

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036513.D
 Acq On : 26 Mar 2021 14:15
 Operator : SY/AP
 Sample : M1760-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7-TROPHY-CABINET

Manual Integrations
 APPROVED

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 3/29/2021 4:39:03 PM

Quant Time: Mar 28 20:27:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 28 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	5.69	49	1561656	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3402386	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.12	117	3135075	10.00	ppbv	0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.45	95	2331144	9.33	ppbv	0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	46204	0.181	ppbv #	84
3) Chlorodifluoromethane	3.01	51	79678	0.273	ppbv #	83
4) Chloromethane	3.16	50	72519	0.704	ppbv	96
9) Propene	3.03	41	51109	0.549	ppbv	88
11) Trichlorofluoromethane	3.97	101	52078m	0.201	ppbv	
13) Ethanol	3.64	45	4118363	371.803	ppbv	95
15) Acetone	3.87	43	2230697	14.513	ppbv	99
17) tert-Butyl alcohol	4.34	59	28326m	0.212	ppbv	
19) Isopropyl Alcohol	4.00	45	5849429	69.182	ppbv #	94
20) Methylene Chloride	4.37	84	1207765	16.783	ppbv	95
26) Hexane	5.71	57	999464	5.894	ppbv #	48
29) Chloroform	5.78	83	26052m	0.096	ppbv	
34) 2-Butanone	5.28	43	119438m	0.719	ppbv	
35) Carbon Tetrachloride	7.05	117	18332m	0.070	ppbv	
36) Benzene	6.92	78	49796	0.159	ppbv #	90
44) 2,2,4-Trimethylpentane	7.91	57	139055m	0.252	ppbv	
52) Tetrachloroethene	11.25	164	3896m	0.034	ppbv	
53) Toluene	9.84	91	81924m	0.245	ppbv	
58) Ethyl Benzene	12.75	91	44927m	0.099	ppbv	
59) m/p-Xylene	13.01	91	139374m	0.350	ppbv	
60) o-Xylene	13.72	91	49774m	0.129	ppbv	

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

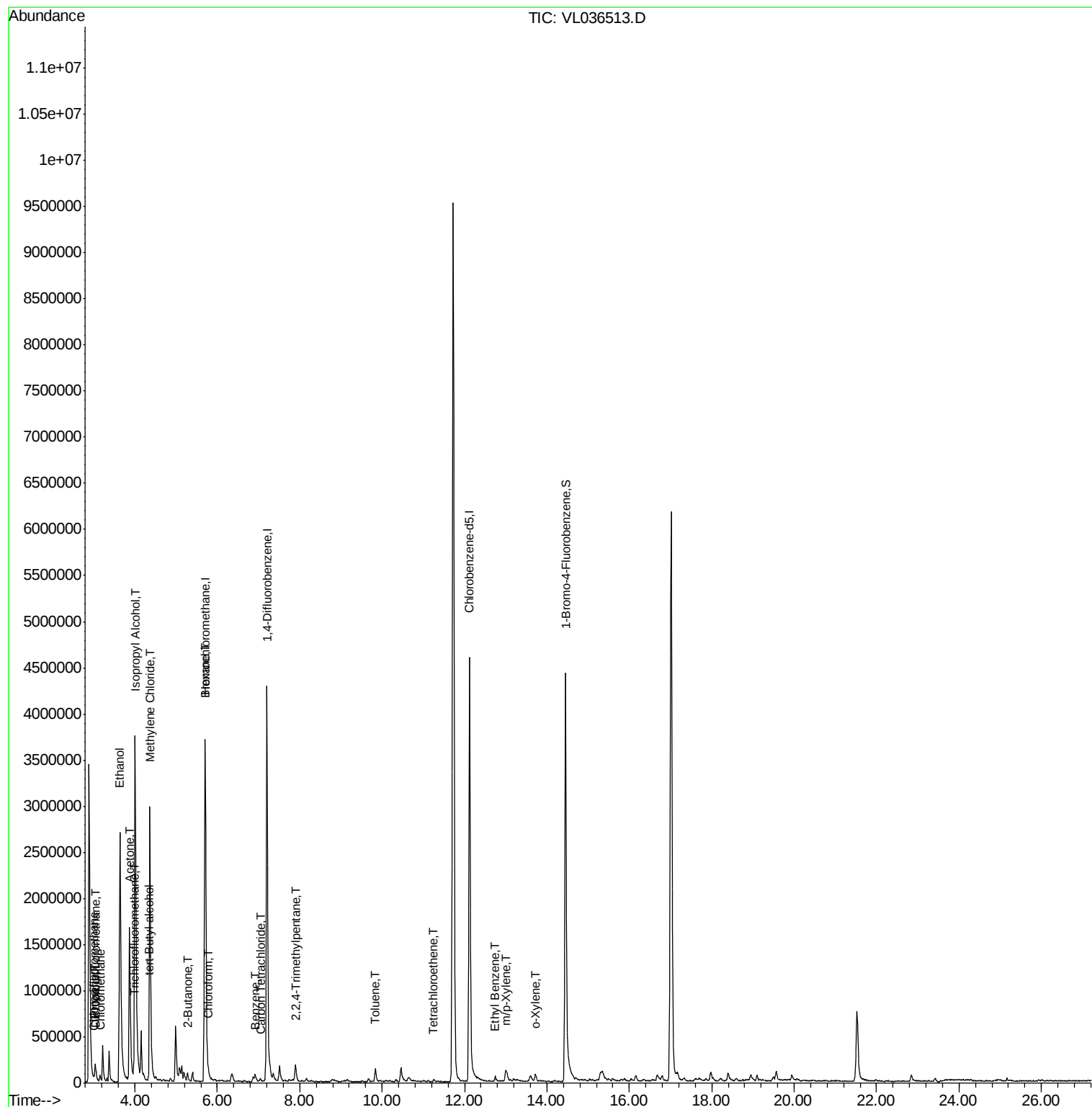
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Data File : VL036513.D
Acq On : 26 Mar 2021 14:15
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Quant Time: Mar 28 20:27:24 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
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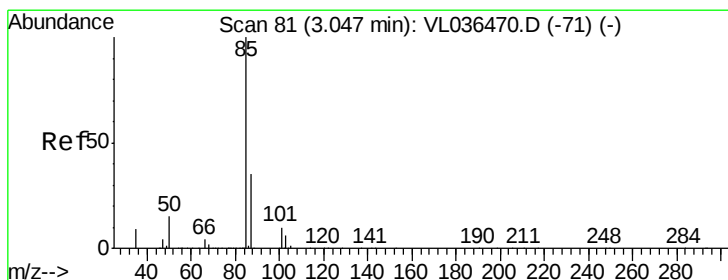
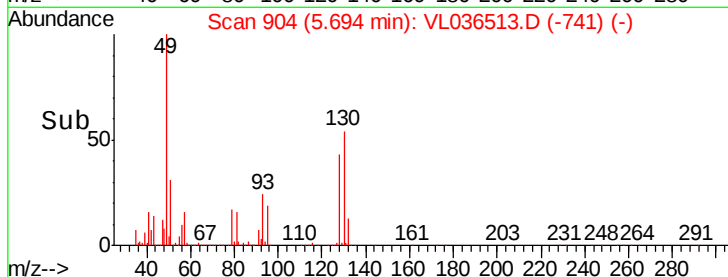
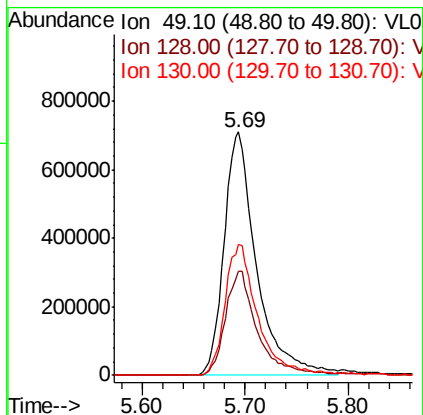
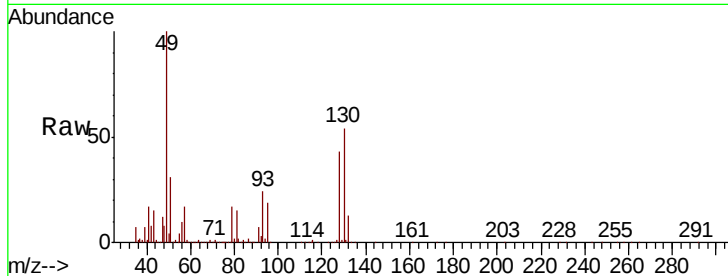
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Instrument :
MSVOA_L
ClientSampleId :
SS-7-TROPHY-CABINET

Tot Ion: 49 Resp: 1561656
Ion Ratio Lower Upper
49 100
128 42.9 23.5 70.6
130 54.8 29.1 87.4

