

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035357.D
 Acq On : 6 Aug 2020 19:50
 Operator : SY/AP
 Sample : L3554-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 2-ABOVE-GROUND

Manual Integrations
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MMDadoda
 8/10/2020 10:43:26 AM

Quant Time: Aug 09 21:22:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 0
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1369148	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3443806	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3213593	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	2698700	10.07	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	52306	0.287	ppbv #	84
3) Chlorodifluoromethane	2.94	51	73003	0.467	ppbv #	85
4) Chloromethane	3.09	50	49239	0.556	ppbv	95
9) Propene	2.97	41	272757m	4.898	ppbv	
10) Heptane	8.13	43	35034m	0.246	ppbv	
11) Trichlorofluoromethane	3.91	101	51025	0.216	ppbv	87
13) Ethanol	3.56	45	849895	44.247	ppbv	96
15) Acetone	3.81	43	1443538m	7.424	ppbv	
19) Isopropyl Alcohol	3.93	45	238185m	1.933	ppbv	
20) Methylene Chloride	4.31	84	283239	3.572	ppbv	90
26) Hexane	5.66	57	176541	1.378	ppbv #	45
30) Cyclohexane	7.11	84	14779m	0.152	ppbv	
34) 2-Butanone	5.22	43	138270m	0.815	ppbv	
35) Carbon Tetrachloride	7.00	117	13172m	0.056	ppbv	
36) Benzene	6.88	78	127899	0.550	ppbv #	93
44) 2,2,4-Trimethylpentane	7.86	57	162475m	0.393	ppbv	
53) Toluene	9.81	91	940633	3.718	ppbv	98
58) Ethyl Benzene	12.73	91	63220m	0.189	ppbv	
59) m/p-Xylene	12.99	91	204856m	0.658	ppbv	
60) o-Xylene	13.71	91	80810	0.262	ppbv	94
72) 4-Ethyltoluene	15.86	105	34522m	0.098	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	42424m	0.125	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	153921m	0.398	ppbv	

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

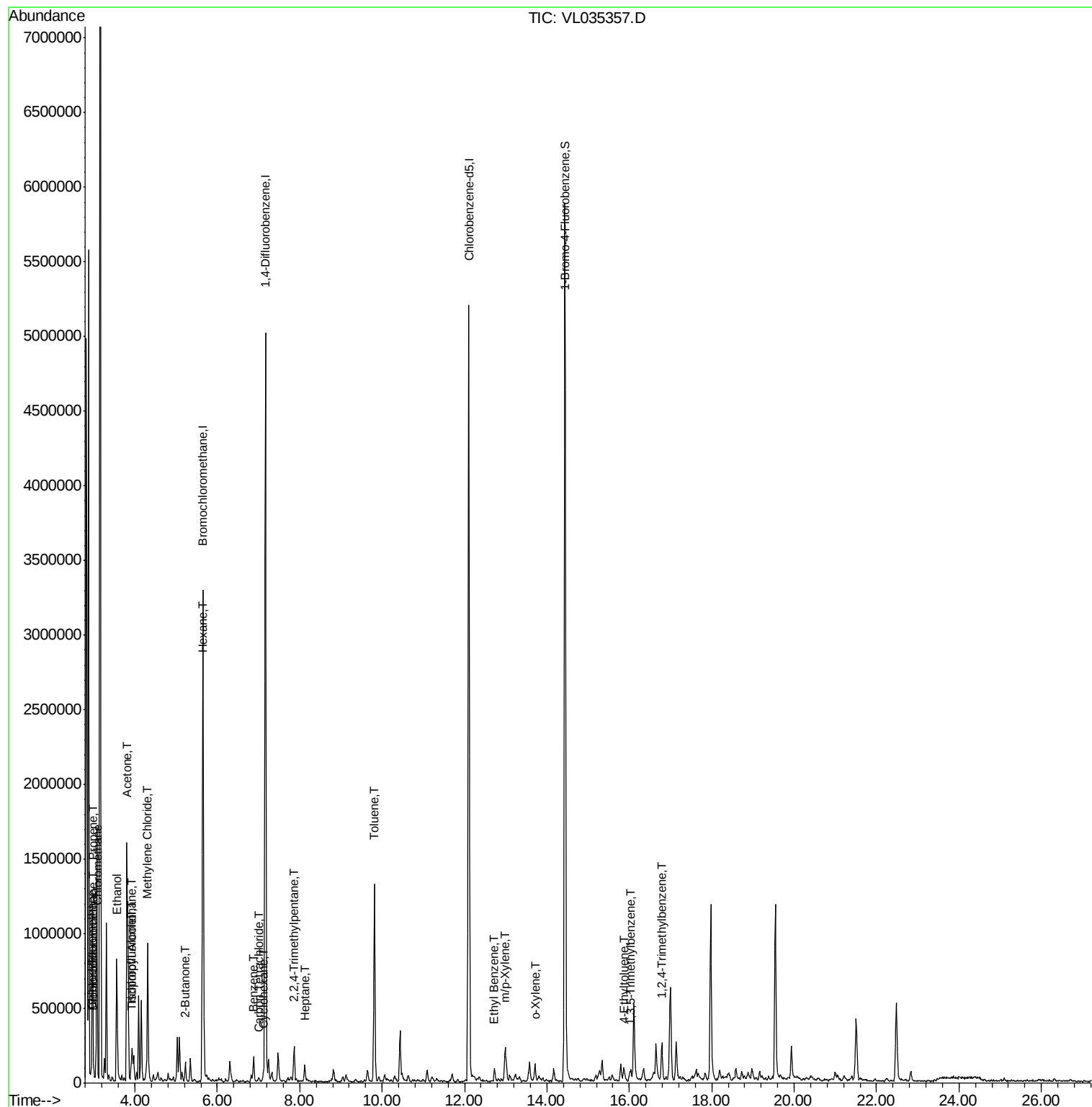
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080620\
Data File : VL035357.D
Acq On : 6 Aug 2020 19:50
Operator : SY/AP
Sample : L3554-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

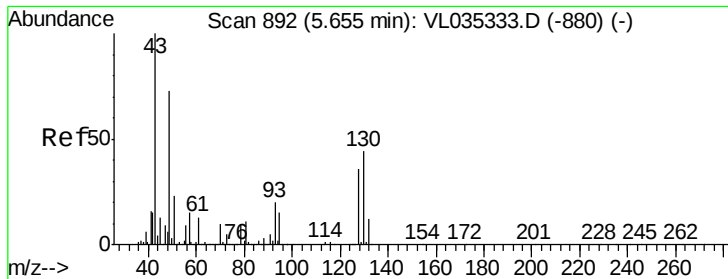
Instrument :
MSVOA_L
ClientSampleId :
2-ABOVE-GROUND

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Quant Time: Aug 09 21:22:19 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL035357.D

Acq: 6 Aug 2020 19:50

Instrument :

MSVOA_L

ClientSampleId :

2-ABOVE-GROUND

Tot Ion: 49 Resp: 1369148

Ion Ratio Lower Upper

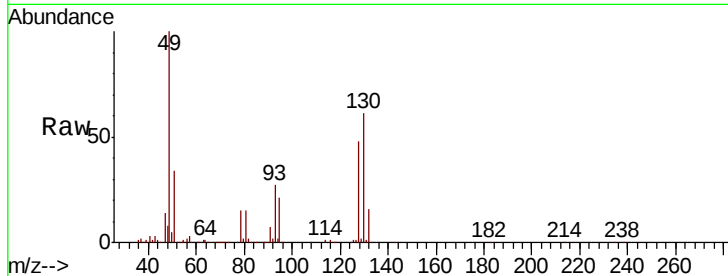
49 100

128 50.3 25.4 76.0

130 63.8 32.1 96.3

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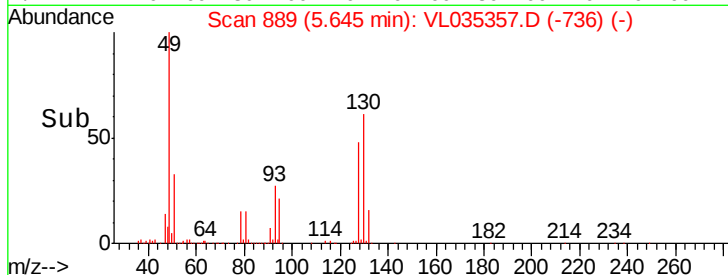


Abundance Ion 49.10 (48.80 to 49.80): VL0

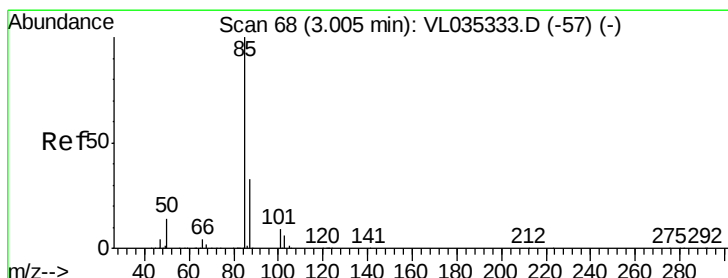
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.287 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035357.D

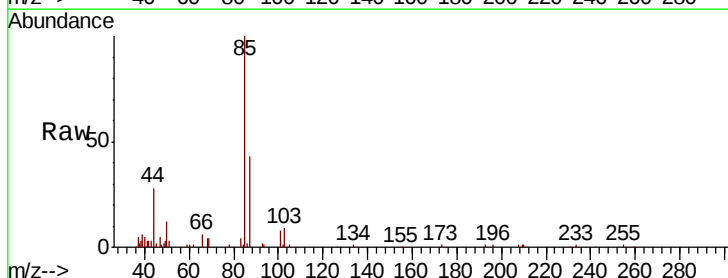
Acq: 6 Aug 2020 19:50

Tgt Ion: 85 Resp: 52306

Ion Ratio Lower Upper

85 100

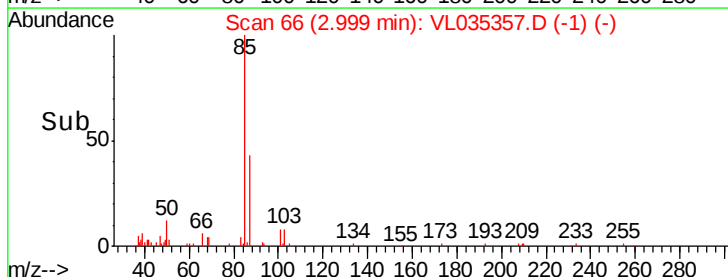
87 42.7 26.7 40.1#



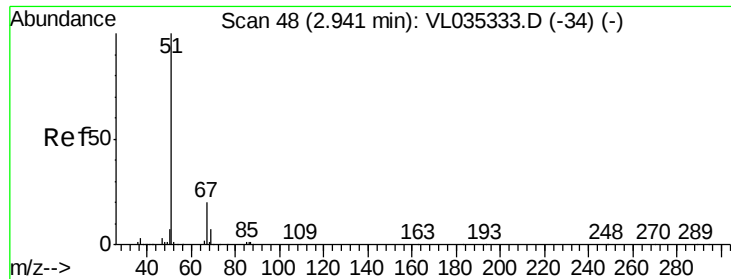
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



