

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035889.D
 Acq On : 6 Nov 2020 10:43
 Operator : SY/AP
 Sample : L4618-04 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-1

Manual Integrations
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 11/9/2020 10:48:35 AM

Quant Time: Nov 06 23:57:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	956993	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3546813	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3471343	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2550125	10.34	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	31336	0.174	ppbv	96
3) Chlorodifluoromethane	2.97	51	21436	0.187	ppbv	95
4) Chloromethane	3.12	50	14985	0.269	ppbv	89
5) Vinyl Chloride	3.24	62	2214	0.031	ppbv	96
9) Propene	3.00	41	43296	1.032	ppbv	98
10) Heptane	8.11	43	14012m	0.121	ppbv	
11) Trichlorofluoromethane	3.93	101	28747	0.127	ppbv #	81
13) Ethanol	3.60	45	54517	5.991	ppbv	97
15) Acetone	3.83	43	14369506	140.449	ppbv #	77
17) tert-Butyl alcohol	4.29	59	89690	0.661	ppbv #	89
20) Methylene Chloride	4.33	84	130494	1.812	ppbv	96
26) Hexane	5.66	57	58687	0.528	ppbv #	45
29) Chloroform	5.74	83	28035	0.128	ppbv	93
30) Cyclohexane	7.11	84	36730m	0.303	ppbv	
34) 2-Butanone	5.23	43	42802	0.372	ppbv	97
35) Carbon Tetrachloride	7.00	117	6187	0.033	ppbv #	92
36) Benzene	6.88	78	148401	0.563	ppbv	92
44) 2,2,4-Trimethylpentane	7.85	57	45389	0.130	ppbv #	70
50) 4-Methyl-2-Pentanone	8.74	43	17800m	0.101	ppbv	
52) Tetrachloroethene	11.20	164	7728m	0.062	ppbv	
53) Toluene	9.79	91	12533274	39.392	ppbv	86
58) Ethyl Benzene	12.69	91	108251	0.256	ppbv	92
59) m/p-Xylene	12.95	91	201747	0.564	ppbv	99
60) o-Xylene	13.67	91	74033	0.213	ppbv	99
62) Isopropylbenzene	14.65	105	1641739	3.002	ppbv	95
74) 1,2,4-Trimethylbenzene	16.74	105	51553	0.125	ppbv #	63

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

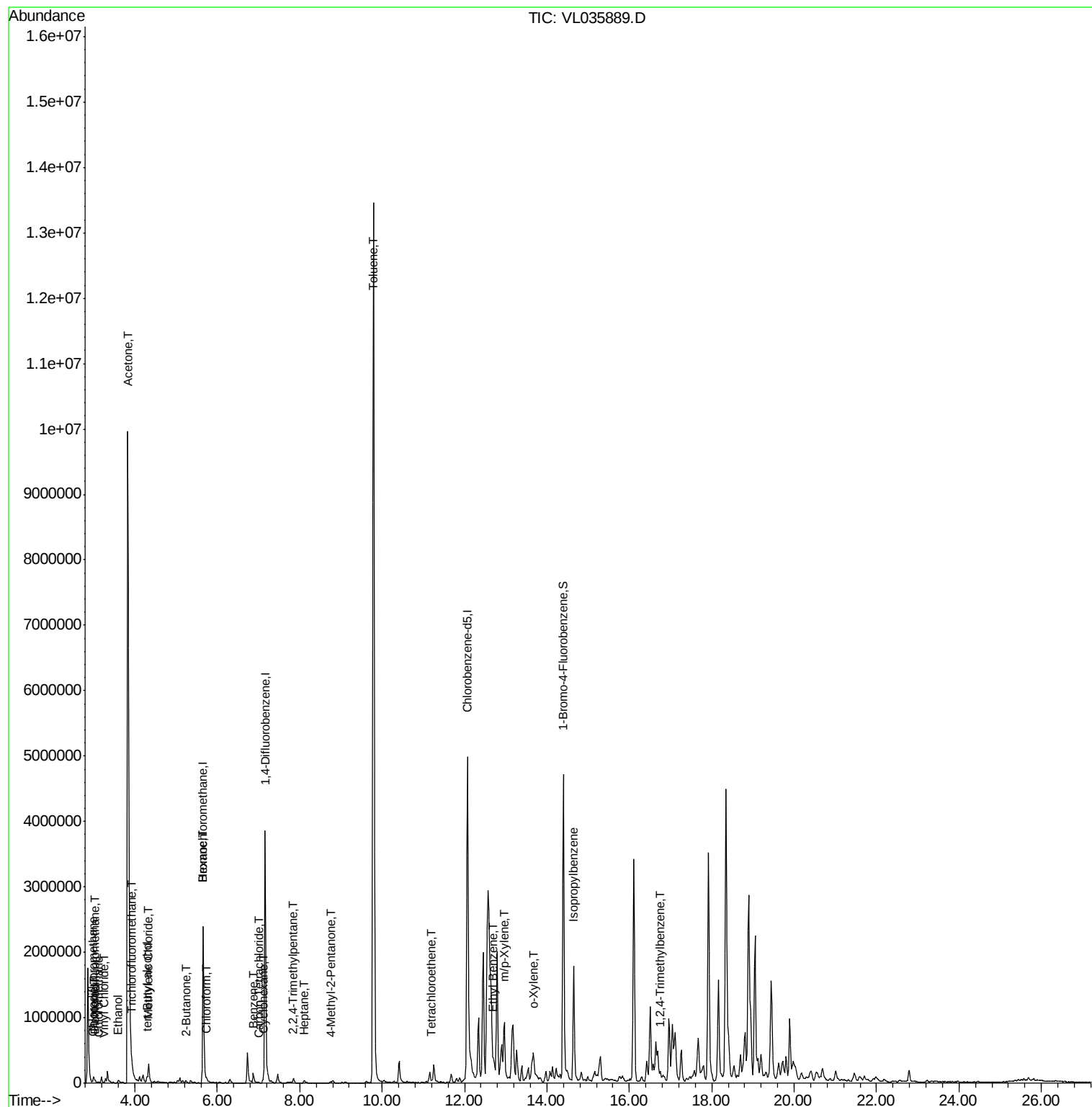
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110520\
Data File : VL035889.D
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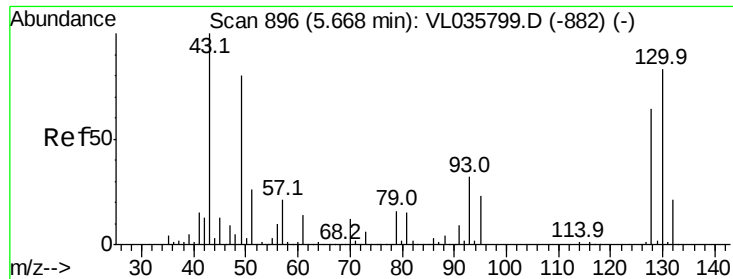
Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Manual Integrations
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11/9/2020 10:48:35 AM