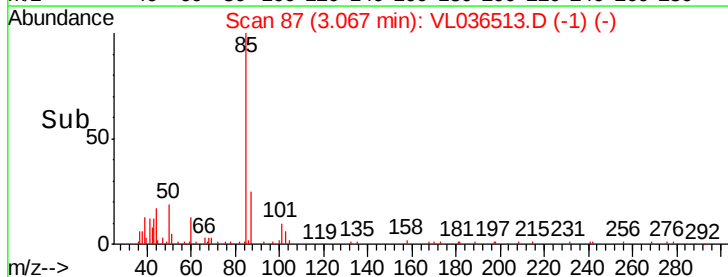
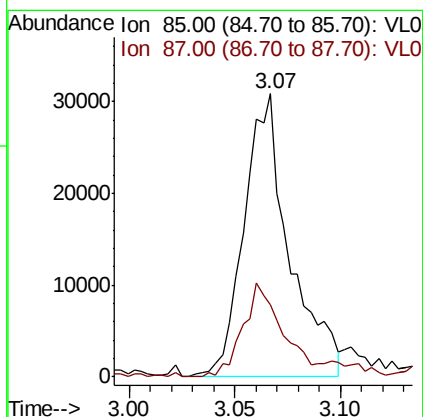
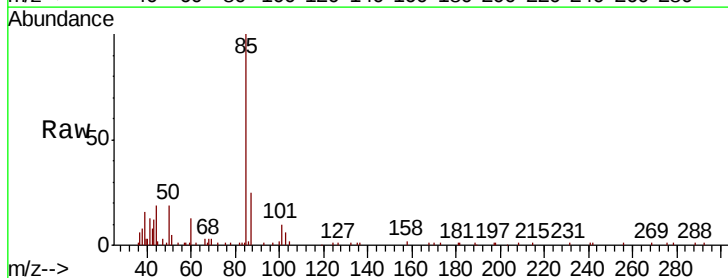
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#2
Dichlorodifluoromethane
Concen: 0.181 ppbv
RT: 3.07 min Scan# 87
Delta R.T. 0.02 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Tgt Ion: 85 Resp: 46204
Ion Ratio Lower Upper
85 100
87 25.4 27.8 41.8#





#3

Chlorodifluoromethane

Concen: 0.273 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.02 min

Lab File: VL036513.D

Acq: 26 Mar 2021 14:15

Instrument :

MSVOA_L

ClientSampleId :

SS-7-TROPHY-CABINET

Tot Ion: 51 Resp: 79678

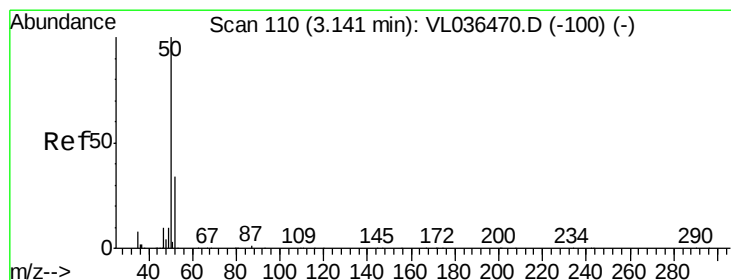
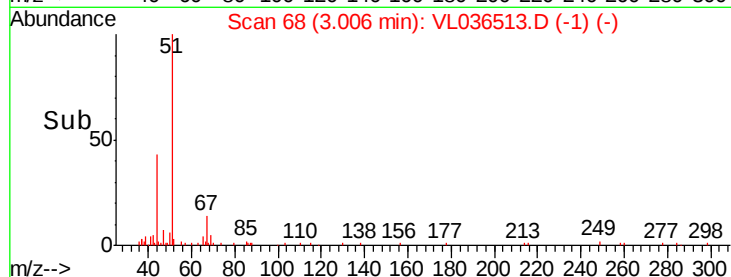
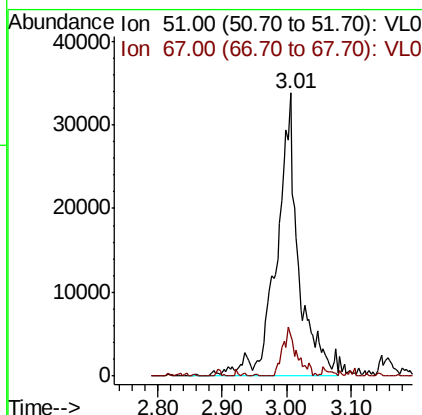
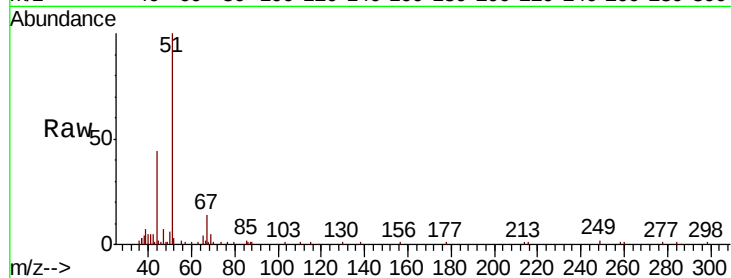
Ion Ratio Lower Upper

51 100

67 11.0 14.7 22.1#

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#4

Chloromethane

Concen: 0.704 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VL036513.D

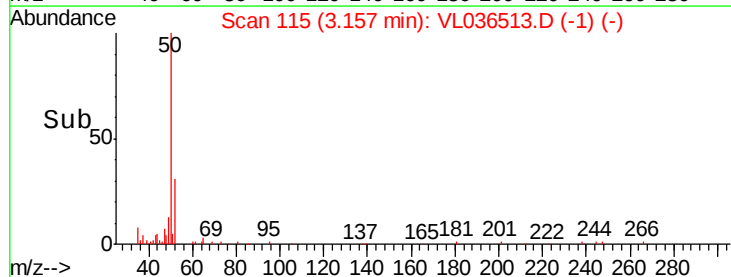
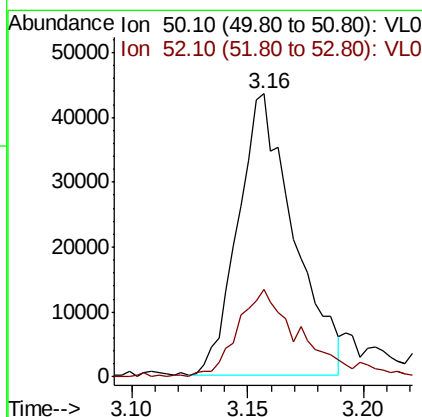
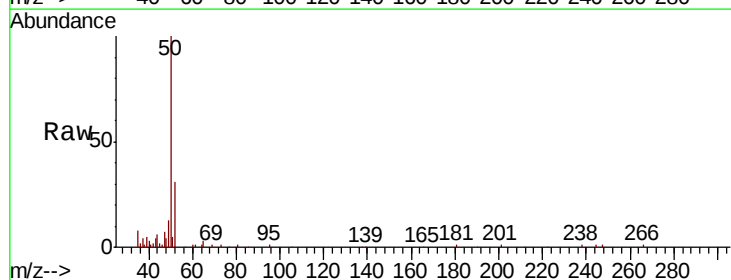
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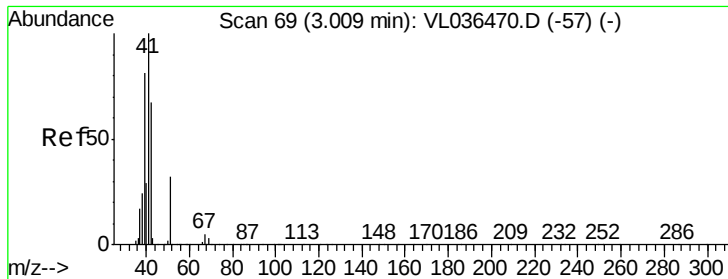
Tgt Ion: 50 Resp: 72519

Ion Ratio Lower Upper

50 100

52 31.4 27.0 40.6





#9

Propene

Concen: 0.549 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL036513.D

Acq: 26 Mar 2021 14:15

Instrument :

MSVOA_L

ClientSampleId :

SS-7-TROPHY-CABINET

Tot Ion: 41 Resp: 51109

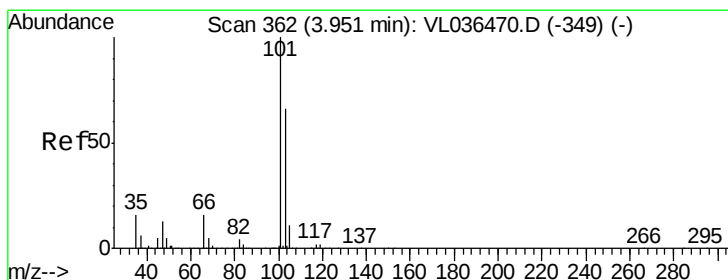
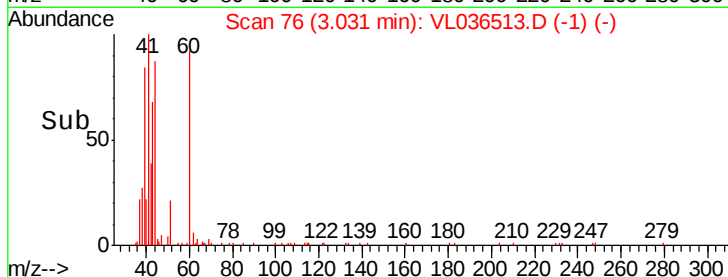
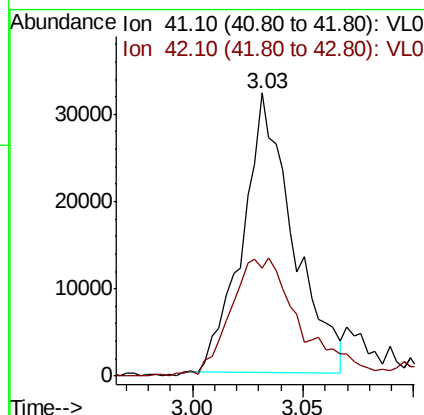
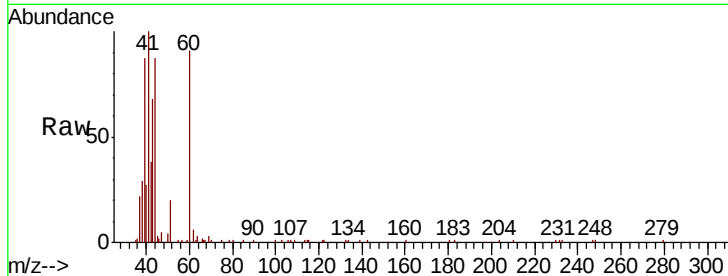
Ion Ratio Lower Upper

