

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036108.D
 Acq On : 8 Dec 2020 23:46
 Operator : SY/AP
 Sample : L4949-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

Manual Integrations
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Quant Time: Dec 09 22:41:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

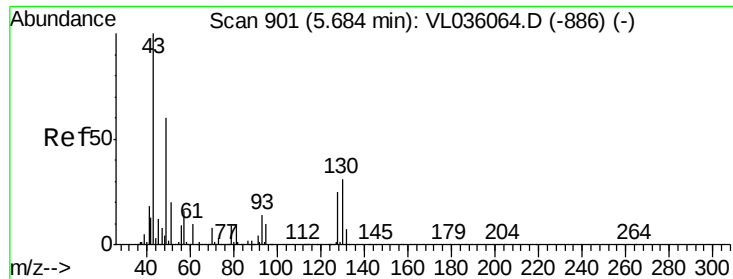
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1106921	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2558302	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2323889	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1946599	10.55	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	34009	0.264	ppbv	100
3) Chlorodifluoromethane	2.99	51	91778m	0.727	ppbv	
4) Chloromethane	3.14	50	29402	0.474	ppbv #	84
9) Propene	3.02	41	1563237m	24.709	ppbv	
10) Heptane	8.13	43	331398	2.051	ppbv	95
11) Trichlorofluoromethane	3.95	101	54628m	0.360	ppbv	
13) Ethanol	3.62	45	3528249	404.542	ppbv	84
15) Acetone	3.85	43	15491646	116.448	ppbv #	85
19) Isopropyl Alcohol	3.99	45	3477768	42.771	ppbv #	100
20) Methylene Chloride	4.36	84	321748	5.902	ppbv	98
25) Ethyl Acetate	5.68	43	3199725	12.039	ppbv #	63
26) Hexane	5.69	57	559909m	4.681	ppbv	
29) Chloroform	5.76	83	16321m	0.104	ppbv	
30) Cyclohexane	7.14	84	51519m	0.586	ppbv	
34) 2-Butanone	5.25	43	5042148	29.712	ppbv	99
35) Carbon Tetrachloride	7.03	117	9751m	0.065	ppbv	
36) Benzene	6.90	78	144872	0.668	ppbv #	91
38) Trichloroethene	7.84	130	16366m	0.202	ppbv	
41) Tetrahydrofuran	6.05	42	702501	6.968	ppbv	99
44) 2,2,4-Trimethylpentane	7.88	57	1082482	2.757	ppbv #	71
50) 4-Methyl-2-Pentanone	8.75	43	1735777	6.859	ppbv	99
52) Tetrachloroethene	11.24	164	95512m	1.217	ppbv	
53) Toluene	9.83	91	15704518	64.506	ppbv	84
58) Ethyl Benzene	12.73	91	1611958	5.062	ppbv	99
59) m/p-Xylene	12.98	91	4906348	18.291	ppbv	96
60) o-Xylene	13.71	91	1754941	6.944	ppbv	97
61) Styrene	13.54	104	78717	0.485	ppbv	92
62) Isopropylbenzene	14.68	105	101342m	0.271	ppbv	
64) n-propylbenzene	15.58	120	83190	0.923	ppbv	78
65) tert-Butylbenzene	16.78	119	121422m	0.396	ppbv	
72) 4-Ethyltoluene	15.85	105	473611	1.730	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	437032	1.672	ppbv	96
74) 1,2,4-Trimethylbenzene	16.78	105	1172890	4.469	ppbv #	64

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Instrument :

MSVOA_L

ClientSampleId :

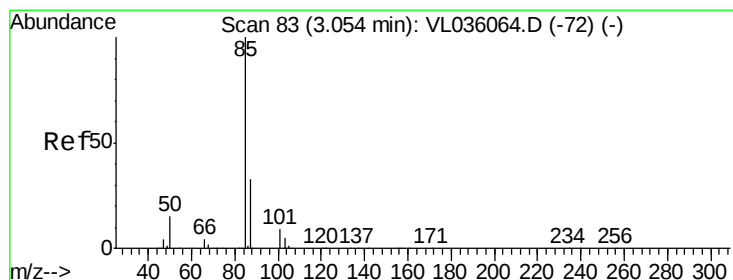
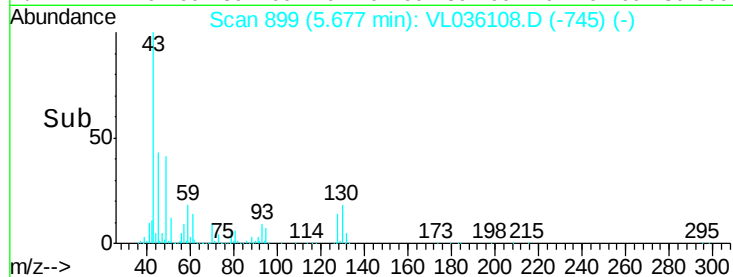
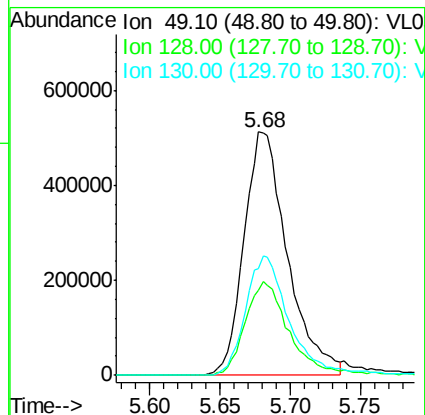
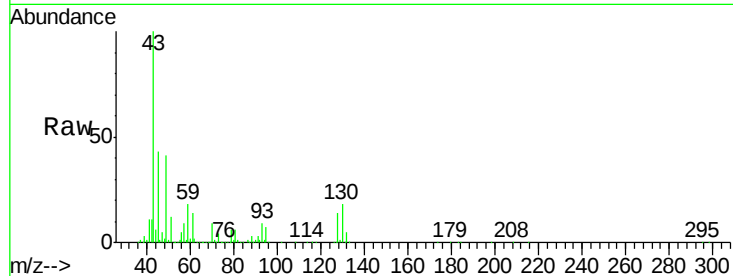
IA-5

Tot Ion: 49 Resp: 1106921

Ion	Ratio	Lower	Upper
49	100		
128	39.6	21.1	63.1
130	50.2	27.1	81.3

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#2

Dichlorodifluoromethane

Concen: 0.264 ppbv

RT: 3.04 min Scan# 80

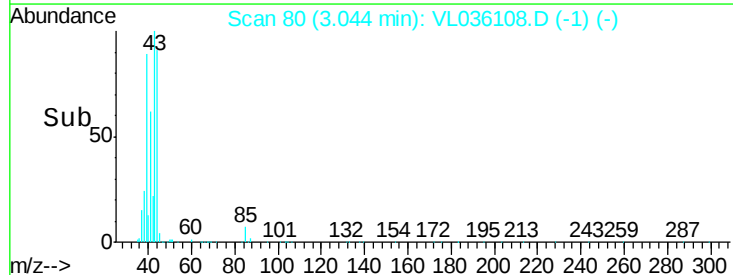
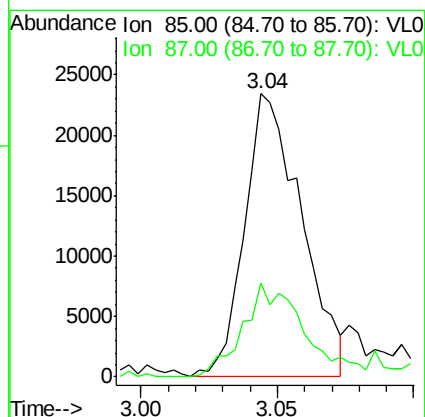
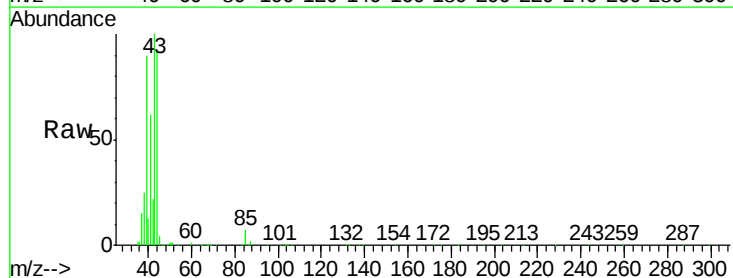
Delta R.T. -0.01 min

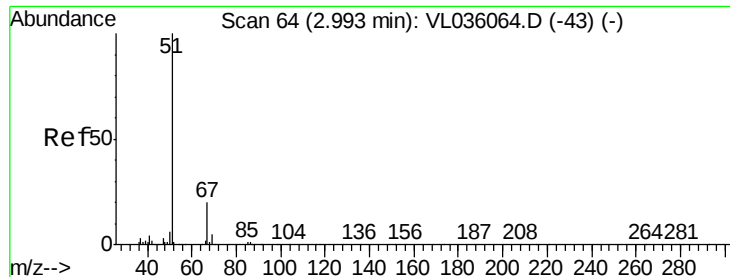
Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Tgt Ion: 85 Resp: 34009

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.5	39.7





#3

Chlorodifluoromethane

Concen: 0.727 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Instrument :

MSVOA_L

ClientSampled :

IA-5

Tot Ion: 51 Resp: 91778

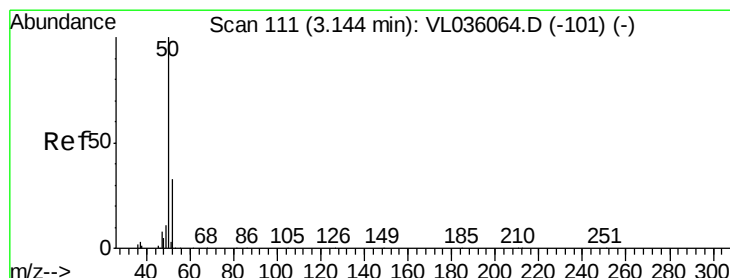
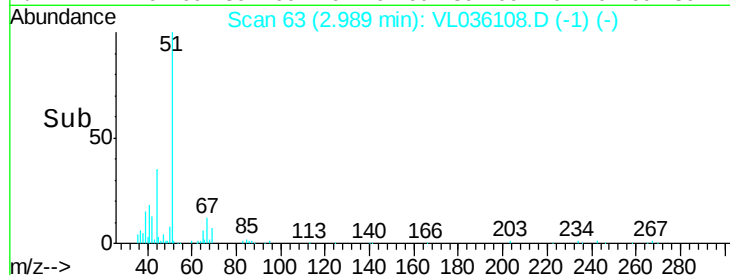
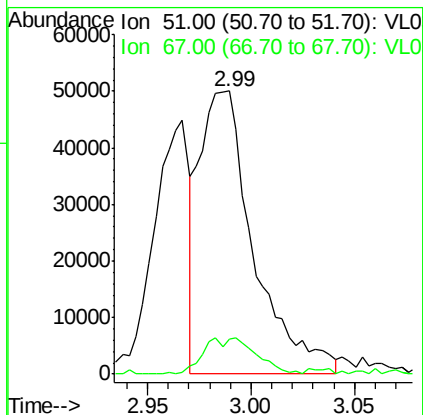
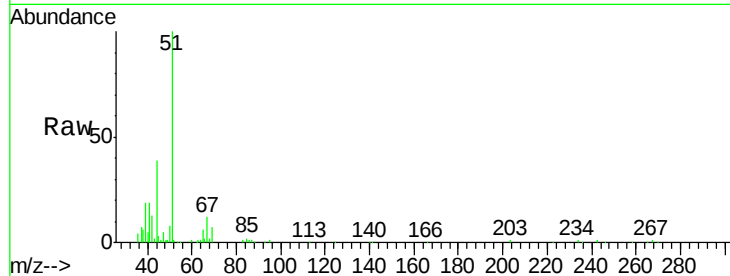
Ion Ratio Lower Upper

51 100

67 1.1 14.3 21.5#

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#4

Chloromethane

Concen: 0.474 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL036108.D

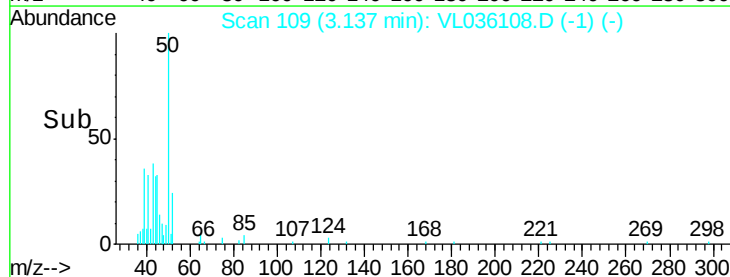
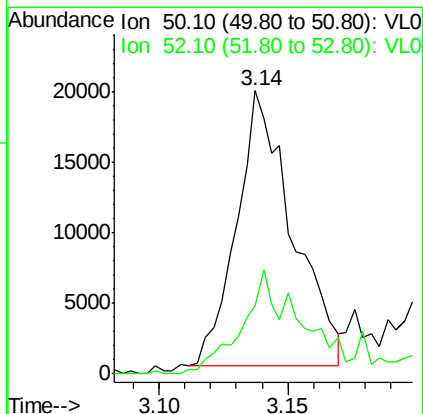
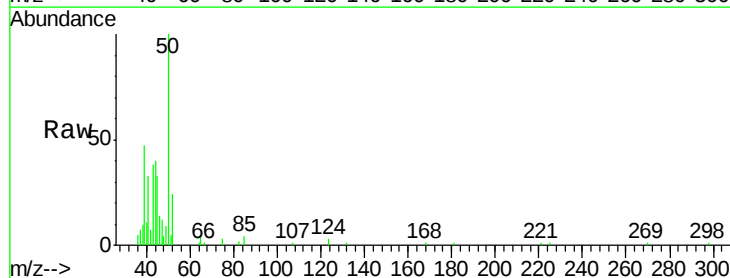
Acq: 8 Dec 2020 23:46