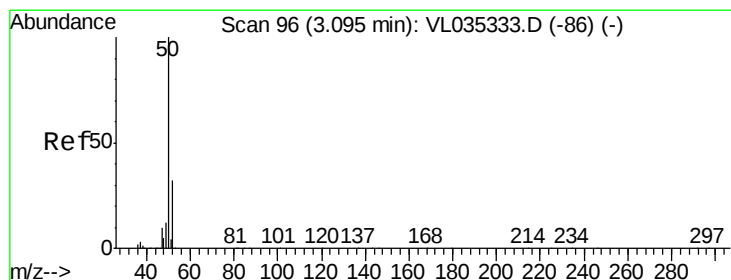
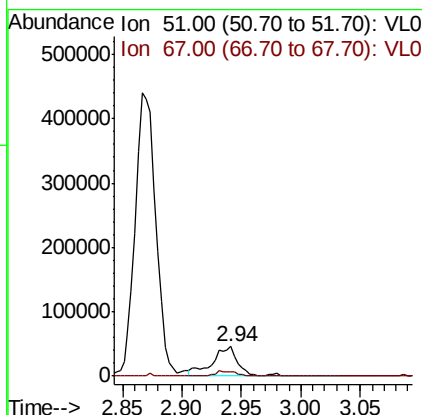
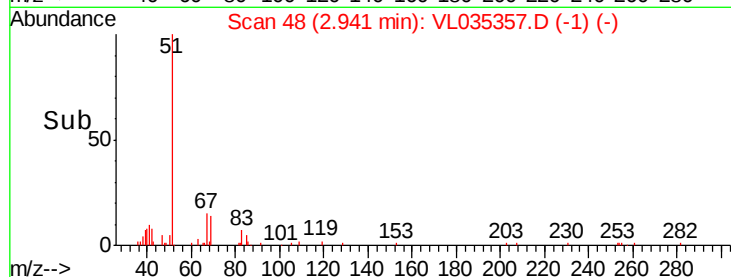
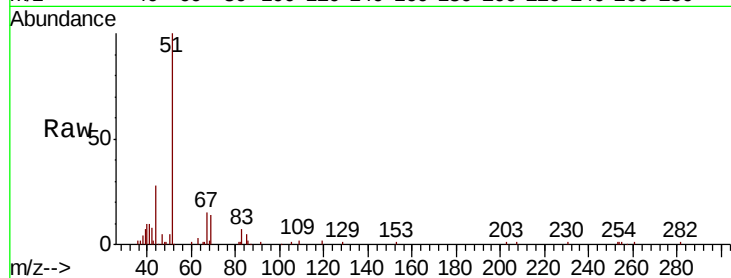
#3
Chlorodifluoromethane
Concen: 0.467 ppbv
RT: 2.94 min Scan# 48
Delta R.T. 0.00 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Instrument :
MSVOA_L
ClientSampleId :
2-ABOVE-GROUND

Tot Ion: 51 Resp: 73003
Ion Ratio Lower Upper
51 100
67 13.8 16.6 25.0#

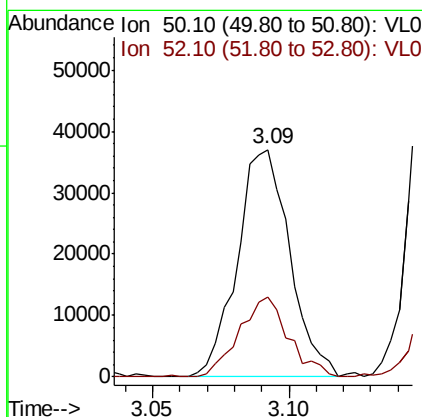
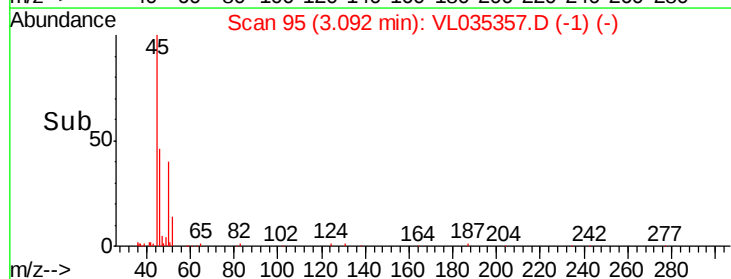
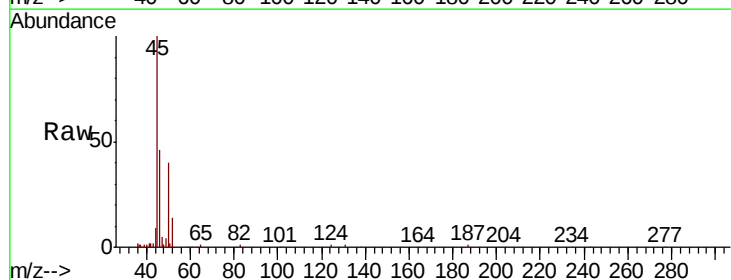
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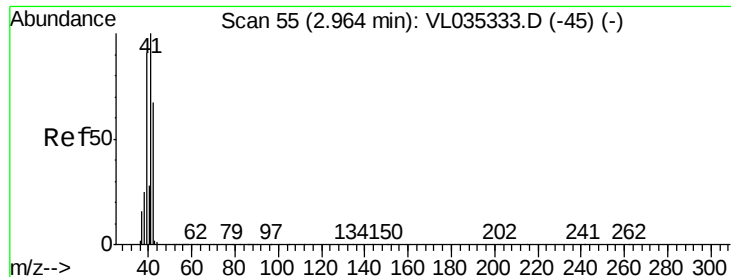
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#4
Chloromethane
Concen: 0.556 ppbv
RT: 3.09 min Scan# 95
Delta R.T. -0.00 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Tgt Ion: 50 Resp: 49239
Ion Ratio Lower Upper
50 100
52 35.2 26.0 39.0





#9

Propene

Concen: 4.898 ppbv m

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL035357.D

Acq: 6 Aug 2020 19:50

Instrument :

MSVOA_L

ClientSampleId :

2-ABOVE-GROUND

Tot Ion: 41 Resp: 272757

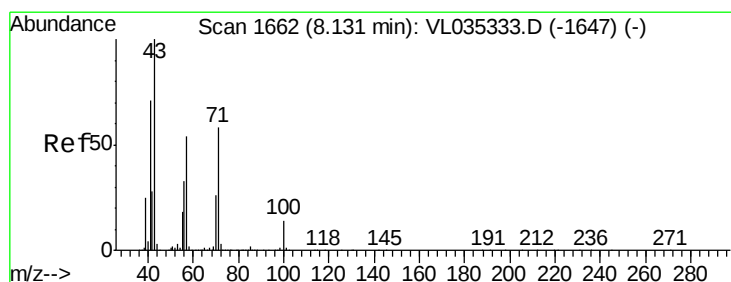
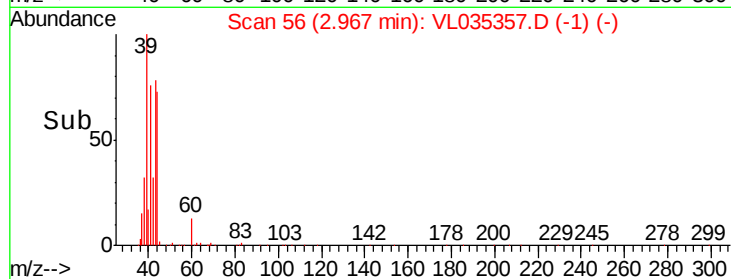
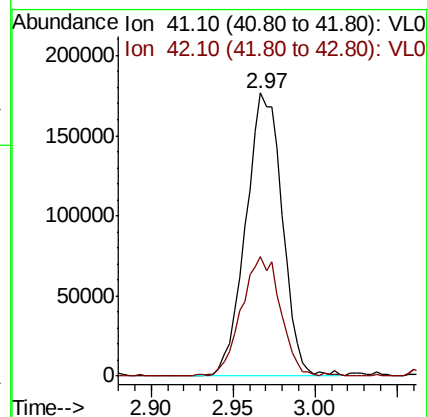
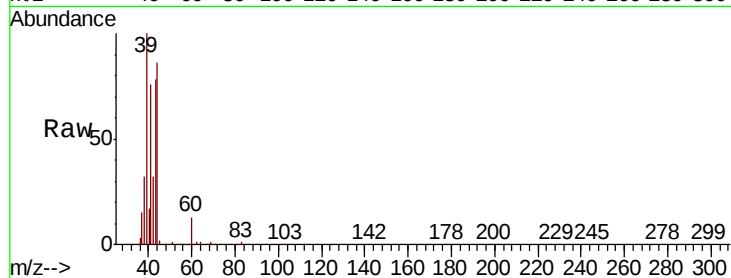
Ion Ratio Lower Upper