41 100

42 61.4 57.0 85.4

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#11

Trichlorofluoromethane

Concen: 0.201 ppbv m

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL036513.D

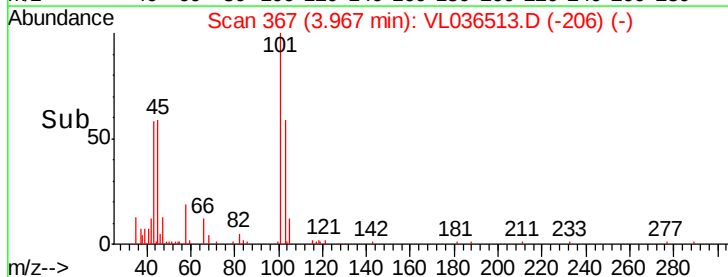
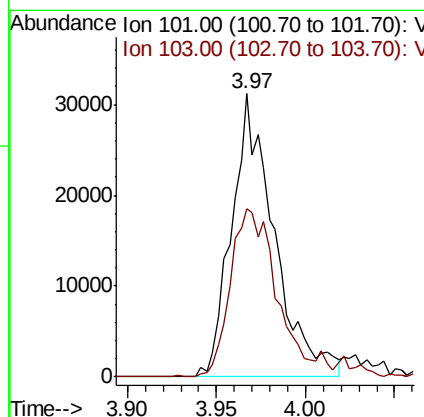
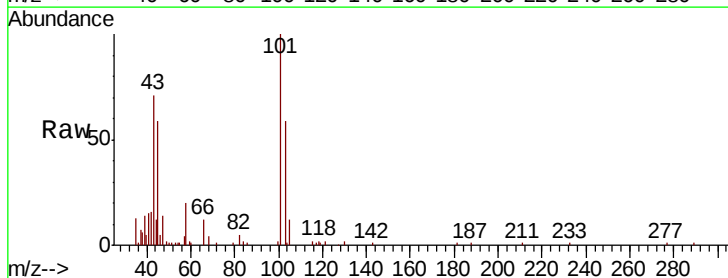
Acq: 26 Mar 2021 14:15

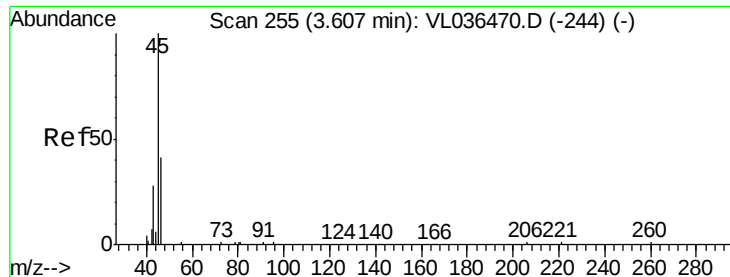
Tgt Ion: 101 Resp: 52078

Ion Ratio Lower Upper

101 100

103 59.3 52.5 78.7





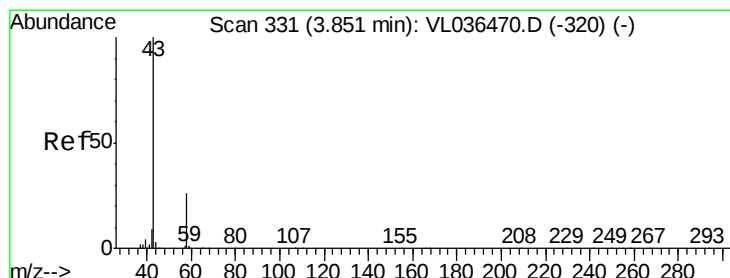
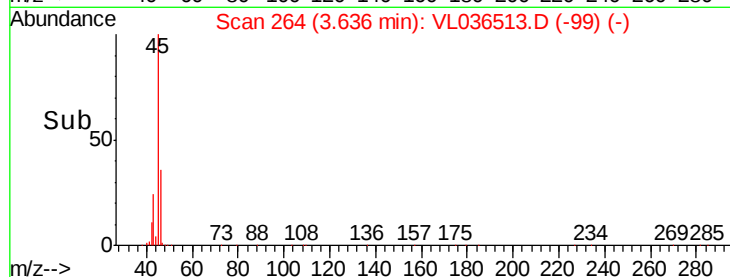
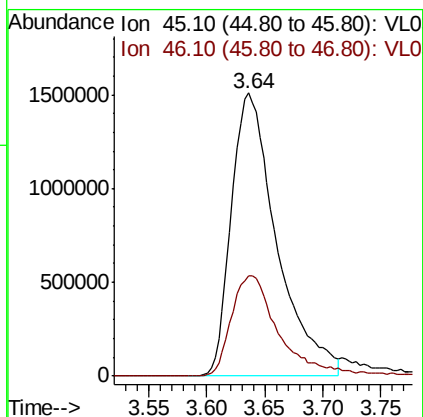
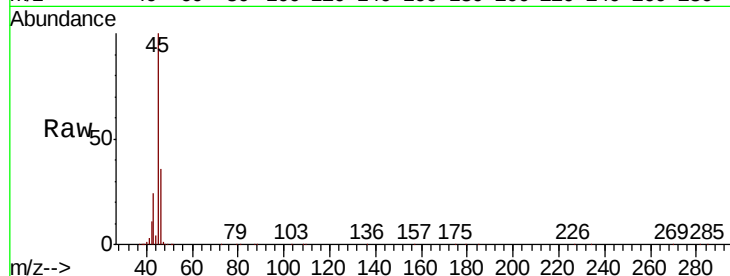
#13
Ethanol
Concen: 371.803 ppbv
RT: 3.64 min Scan# 264
Delta R.T. 0.03 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Instrument :
MSVOA_L
ClientSampleId :
SS-7-TROPHY-CABINET

Tot Ion: 45 Resp: 4118363
Ion Ratio Lower Upper
45 100
46 38.4 16.6 66.2

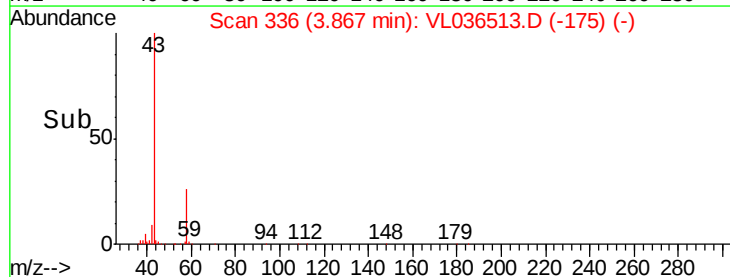
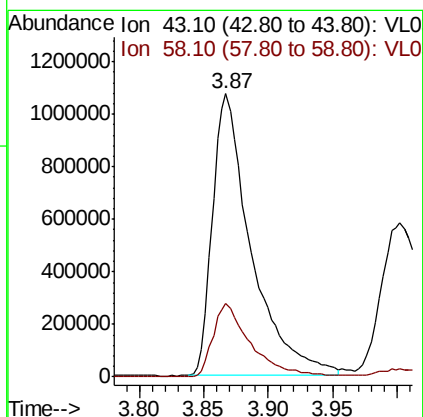
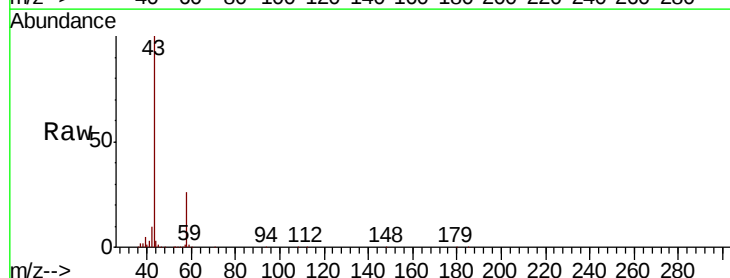
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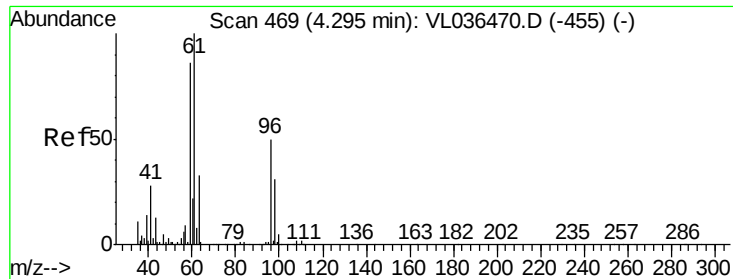
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#15
Acetone
Concen: 14.513 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.02 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Tgt Ion: 43 Resp: 2230697
Ion Ratio Lower Upper
43 100
58 25.9 21.2 31.8





