

Data File : VL036672.D
Acq On : 3 Apr 2021 9:05
Operator : SY/AP
Sample : M1834-02DL 60X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Quant Time: Apr 04 18:41:27 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1131575	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.15	114	2919934	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	2593125	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	1990955	9.63	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds						Qvalue
9) Propene	2.99	41	30798	0.457	ppbv #	14
10) Heptane	8.09	43	42837	0.249	ppbv #	44
13) Ethanol	3.58	45	2181	0.272	ppbv #	34
15) Acetone	3.83	43	292750	2.629	ppbv #	18
16) 1,3-Butadiene	3.29	39	66957	0.864	ppbv #	27
17) tert-Butyl alcohol	4.31	59	6467	0.067	ppbv #	72
20) Methylene Chloride	4.32	84	3025	0.058	ppbv #	76
21) Allyl Chloride	4.56	41	13639	0.154	ppbv	97
23) Vinyl Acetate	5.03	43	149248	0.783	ppbv #	1
25) Ethyl Acetate	5.66	43	60471	0.228	ppbv #	82
26) Hexane	5.66	57	95320	0.776	ppbv #	46
30) Cyclohexane	7.10	84	11595	0.116	ppbv #	1
34) 2-Butanone	5.22	43	1077079	7.557	ppbv	97
36) Benzene	6.86	78	35069	0.130	ppbv #	94
39) 1,2-Dichloropropane	7.15	63	754707	6.909	ppbv #	23
44) 2,2,4-Trimethylpentane	7.84	57	1060742	2.238	ppbv	96
51) 2-Hexanone	10.08	43	15640	0.150	ppbv #	30
52) Tetrachloroethene	11.19	164	320418	3.231	ppbv	98
53) Toluene	9.77	91	136846	0.477	ppbv	95
58) Ethyl Benzene	12.68	91	204409	0.542	ppbv	93
59) m/p-Xylene	12.93	91	450662	1.370	ppbv	95
60) o-Xylene	13.66	91	89997	0.283	ppbv #	61

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

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Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

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ClientSampleId :

SV2DL

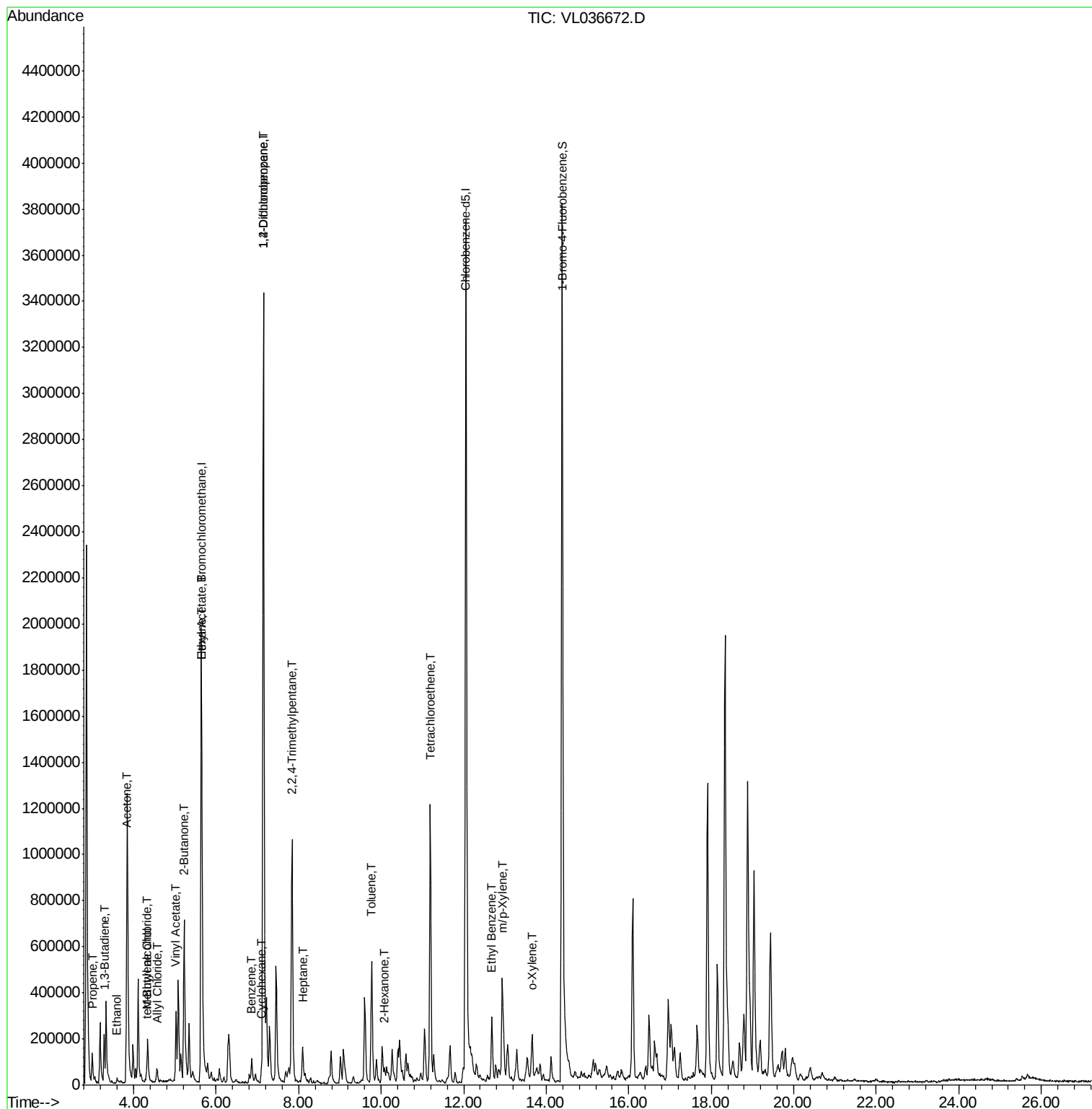
Quant Time: Apr 04 18:41:27 2021

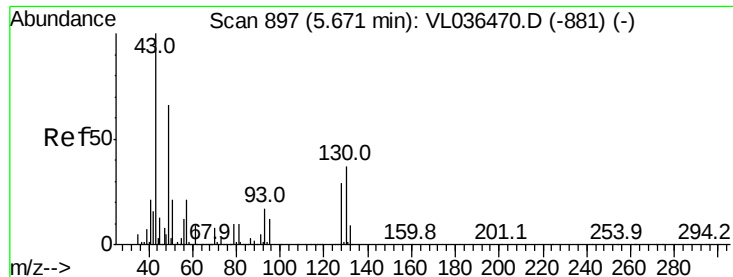
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

QLast Update : Thu Mar 25 09:42:40 2021

Response via : Initial Calibration

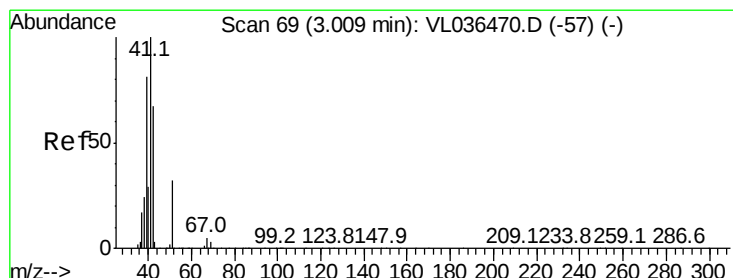
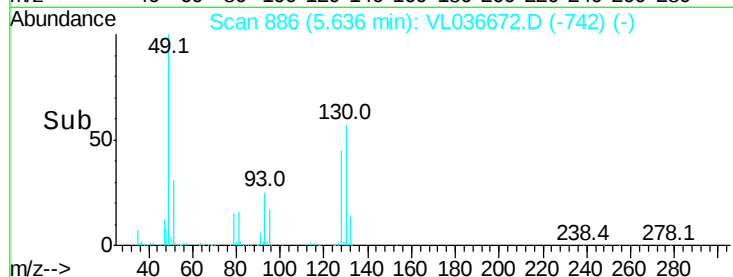
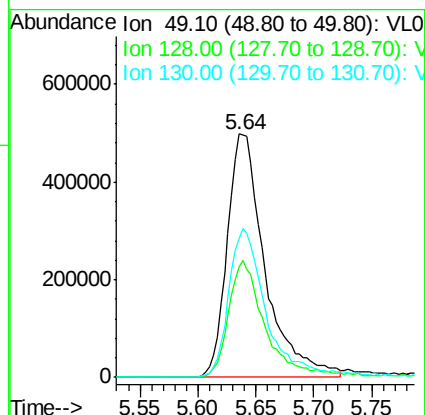
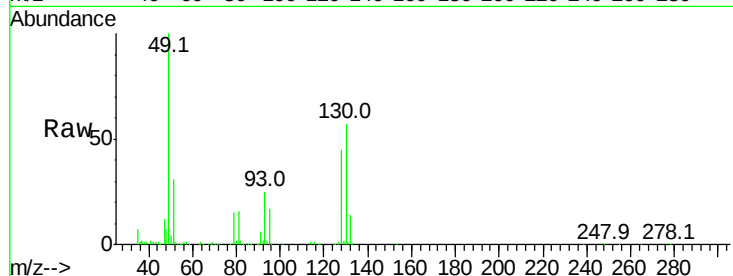




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 886
 Delta R.T. -0.04 min
 Lab File: VL036672.D
 Acq: 3 Apr 2021 9:05