41 100

42 863.4 55.3 82.9#

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#10

Heptane

Concen: 0.246 ppbv m

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035357.D

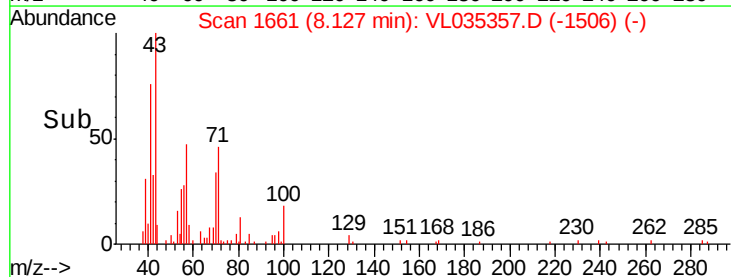
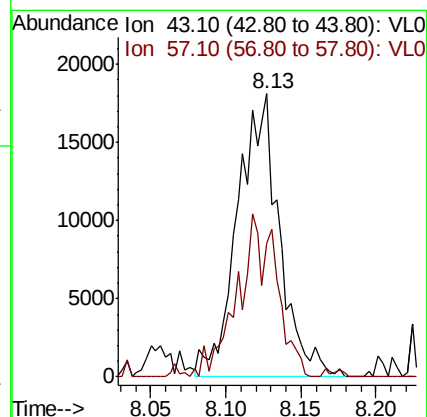
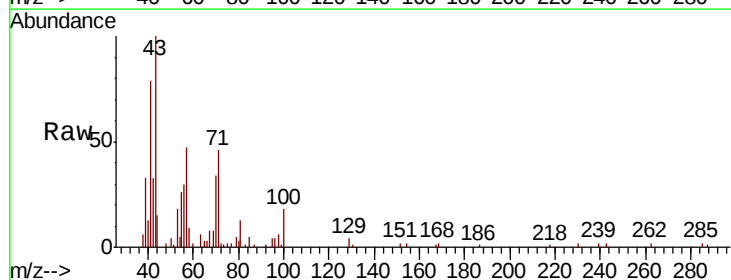
Acq: 6 Aug 2020 19:50

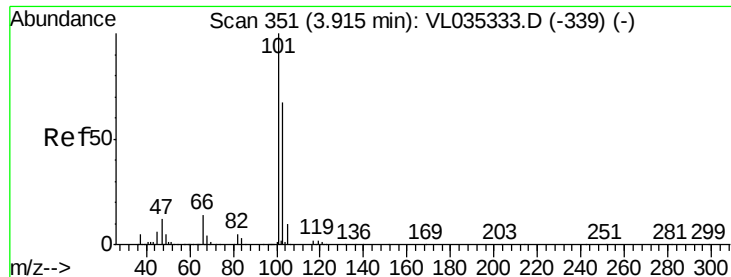
Tgt Ion: 43 Resp: 35034

Ion Ratio Lower Upper

43 100

57 54.9 43.0 64.6





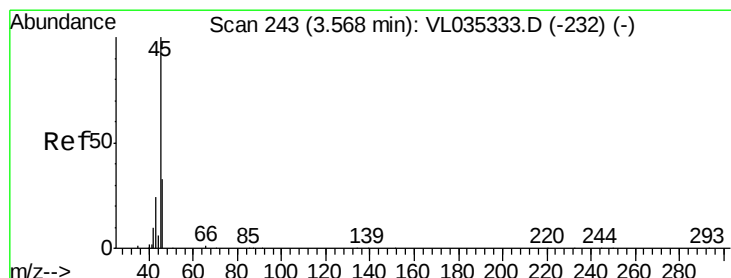
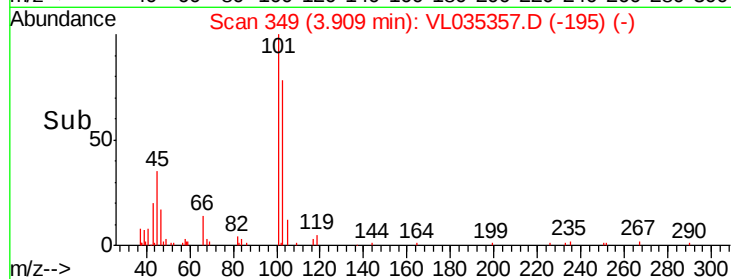
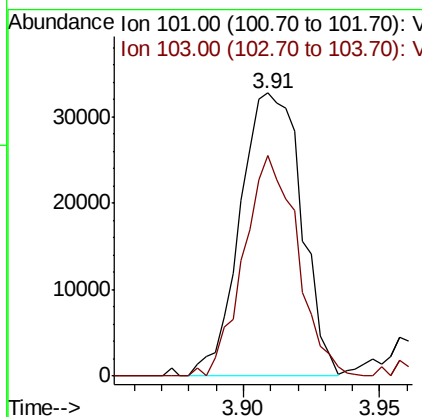
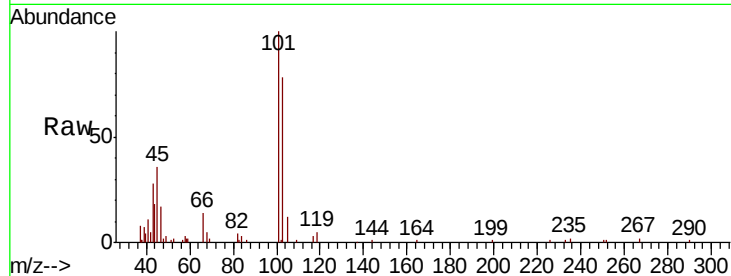
#11
 Trichlorofluoromethane
 Concen: 0.216 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035357.D
 Acq: 6 Aug 2020 19:50

Instrument :
 MSVOA_L
 ClientSampleId :
 2-ABOVE-GROUND

Tot Ion	Ratio	Lower	Upper
101	100		
103	77.8	53.8	80.8

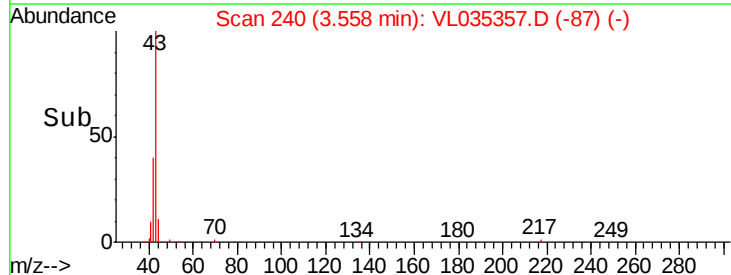
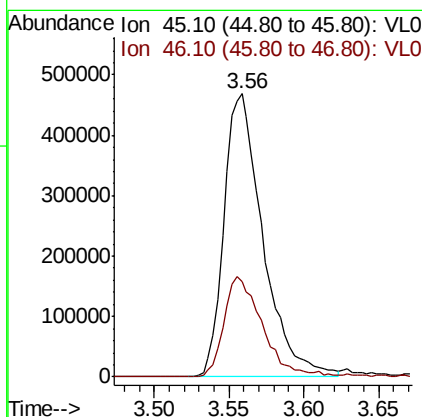
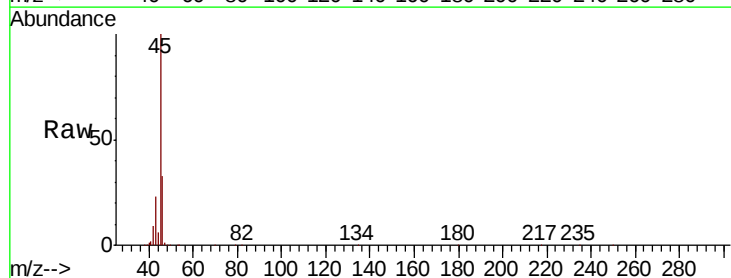
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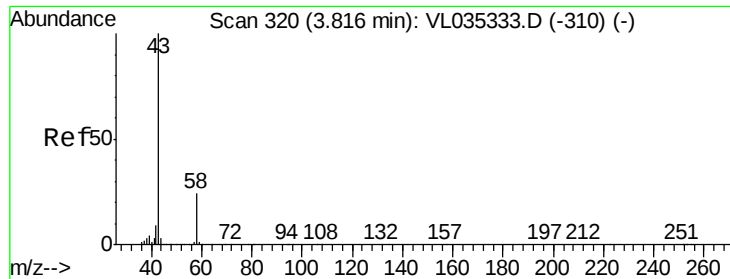
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#13
 Ethanol
 Concen: 44.247 ppbv
 RT: 3.56 min Scan# 240
 Delta R.T. -0.01 min
 Lab File: VL035357.D
 Acq: 6 Aug 2020 19:50

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.9	15.2	61.0





#15

Acetone

Concen: 7.424 ppbv m

RT: 3.81 min Scan# 317

Delta R.T. -0.01 min

Lab File: VL035357.D

Acq: 6 Aug 2020 19:50

Tot Ion: 43 Resp: 1443538

Ion Ratio Lower Upper

43 100

58 29.3 21.0 31.4

Instrument :

MSVOA_L

ClientSampleId :

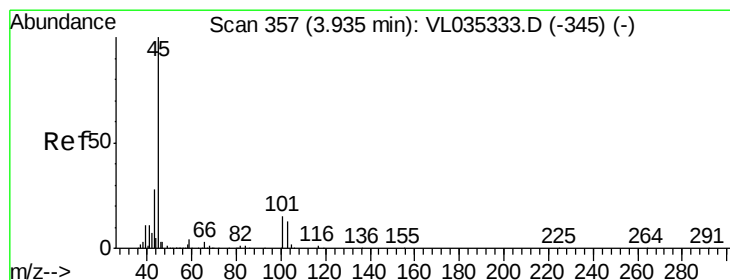
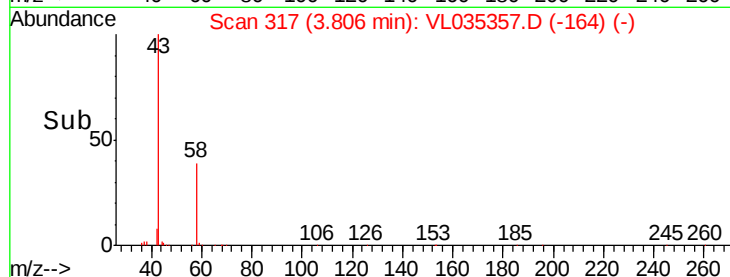
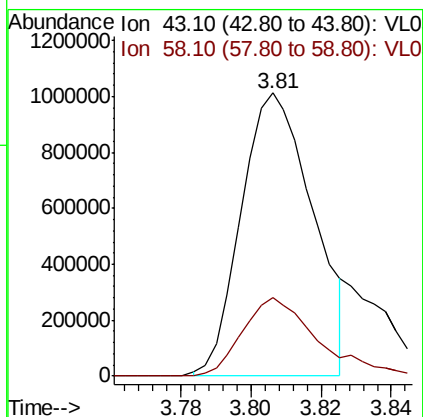
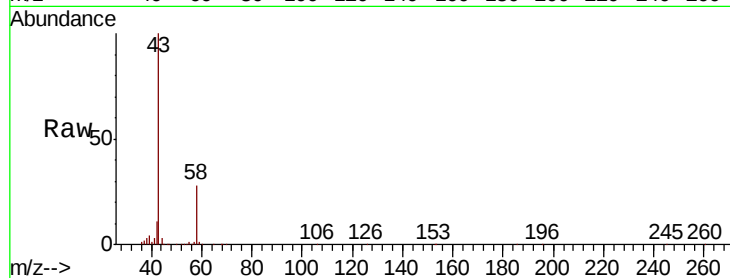
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#19