#17

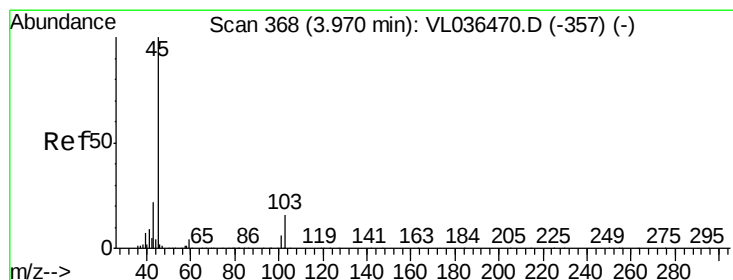
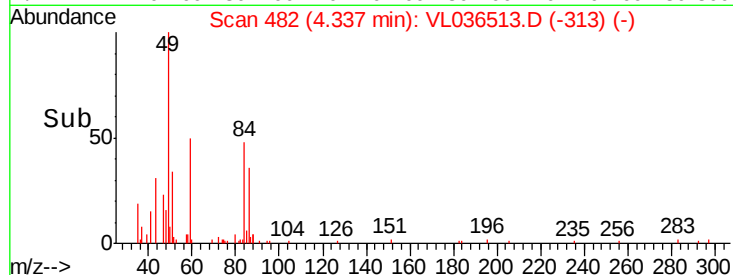
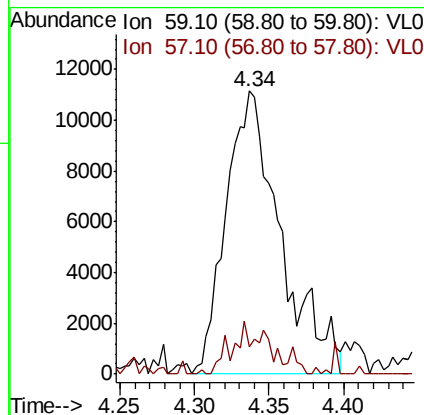
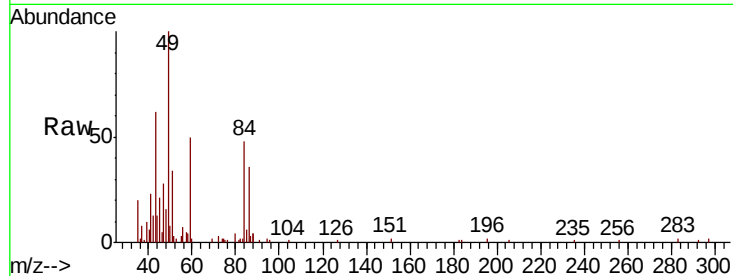
tert-Butyl alcohol
Concen: 0.212 ppbv m
RT: 4.34 min Scan# 482
Delta R.T. 0.04 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Instrument :
MSVOA_L
ClientSampleId :
SS-7-TROPHY-CABINET

Tot Ion: 59 Resp: 28326
Ion Ratio Lower Upper
59 100
57 82.6 8.6 12.8#

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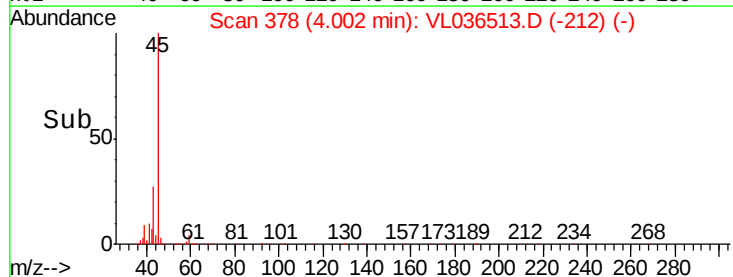
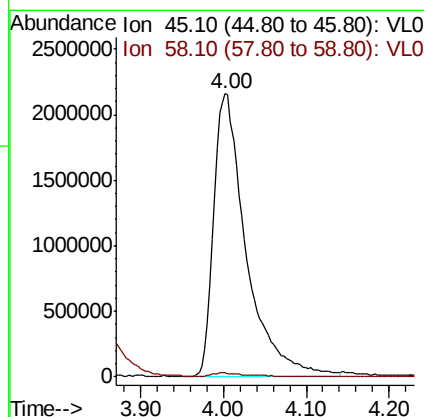
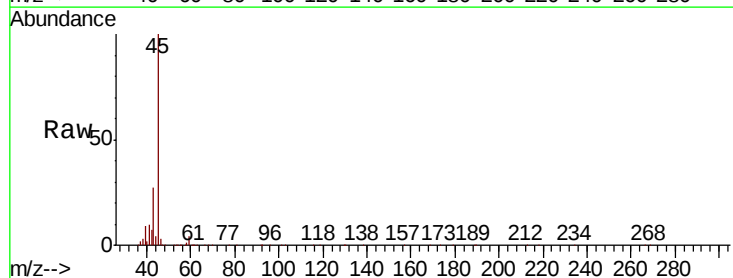
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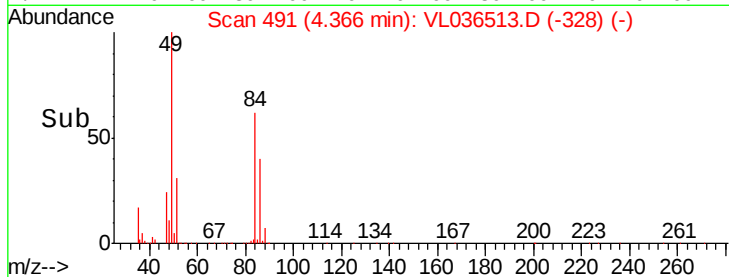
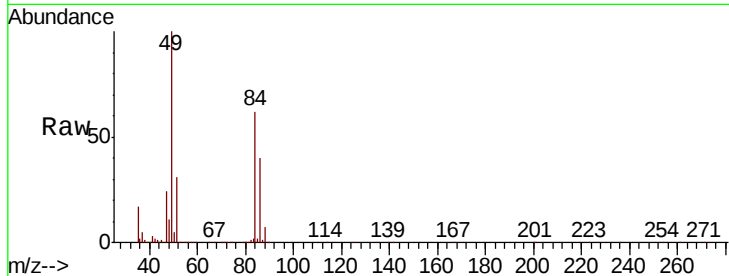
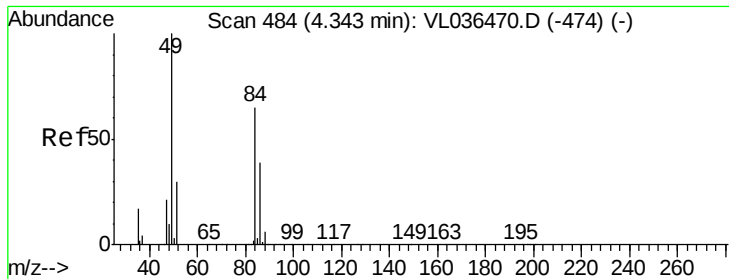


#19

Isopropyl Alcohol
Concen: 69.182 ppbv
RT: 4.00 min Scan# 378
Delta R.T. 0.03 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Tgt Ion: 45 Resp: 5849429
Ion Ratio Lower Upper
45 100
58 1.7 2.9 4.3#





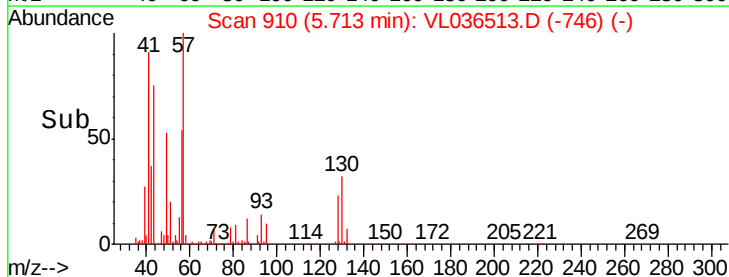
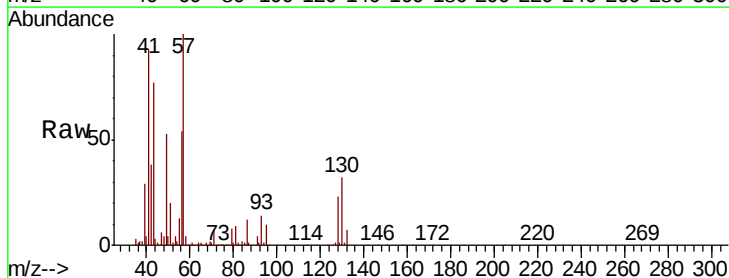
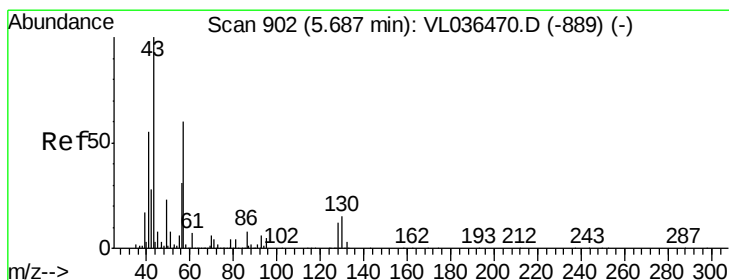
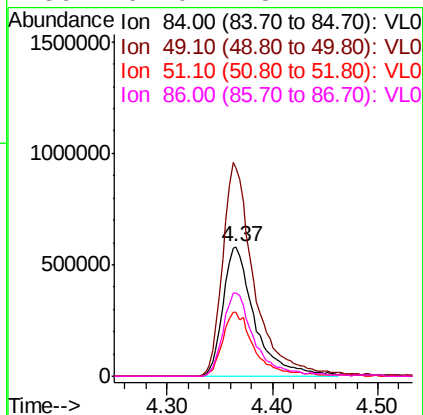
#20
Methvlene Chloride
Concen: 16.783 ppbv
RT: 4.37 min Scan# 491
Delta R.T. 0.02 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Tot Ion	84	Resp	1207765
Ion	Ratio	Lower	Upper
84	100		
49	160.1	122.9	184.3
51	49.2	36.9	55.3
86	64.0	48.2	72.4