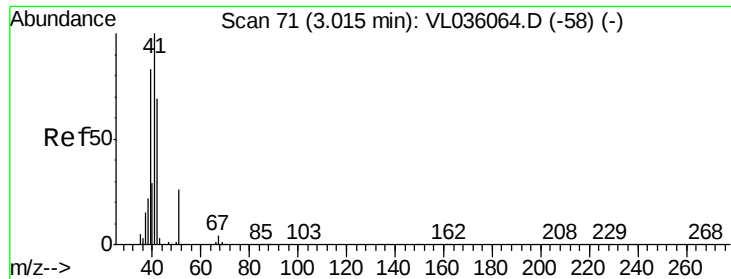
Tgt Ion: 50 Resp: 29402

Ion Ratio Lower Upper

50 100

52 23.4 26.1 39.1#





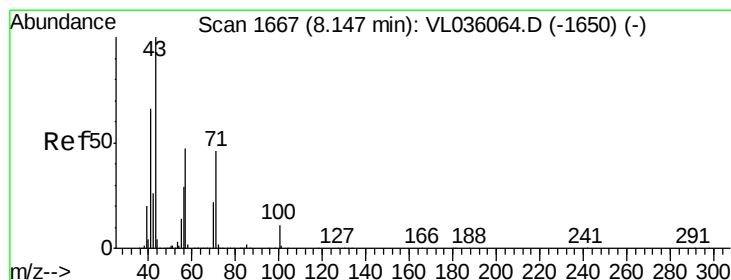
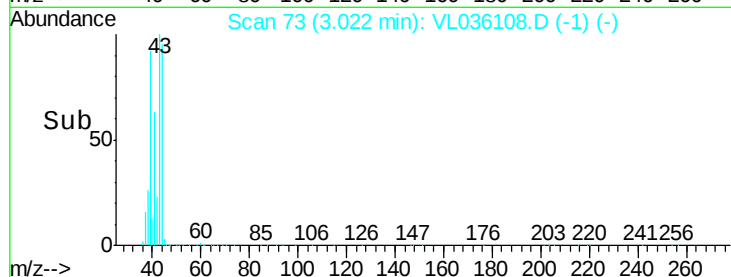
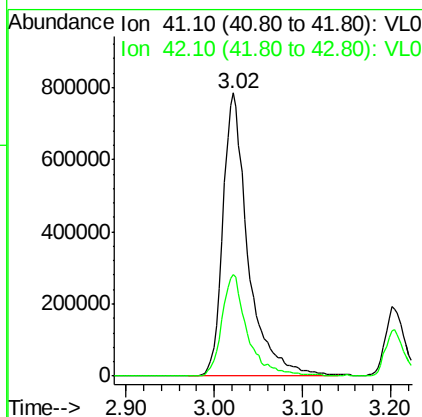
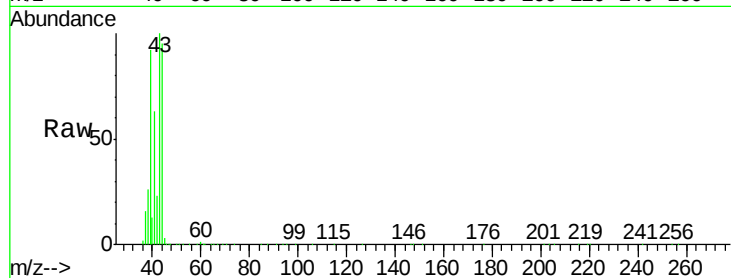
#9
 Propene
 Concen: 24.709 ppbv m
 RT: 3.02 min Scan# 73
 Delta R.T. 0.01 min
 Lab File: VL036108.D
 Acq: 8 Dec 2020 23:46

Instrument :
 MSVOA_L
 ClientSampled :
 IA-5

Tot Ion: 41 Resp: 1563237
 Ion Ratio Lower Upper
 41 100
 42 13.6 57.0 85.6#

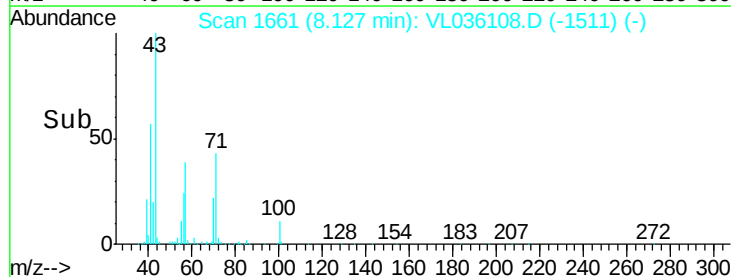
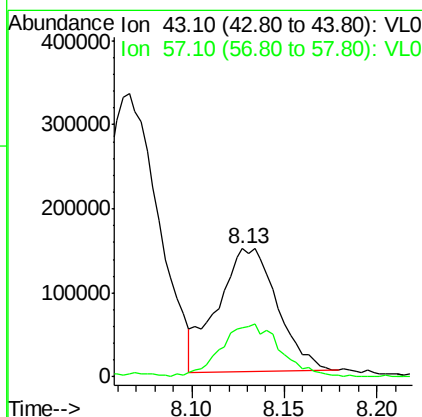
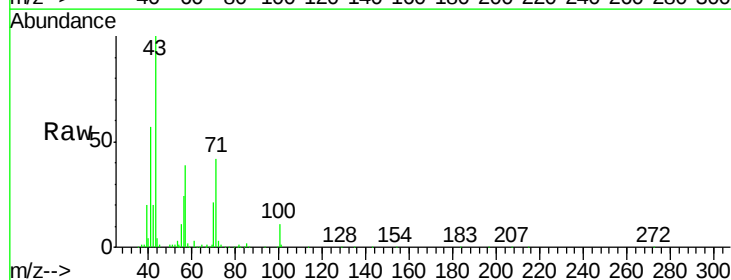
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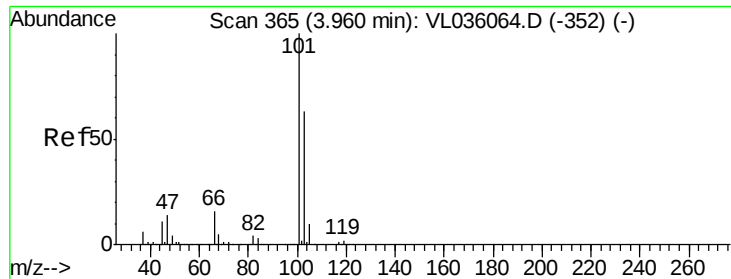
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#10
 Heptane
 Concen: 2.051 ppbv
 RT: 8.13 min Scan# 1661
 Delta R.T. -0.02 min
 Lab File: VL036108.D
 Acq: 8 Dec 2020 23:46

Tgt Ion: 43 Resp: 331398
 Ion Ratio Lower Upper
 43 100
 57 44.0 37.9 56.9





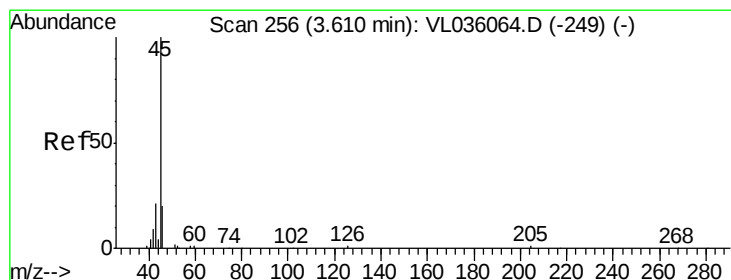
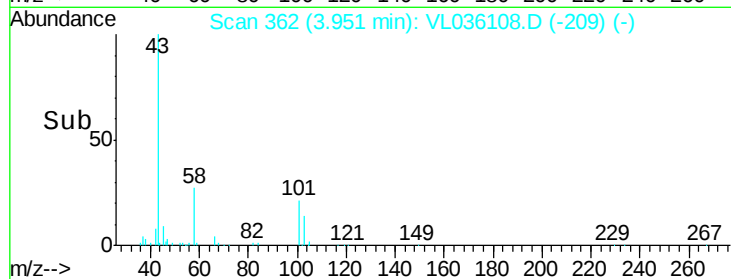
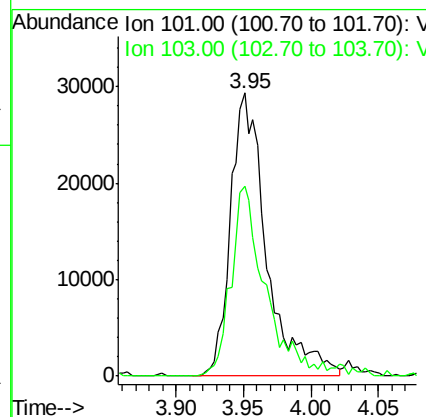
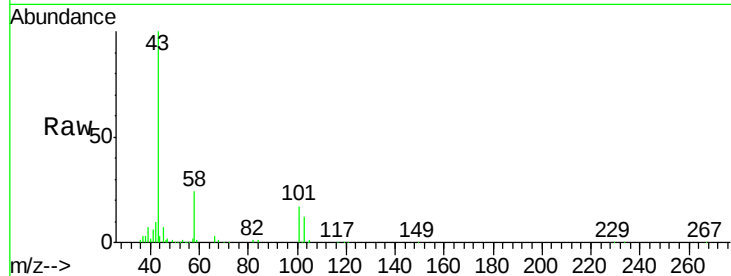
#11
 Trichlorofluoromethane
 Concen: 0.360 ppbv m
 RT: 3.95 min Scan# 362
 Delta R.T. -0.01 min
 Lab File: VL036108.D
 Acq: 8 Dec 2020 23:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		54628		
103	67.2	50.3	75.5		

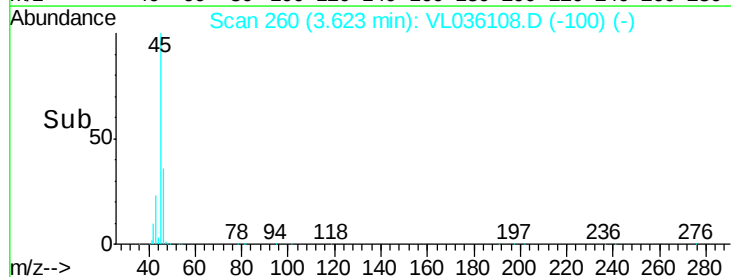
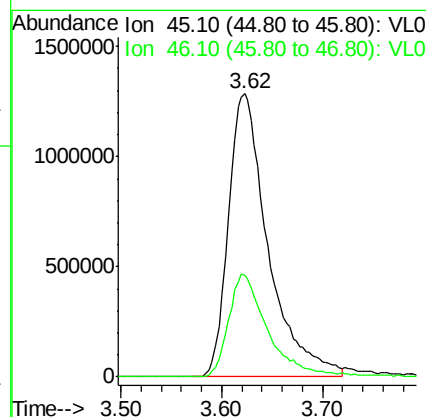
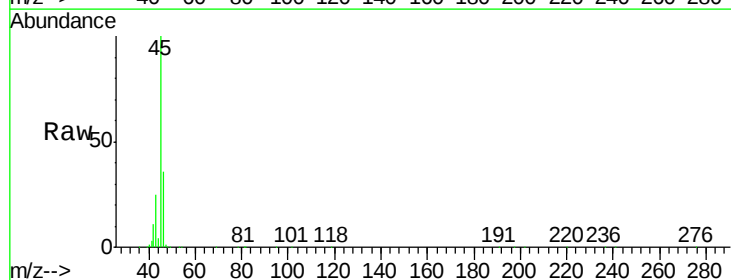
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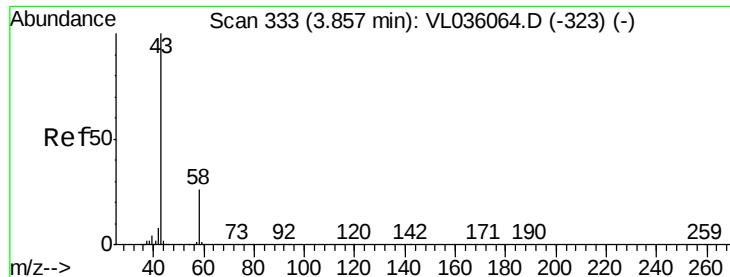
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#13
 Ethanol
 Concen: 404.542 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.01 min
 Lab File: VL036108.D
 Acq: 8 Dec 2020 23:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		3528249		
46	36.5	19.0	75.8		