Isopropyl Alcohol

Concen: 1.933 ppbv m

RT: 3.93 min Scan# 355

Delta R.T. -0.01 min

Lab File: VL035357.D

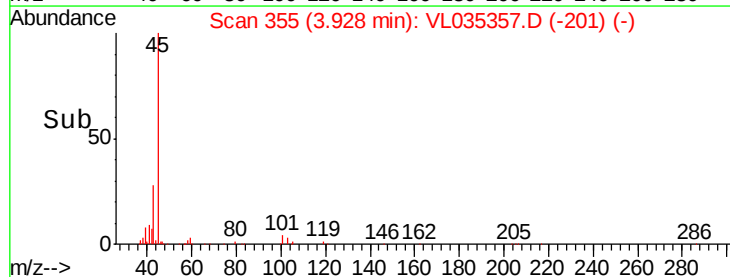
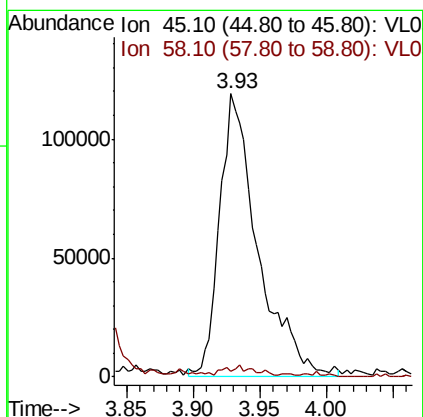
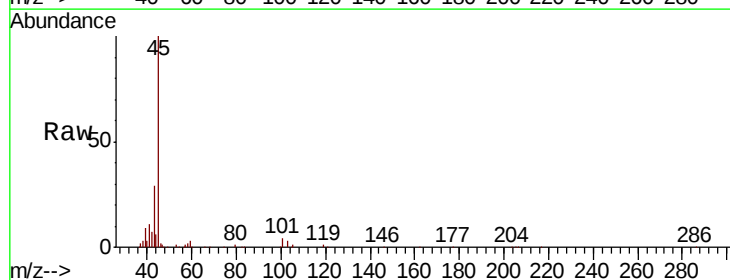
Acq: 6 Aug 2020 19:50

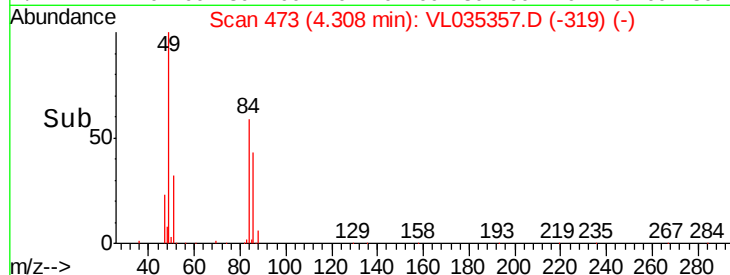
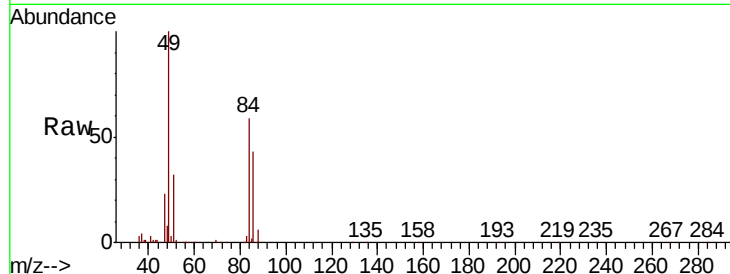
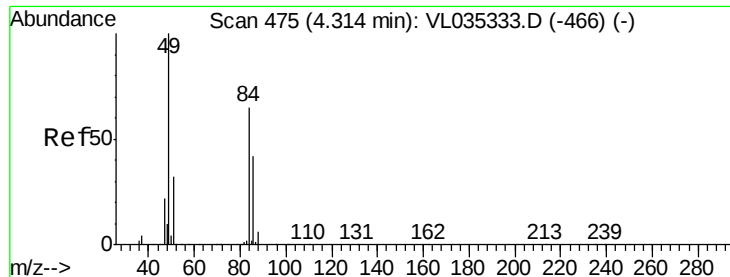
Tgt Ion: 45 Resp: 238185

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#





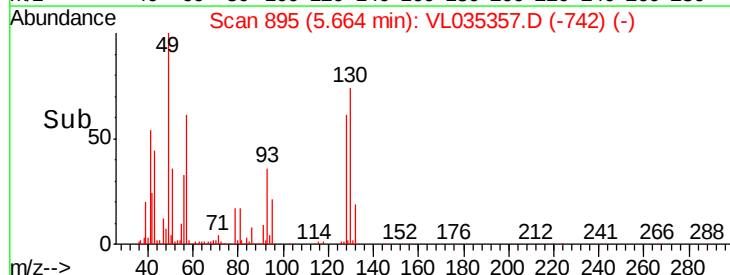
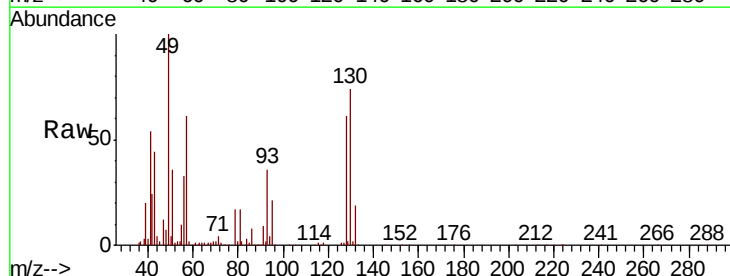
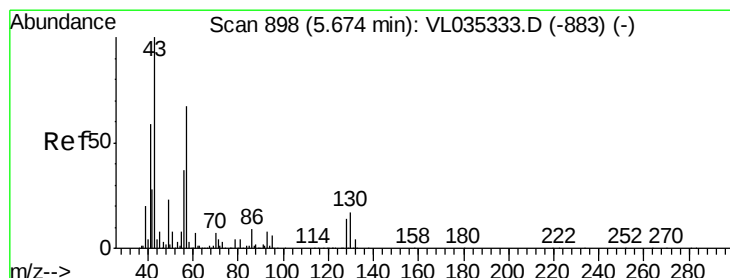
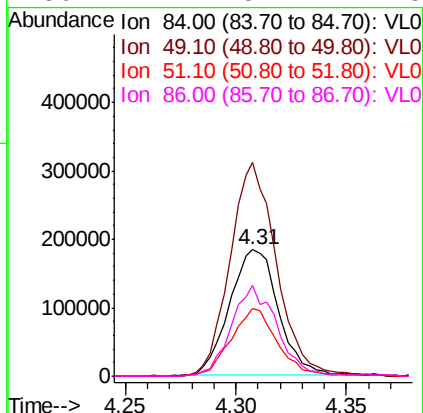
#20
Methvlene Chloride
Concen: 3.572 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.01 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Tot Ion	84	Resp	283239
Ion	Ratio	Lower	Upper
84	100		
49	169.2	122.8	184.2
51	53.4	40.1	60.1
86	72.1	51.7	77.5

Instrument :
MSVOA_L
ClientSampleId :
2-ABOVE-GROUND

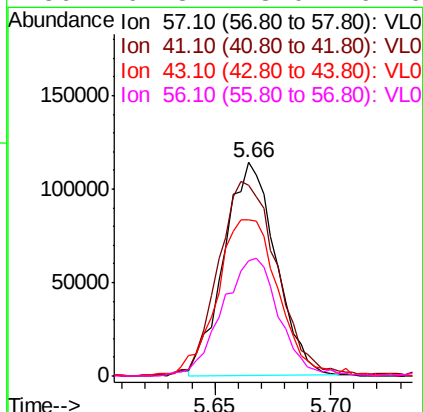
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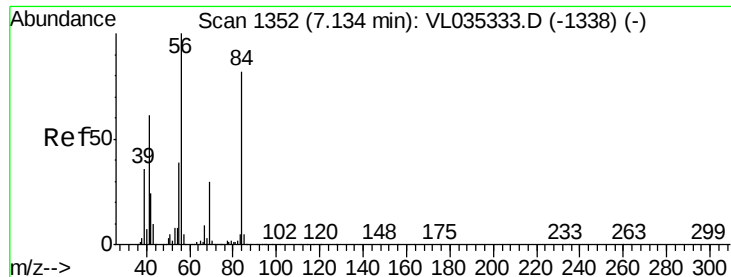
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#26
Hexane
Concen: 1.378 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Tgt Ion	57	Resp	176541
Ion	Ratio	Lower	Upper
57	100		
41	104.6	75.2	112.8
43	88.0	180.6	270.8#
56	61.3	43.0	64.6