Quant Time: Nov 06 23:57:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL035889.D

Acq: 6 Nov 2020 10:43

Instrument :

MSVOA_L

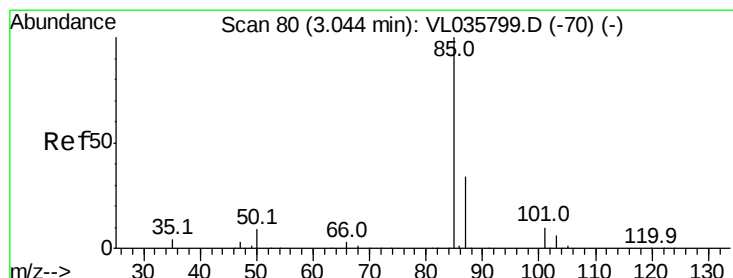
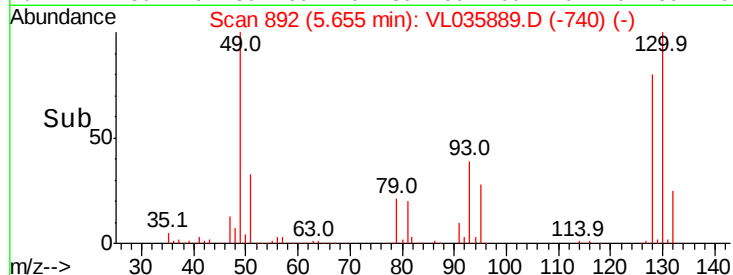
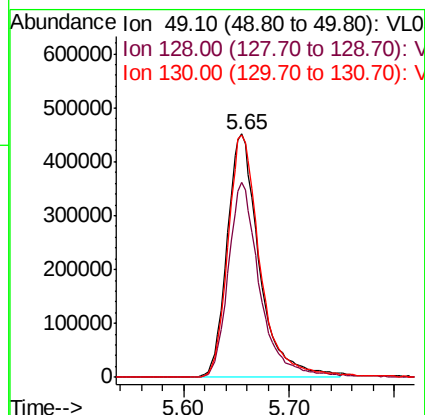
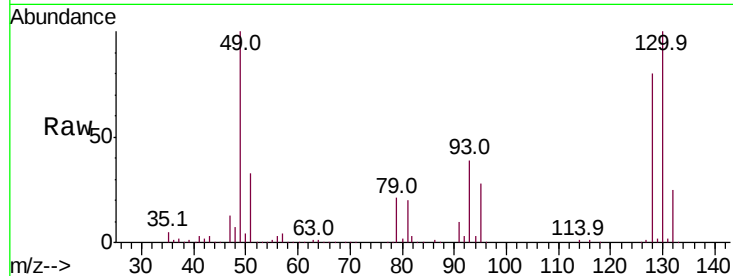
ClientSampled :

SSSG-1

Tot Ion: 49 Resp: 956993
 Ion Ratio Lower Upper
 49 100
 128 79.0 41.5 124.6
 130 100.5 53.7 161.1

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#2

Dichlorodifluoromethane

Concen: 0.174 ppbv

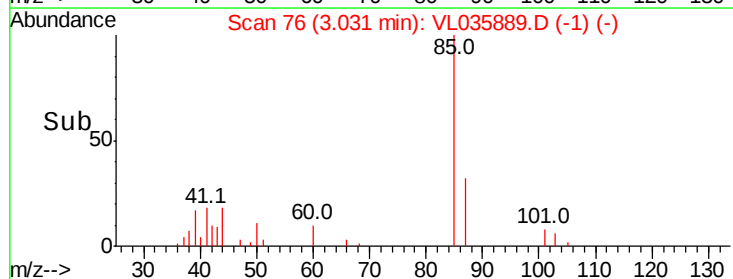
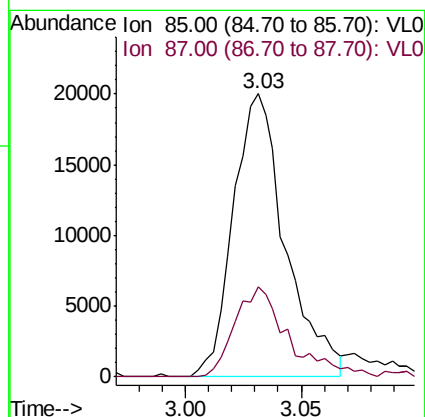
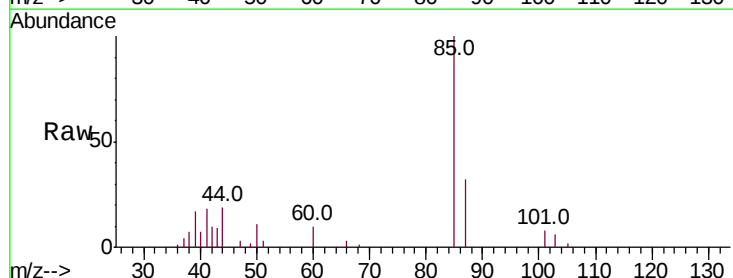
RT: 3.03 min Scan# 76