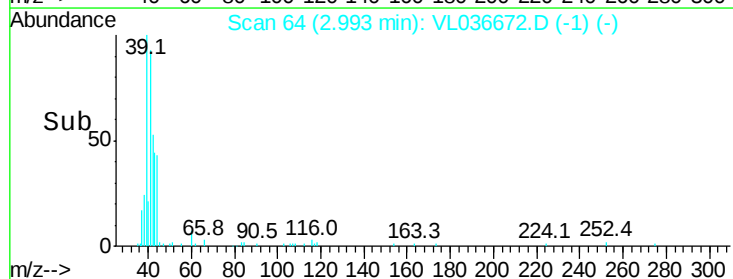
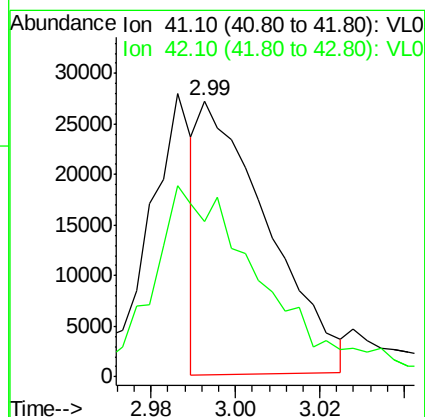
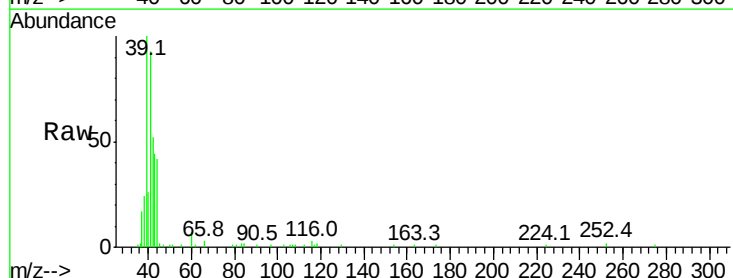
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

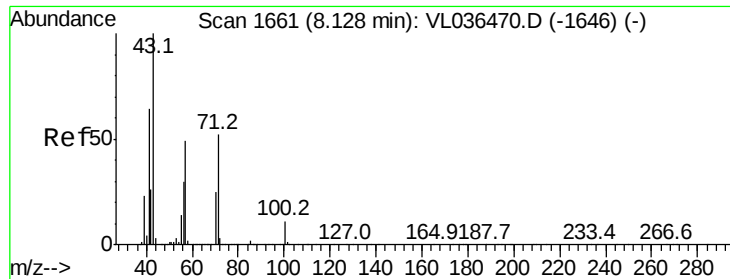
Tgt Ion: 49 Resp: 1131575
 Ion Ratio Lower Upper
 49 100
 128 46.6 23.5 70.6
 130 61.5 29.1 87.4



#9
 Propene
 Concen: 0.457 ppbv
 RT: 2.99 min Scan# 64
 Delta R.T. -0.02 min
 Lab File: VL036672.D
 Acq: 3 Apr 2021 9:05

Tgt Ion: 41 Resp: 30798
 Ion Ratio Lower Upper
 41 100
 42 0.0 57.0 85.4#





#10

Heptane

Concen: 0.249 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.04 min

Lab File: VL036672.D

Acq: 3 Apr 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

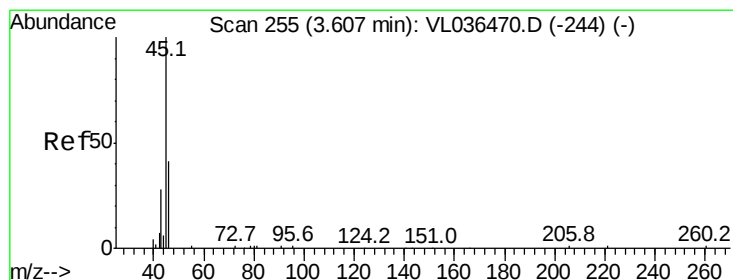
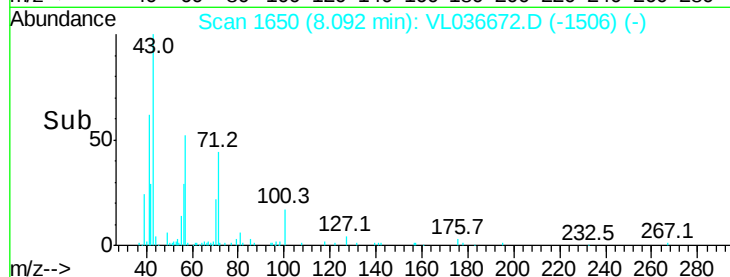
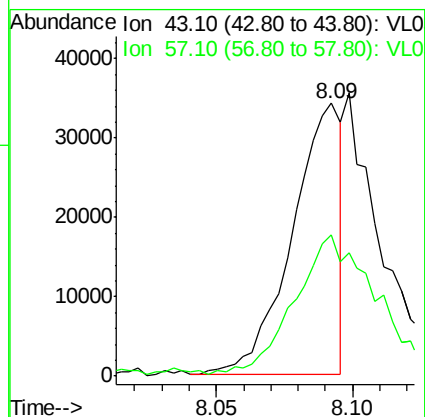
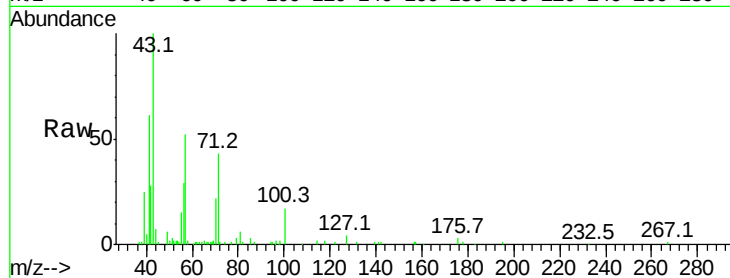
SV2DL

Tgt Ion: 43 Resp: 42837

Ion Ratio Lower Upper

43 100

57 86.7 39.0 58.6#



#13

Ethanol

Concen: 0.272 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.03 min

Lab File: VL036672.D

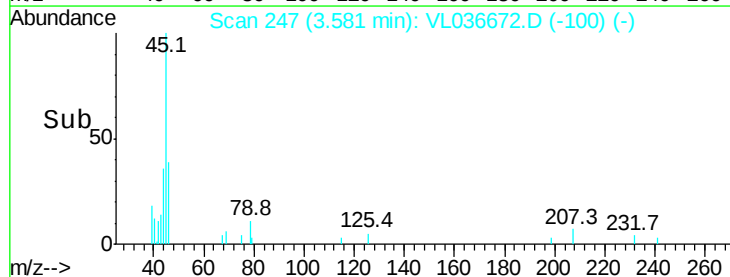
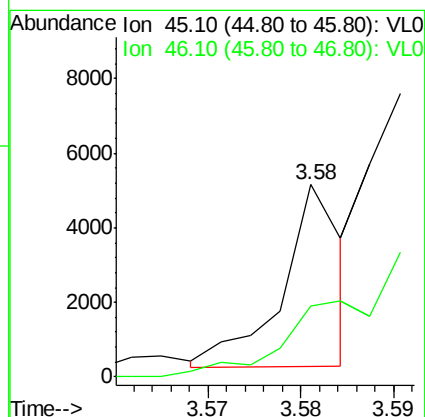
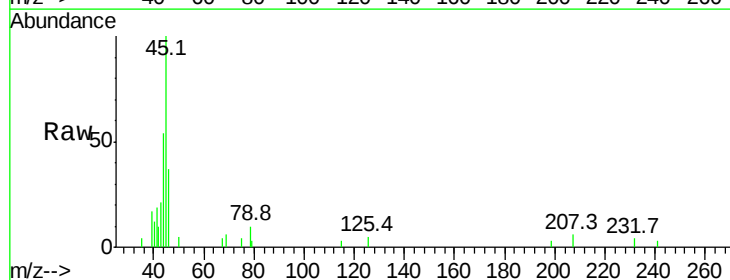
Acq: 3 Apr 2021 9:05

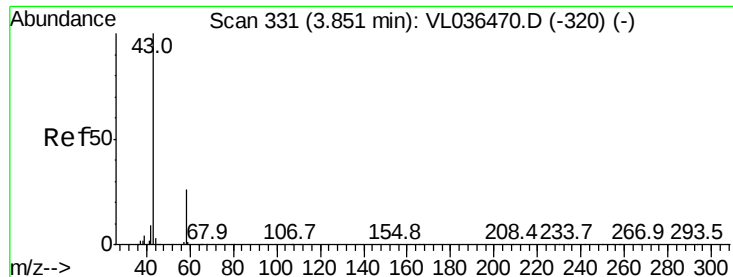
Tgt Ion: 45 Resp: 2181

Ion Ratio Lower Upper

45 100

46 0.0 16.6 66.2#





#15

Acetone

Concen: 2.629 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL036672.D

Acq: 3 Apr 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

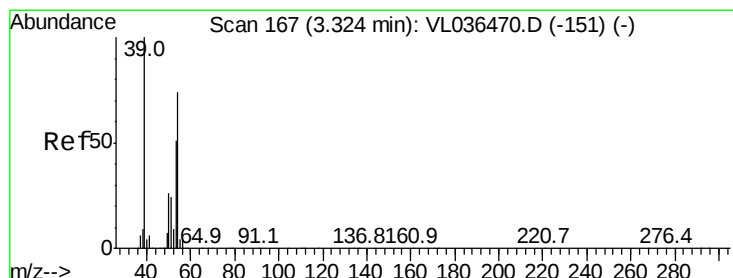
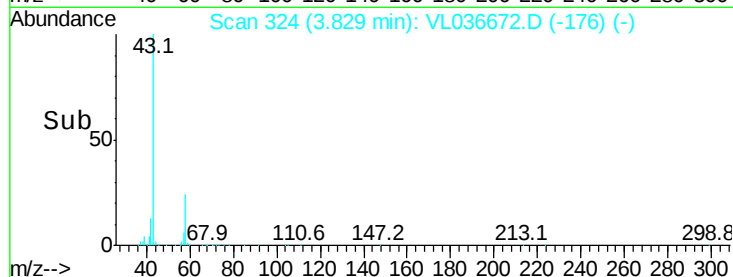
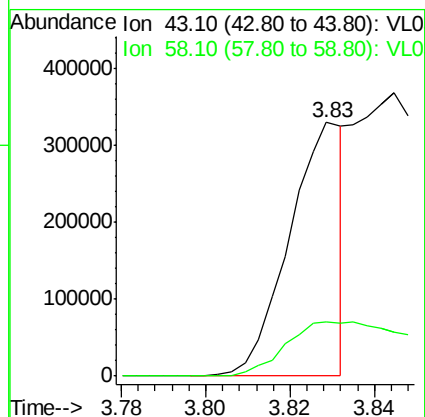
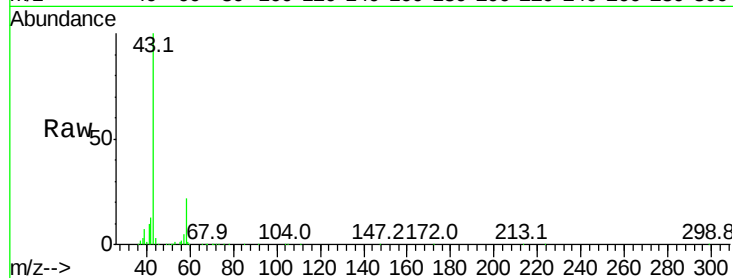
SV2DL