Instrument :
MSVOA_L
ClientSampleId :
SS-7-TROPHY-CABINET

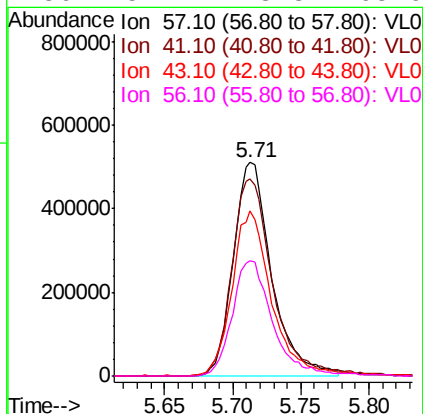
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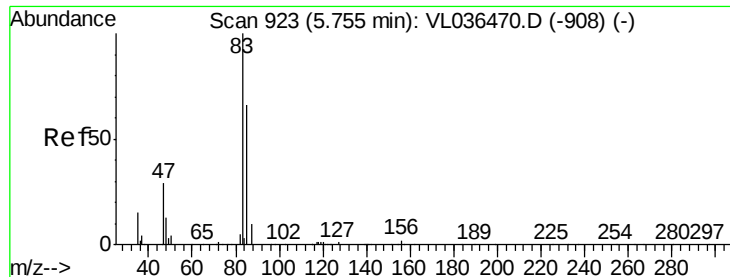
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#26
Hexane
Concen: 5.894 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.03 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Tgt Ion	57	Resp	999464
Ion	Ratio	Lower	Upper
57	100		
41	98.4	77.2	115.8
43	79.8	173.8	260.6#
56	57.2	43.8	65.6





#29

Chloroform

Concen: 0.096 ppbv m

RT: 5.78 min Scan# 930

Delta R.T. 0.02 min

Lab File: VL036513.D

Acq: 26 Mar 2021 14:15

Instrument :

MSVOA_L

ClientSampleId :

SS-7-TROPHY-CABINET

Tot Ion: 83 Resp: 26052

Ion Ratio Lower Upper

83 100

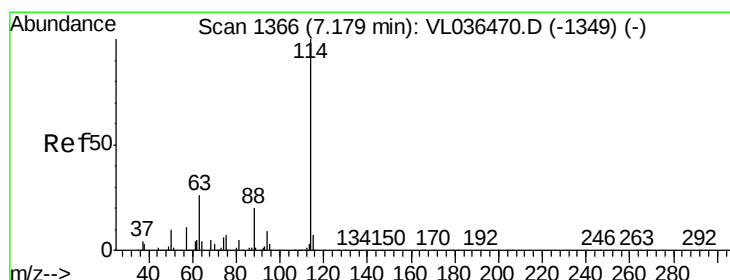
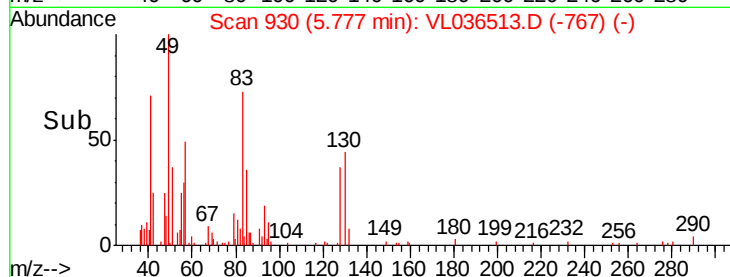
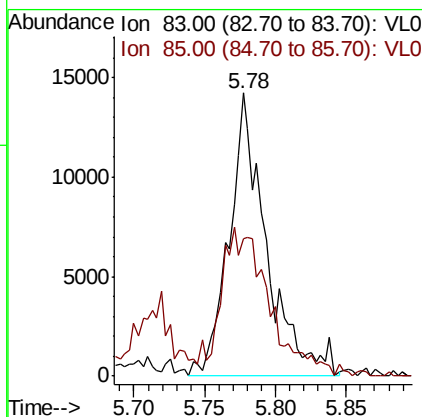
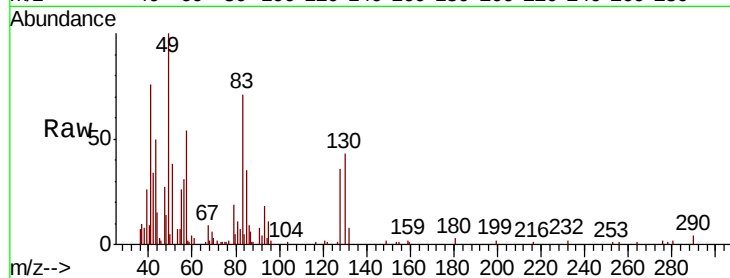
85 48.5 52.6 78.8#

Manual Integrations

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3/29/2021 4:39:03 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. 0.03 min

Lab File: VL036513.D

Acq: 26 Mar 2021 14:15

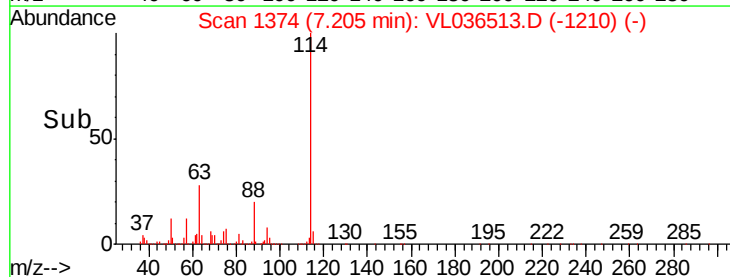
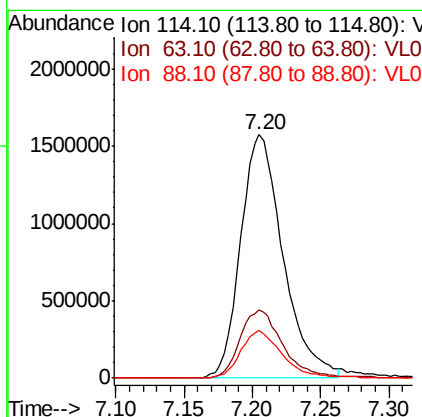
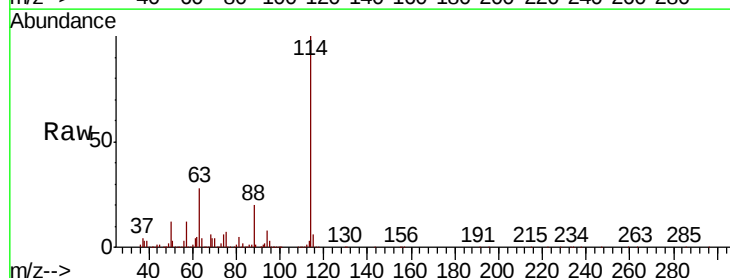
Tgt Ion: 114 Resp: 3402386