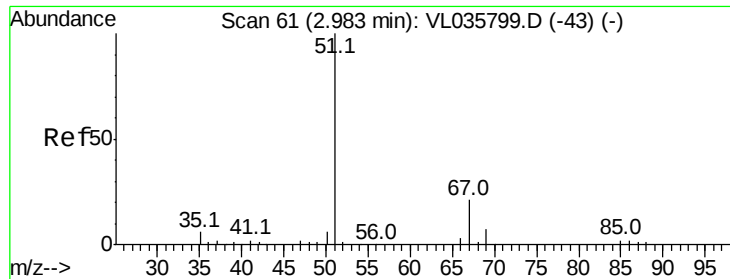
Delta R.T. -0.01 min

Lab File: VL035889.D

Acq: 6 Nov 2020 10:43

Tgt Ion: 85 Resp: 31336
 Ion Ratio Lower Upper
 85 100
 87 31.9 27.1 40.7





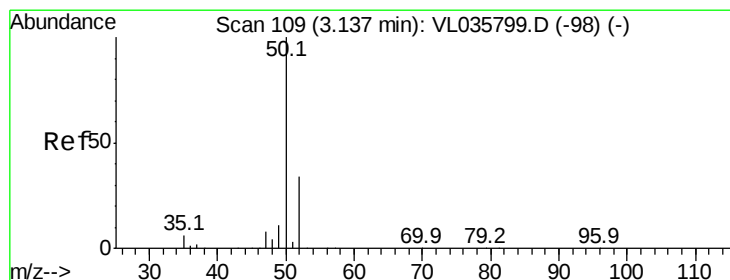
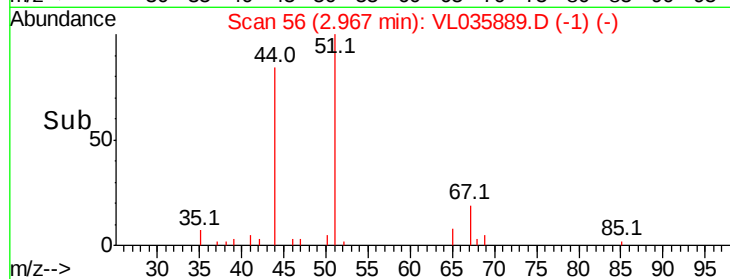
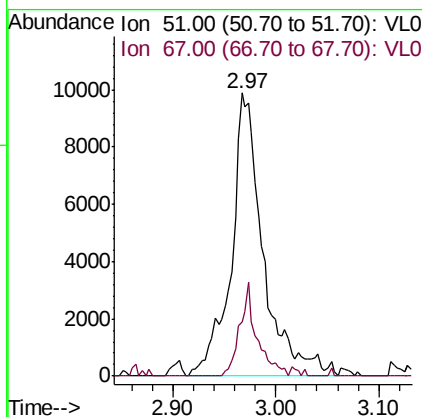
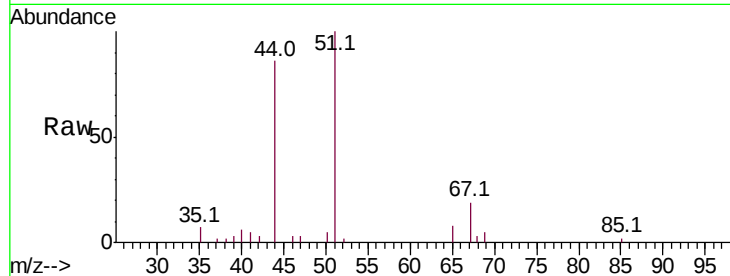
#3
 Chlorodifluoromethane
 Concen: 0.187 ppbv
 RT: 2.97 min Scan# 56
 Delta R.T. -0.02 min
 Lab File: VL035889.D
 Acq: 6 Nov 2020 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-1