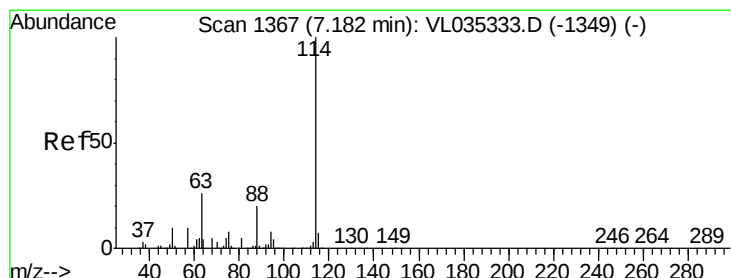
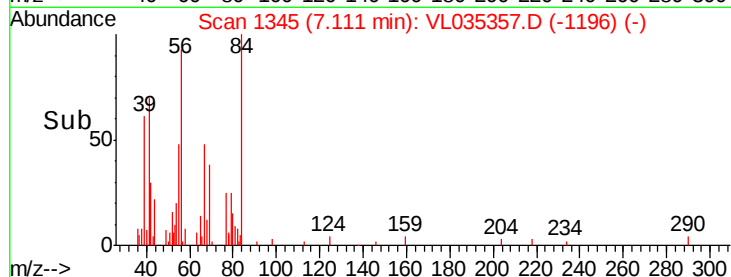
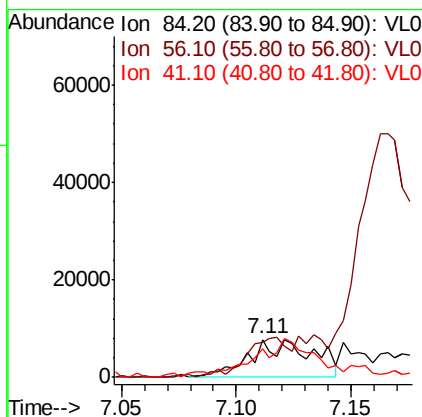
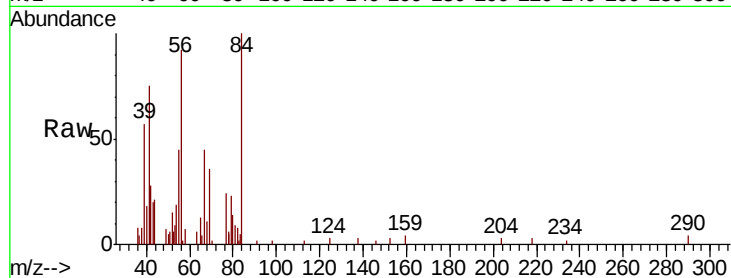
#30
Cvclohexane
Concen: 0.152 ppbv m
RT: 7.11 min Scan# 1345
Delta R.T. -0.02 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Instrument :
MSVOA_L
ClientSampleId :
2-ABOVE-GROUND

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	104.7	157.1#
41	114.7	64.2	96.2#

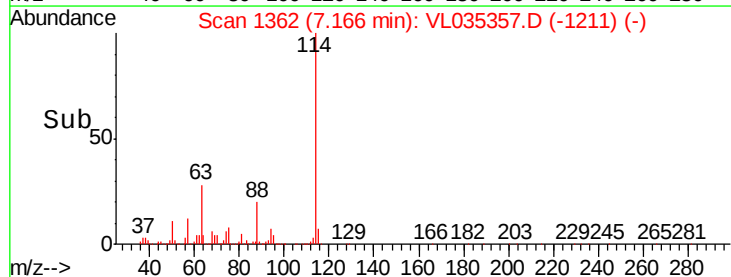
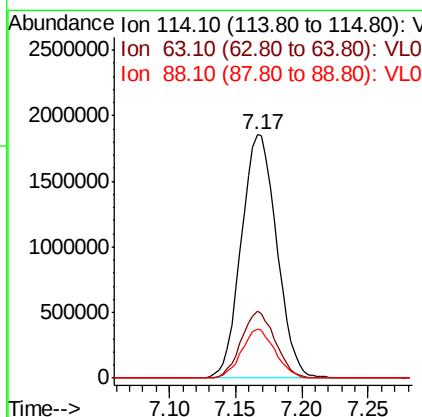
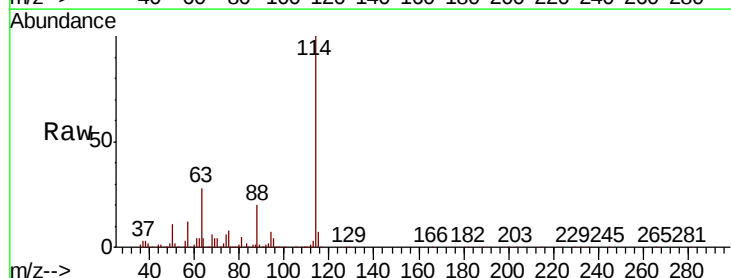
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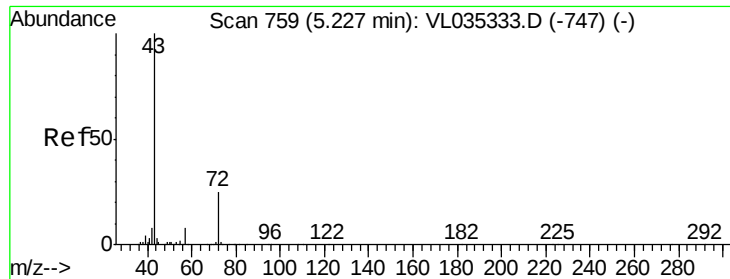
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.3	31.9
88	19.1	15.3	22.9





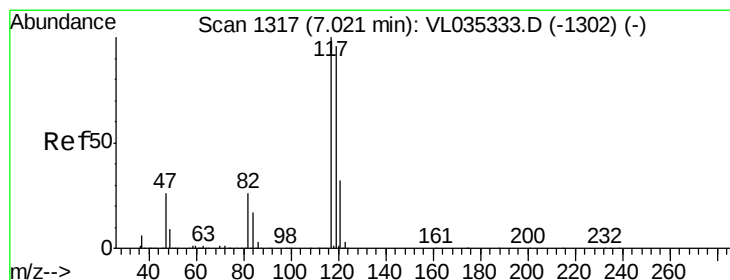
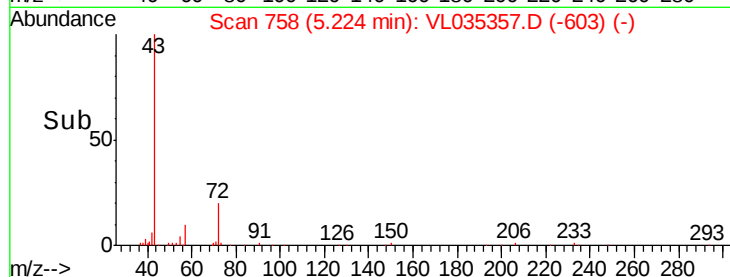
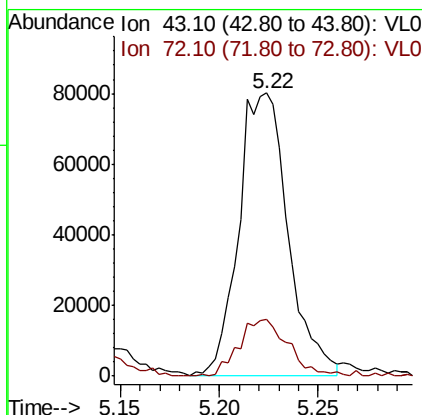
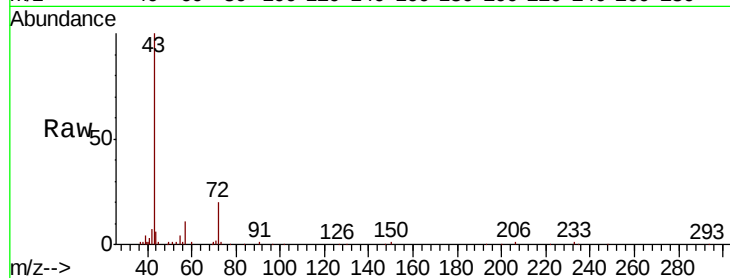
#34
2-Butanone
Concen: 0.815 ppbv m
RT: 5.22 min Scan# 758
Delta R.T. -0.00 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Instrument :
MSVOA_L
ClientSampleId :
2-ABOVE-GROUND

Tot Ion: 43 Resp: 138270
Ion Ratio Lower Upper
43 100
72 0.0 18.9 28.3#

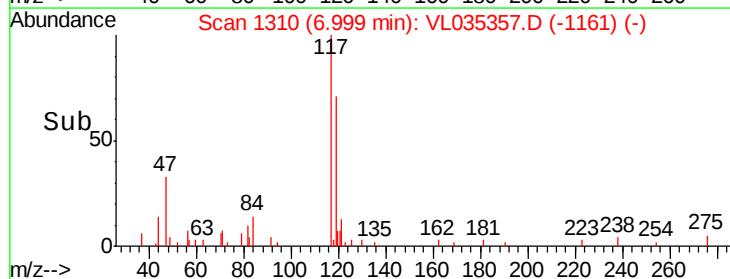
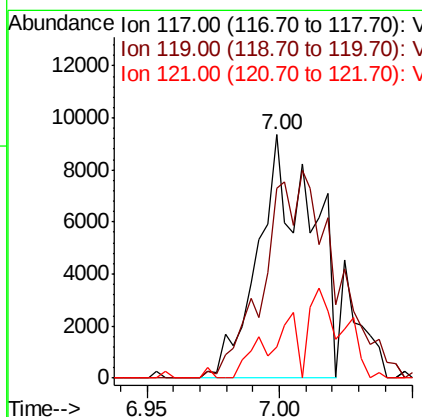
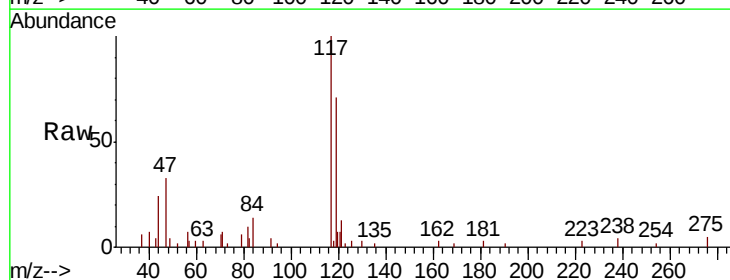
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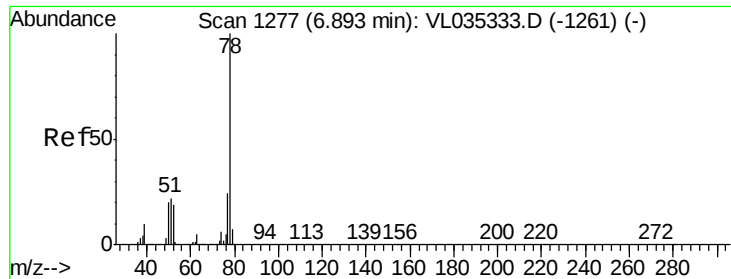
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#35
Carbon Tetrachloride
Concen: 0.056 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.02 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Tgt Ion: 117 Resp: 13172
Ion Ratio Lower Upper
117 100
119 70.9 77.0 115.6#
121 12.9 26.0 39.0#