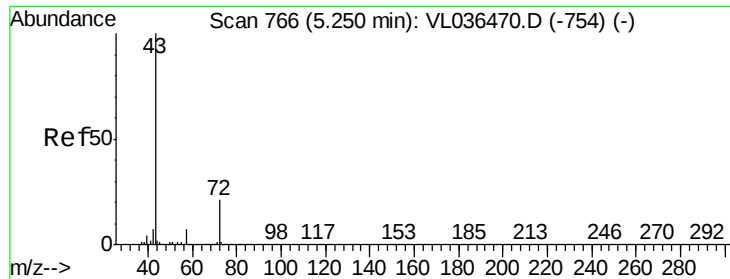
Ion Ratio Lower Upper

114 100

63 28.8 22.4 33.6

88 19.5 15.4 23.0





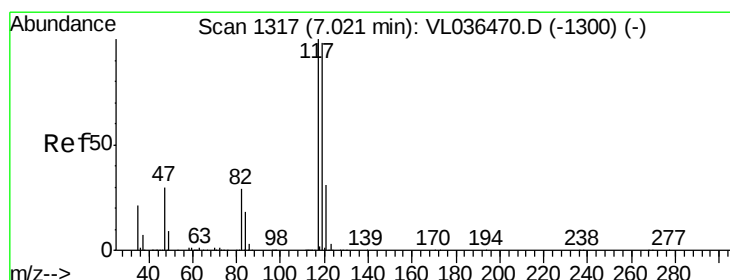
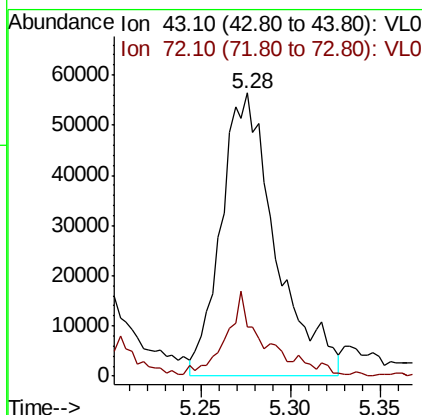
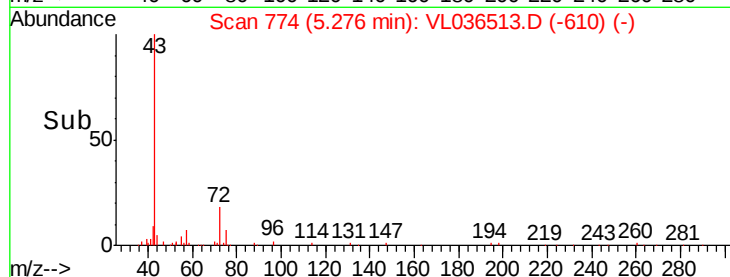
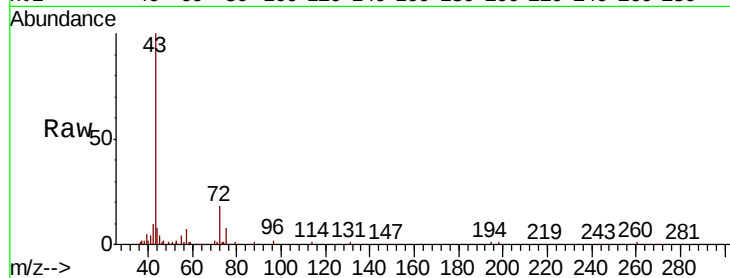
#34
2-Butanone
Concen: 0.719 ppbv m
RT: 5.28 min Scan# 774
Delta R.T. 0.03 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Instrument :
MSVOA_L
ClientSampleId :
SS-7-TROPHY-CABINET

Tot Ion: 43 Resp: 119438
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.6#

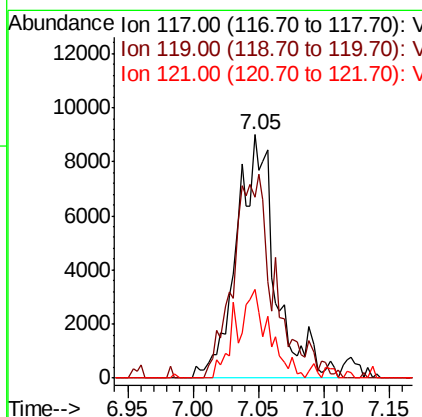
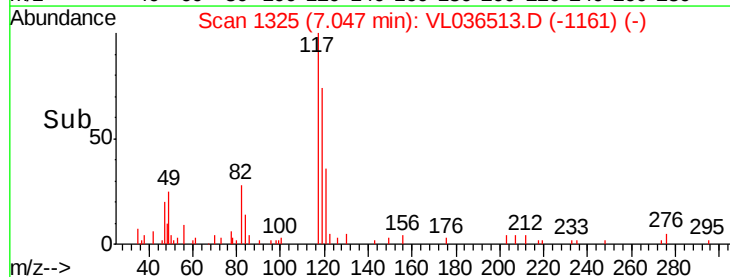
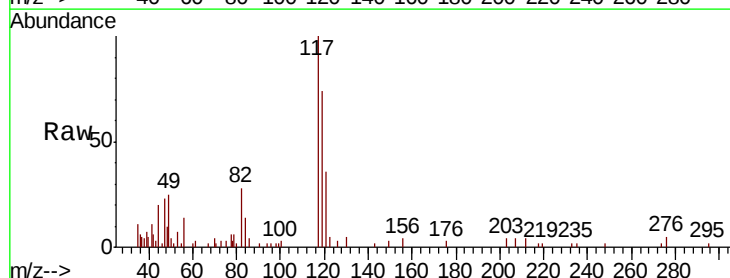
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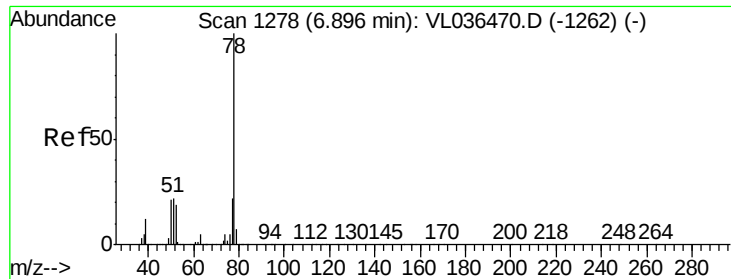
MMDadoda
3/29/2021 4:39:03 PM



#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 7.05 min Scan# 1325
Delta R.T. 0.03 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Tgt Ion: 117 Resp: 18332
Ion Ratio Lower Upper
117 100
119 74.1 78.2 117.2#
121 36.3 24.5 36.7





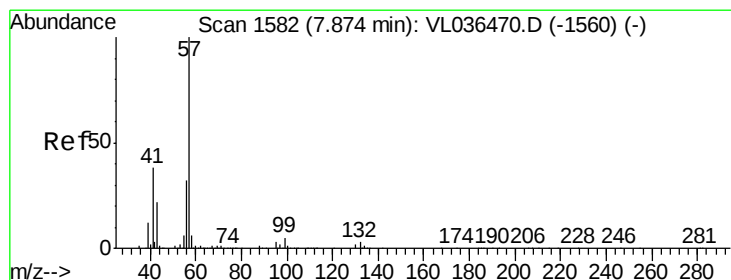
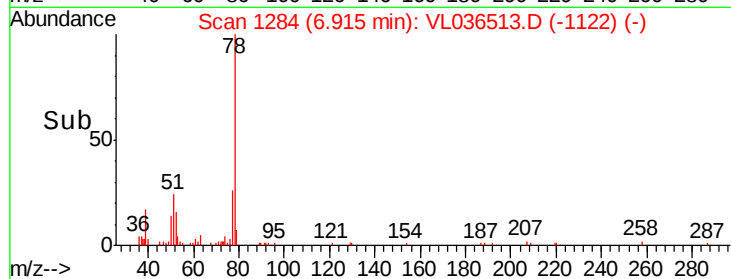
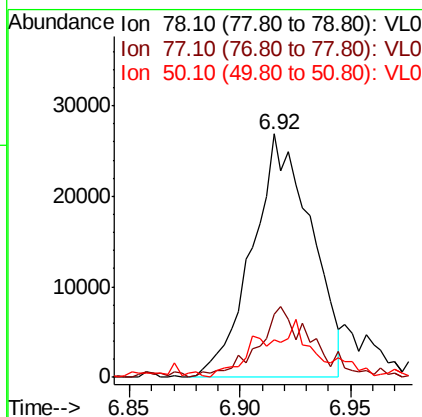
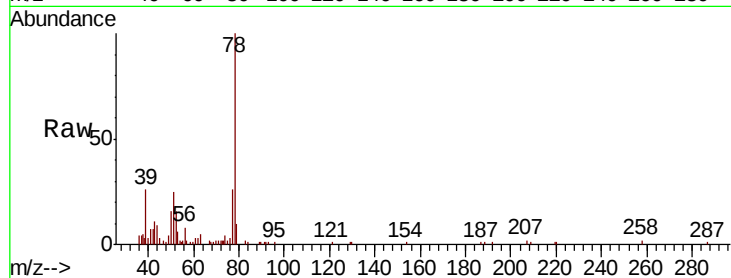
#36
Benzene
Concen: 0.159 ppbv
RT: 6.92 min Scan# 1284
Delta R.T. 0.02 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Instrument :
MSVOA_L
ClientSampleId :
SS-7-TROPHY-CABINET

Tot Ion	Ratio	Lower	Upper
78	100		
77	25.9	18.0	27.0
50	14.1	16.5	24.7#

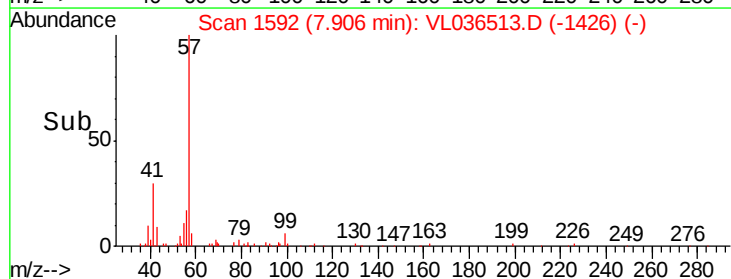
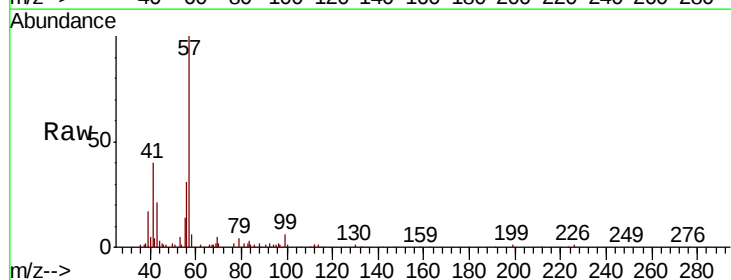
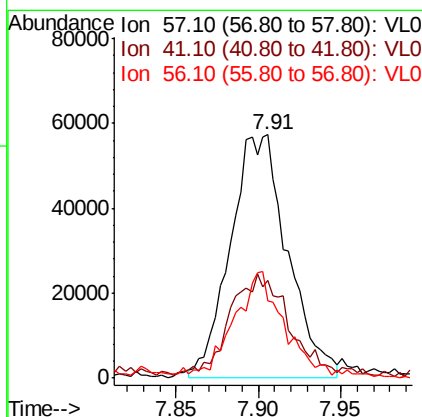
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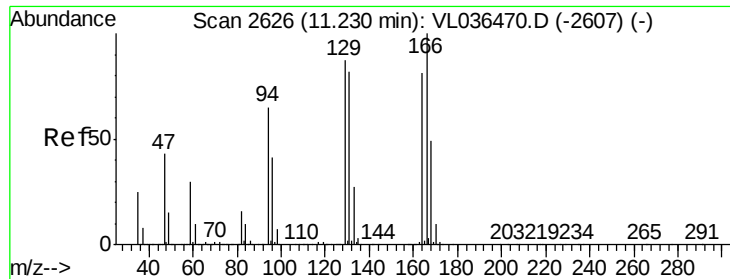
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#44
2,2,4-Trimethylpentane
Concen: 0.252 ppbv m
RT: 7.91 min Scan# 1592
Delta R.T. 0.03 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Tgt Ion	Ratio	Lower	Upper
57	100		
41	45.3	28.8	43.2#
56	43.4	26.1	39.1#