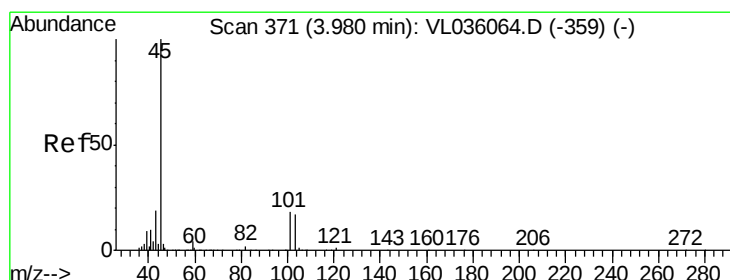
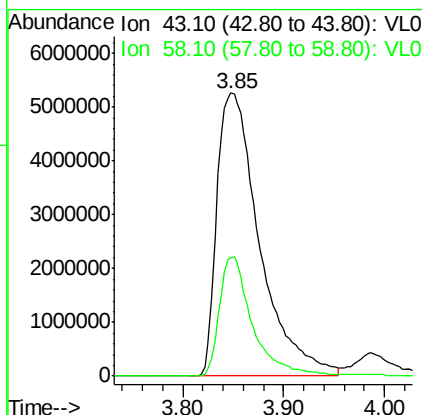
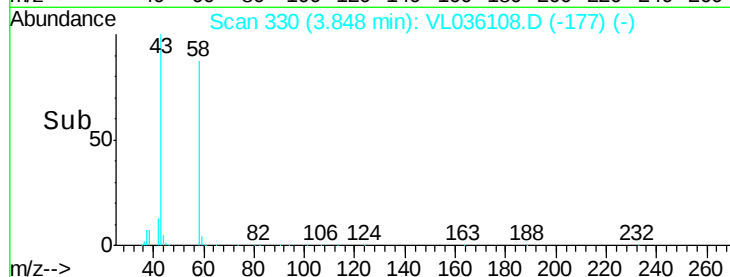
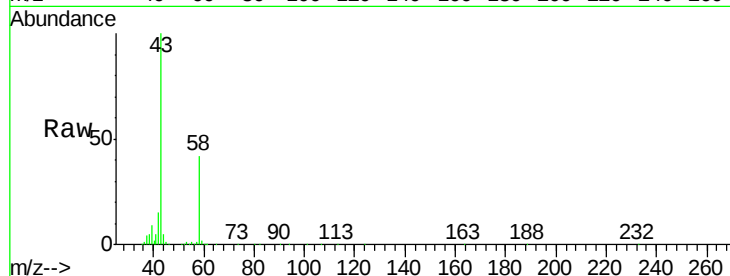
#15
Acetone
Concen: 116.448 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Instrument :
MSVOA_L
ClientSampleId :
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Tot Ion: 43 Resp:15491646
Ion Ratio Lower Upper
43 100
58 33.5 20.9 31.3#

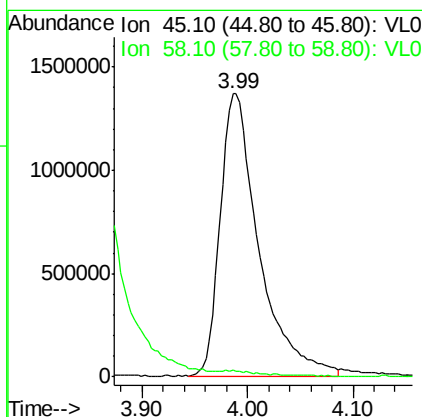
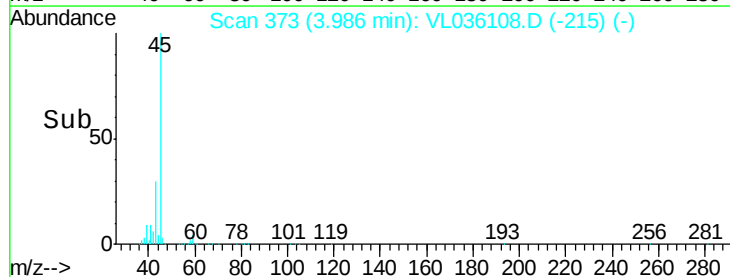
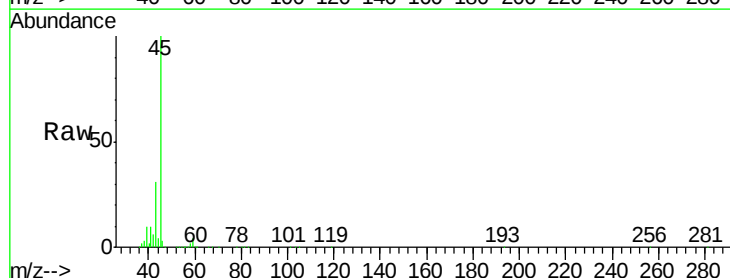
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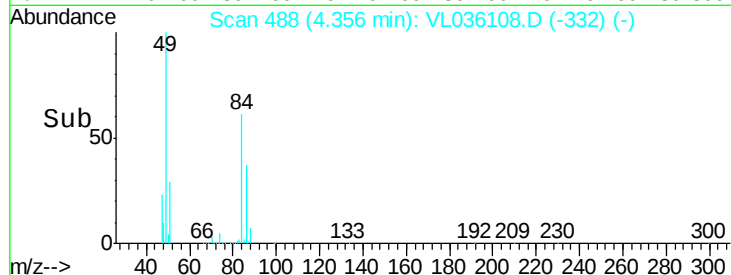
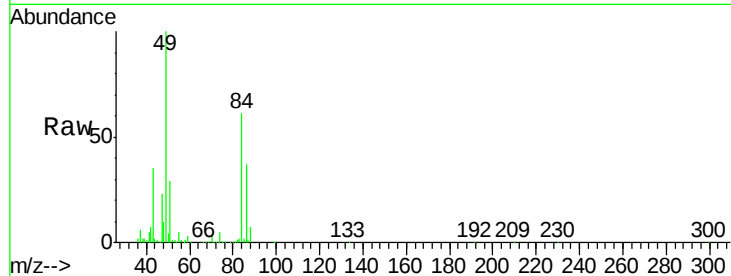
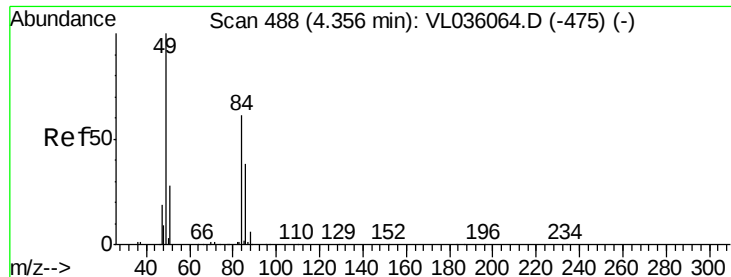
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#19
Isopropyl Alcohol
Concen: 42.771 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Tgt Ion: 45 Resp: 3477768
Ion Ratio Lower Upper
45 100
58 149.9 0.0 0.0#





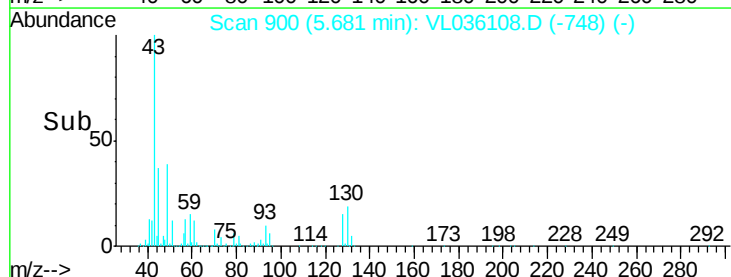
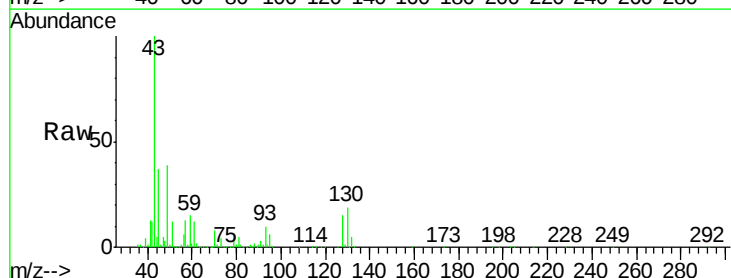
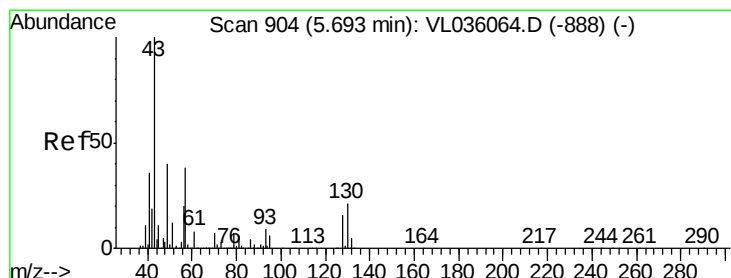
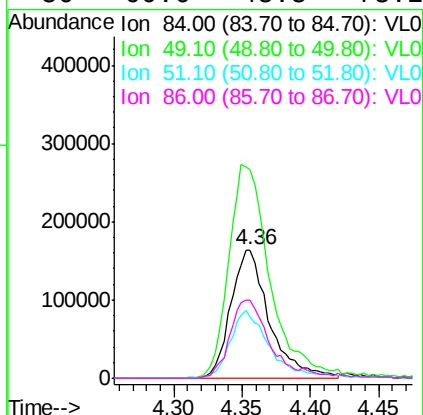
#20
Methvlene Chloride
Concen: 5.902 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.00 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	162.9	133.0	199.4	
51	46.9	38.9	58.3	
86	60.6	48.8	73.2	

Instrument :
MSVOA_L
ClientSampleId :
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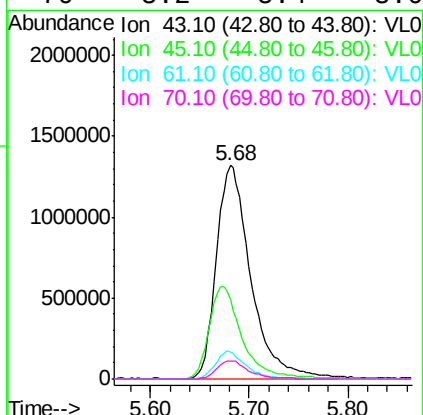
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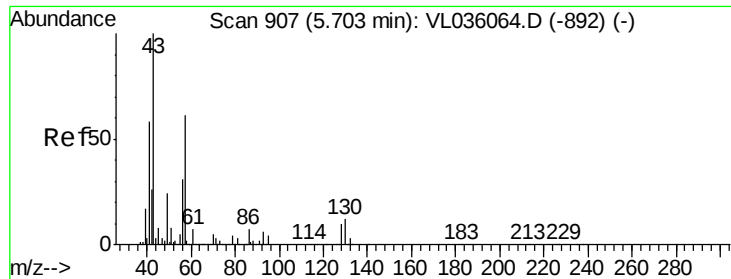
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#25
Ethyl Acetate
Concen: 12.039 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
45	42.3	8.2	12.4#	
61	12.0	7.4	11.2#	
70	8.2	5.4	8.0#	





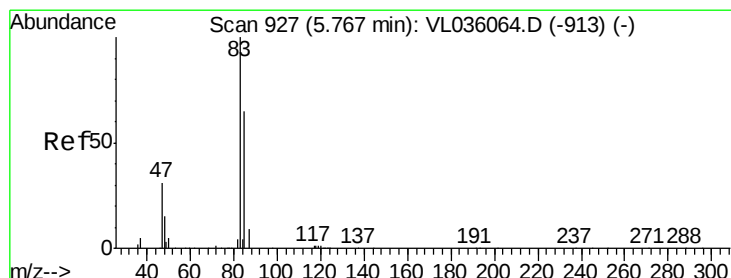
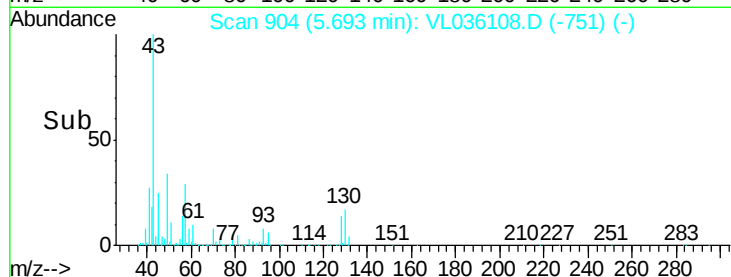
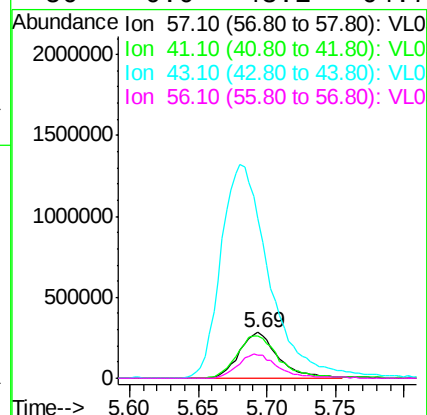
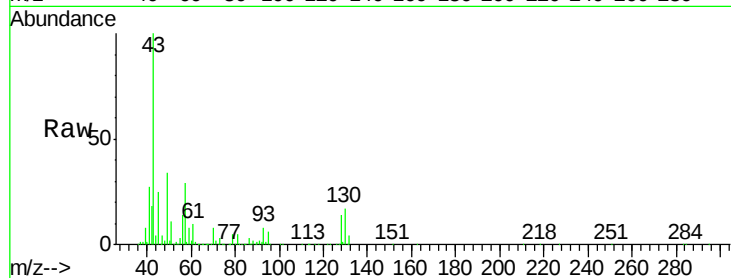
#26
Hexane
Concen: 4.681 ppbv m
RT: 5.69 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Instrument :
MSVOA_L
ClientSampleId :
IA-5