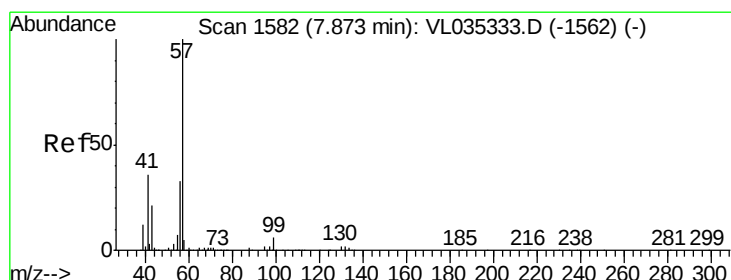
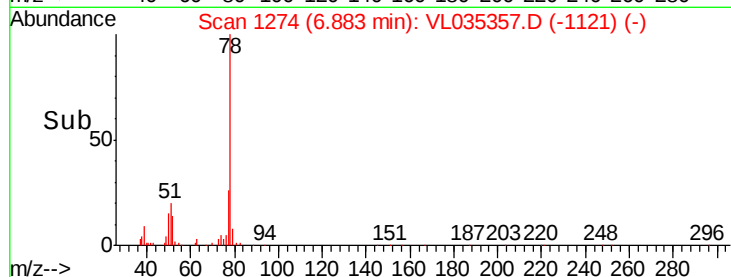
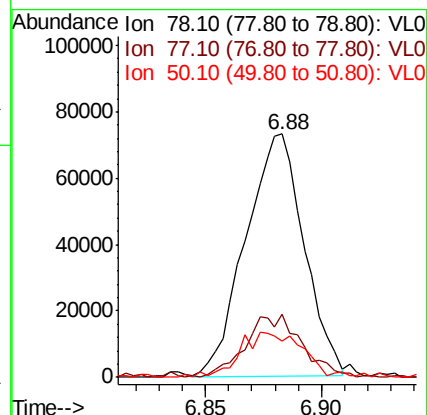
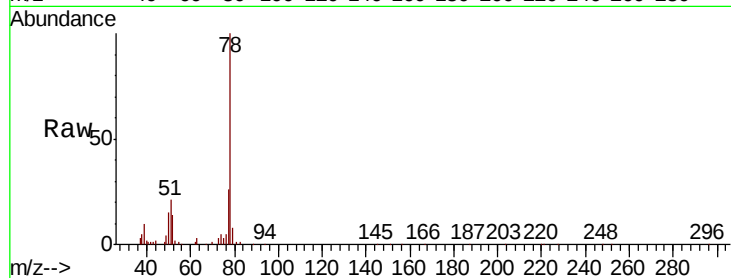
#36
Benzene
Concen: 0.550 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Instrument :
MSVOA_L
ClientSampleId :
2-ABOVE-GROUND

Tot Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.3	28.9
50	14.8	16.3	24.5#

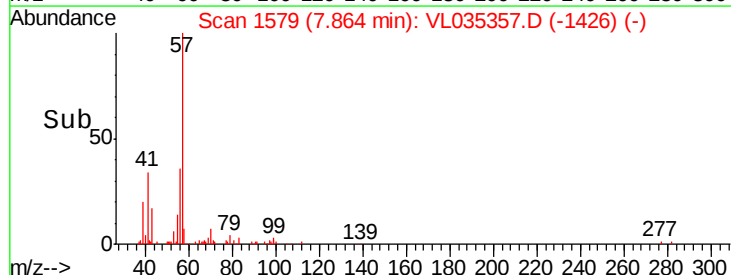
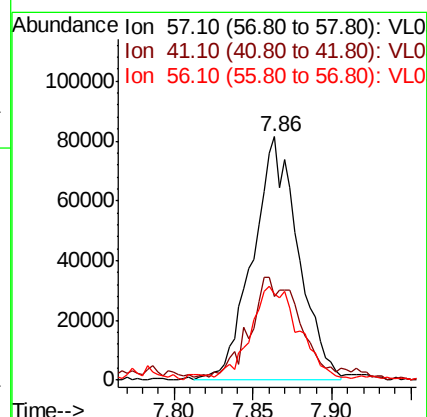
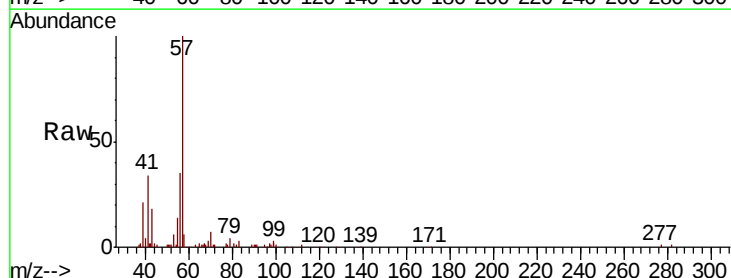
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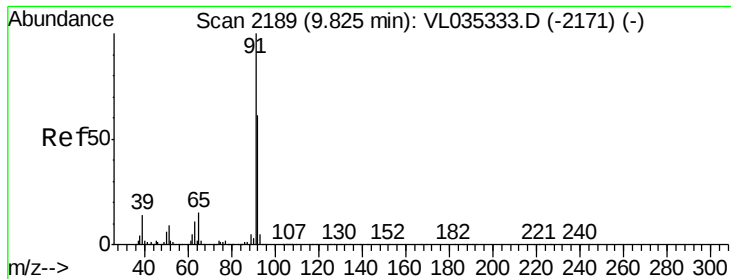
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#44
2,2,4-Trimethylpentane
Concen: 0.393 ppbv m
RT: 7.86 min Scan# 1579
Delta R.T. -0.01 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Tgt Ion	Ratio	Lower	Upper
57	100		
41	49.0	27.9	41.9#
56	43.1	25.4	38.0#





#53

Toluene

Concen: 3.718 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035357.D

Acq: 6 Aug 2020 19:50

Instrument :

MSVOA_L

ClientSampleId :

2-ABOVE-GROUND

Tot Ion: 91 Resp: 940633

Ion Ratio Lower Upper

91 100

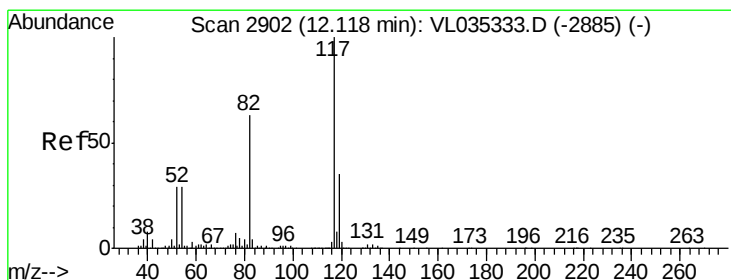
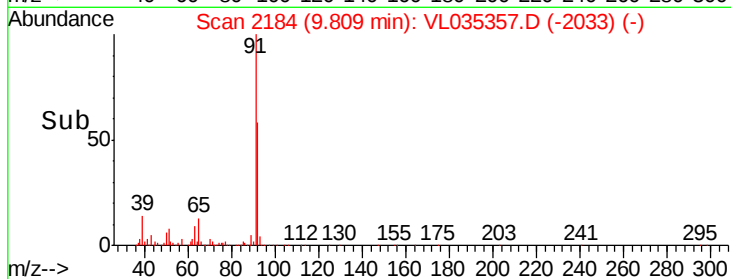
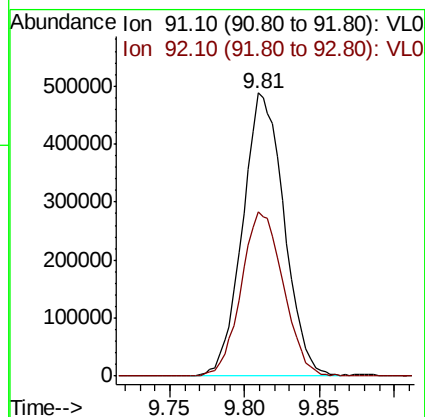
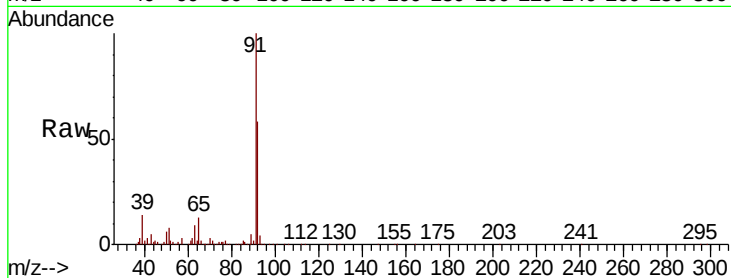
92 59.4 48.5 72.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.02 min