Tot Ion: 51 Resp: 21436
 Ion Ratio Lower Upper
 51 100
 67 18.7 17.0 25.4

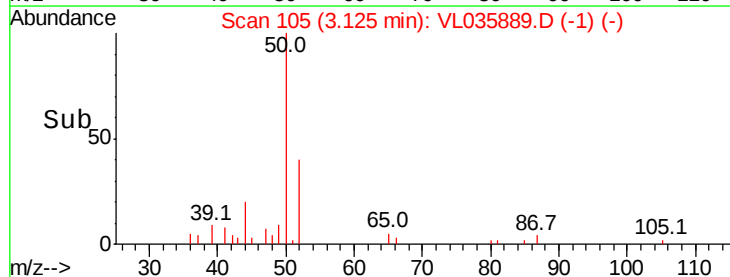
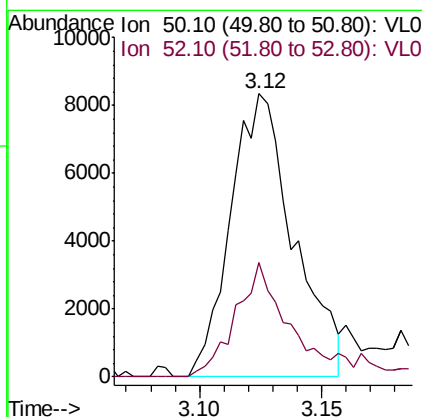
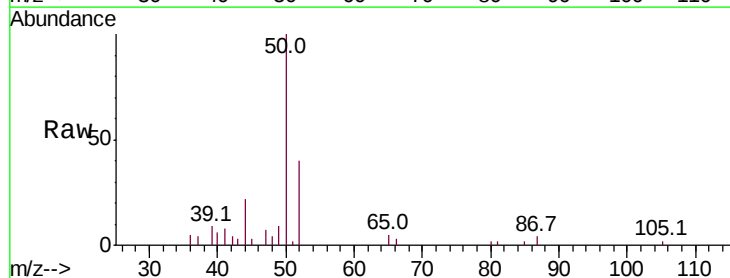
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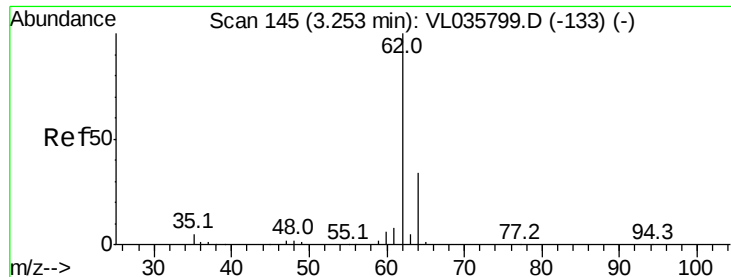
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#4
 Chloromethane
 Concen: 0.269 ppbv
 RT: 3.12 min Scan# 105
 Delta R.T. -0.01 min
 Lab File: VL035889.D
 Acq: 6 Nov 2020 10:43

Tgt Ion: 50 Resp: 14985
 Ion Ratio Lower Upper
 50 100
 52 40.2 27.1 40.7





#5

Vinyl Chloride

Concen: 0.031 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.01 min

Lab File: VL035889.D

Acq: 6 Nov 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

SSSG-1

Tot Ion: 62 Resp: 2214

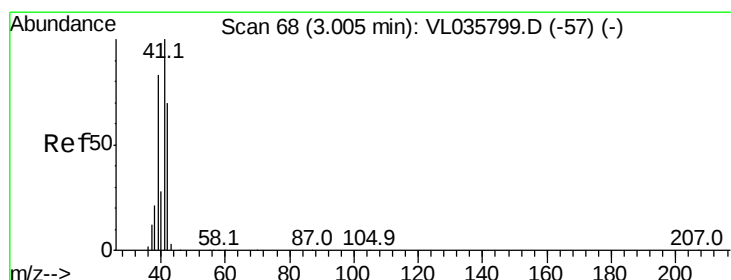
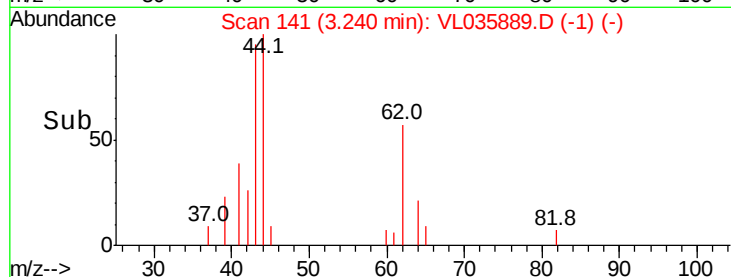
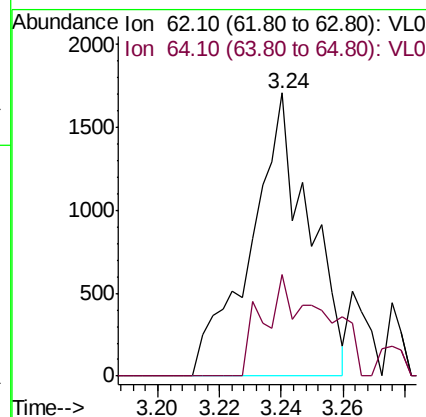
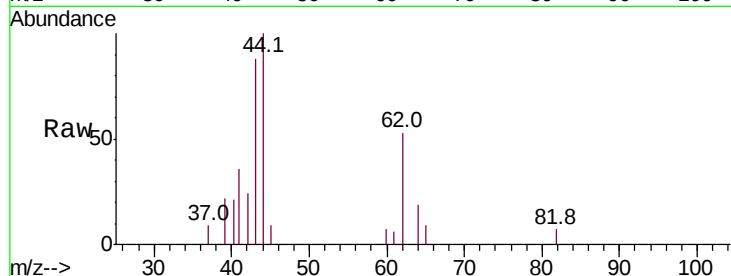
Ion Ratio Lower Upper