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	82.9	124.3#
43	0.0	199.9	299.9#
56	0.0	43.1	64.7#

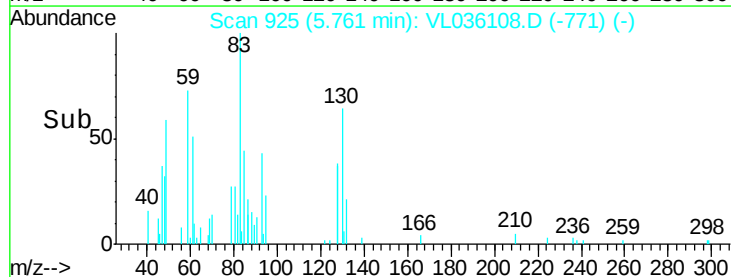
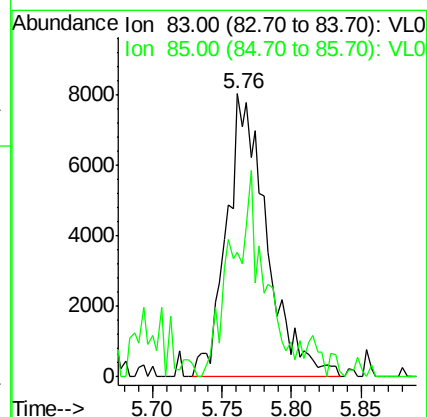
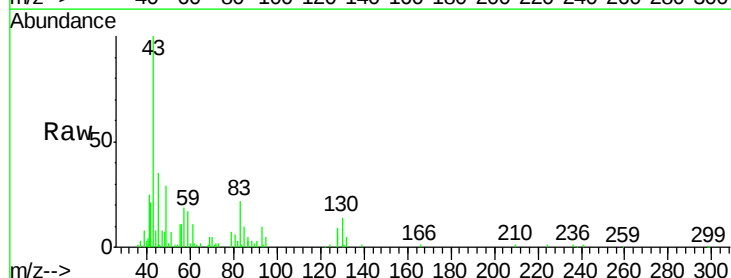
Manual Integrations
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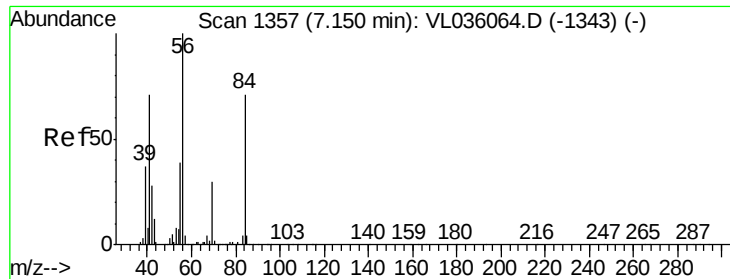
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#29
Chloroform
Concen: 0.104 ppbv m
RT: 5.76 min Scan# 925
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	44.3	51.8	77.6#





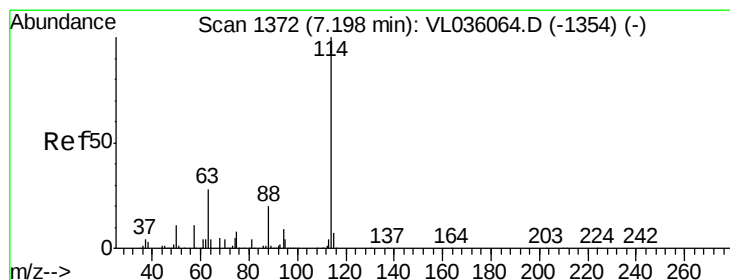
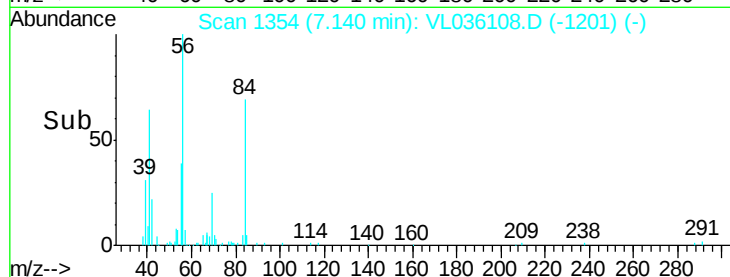
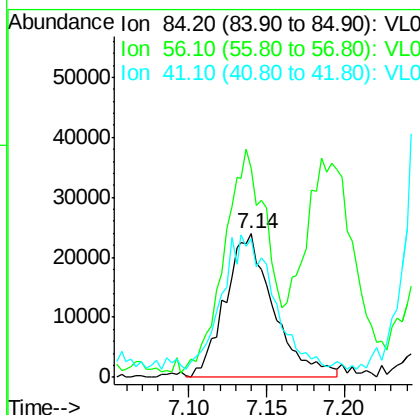
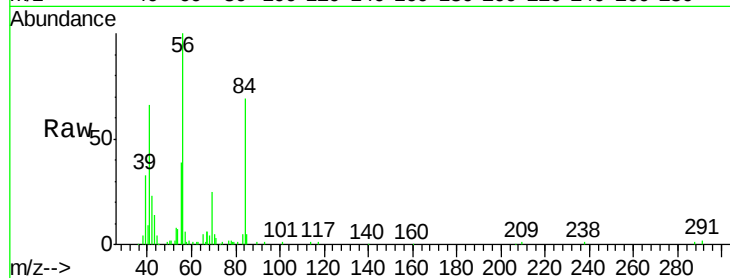
#30
Cvclohexane
Concen: 0.586 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Instrument :
MSVOA_L
ClientSampled :
IA-5

Tot Ion	Ratio	Lower	Upper
84	100		
56	145.9	128.0	192.0
41	0.0	81.3	121.9#

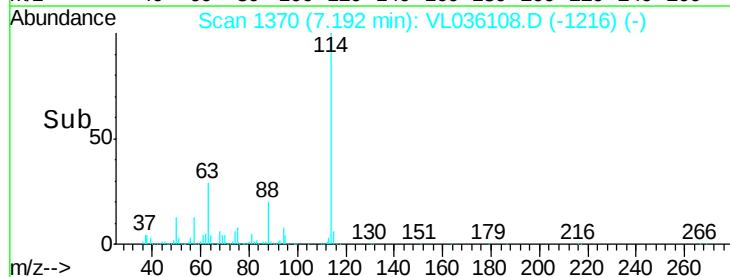
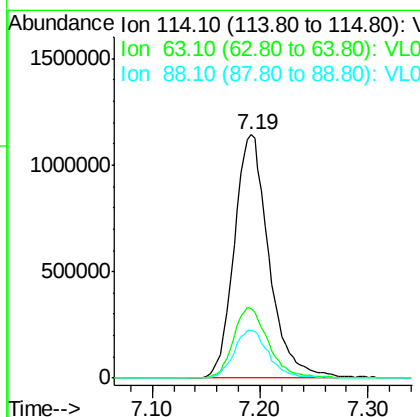
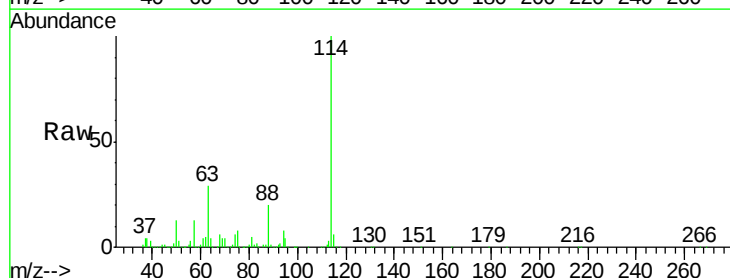
Manual Integrations
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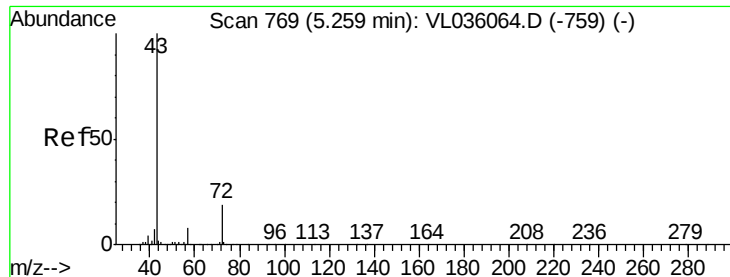
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.5	23.6	35.4
88	20.1	15.8	23.6





#34

2-Butanone

Concen: 29.712 ppbv

RT: 5.25 min Scan# 767

Delta R.T. -0.01 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Instrument :

MSVOA_L

ClientSampleId :

IA-5

Tot Ion: 43 Resp: 5042148

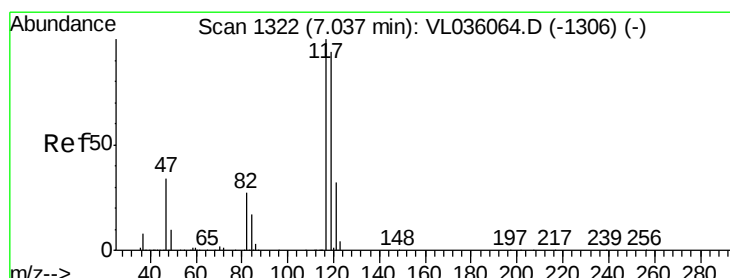
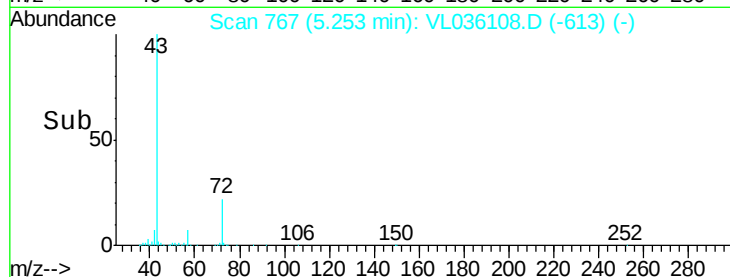
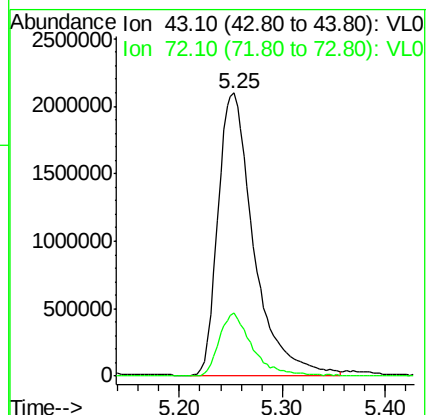
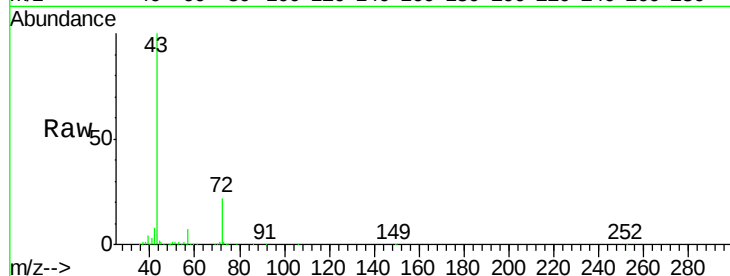
Ion Ratio Lower Upper

43 100

72 21.0 16.5 24.7

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#35

Carbon Tetrachloride

Concen: 0.065 ppbv m

RT: 7.03 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

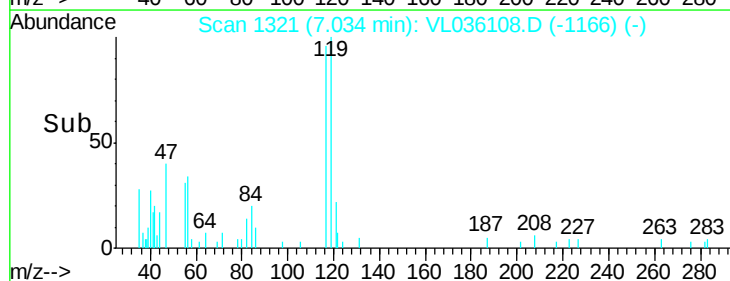
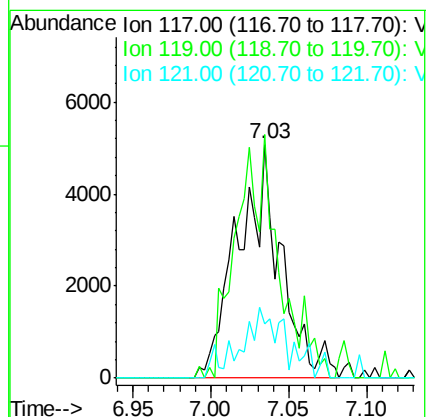
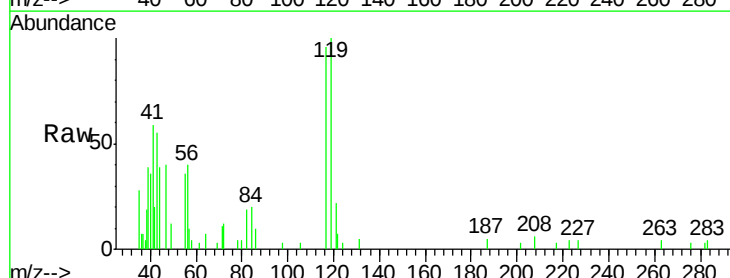
Tgt Ion: 117 Resp: 9751