Tgt Ion: 43 Resp: 292750

Ion Ratio Lower Upper

43 100

58 68.5 21.2 31.8#



#16

1,3-Butadiene

Concen: 0.864 ppbv

RT: 3.29 min Scan# 156

Delta R.T. -0.04 min

Lab File: VL036672.D

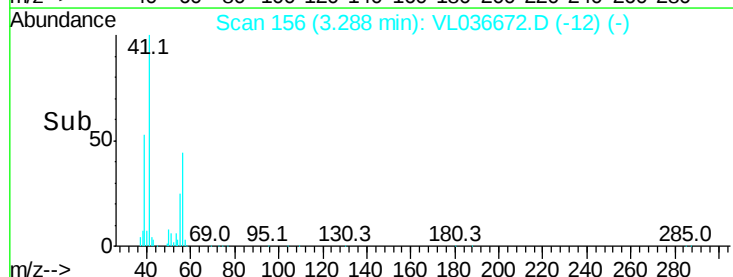
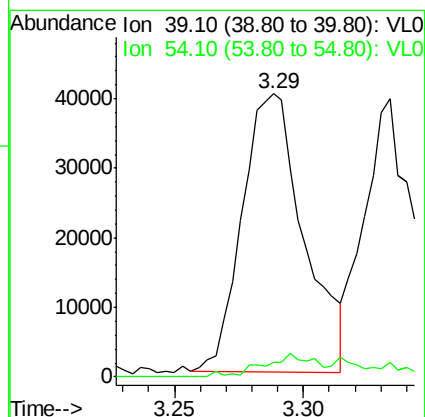
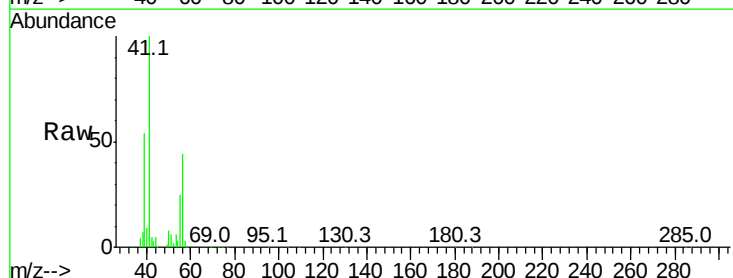
Acq: 3 Apr 2021 9:05

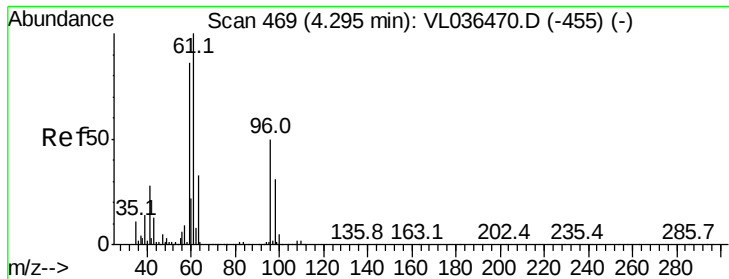
Tgt Ion: 39 Resp: 66957

Ion Ratio Lower Upper

39 100

54 12.1 58.8 88.2#



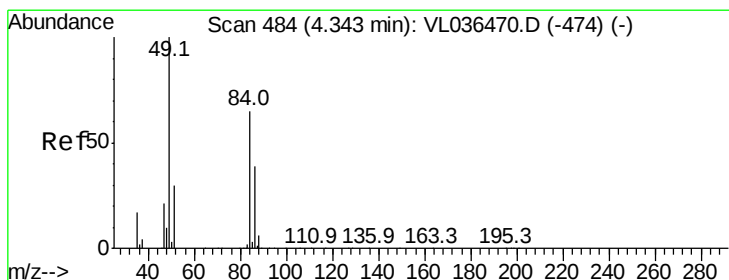
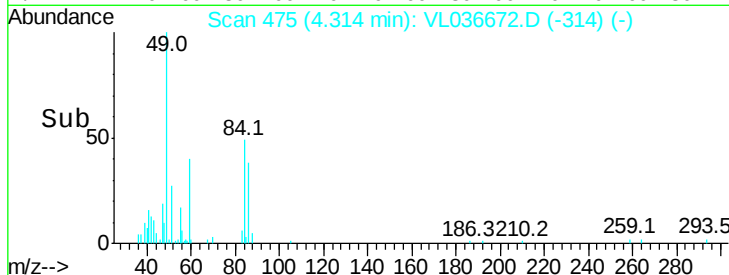
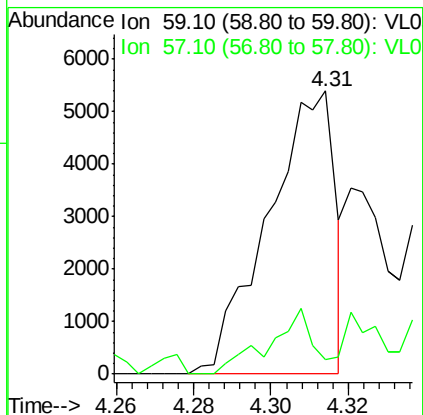
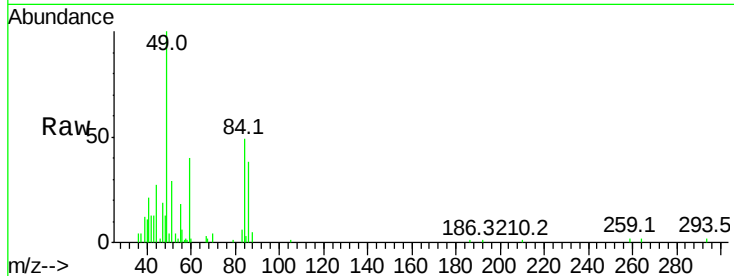


#17

tert-Butyl alcohol
Concen: 0.067 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.02 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

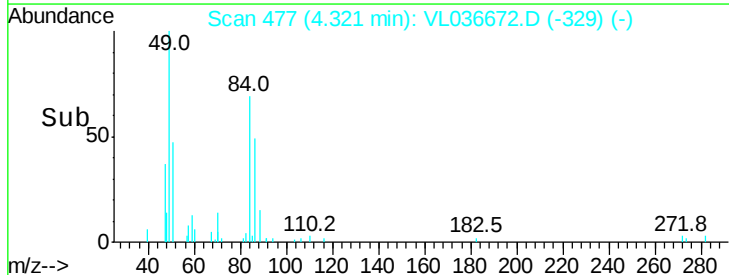
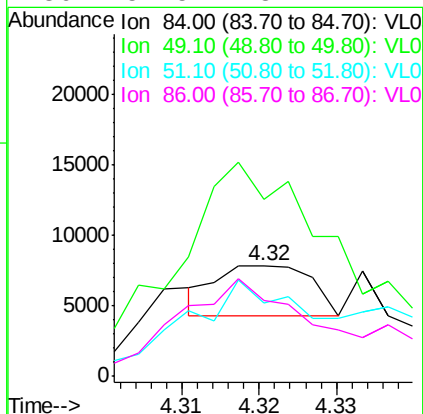
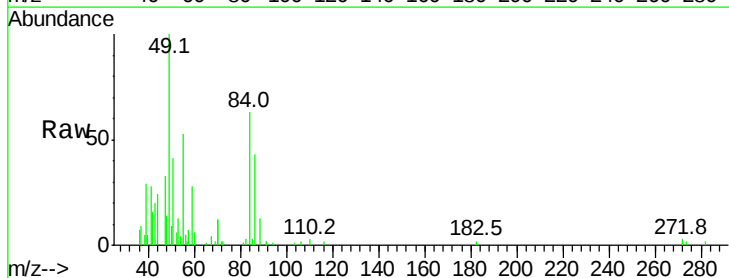
Tgt Ion: 59 Resp: 6467
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

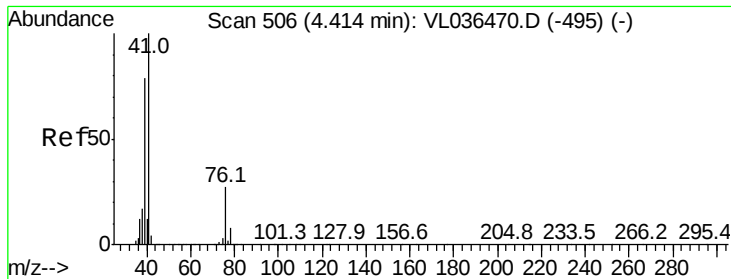


#20

Methylene Chloride
Concen: 0.058 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.02 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

Tgt Ion: 84 Resp: 3025
Ion Ratio Lower Upper
84 100
49 113.1 122.9 184.3#
51 30.4 36.9 55.3#
86 57.5 48.2 72.4