62 100

64 36.0 26.9 40.3

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#9

Propene

Concen: 1.032 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035889.D

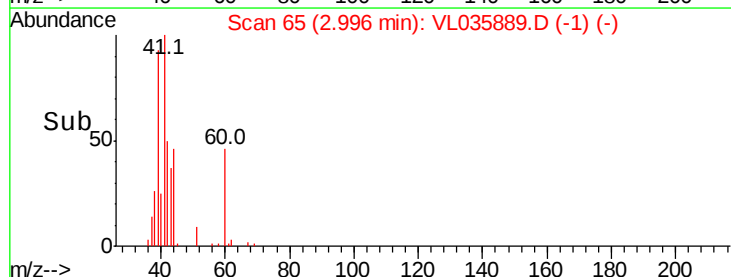
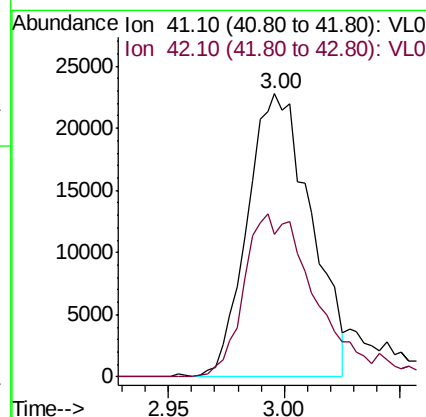
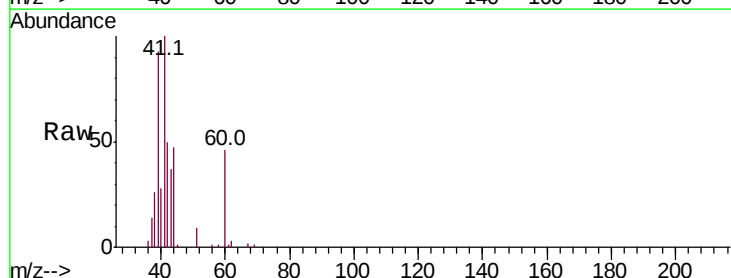
Acq: 6 Nov 2020 10:43

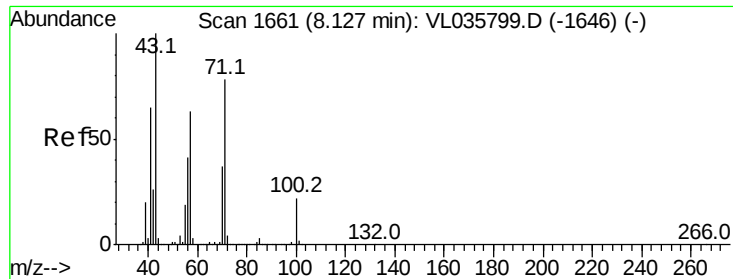
Tgt Ion: 41 Resp: 43296

Ion Ratio Lower Upper

41 100

42 68.6 56.2 84.4





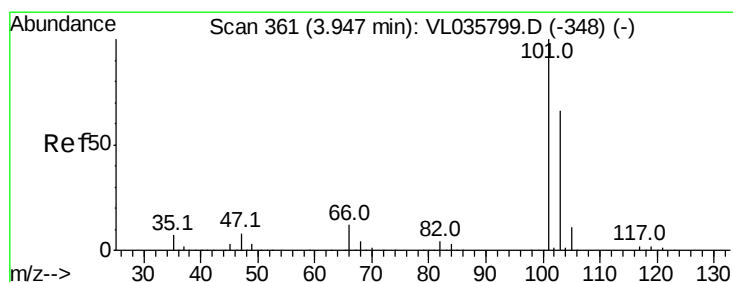
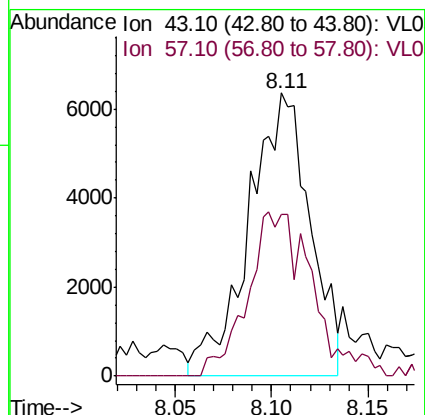
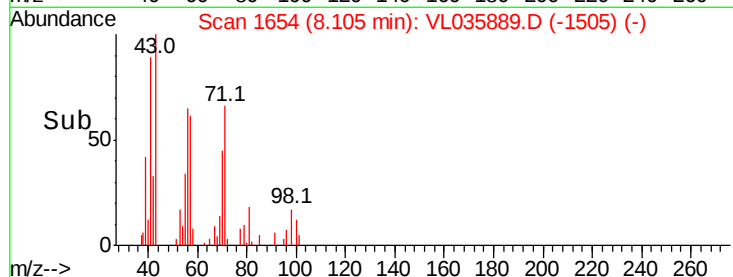
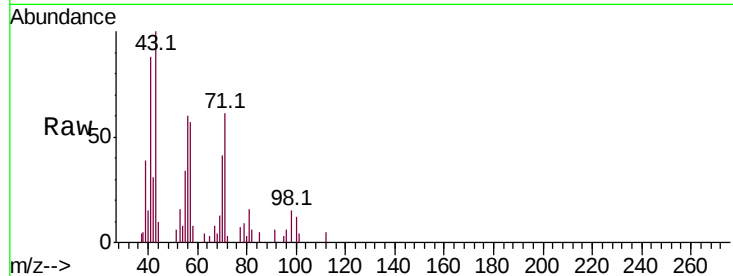
#10
Heptane
Concen: 0.121 ppbv m
RT: 8.11 min Scan# 1654
Delta R.T. -0.02 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion: 43 Resp: 14012
Ion Ratio Lower Upper
43 100
57 0.0 50.0 75.0#