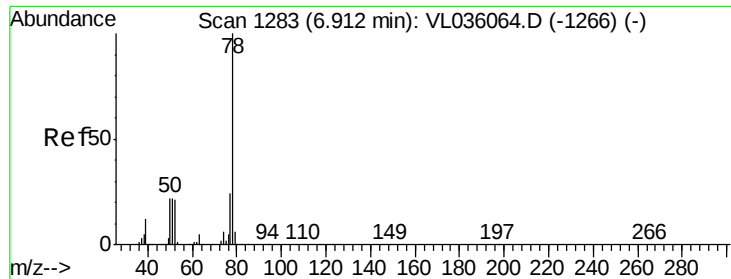
Ion Ratio Lower Upper

117 100

119 104.3 75.1 112.7

121 23.1 25.6 38.4#





#36

Benzene

Concen: 0.668 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Instrument :

MSVOA_L

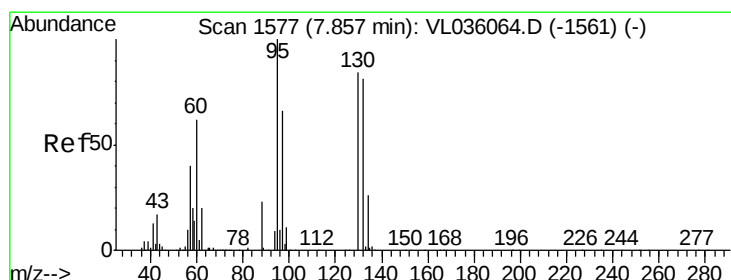
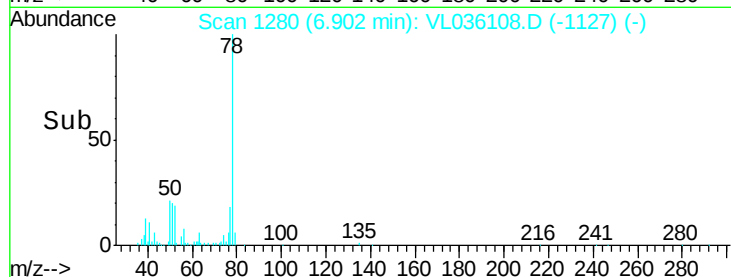
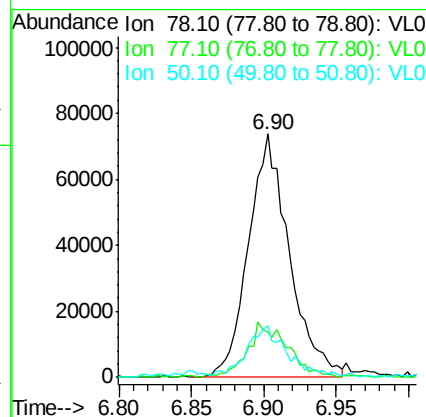
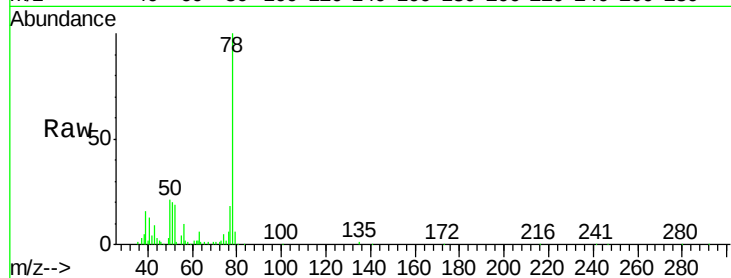
ClientSampled :

IA-5

Tot Ion:	78	Resp:	144872
Ion Ratio	Lower	Upper	
78	100		
77	17.8	19.4	29.2#
50	20.4	17.8	26.8

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#38

Trichloroethene

Concen: 0.202 ppbv m

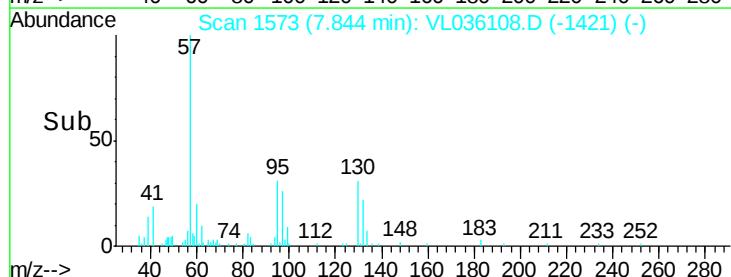
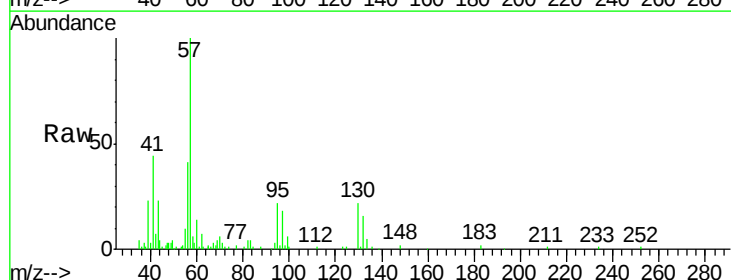
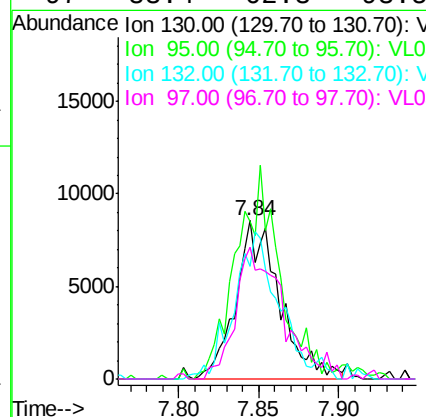
RT: 7.84 min Scan# 1573

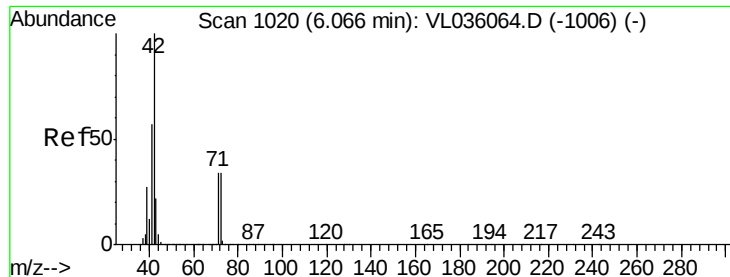
Delta R.T. -0.01 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Tgt Ion:	130	Resp:	16366
Ion Ratio	Lower	Upper	
130	100		
95	99.2	95.2	142.8
132	71.6	76.9	115.3#
97	83.4	62.3	93.5





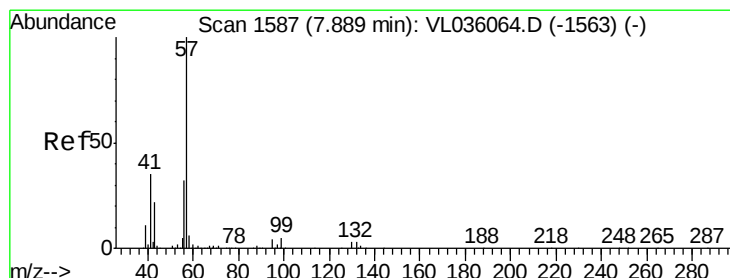
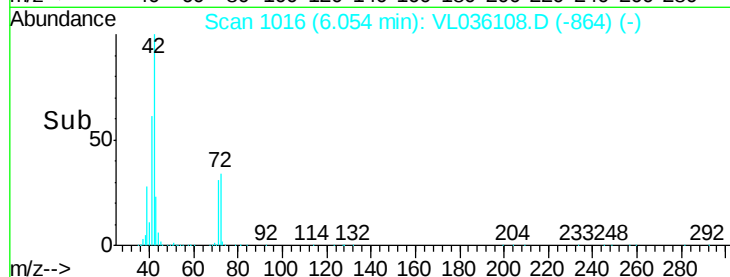
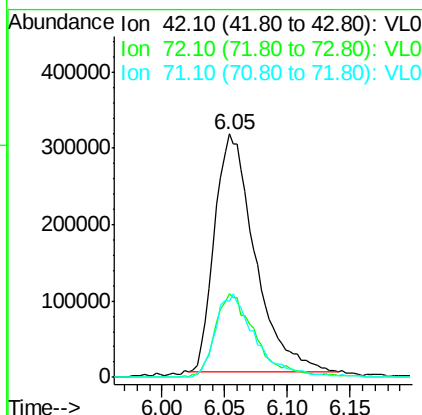
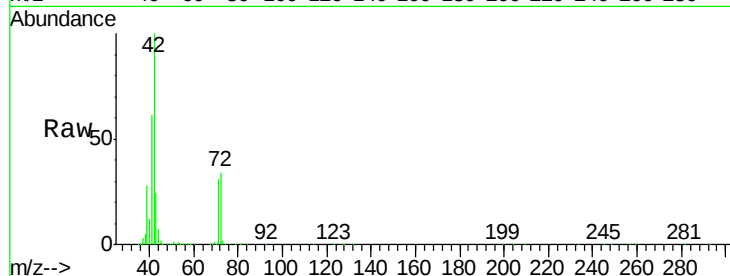
#41
Tetrahydrofuran
Concen: 6.968 ppbv
RT: 6.05 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Instrument :
MSVOA_L
ClientSampled :
IA-5

Tot Ion	42	Resp	702501
Ion Ratio	Lower	Upper	
42	100		
72	35.7	28.3	42.5
71	34.8	27.3	40.9

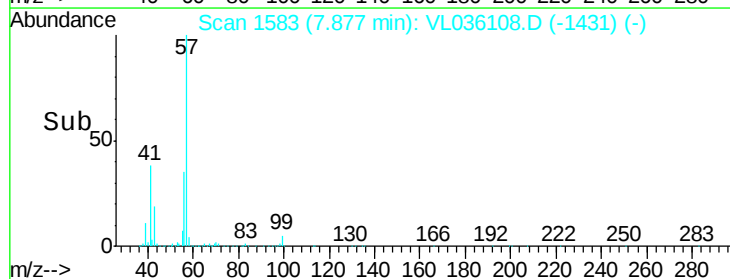
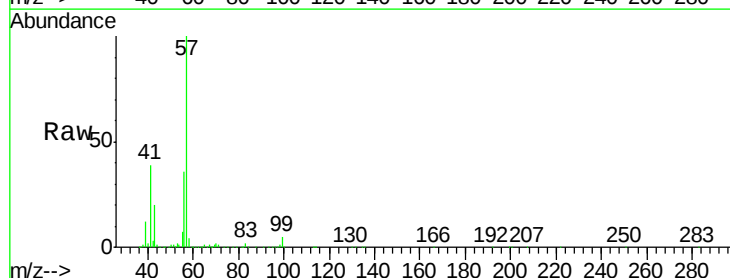
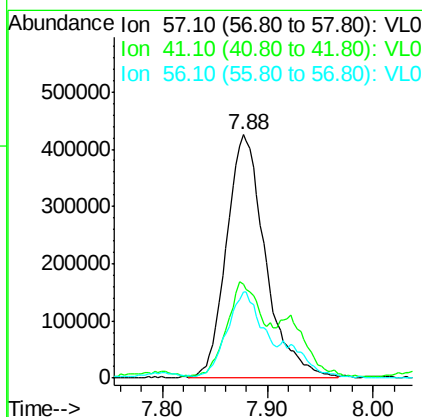
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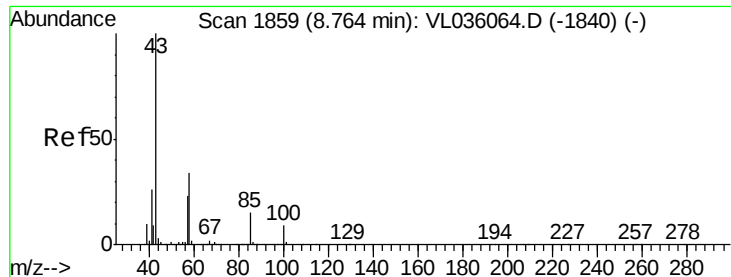
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#44
2,2,4-Trimethylpentane
Concen: 2.757 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Tgt Ion	57	Resp	1082482
Ion Ratio	Lower	Upper	
57	100		
41	56.5	28.9	43.3#
56	43.6	25.3	37.9#