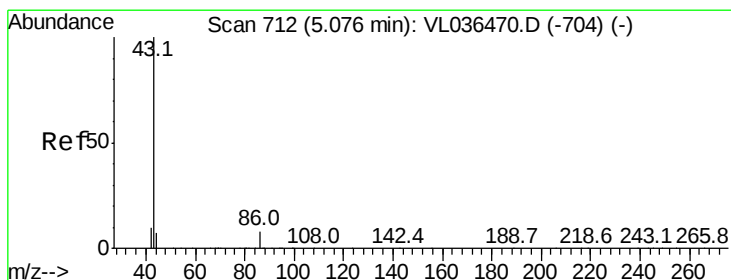
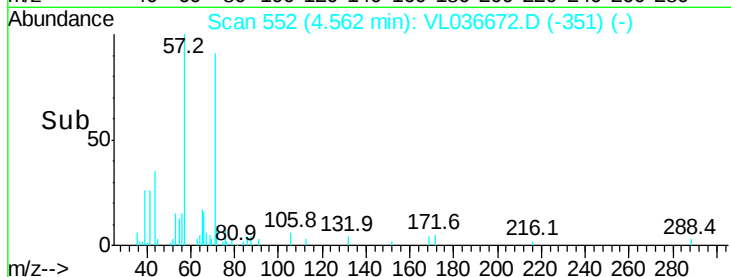
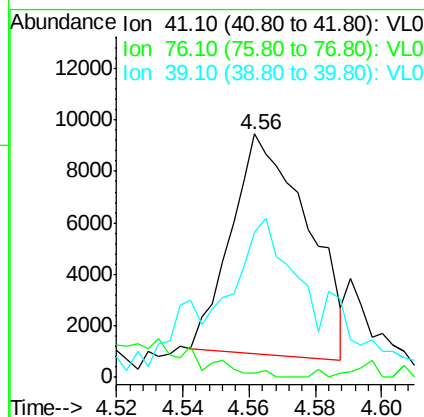
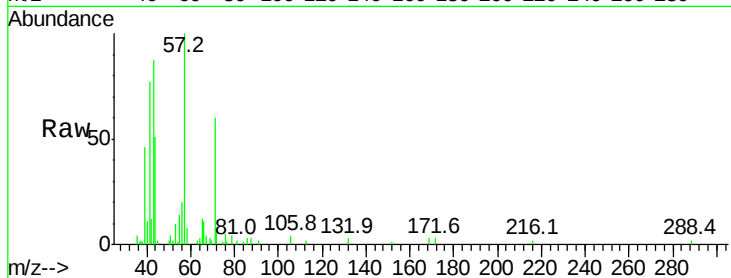




#21
 Allyl Chloride
 Concen: 0.154 ppbv
 RT: 4.56 min Scan# 552
 Delta R.T. 0.15 min
 Lab File: VL036672.D
 Acq: 3 Apr 2021 9:05

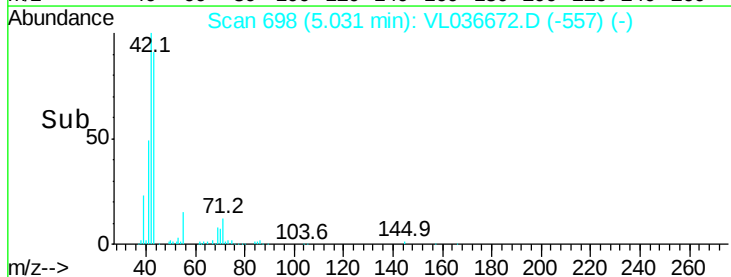
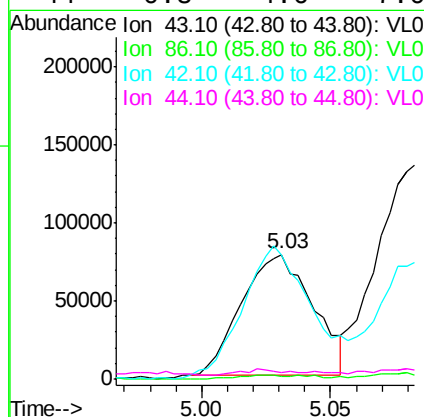
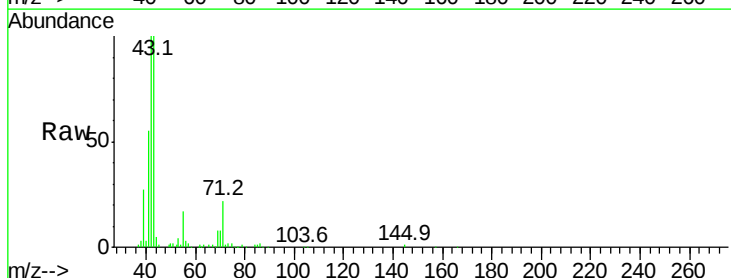
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

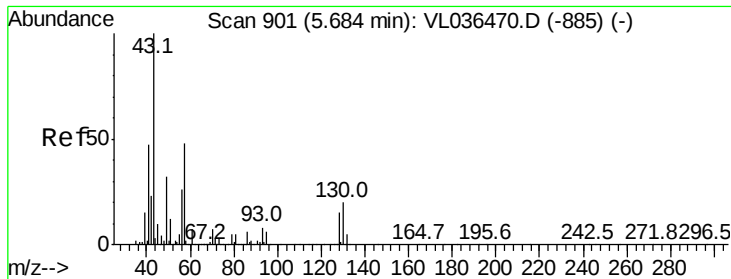
Tgt Ion: 41 Resp: 13639
 Ion Ratio Lower Upper
 41 100
 76 22.9 22.9 34.3
 39 83.1 67.3 100.9



#23
 Vinyl Acetate
 Concen: 0.783 ppbv
 RT: 5.03 min Scan# 698
 Delta R.T. -0.05 min
 Lab File: VL036672.D
 Acq: 3 Apr 2021 9:05

Tgt Ion: 43 Resp: 149248
 Ion Ratio Lower Upper
 43 100
 86 2.0 5.4 8.0#
 42 99.8 8.5 12.7#
 44 0.8 4.6 7.0#

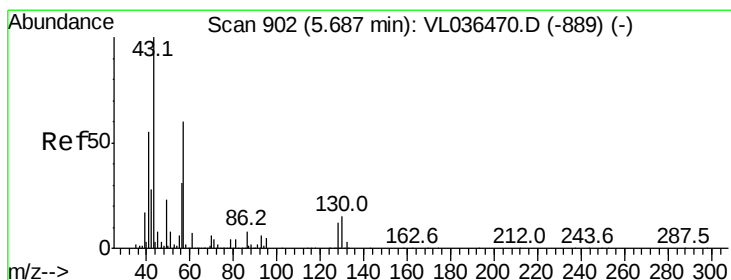
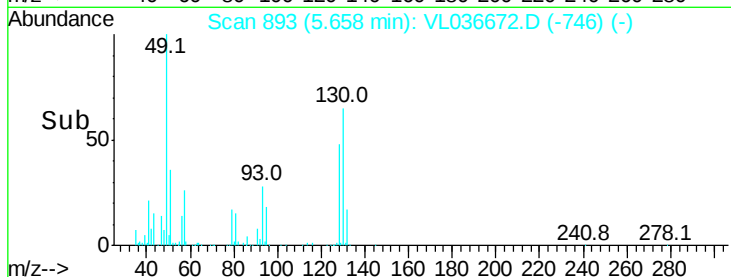
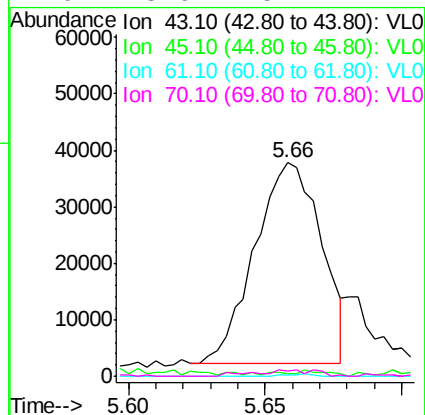
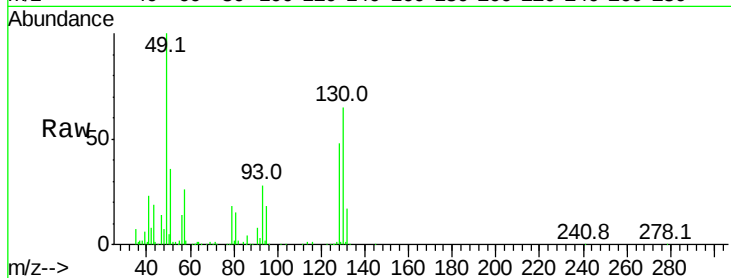




#25
Ethyl Acetate
Concen: 0.228 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

