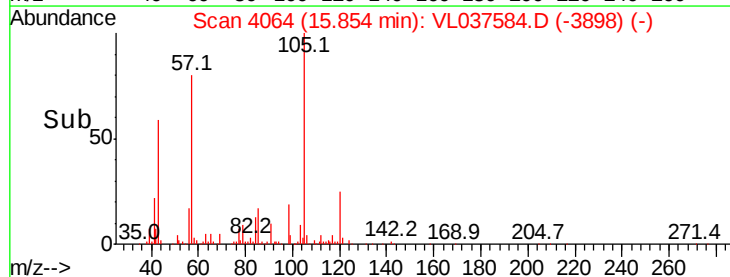
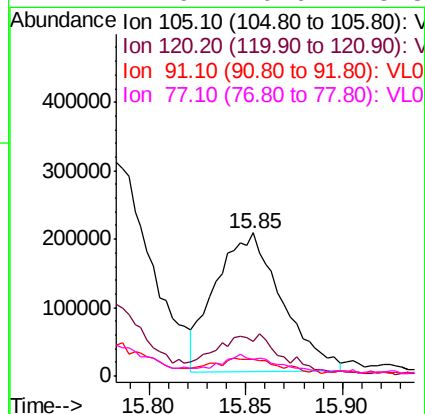
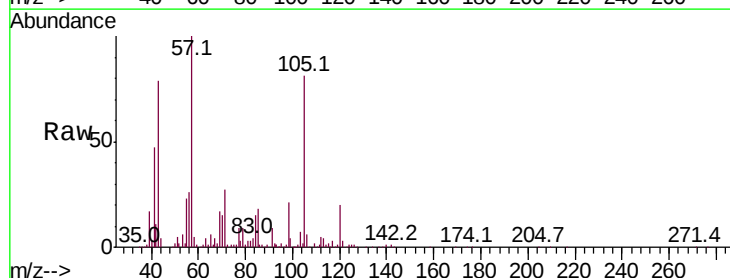
Ion Ratio Lower Upper

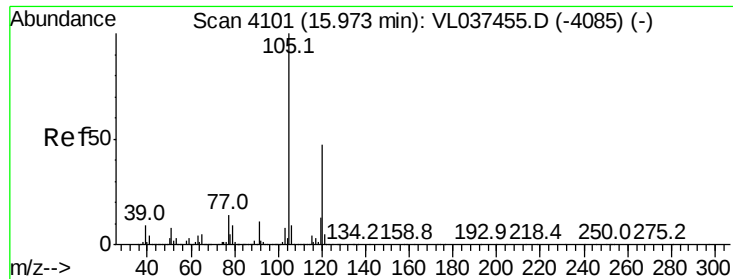
105 100

120 33.6 24.7 37.1

91 15.1 9.8 14.8#

77 14.9 10.6 15.8

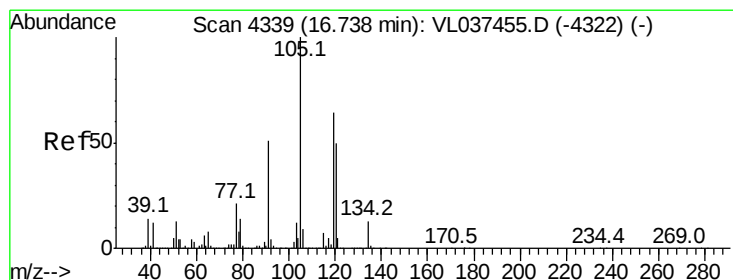
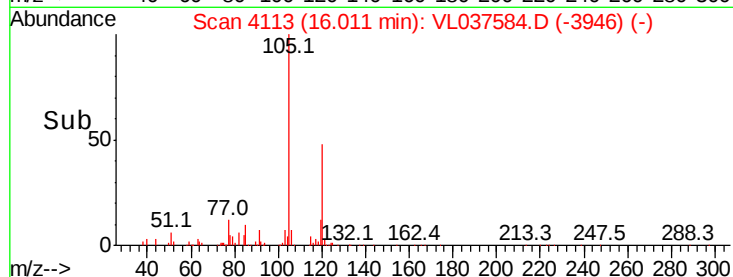
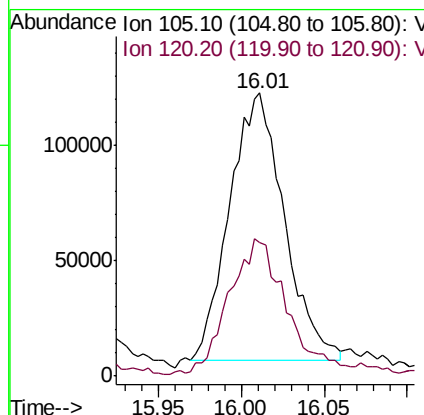
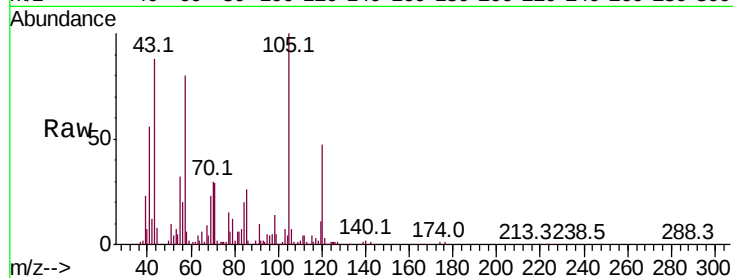