Lab File: VL035357.D

Acq: 6 Aug 2020 19:50

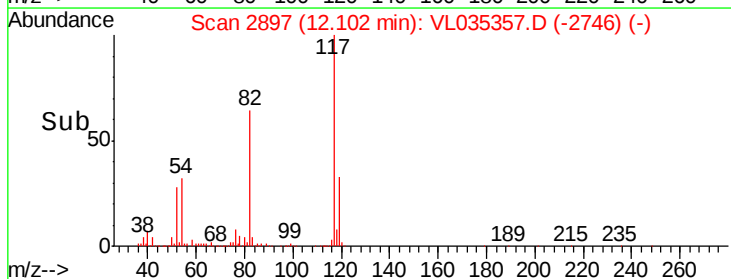
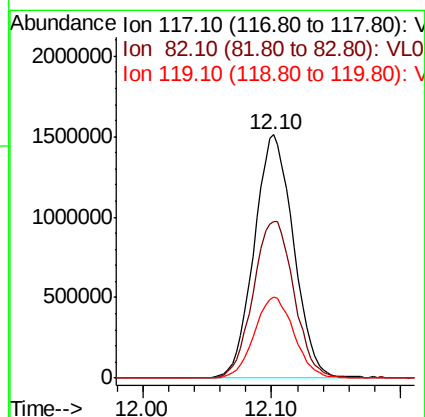
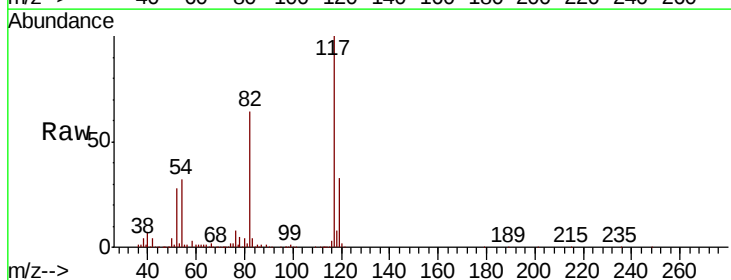
Tgt Ion: 117 Resp: 3213593

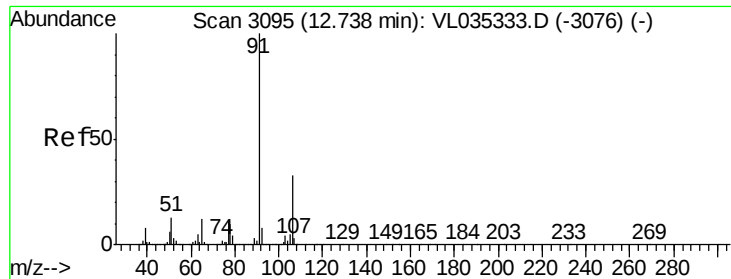
Ion Ratio Lower Upper

117 100

82 66.7 51.0 76.4

119 33.7 24.7 37.1





#58

Ethyl Benzene

Concen: 0.189 ppbv m

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL035357.D

Acq: 6 Aug 2020 19:50

Instrument :

MSVOA_L

ClientSampleId :

2-ABOVE-GROUND

Tot Ion: 91 Resp: 63220

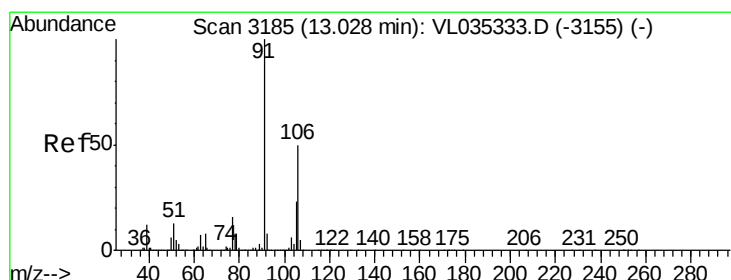
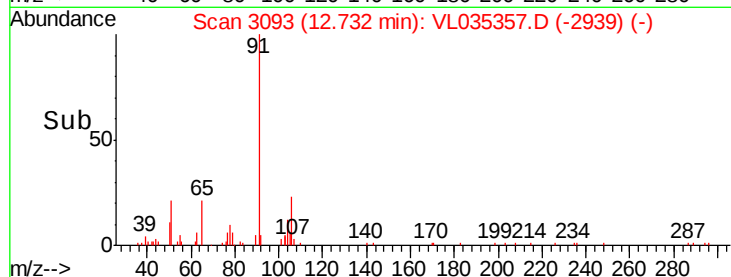
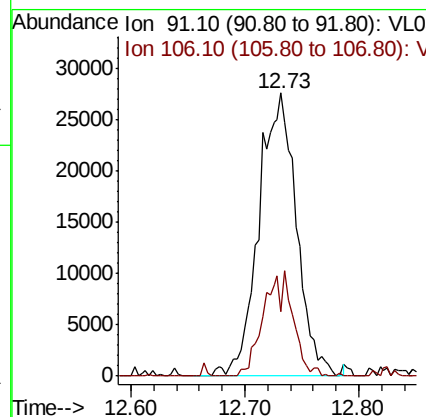
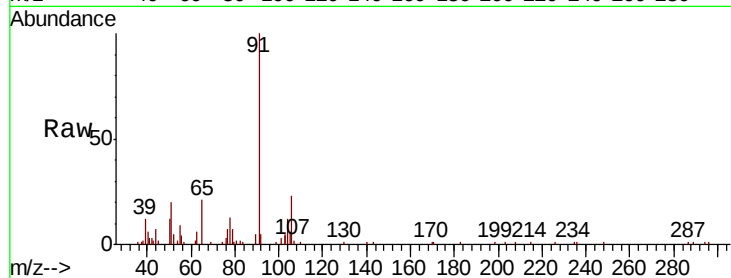
Ion Ratio Lower Upper

91 100

106 22.9 26.8 40.2#

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#59

m/p-Xylene

Concen: 0.658 ppbv m

RT: 12.99 min Scan# 3173

Delta R.T. -0.04 min

Lab File: VL035357.D

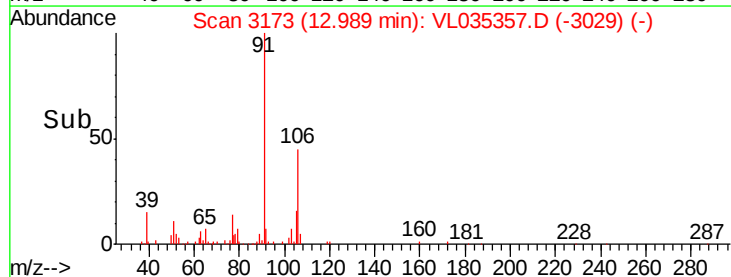
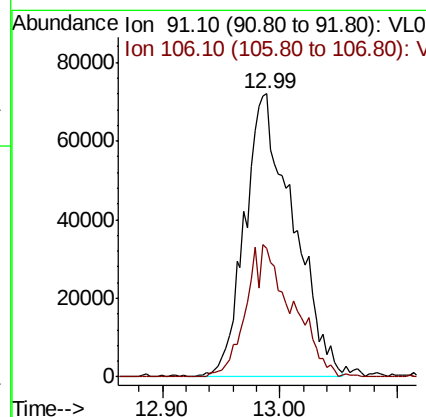
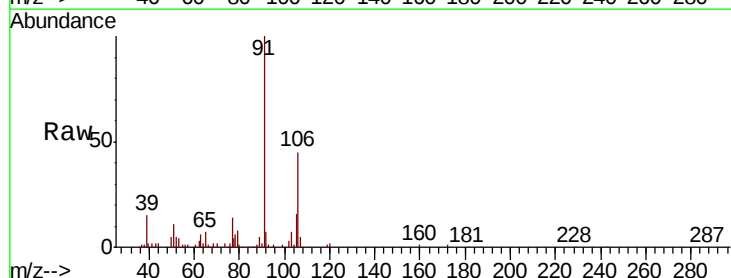
Acq: 6 Aug 2020 19:50

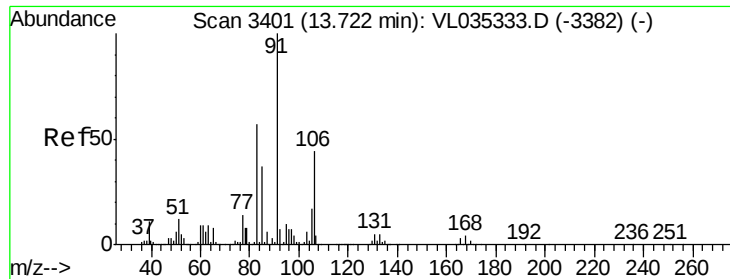
Tgt Ion: 91 Resp: 204856

Ion Ratio Lower Upper

91 100

106 0.0 37.8 56.8#





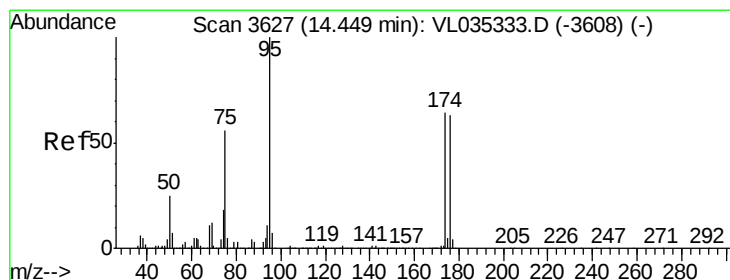
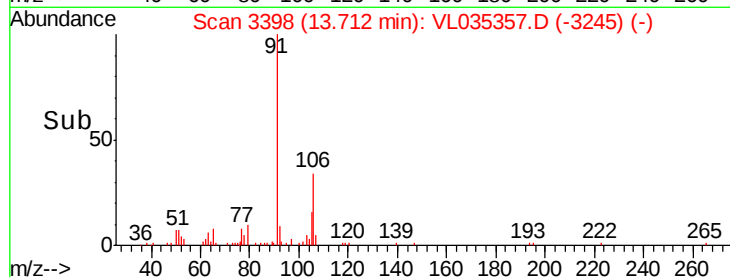
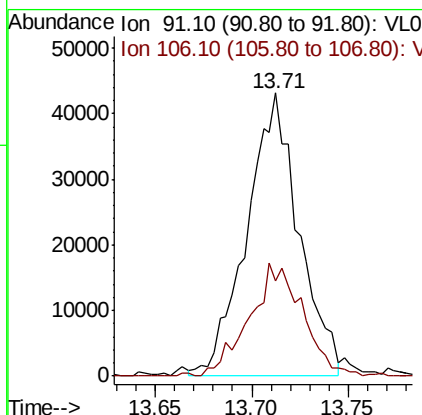
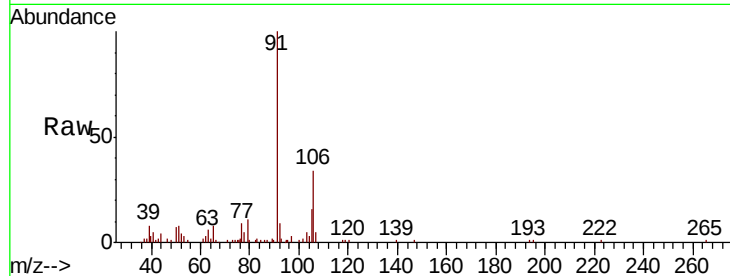
#60
o-Xylene
Concen: 0.262 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Instrument :
MSVOA_L
ClientSampleId :
2-ABOVE-GROUND