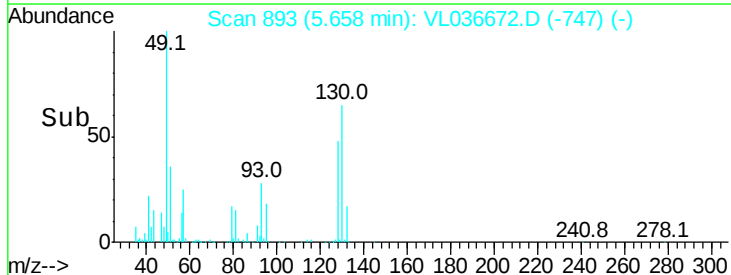
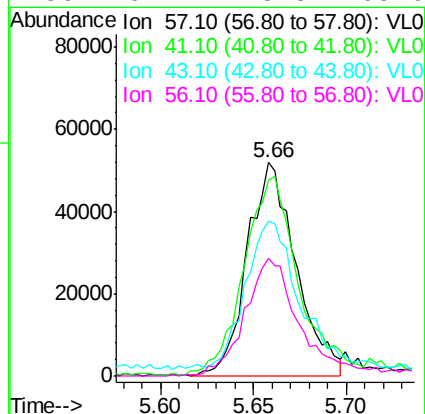
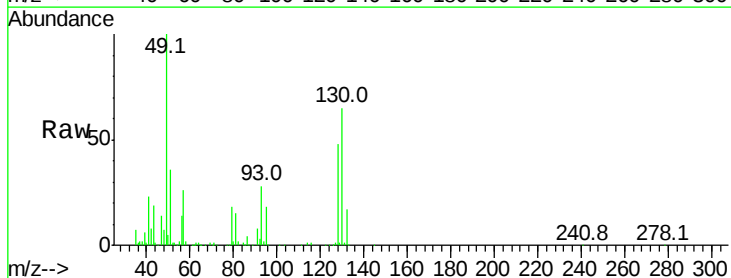
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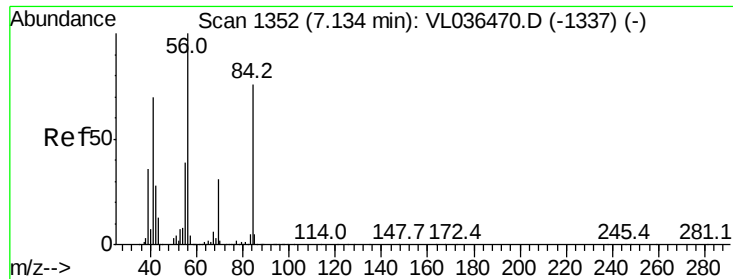
Tgt Ion:	43	Resp:	60471
Ion	Ratio	Lower	Upper
43	100		
45	3.6	7.9	11.9#
61	0.4	7.4	11.2#
70	3.6	5.1	7.7#



#26
Hexane
Concen: 0.776 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

Tgt Ion:	57	Resp:	95320
Ion	Ratio	Lower	Upper
57	100		
41	108.0	77.2	115.8
43	83.2	173.8	260.6#
56	61.7	43.8	65.6

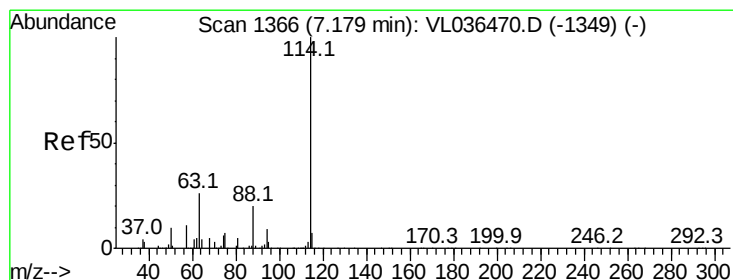
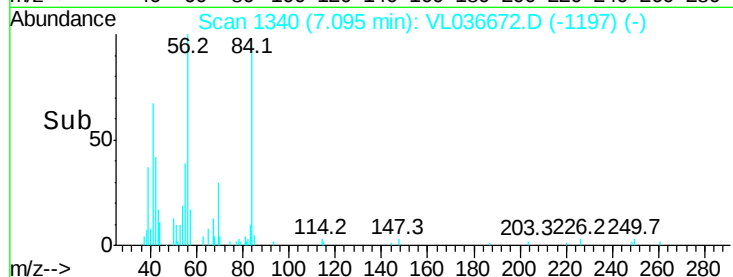
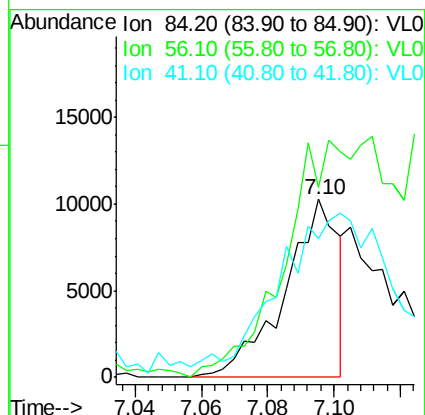
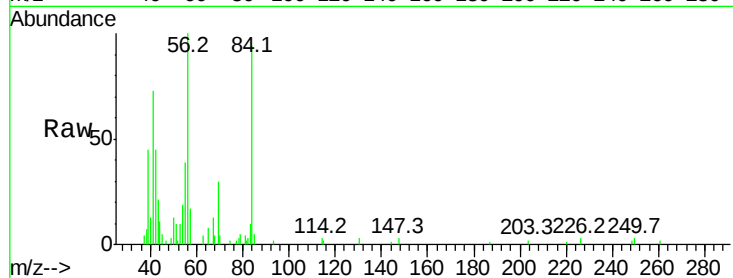




#30
Cyclohexane
Concen: 0.116 ppbv
RT: 7.10 min Scan# 1340
Delta R.T. -0.04 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

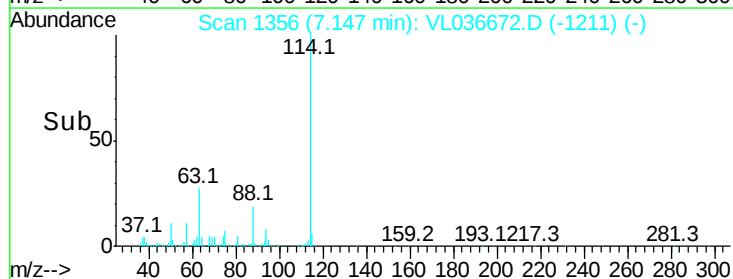
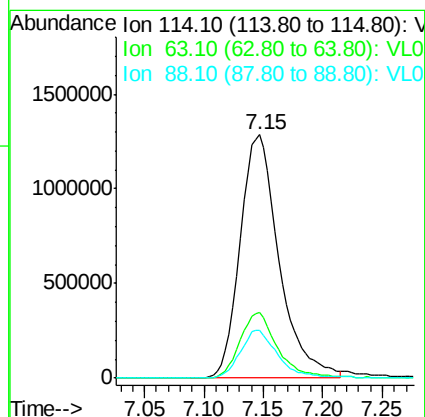
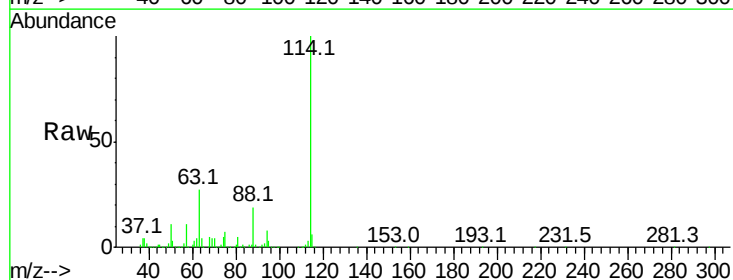
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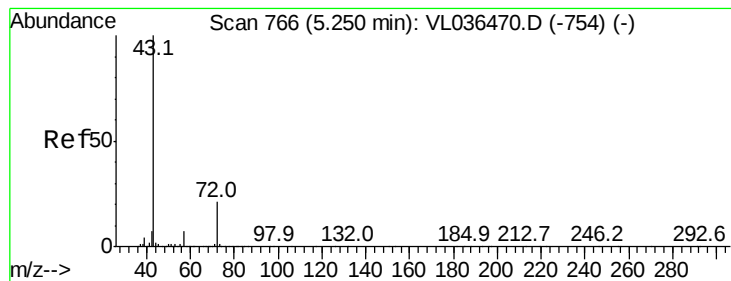
Tgt Ion: 84 Resp: 11595
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 0.0 75.3 112.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.03 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

Tgt Ion: 114 Resp: 2919934
Ion Ratio Lower Upper
114 100
63 26.6 22.4 33.6
88 19.2 15.4 23.0





#34

2-Butanone

Concen: 7.557 ppbv

RT: 5.22 min Scan# 757

Delta R.T. -0.03 min

Lab File: VL036672.D

Acq: 3 Apr 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

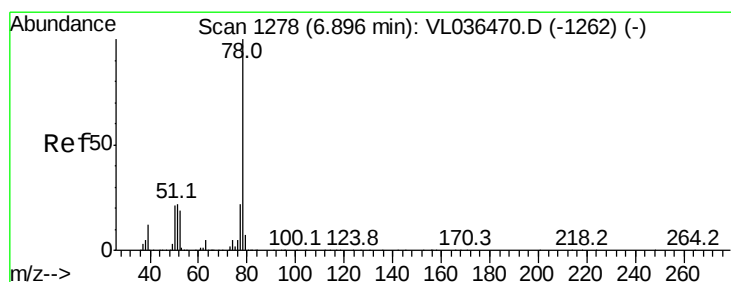
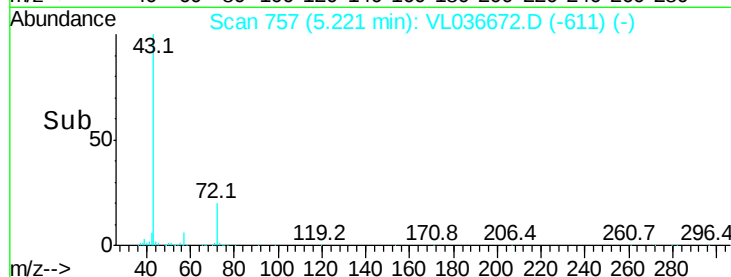
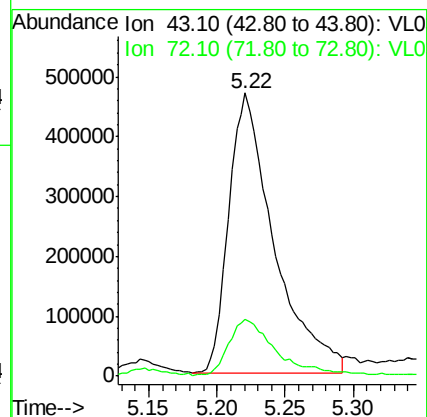
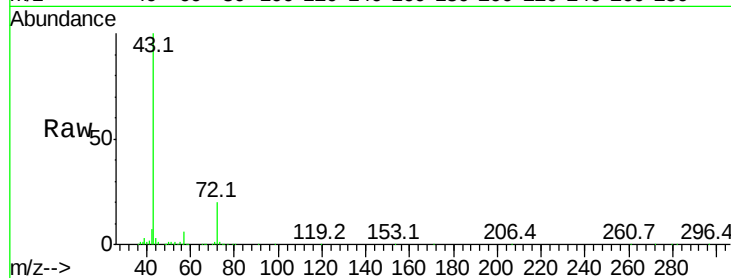
SV2DL