#52

Tetrachloroethene

Concen: 0.034 ppbv m

RT: 11.25 min Scan# 2632

Delta R.T. 0.02 min

Lab File: VL036513.D

Acq: 26 Mar 2021 14:15

Instrument :

MSVOA_L

ClientSampleId :

SS-7-TROPHY-CABINET

Tot Ion:164 Resp: 3896

Ion Ratio Lower Upper

164 100

166 38.6 98.3 147.5#

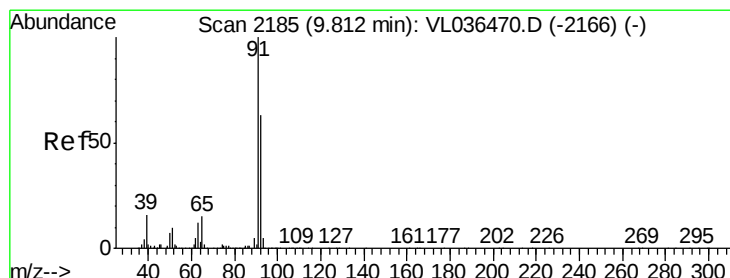
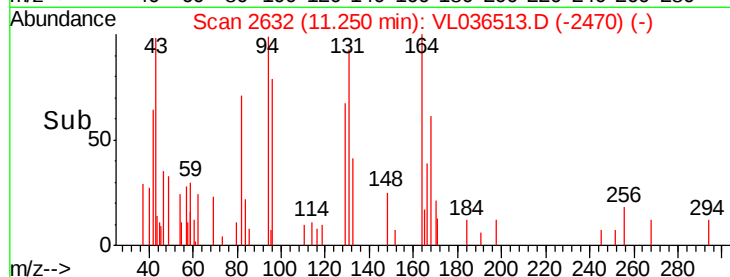
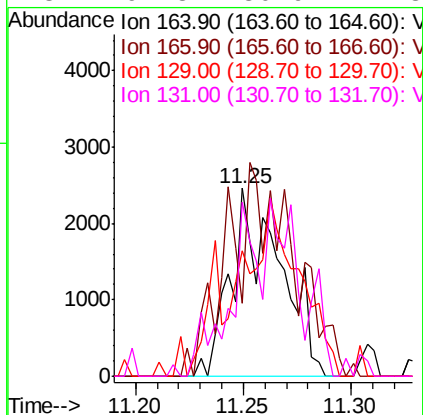
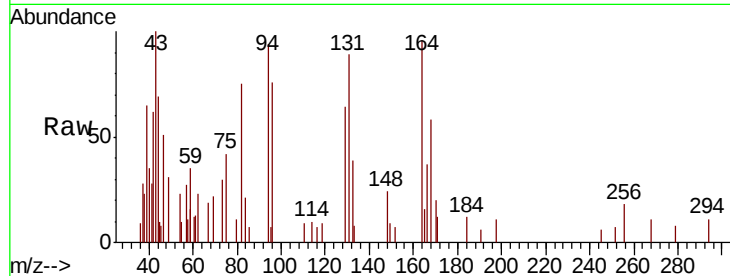
129 66.7 85.8 128.8#

131 92.8 80.9 121.3

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3/29/2021 4:39:03 PM



#53

Toluene

Concen: 0.245 ppbv m

RT: 9.84 min Scan# 2194

Delta R.T. 0.03 min

Lab File: VL036513.D

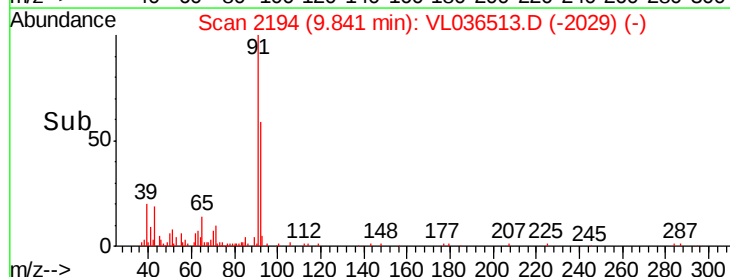
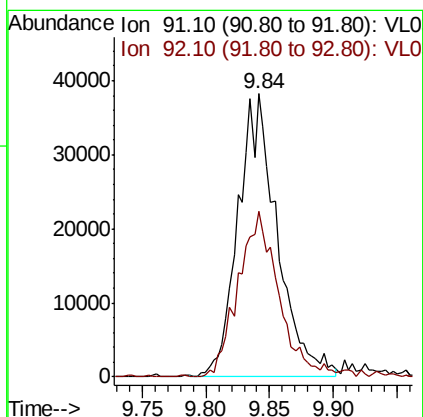
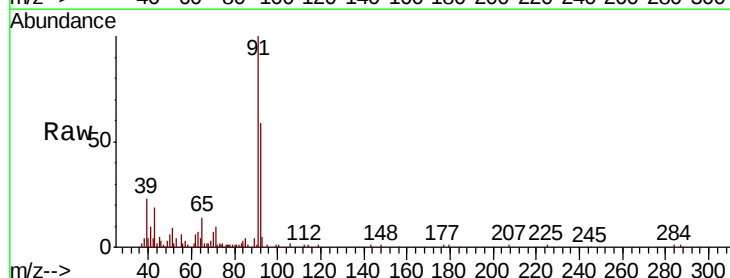
Acq: 26 Mar 2021 14:15

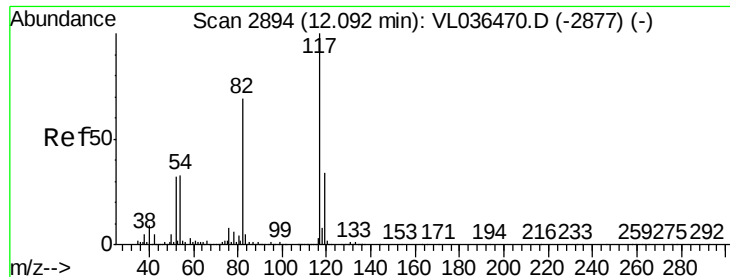
Tgt Ion: 91 Resp: 81924

Ion Ratio Lower Upper

91 100

92 62.2 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.03 min

Lab File: VL036513.D

Acq: 26 Mar 2021 14:15

Instrument :

MSVOA_L

ClientSampleId :

SS-7-TROPHY-CABINET

Tot Ion:117 Resp: 3135075

Ion Ratio Lower Upper

117 100

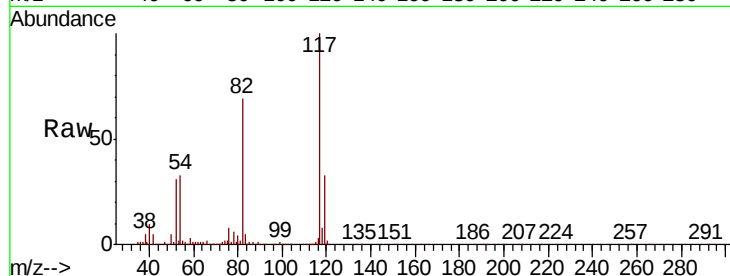
82 70.0 57.4 86.0

119 33.0 47.4 71.0#

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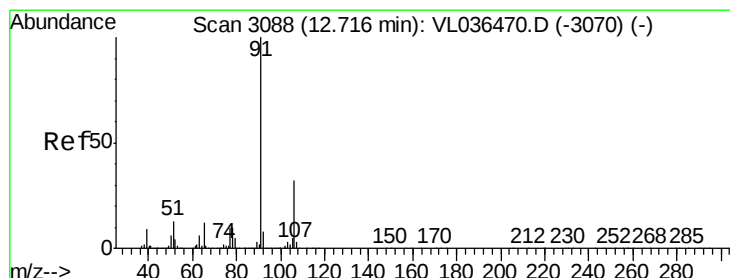
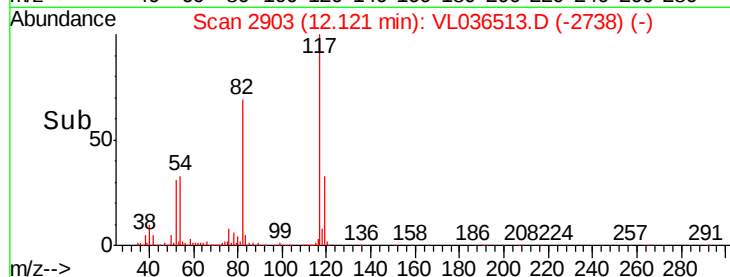
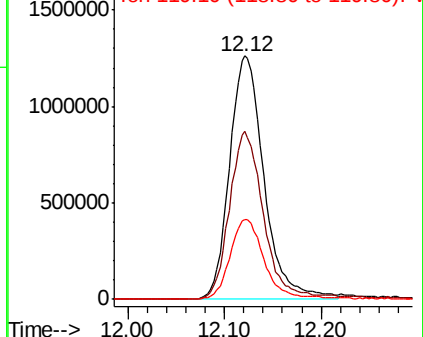
3/29/2021 4:39:03 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.099 ppbv m