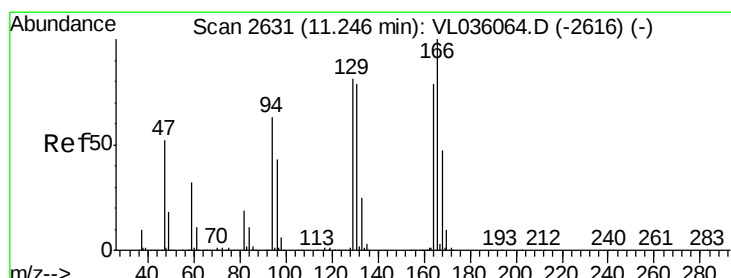
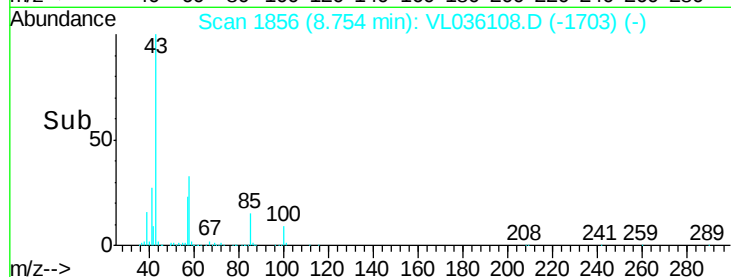
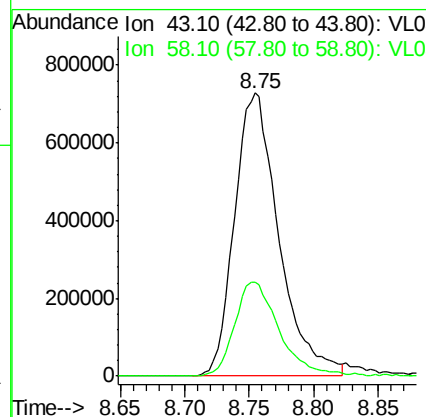
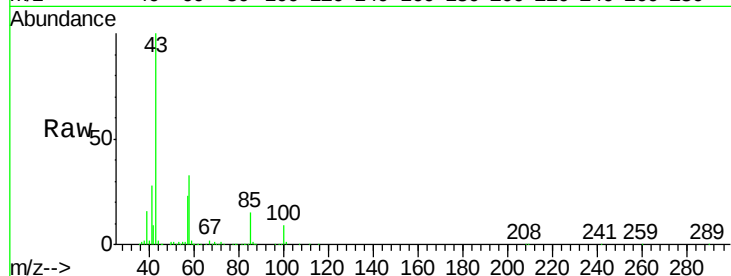
#50
4-Methyl-2-Pentanone
Concen: 6.859 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Instrument :
MSVOA_L
ClientSampleId :
IA-5

Tot Ion: 43 Resp: 1735777
Ion Ratio Lower Upper
43 100
58 34.0 27.4 41.2

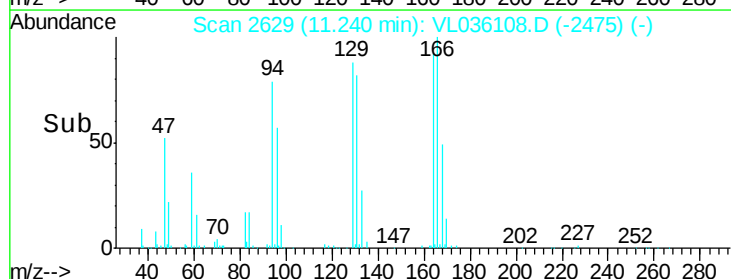
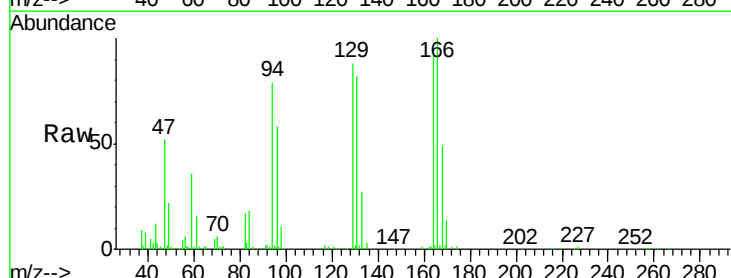
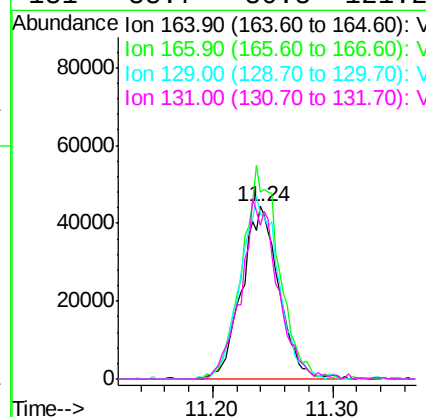
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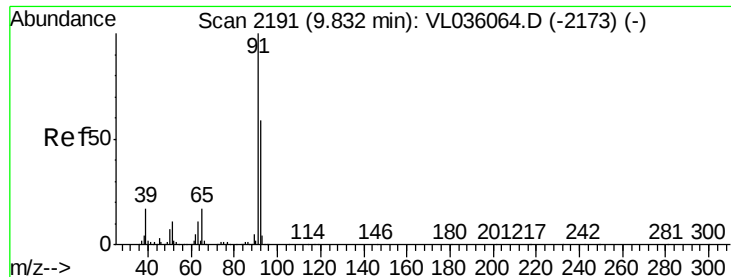
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#52
Tetrachloroethene
Concen: 1.217 ppbv m
RT: 11.24 min Scan# 2629
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Tgt Ion: 164 Resp: 95512
Ion Ratio Lower Upper
164 100
166 108.1 101.9 152.9
129 95.7 82.1 123.1
131 88.7 80.8 121.2





#53

Toluene

Concen: 64.506 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.01 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Instrument :

MSVOA_L

ClientSampled :

IA-5

Tot Ion: 91 Resp:15704518

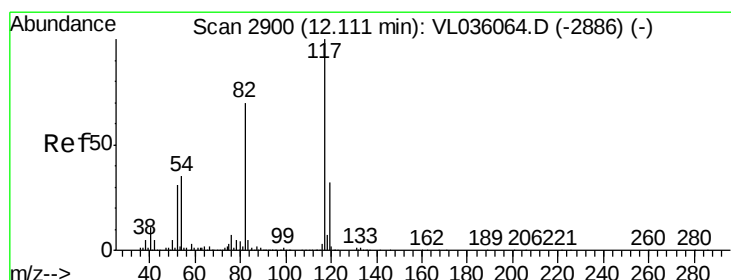
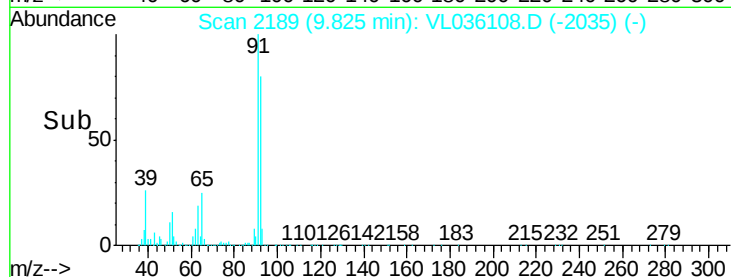
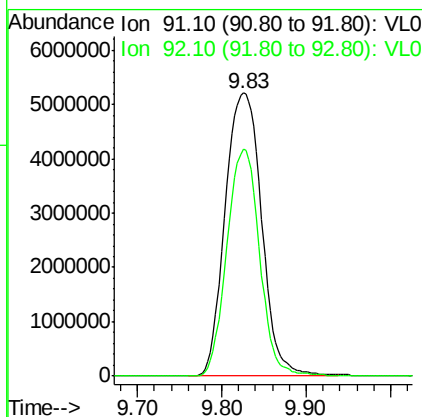
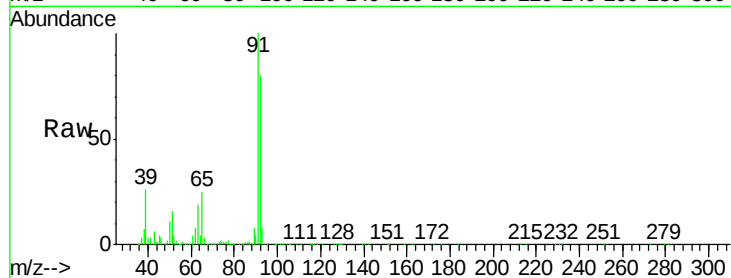
Ion Ratio Lower Upper

91 100

92 72.2 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

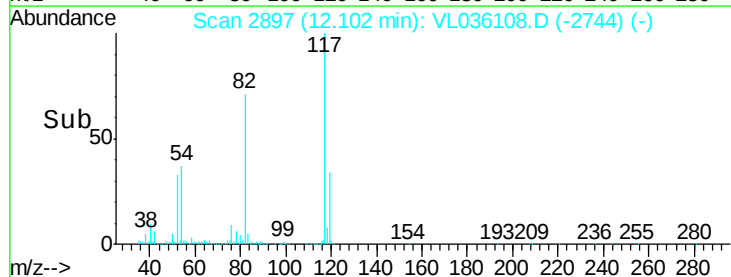
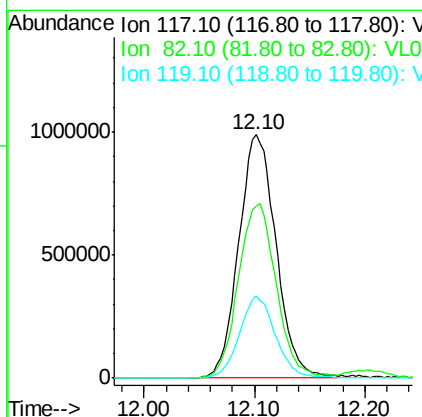
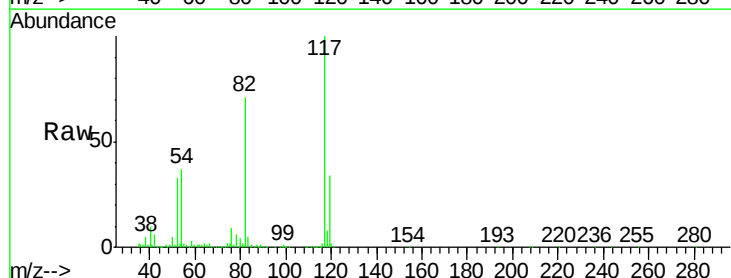
Tgt Ion:117 Resp: 2323889

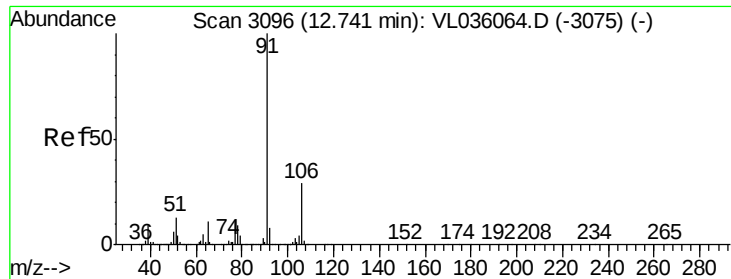
Ion Ratio Lower Upper

117 100

82 72.7 0.0 0.0#

119 32.6 0.0 0.0#





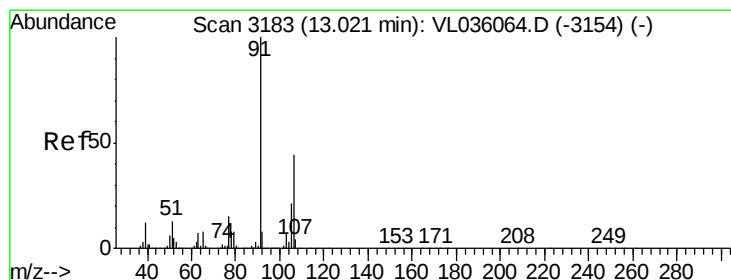
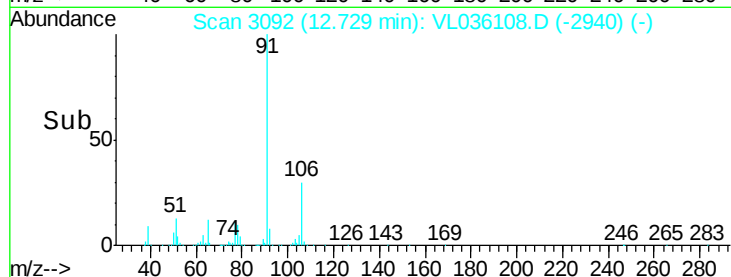
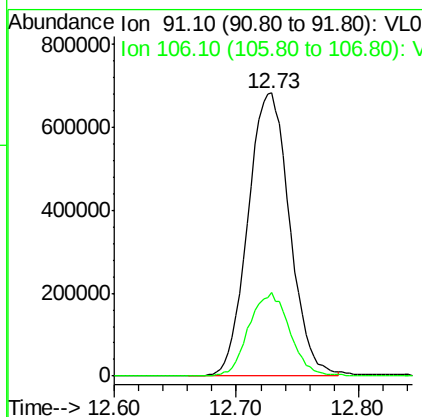
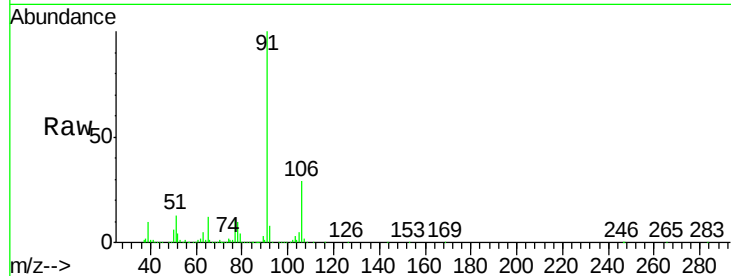
#58
Ethyl Benzene
Concen: 5.062 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. -0.01 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Instrument :
MSVOA_L
ClientSampled :
IA-5