Tgt Ion: 43 Resp: 1077079

Ion Ratio Lower Upper

43 100

72 22.5 17.0 25.6



#36

Benzene

Concen: 0.130 ppbv

RT: 6.86 min Scan# 1268

Delta R.T. -0.03 min

Lab File: VL036672.D

Acq: 3 Apr 2021 9:05

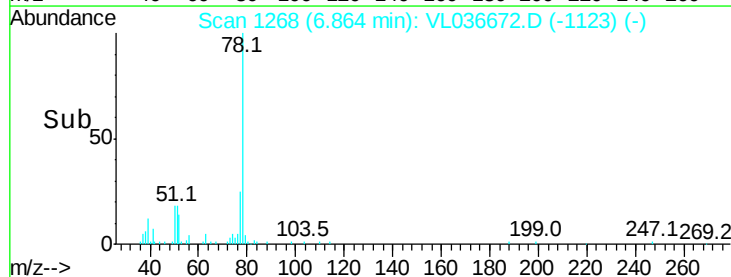
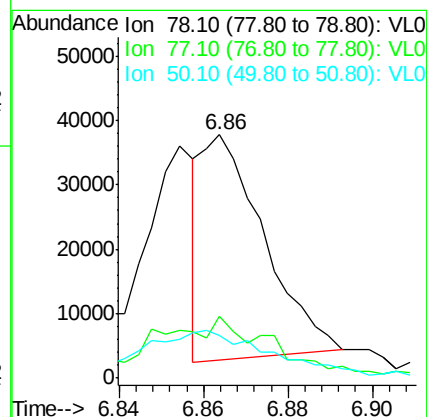
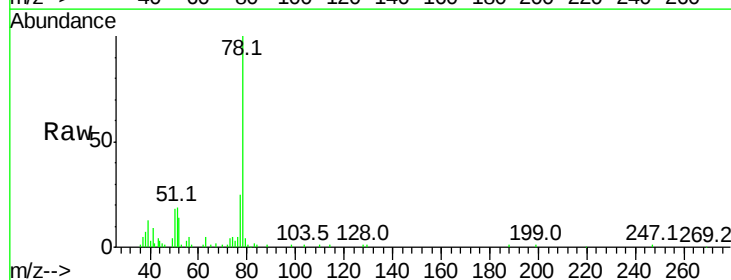
Tgt Ion: 78 Resp: 35069

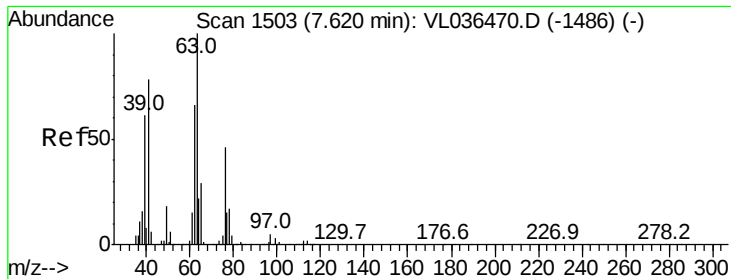
Ion Ratio Lower Upper

78 100

77 23.4 18.0 27.0

50 15.5 16.5 24.7#





#39

1,2-Dichloropropane

Concen: 6.909 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.47 min

Lab File: VL036672.D

Acq: 3 Apr 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

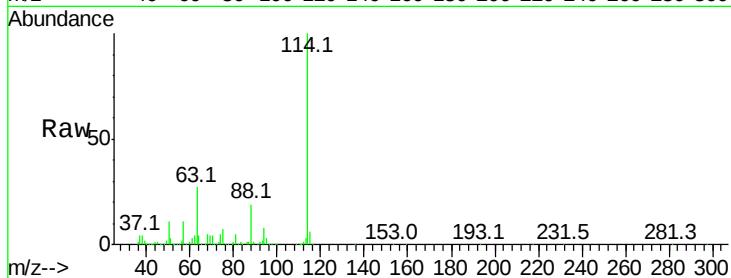
Tgt Ion: 63 Resp: 754707

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

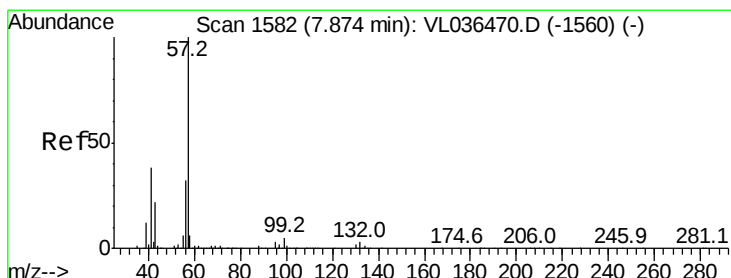
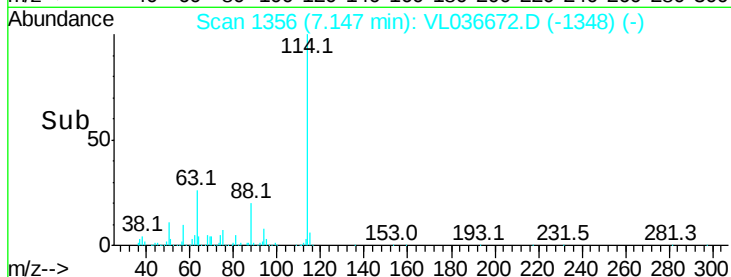
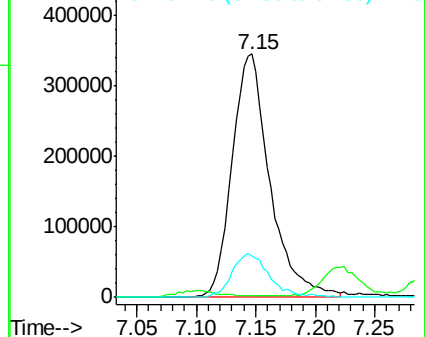
62 16.8 52.8 79.2#



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



#44

2,2,4-Trimethylpentane

Concen: 2.238 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.03 min

Lab File: VL036672.D

Acq: 3 Apr 2021 9:05

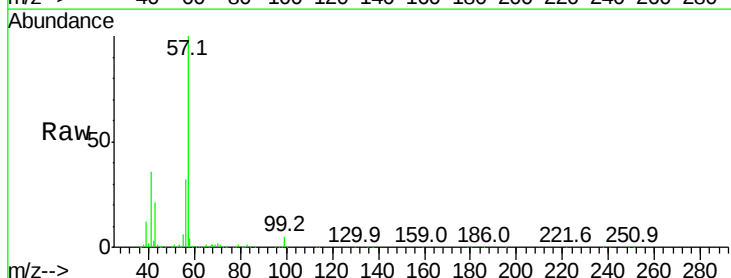
Tgt Ion: 57 Resp: 1060742

Ion Ratio Lower Upper

57 100

41 37.6 28.8 43.2

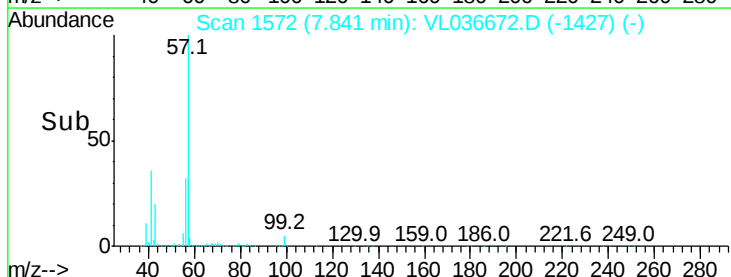
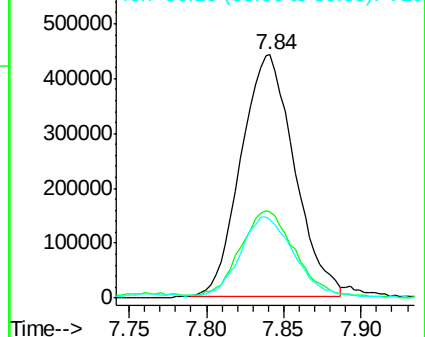
56 35.4 26.1 39.1