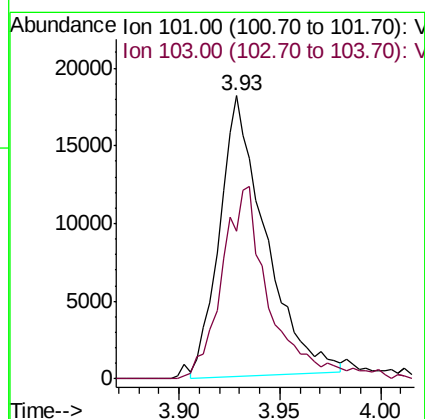
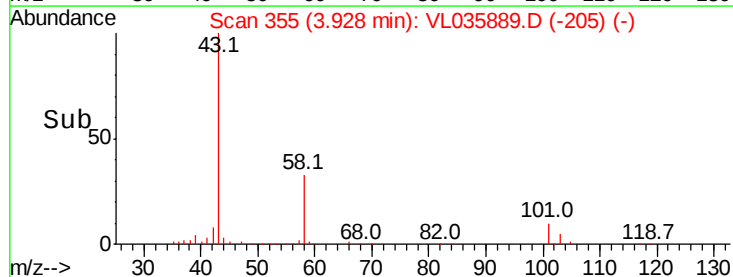
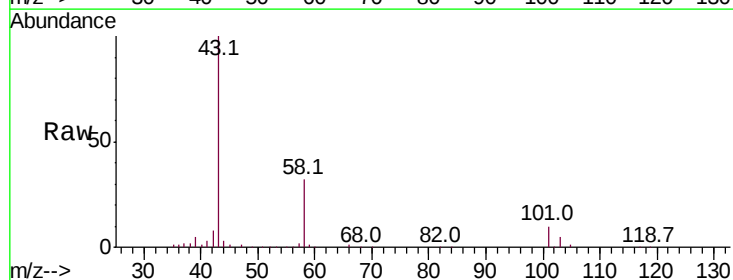
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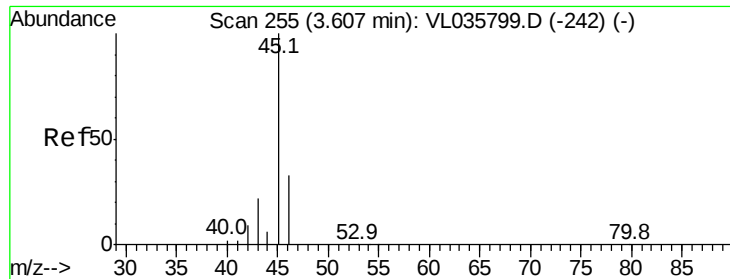
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#11
Trichlorofluoromethane
Concen: 0.127 ppbv
RT: 3.93 min Scan# 355
Delta R.T. -0.02 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Tgt Ion: 101 Resp: 28747
Ion Ratio Lower Upper
101 100
103 51.2 53.0 79.4#





#13

Ethanol

Concen: 5.991 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL035889.D

Acq: 6 Nov 2020 10:43

Instrument :

MSVOA_L

ClientSampled :

SSSG-1

Tot Ion: 45 Resp: 54517

Ion Ratio Lower Upper

45 100

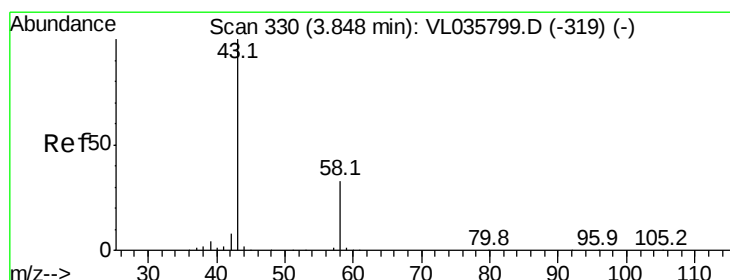
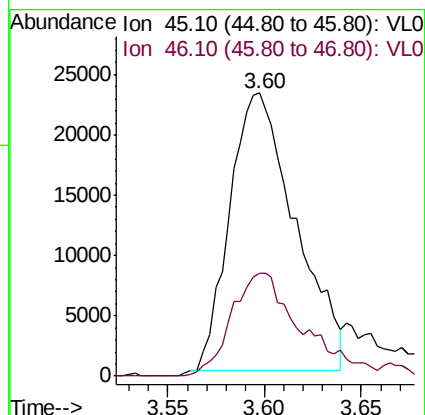
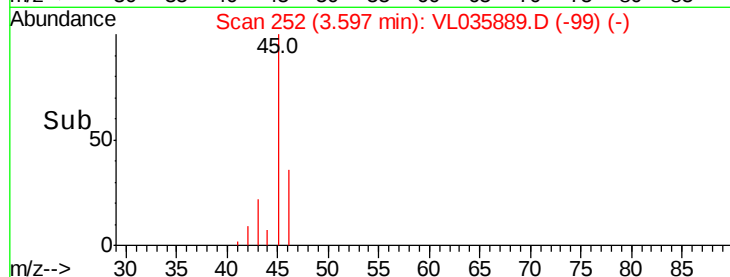
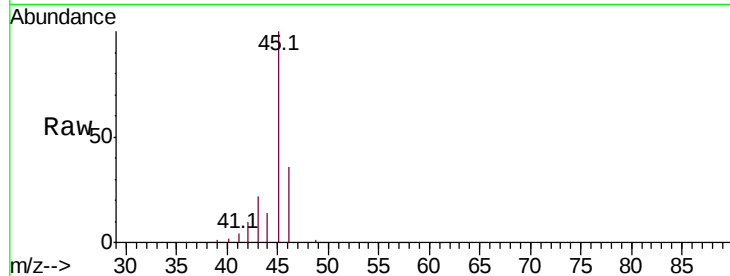
46 42.0 16.1 64.5