Tot Ion: 91 Resp: 1611958
Ion Ratio Lower Upper
91 100
106 29.5 23.0 34.4

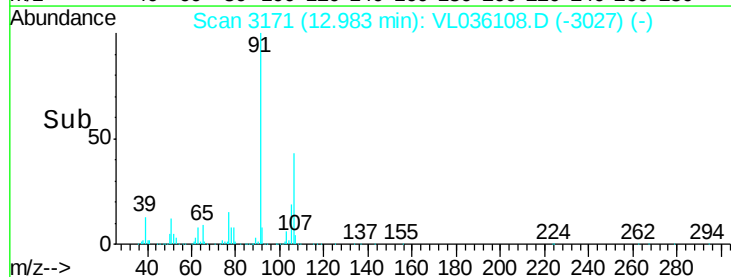
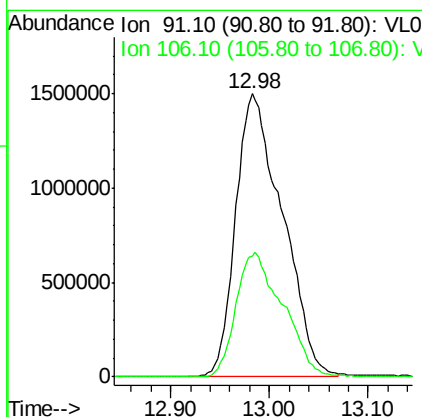
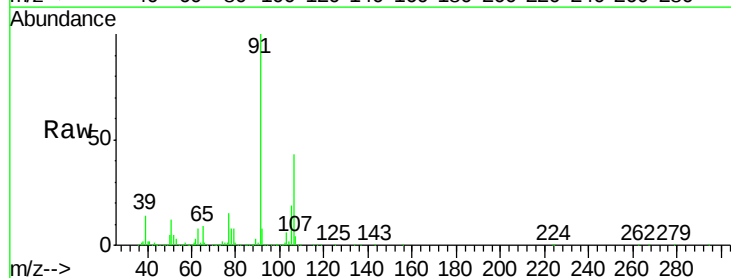
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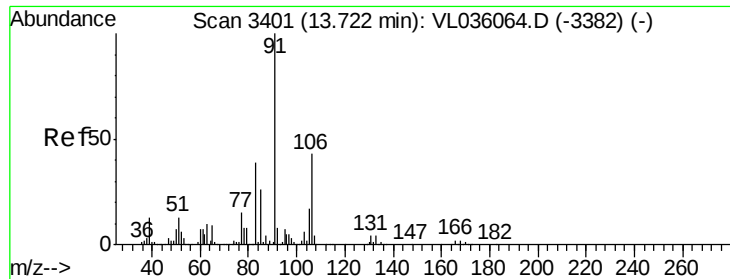
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#59
m/p-Xylene
Concen: 18.291 ppbv
RT: 12.98 min Scan# 3171
Delta R.T. -0.04 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Tgt Ion: 91 Resp: 4906348
Ion Ratio Lower Upper
91 100
106 44.4 33.6 50.4





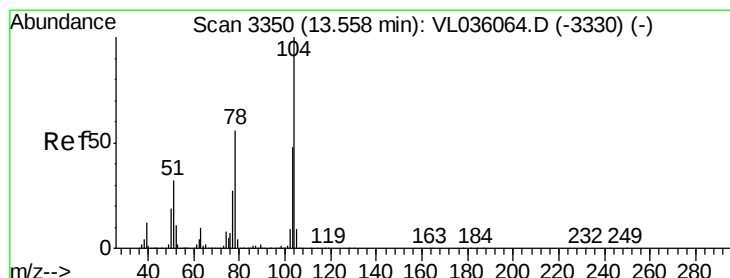
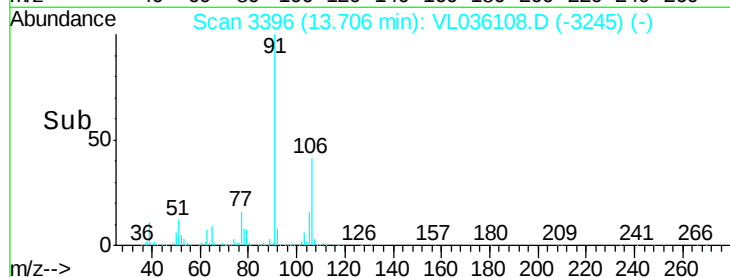
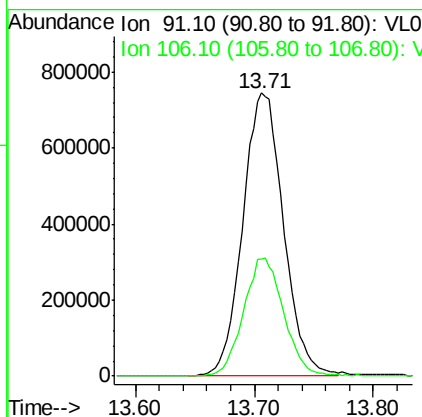
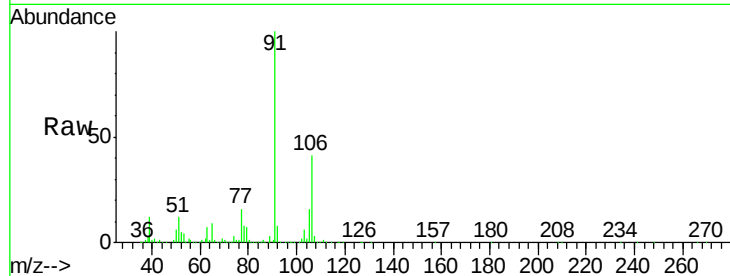
#60
o-Xylene
Concen: 6.944 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.02 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Instrument :
MSVOA_L
ClientSampled :
IA-5

Tot Ion: 91 Resp: 1754941
Ion Ratio Lower Upper
91 100
106 41.3 21.6 64.6

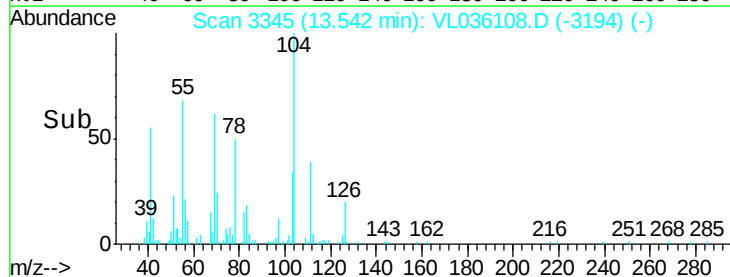
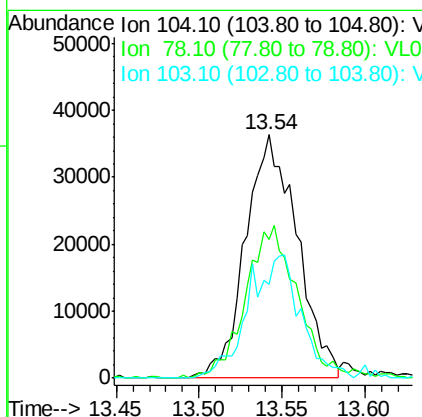
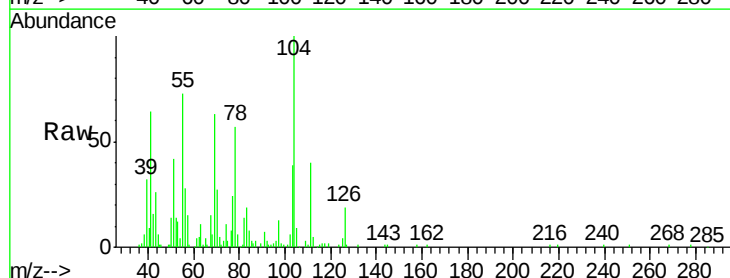
Manual Integrations
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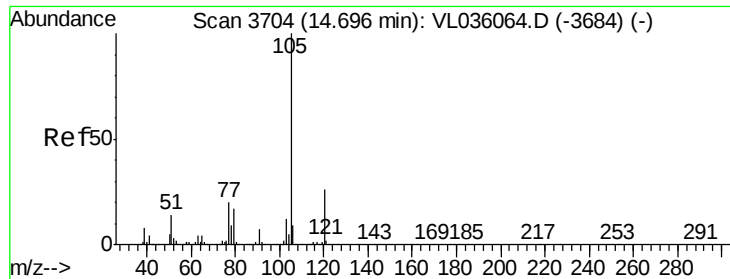
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#61
Styrene
Concen: 0.485 ppbv
RT: 13.54 min Scan# 3345
Delta R.T. -0.02 min
Lab File: VL036108.D
Acq: 8 Dec 2020 23:46

Tgt Ion: 104 Resp: 78717
Ion Ratio Lower Upper
104 100
78 64.3 45.8 68.8
103 52.7 38.6 57.8





#62

Isopropylbenzene

Concen: 0.271 ppbv

RT: 14.68 min Scan# 3699

Delta R.T. -0.02 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Instrument :

MSVOA_L

ClientSampled :

IA-5

Tot Ion:105 Resp: 101342

Ion Ratio Lower Upper

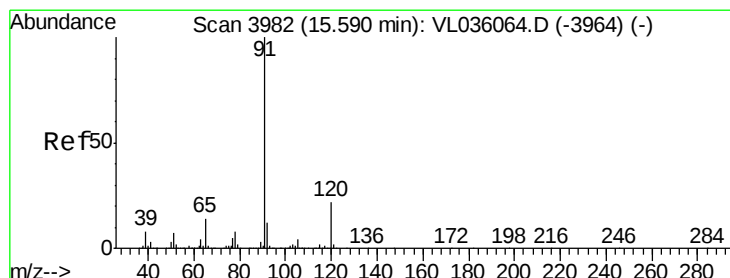
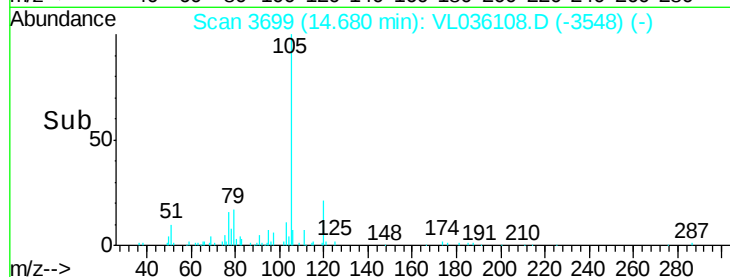
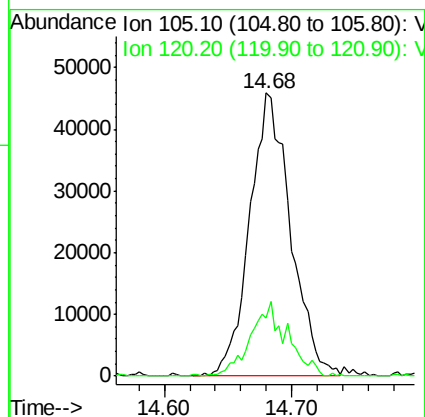
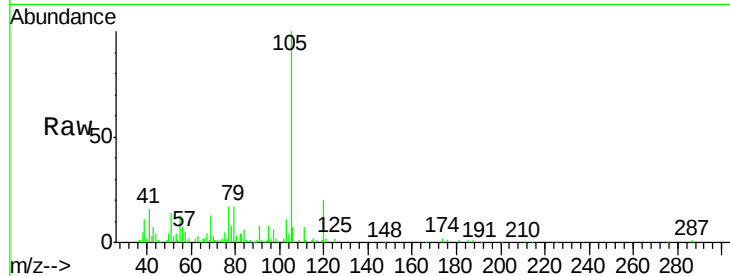
105 100

120 23.7 20.1 30.1

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#64

n-propylbenzene

Concen: 0.923 ppbv

RT: 15.58 min Scan# 3978

Delta R.T. -0.01 min

Lab File: VL036108.D

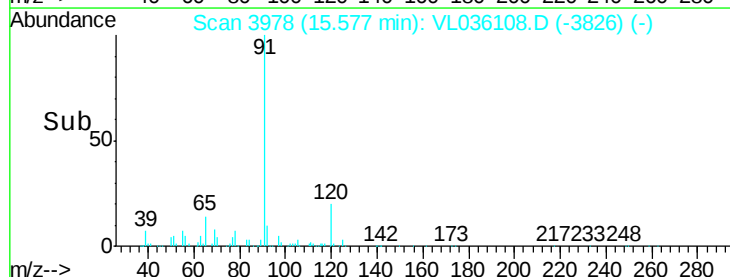
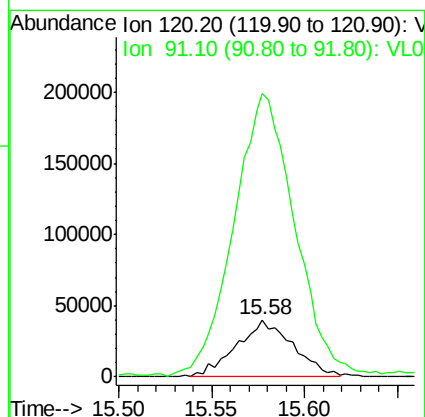
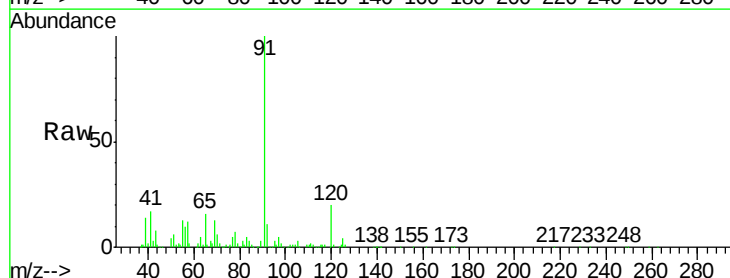
Acq: 8 Dec 2020 23:46