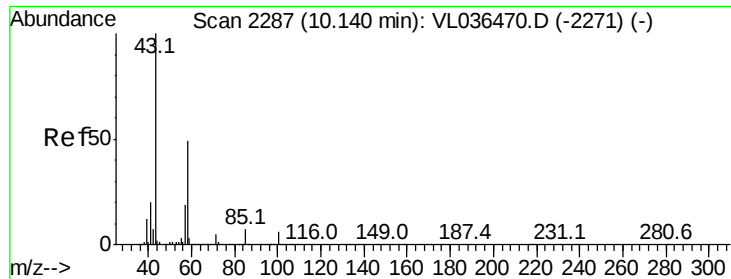


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

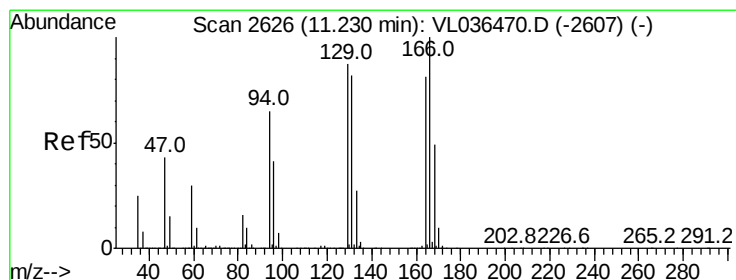
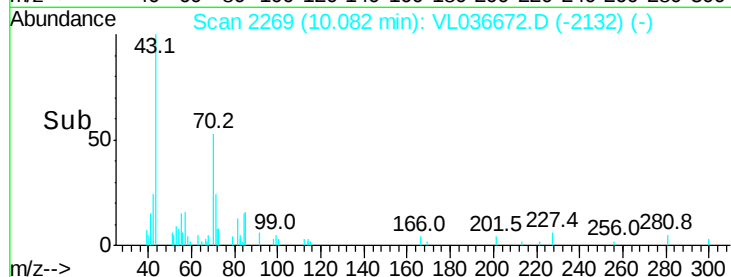
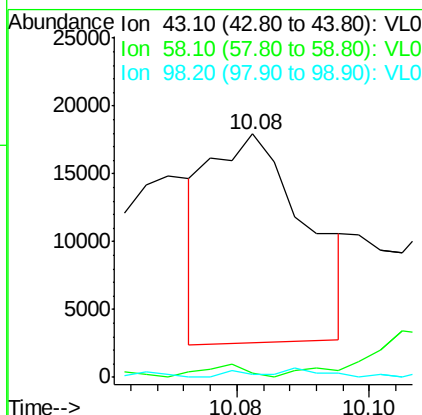
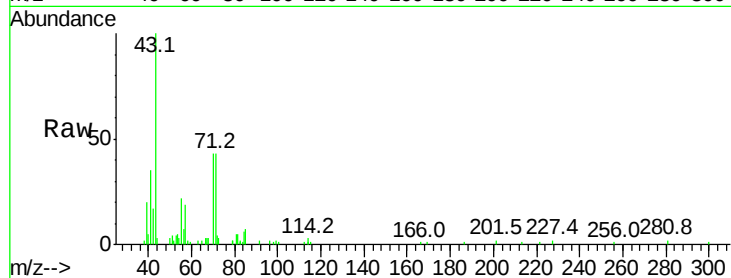




#51
2-Hexanone
Concen: 0.150 ppbv
RT: 10.08 min Scan# 2269
Delta R.T. -0.06 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

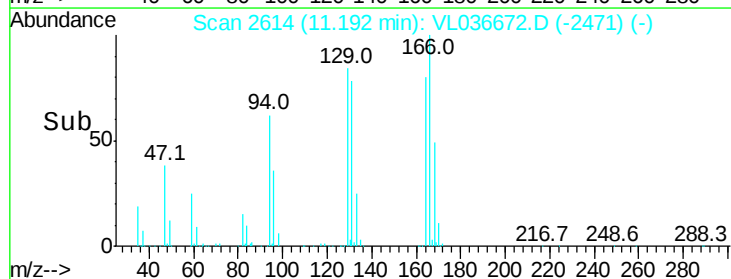
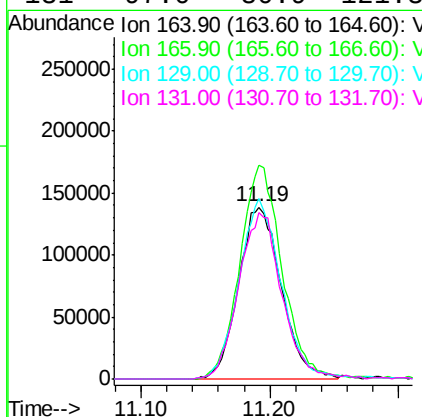
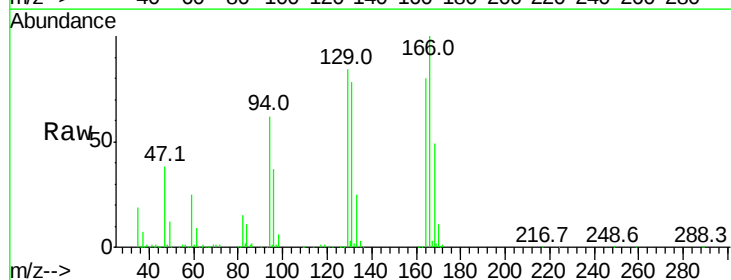
Instrument :
MSVOA_L
ClientSampled :
SV2DL

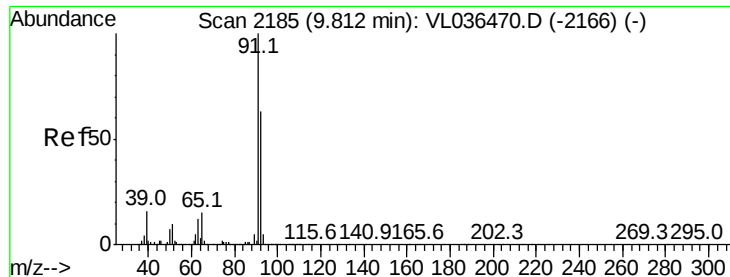
Tgt Ion: 43 Resp: 15640
Ion Ratio Lower Upper
43 100
58 0.0 37.7 56.5#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 3.231 ppbv
RT: 11.19 min Scan# 2614
Delta R.T. -0.04 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

Tgt Ion: 164 Resp: 320418
Ion Ratio Lower Upper
164 100
166 124.2 98.3 147.5
129 105.0 85.8 128.8
131 97.0 80.9 121.3





#53

Toluene

Concen: 0.477 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.04 min

Lab File: VL036672.D

Acq: 3 Apr 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

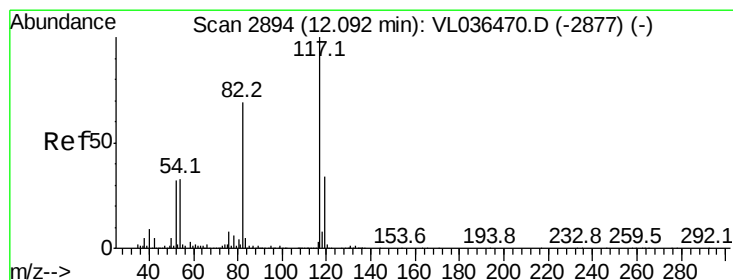
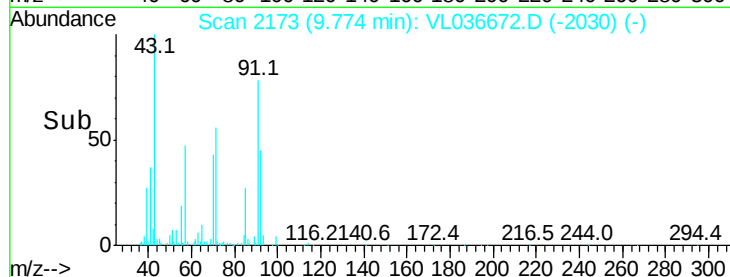
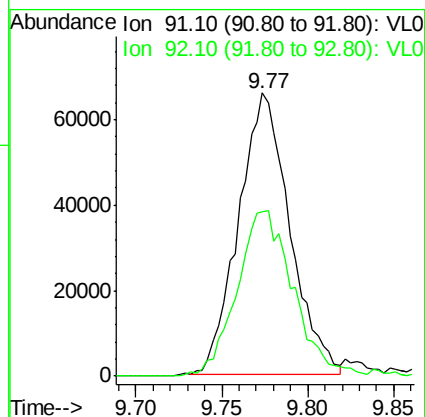
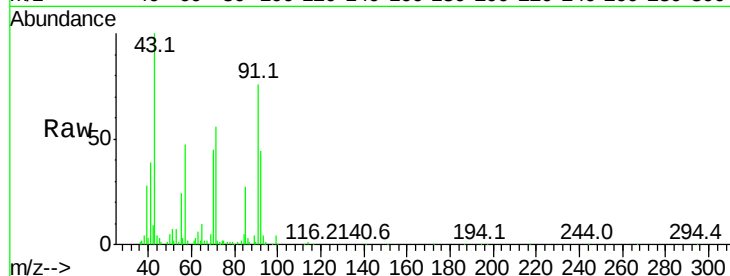
SV2DL

Tgt Ion: 91 Resp: 136846

Ion Ratio Lower Upper

91 100

92 65.0 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2882

Delta R.T. -0.04 min

Lab File: VL036672.D

Acq: 3 Apr 2021 9:05

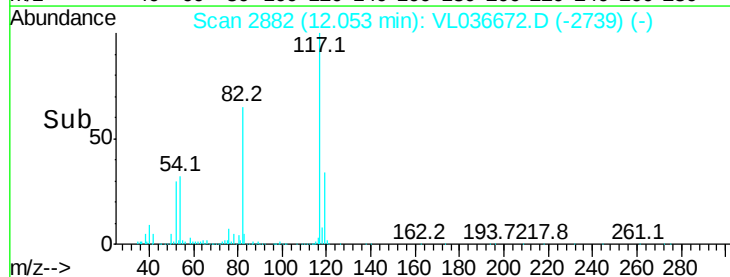
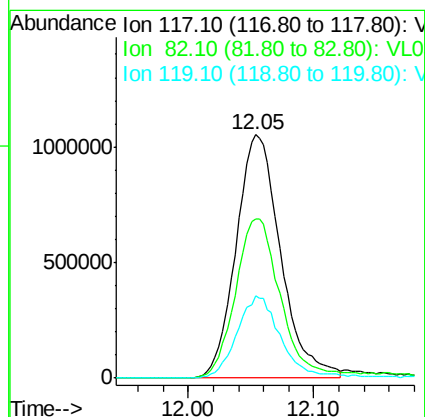
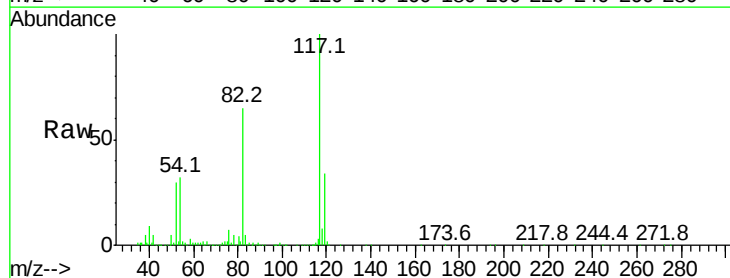
Tgt Ion: 117 Resp: 2593125