#73
 1,3,5-Trimethylbenzene
 Concen: 0.504 ppbv
 RT: 16.01 min Scan# 4113
 Delta R.T. 0.04 min
 Lab File: VL037584.D
 Acq: 8 Sep 2021 23:16

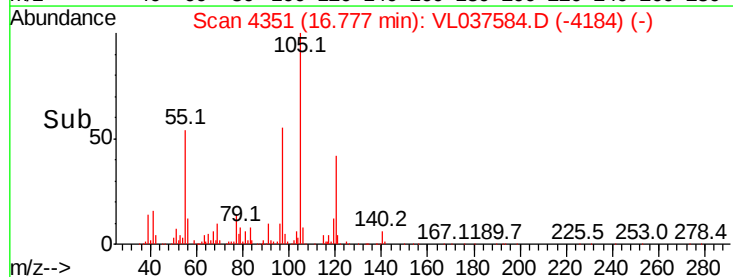
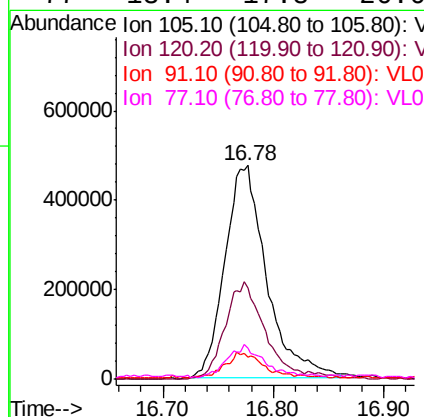
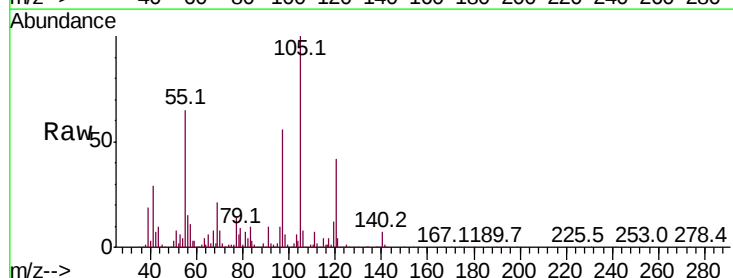
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

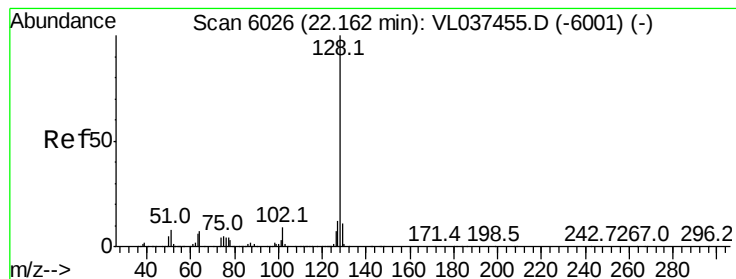
Tot Ion:105 Resp: 266460
 Ion Ratio Lower Upper
 105 100
 120 47.4 37.6 56.4



#74
 1,2,4-Trimethylbenzene
 Concen: 2.215 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. 0.04 min
 Lab File: VL037584.D
 Acq: 8 Sep 2021 23:16

Tgt Ion:105 Resp: 1244690
 Ion Ratio Lower Upper
 105 100
 120 42.1 40.4 60.6
 91 9.7 44.6 67.0#
 77 13.4 17.8 26.6#





#79

Naphthalene

Concen: 0.260 ppbv

RT: 22.20 min Scan# 6039

Delta R.T. 0.04 min

Lab File: VL037584.D

Acq: 8 Sep 2021 23:16

Instrument :

MSVOA_L

ClientSampleId :

SV-1

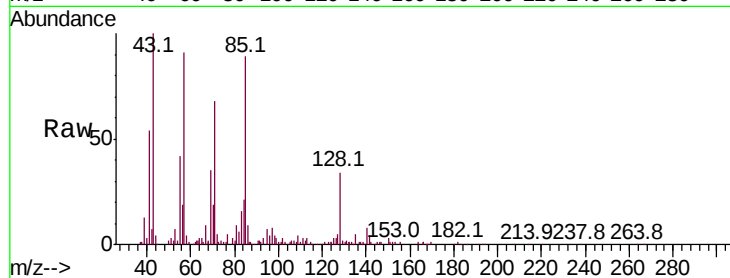
Tot Ion:128 Resp: 97893

Ion Ratio Lower Upper

128 100

127 13.4 9.4 14.2

129 4.9 8.8 13.2#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