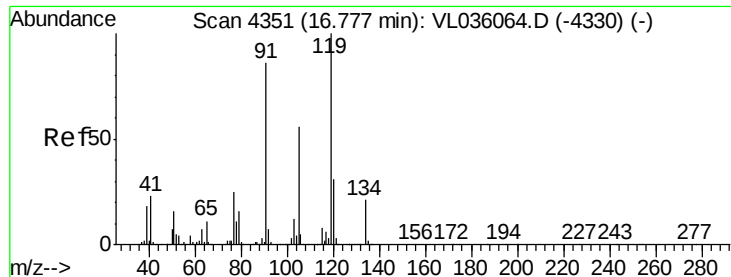
Tgt Ion:120 Resp: 83190

Ion Ratio Lower Upper

120 100

91 545.3 388.9 583.3





#65

tert-Butylbenzene

Concen: 0.396 ppbv m

RT: 16.78 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Instrument :

MSVOA_L

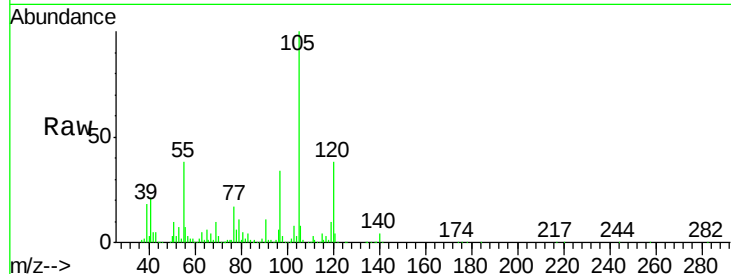
ClientSampled :

IA-5

Tot Ion	Ratio	Lower	Upper
119	100		
91	126.7	70.2	105.2#
134	0.0	15.8	23.6#

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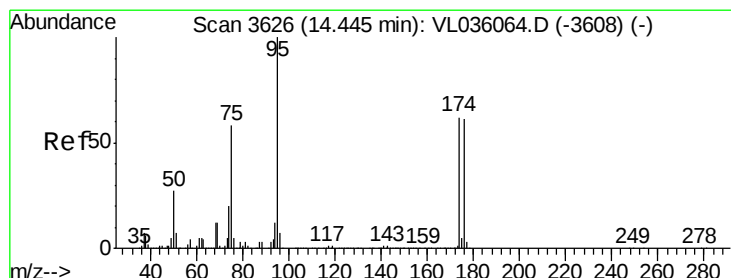
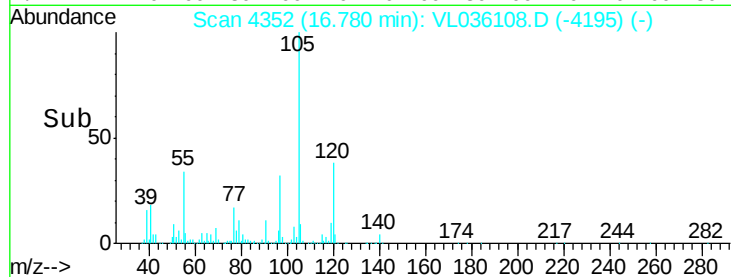
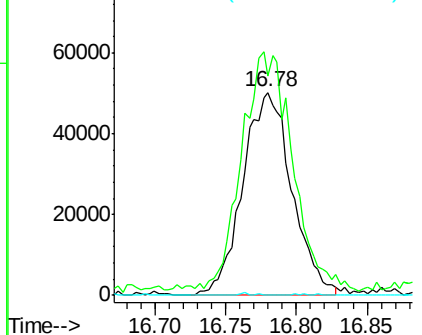
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.549 ppbv

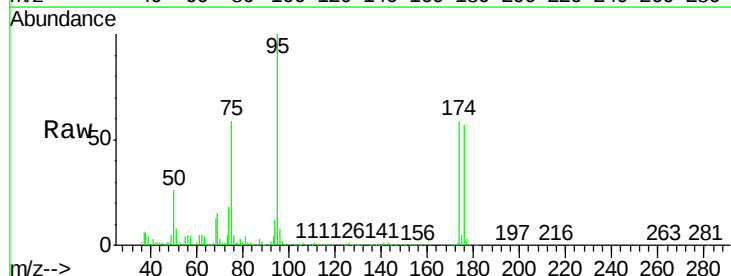
RT: 14.43 min Scan# 3621

Delta R.T. -0.02 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

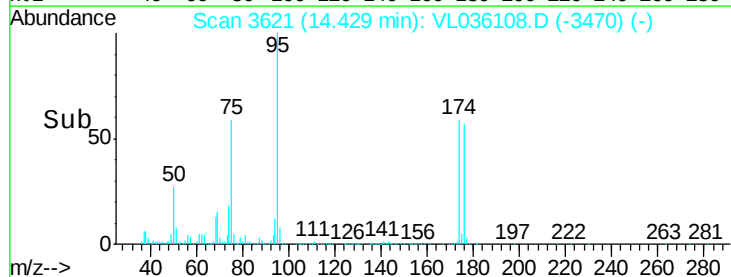
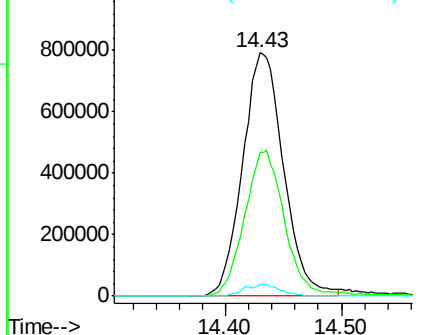
Tgt Ion	Ratio	Lower	Upper
95	100		
174	59.0	50.7	76.1
175	4.4	4.0	6.0

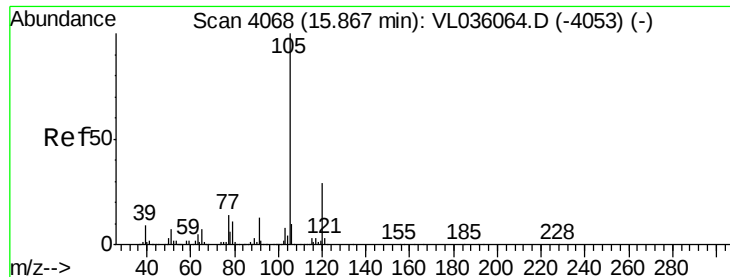


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 1.730 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. -0.01 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Instrument :

MSVOA_L

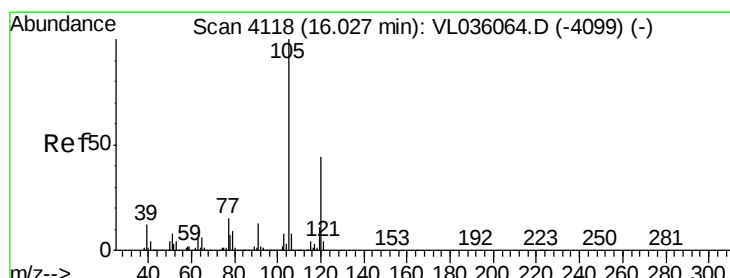
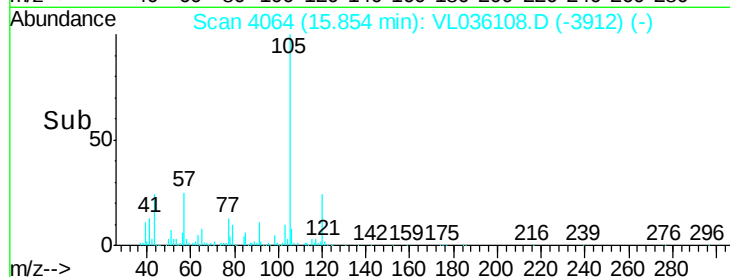
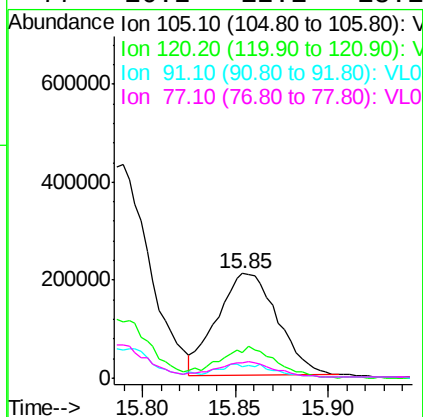
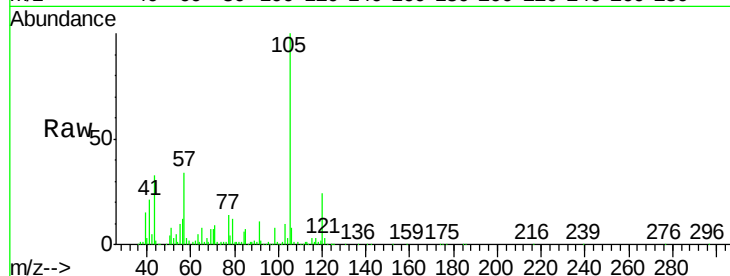
ClientSampleId :

IA-5

Tot Ion:	105	Resp:	473611
Ion Ratio		Lower	Upper
105	100		
120	30.4	23.6	35.4
91	12.6	11.4	17.0
77	16.2	12.1	18.1

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#73

1,3,5-Trimethylbenzene

Concen: 1.672 ppbv

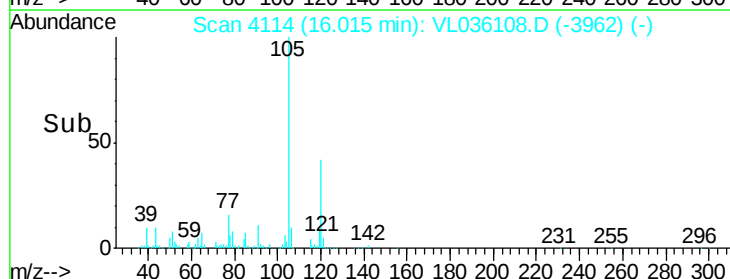
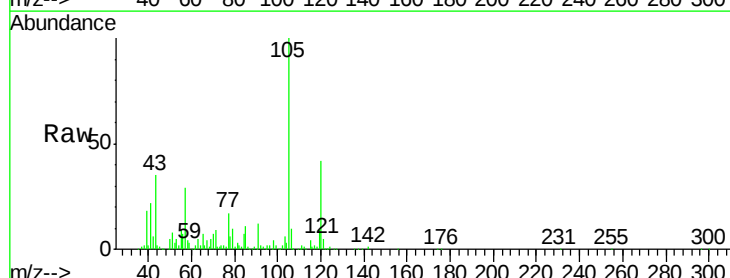
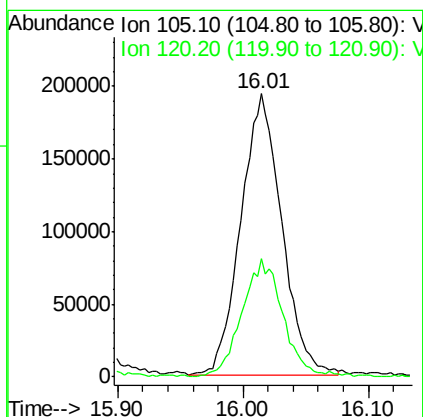
RT: 16.01 min Scan# 4114

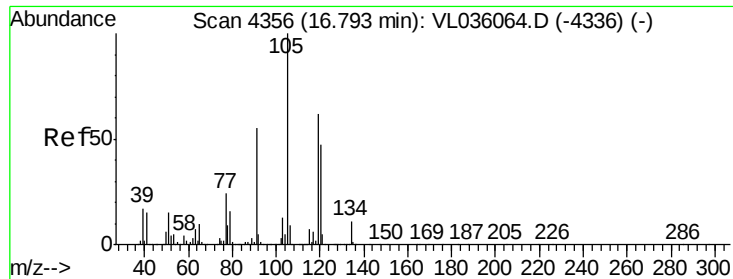
Delta R.T. -0.01 min

Lab File: VL036108.D

Acq: 8 Dec 2020 23:46

Tgt Ion:	105	Resp:	437032
Ion Ratio		Lower	Upper
105	100		
120	41.9	35.4	53.2





#74
 1,2,4-Trimethylbenzene
 Concen: 4.469 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL036108.D
 Acq: 8 Dec 2020 23:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

Tot Ion	Ratio	Resp	Lower	Upper
105	100	1172890		
120	38.2		37.4	56.0
91	10.8		45.6	68.4#
77	16.4		19.4	29.2#

Manual Integrations
 APPROVED

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