Tot Ion	Ratio	Lower	Upper
91	100		
106	41.1	22.7	68.0

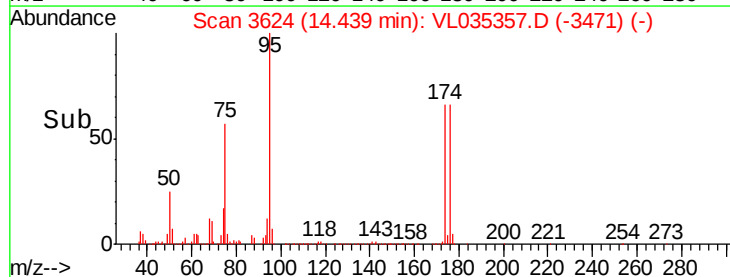
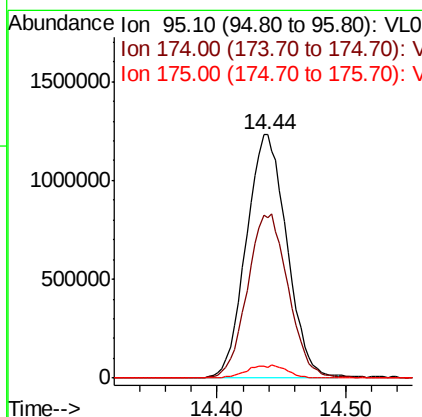
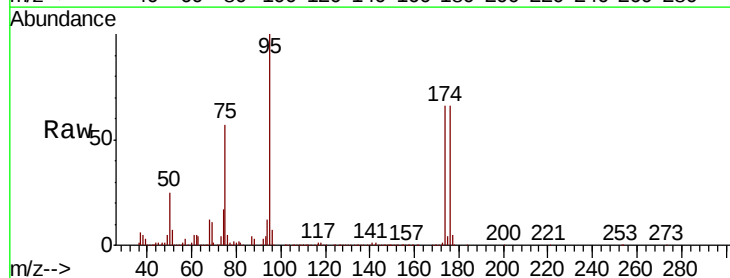
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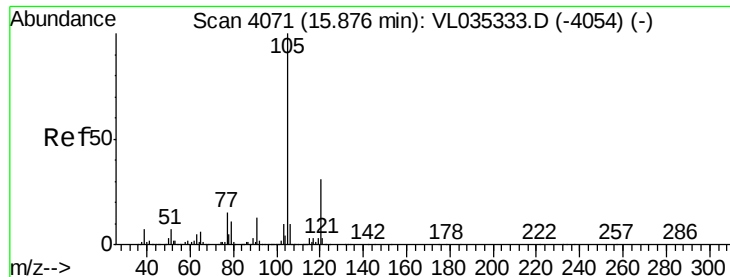
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.070 ppbv
RT: 14.44 min Scan# 3624
Delta R.T. -0.01 min
Lab File: VL035357.D
Acq: 6 Aug 2020 19:50

Tgt Ion	Ratio	Lower	Upper
95	100		
174	68.4	53.5	80.3
175	5.3	4.2	6.2





#72

4-Ethyltoluene

Concen: 0.098 ppbv m

RT: 15.86 min Scan# 4067

Delta R.T. -0.01 min

Lab File: VL035357.D

Acq: 6 Aug 2020 19:50

Instrument :

MSVOA_L

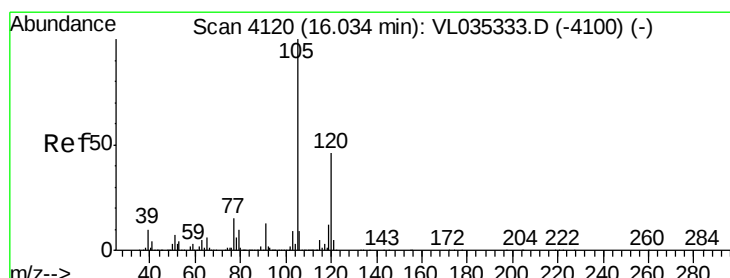
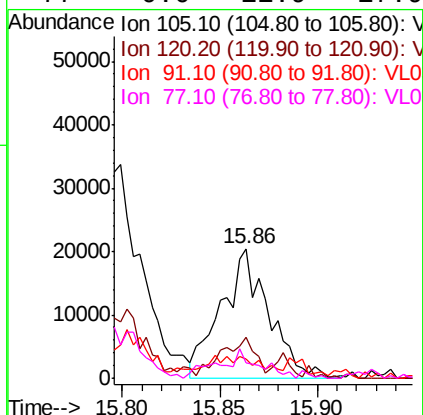
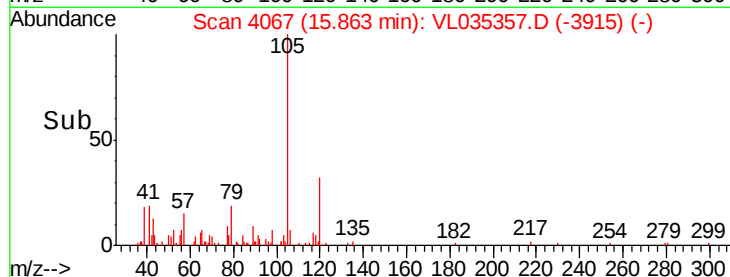
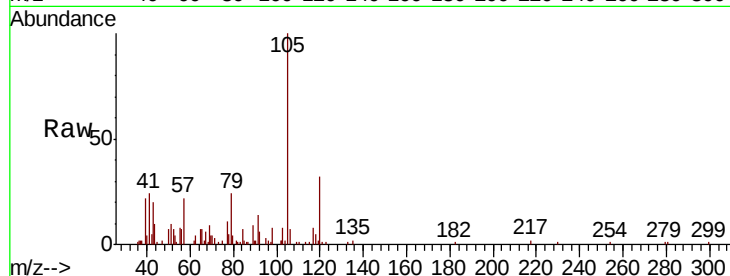
ClientSampleId :

2-ABOVE-GROUND

Tot Ion	Ratio	Resp	Lower	Upper
105	100	34522		
120	0.0	24.0	36.0#	
91	25.2	10.8	16.2#	
77	0.0	11.9	17.9#	

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#73

1,3,5-Trimethylbenzene

Concen: 0.125 ppbv m

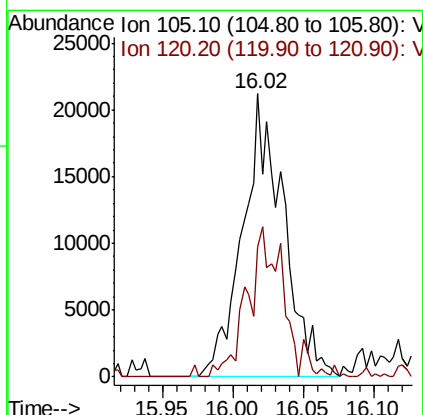
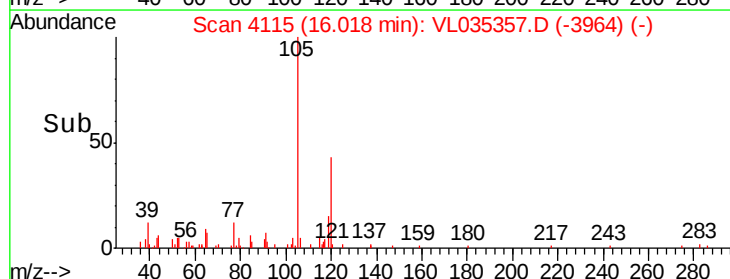
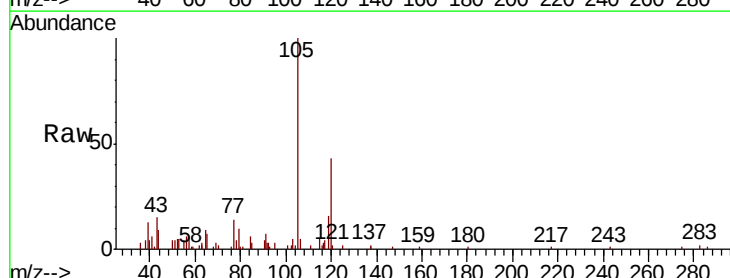
RT: 16.02 min Scan# 4115

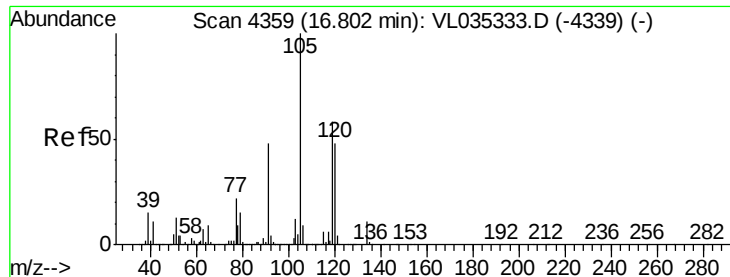
Delta R.T. -0.02 min

Lab File: VL035357.D

Acq: 6 Aug 2020 19:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	42424		
120	43.5	36.9	55.3	





#74
 1,2,4-Trimethylbenzene
 Concen: 0.398 ppbv m
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.01 min
 Lab File: VL035357.D
 Acq: 6 Aug 2020 19:50

Instrument :
 MSVOA_L
 ClientSampleId :
 2-ABOVE-GROUND

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.5	38.5	57.7
91	13.4	39.0	58.6#
77	17.4	17.8	26.6#

Manual Integrations
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