Manual Integrations

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#15

Acetone

Concen: 140.449 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL035889.D

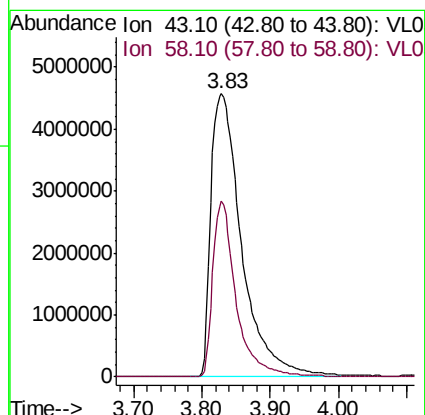
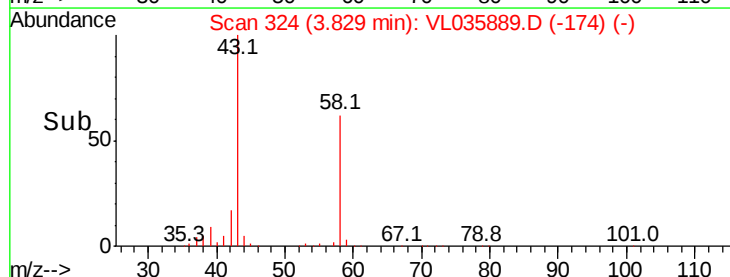
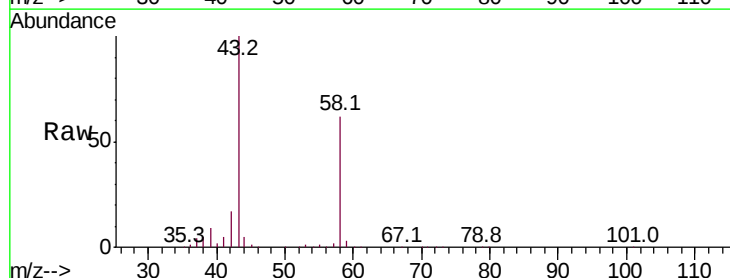
Acq: 6 Nov 2020 10:43

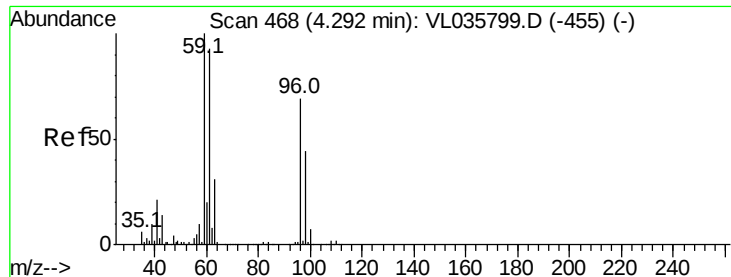
Tgt Ion: 43 Resp: 14369506

Ion Ratio Lower Upper

43 100

58 47.4 27.5 41.3#





#17

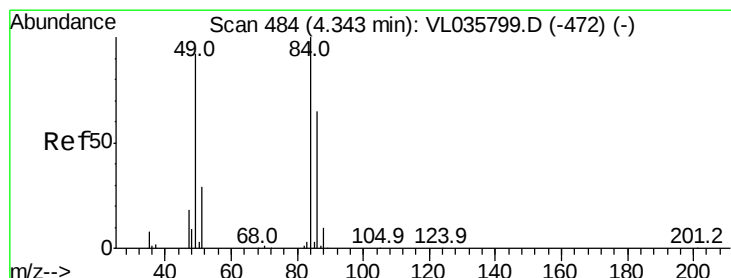
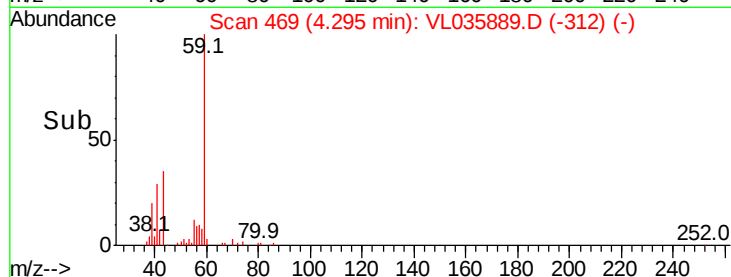
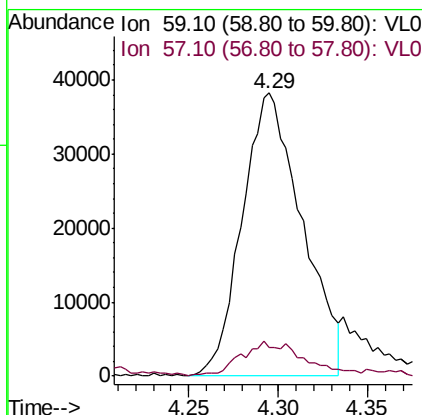
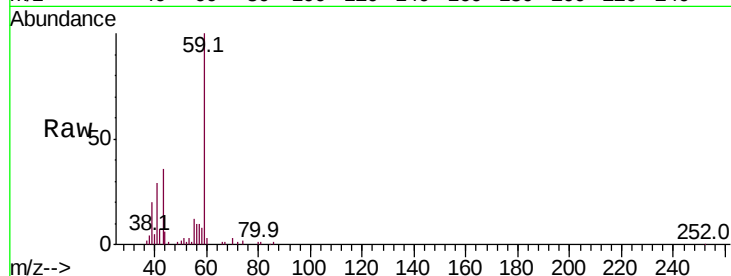
tert-Butyl alcohol
Concen: 0.661 ppbv
RT: 4.29 min Scan# 469
Delta R.T. 0.00 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion	Ratio	Lower	Upper
59	100		
57	14.4	8.2	12.4#