RT: 12.75 min Scan# 3098

Delta R.T. 0.03 min

Lab File: VL036513.D

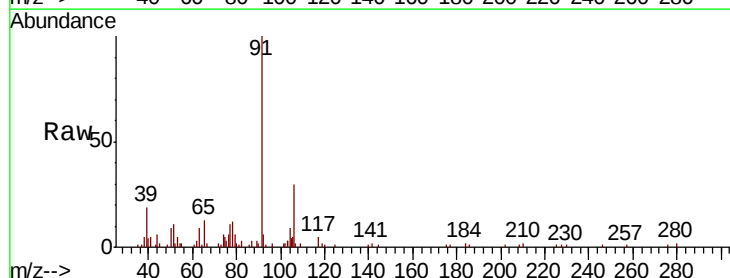
Acq: 26 Mar 2021 14:15

Tgt Ion: 91 Resp: 44927

Ion Ratio Lower Upper

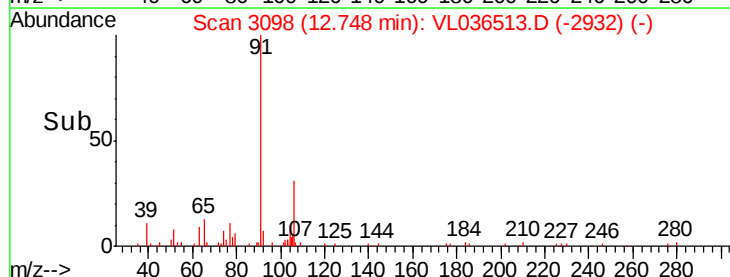
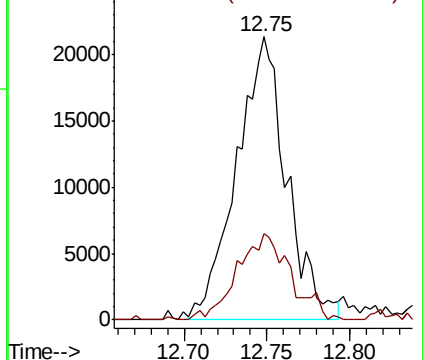
91 100

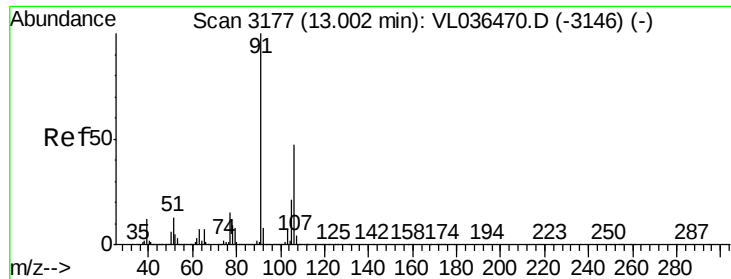
106 30.4 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





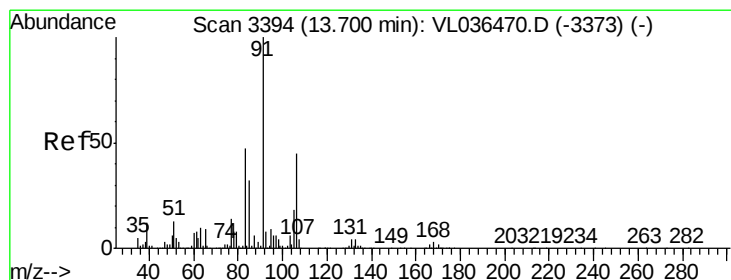
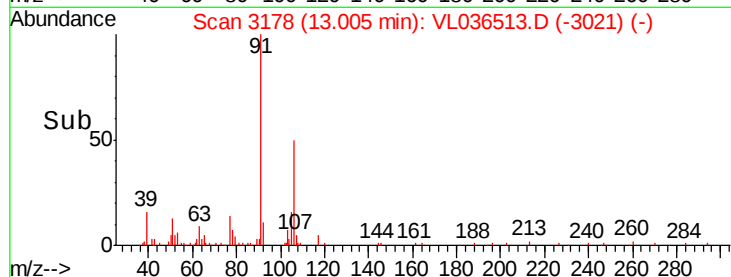
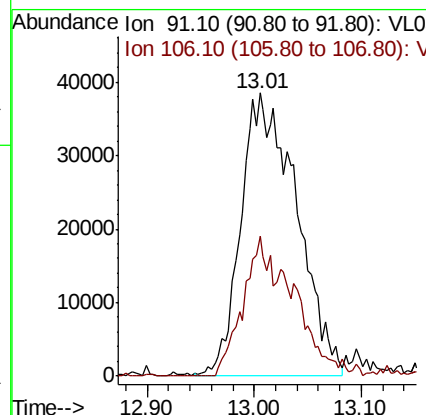
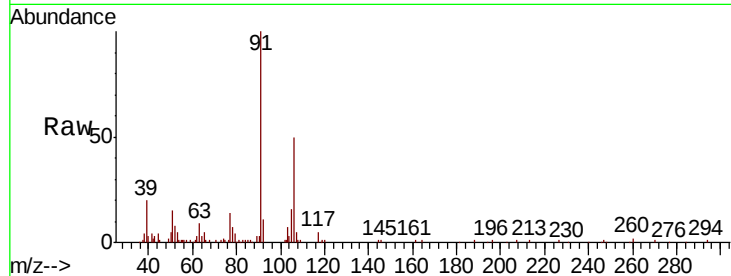
#59
m/p-Xylene
Concen: 0.350 ppbv m
RT: 13.01 min Scan# 3178
Delta R.T. 0.00 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Instrument :
MSVOA_L
ClientSampleId :
SS-7-TROPHY-CABINET

Tot Ion: 91 Resp: 139374
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

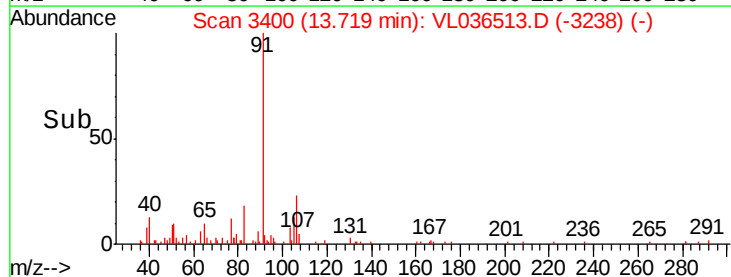
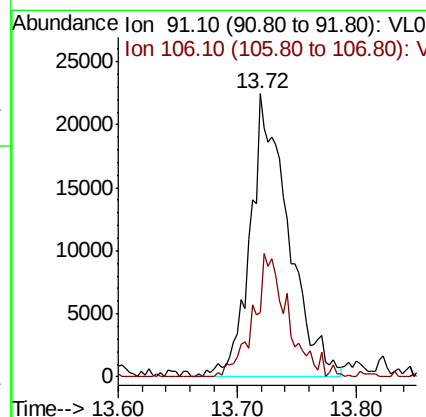
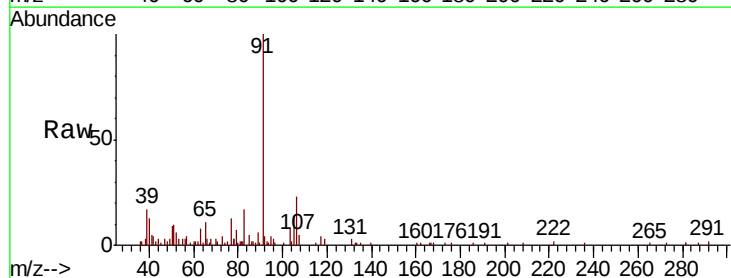
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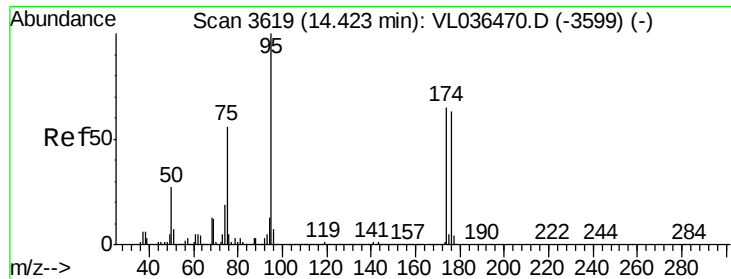
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#60
o-Xylene
Concen: 0.129 ppbv m
RT: 13.72 min Scan# 3400
Delta R.T. 0.02 min
Lab File: VL036513.D
Acq: 26 Mar 2021 14:15

Tgt Ion: 91 Resp: 49774
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.330 ppbv
 RT: 14.45 min Scan# 3628
 Delta R.T. 0.03 min
 Lab File: VL036513.D
 Acq: 26 Mar 2021 14:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7-TROPHY-CABINET

Tot Ion: 95 Resp: 2331144
 Ion Ratio Lower Upper
 95 100
 174 66.1 51.0 76.6
 175 5.1 3.9 5.9

Manual Integrations
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