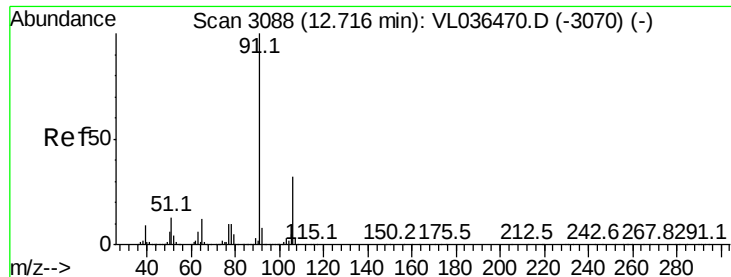
Ion Ratio Lower Upper

117 100

82 66.7 57.4 86.0

119 34.3 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.542 ppbv

RT: 12.68 min Scan# 3076

Delta R.T. -0.04 min

Lab File: VL036672.D

Acq: 3 Apr 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

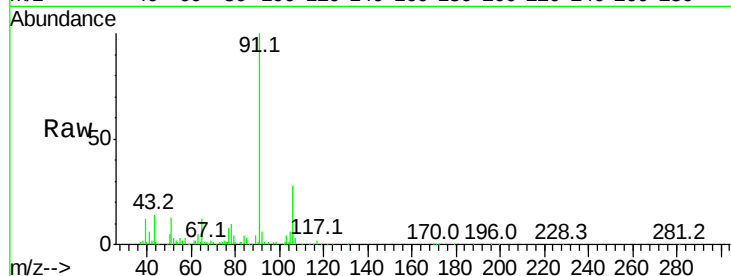
SV2DL

Tgt Ion: 91 Resp: 204409

Ion Ratio Lower Upper

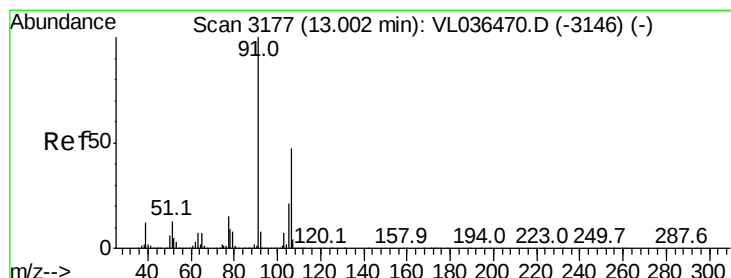
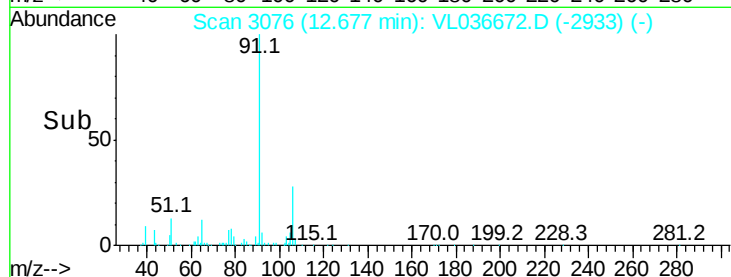
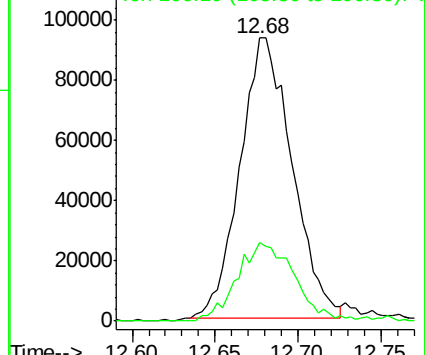
91 100

106 27.7 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 1.370 ppbv

RT: 12.93 min Scan# 3156

Delta R.T. -0.07 min

Lab File: VL036672.D

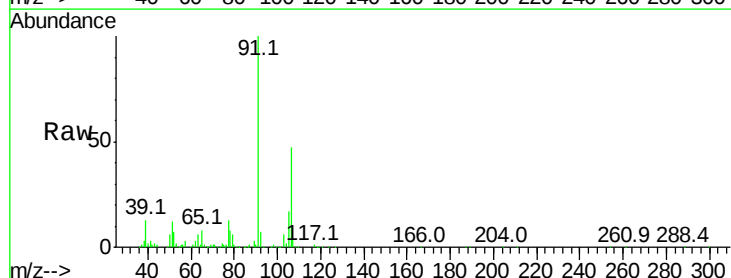
Acq: 3 Apr 2021 9:05

Tgt Ion: 91 Resp: 450662

Ion Ratio Lower Upper

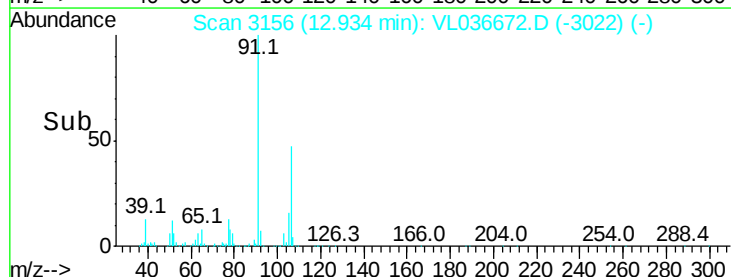
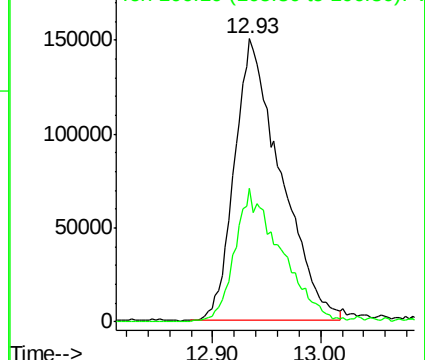
91 100

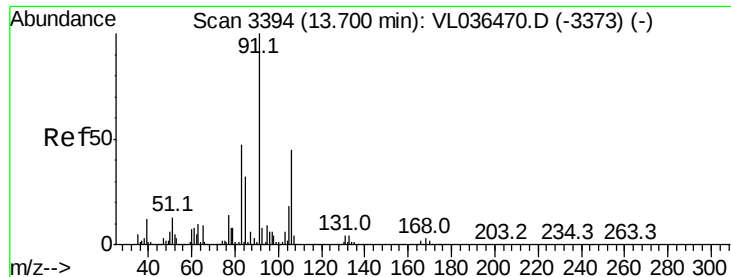
106 47.3 35.3 52.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

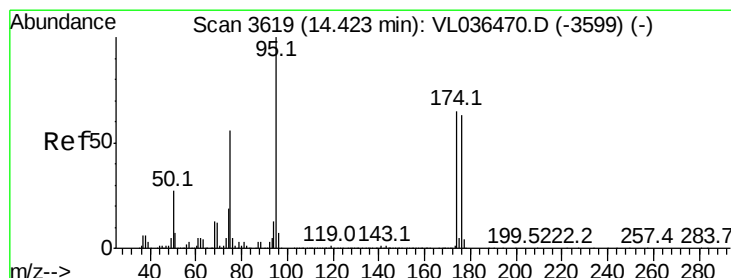
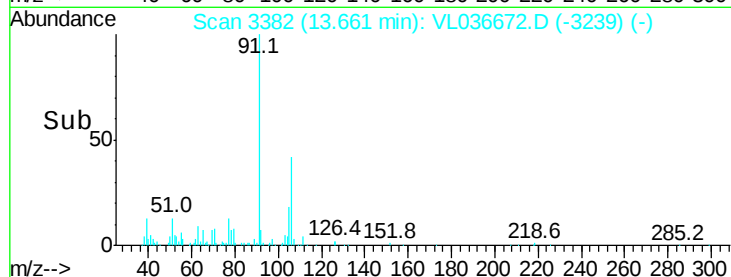
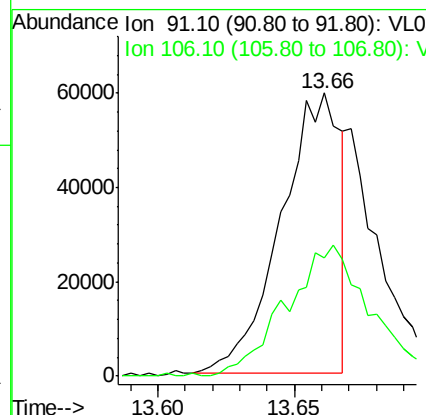
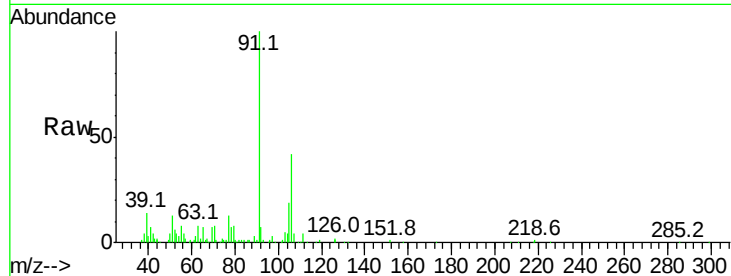




#60
o-Xylene
Concen: 0.283 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.04 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 91 Resp: 89997
Ion Ratio Lower Upper
91 100
106 70.2 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.633 ppbv
RT: 14.38 min Scan# 3607
Delta R.T. -0.04 min
Lab File: VL036672.D
Acq: 3 Apr 2021 9:05

Tgt Ion: 95 Resp: 1990955
Ion Ratio Lower Upper
95 100
174 75.0 51.0 76.6
175 5.7 3.9 5.9