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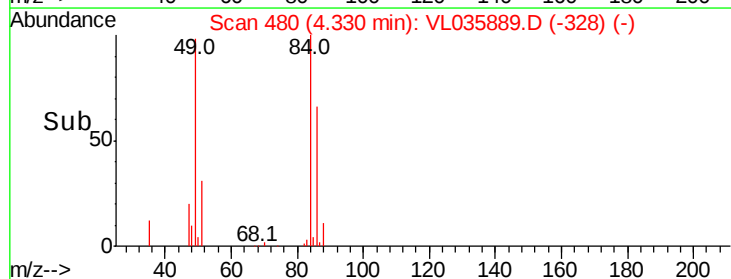
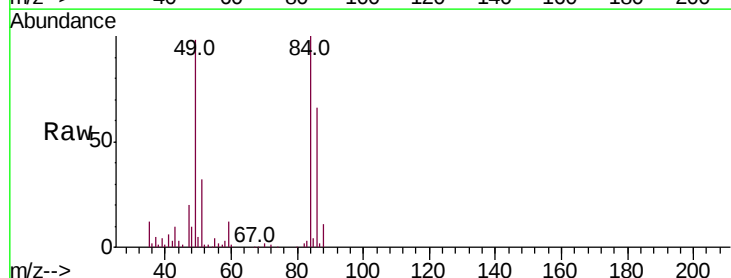
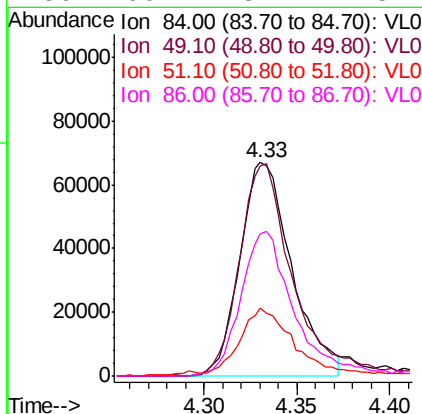
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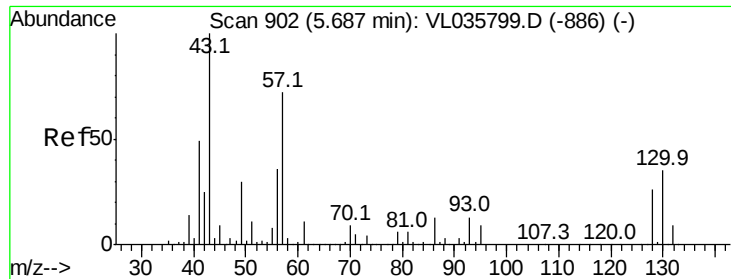


#20

Methylene Chloride
Concen: 1.812 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	97.9	73.8	110.8
51	29.8	23.0	34.4
86	66.4	52.1	78.1





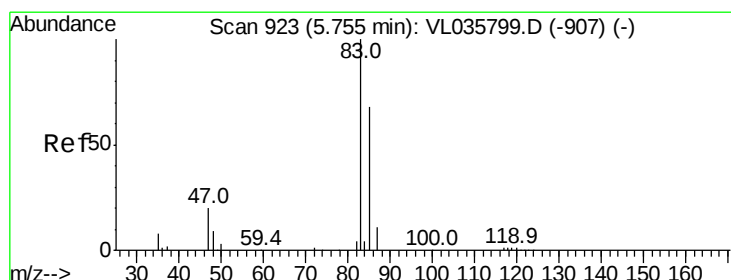
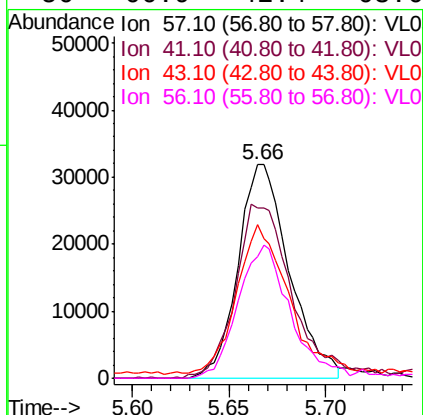
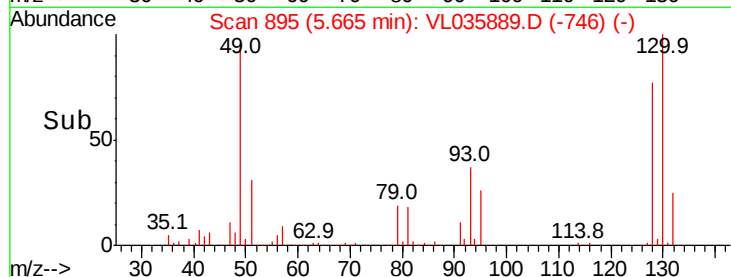
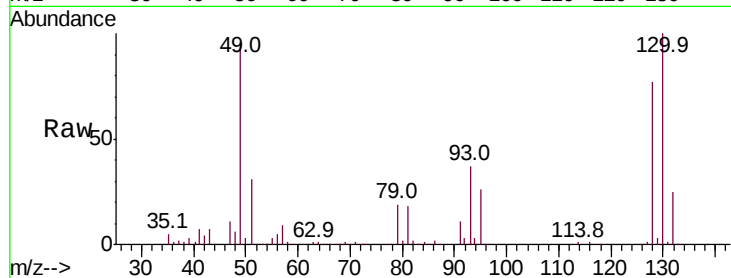
#26
Hexane
Concen: 0.528 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion: 57 Resp: 58687
Ion Ratio Lower Upper
57 100
41 91.4 58.9 88.3#
43 73.0 150.2 225.2#
56 66.9 42.4 63.6#

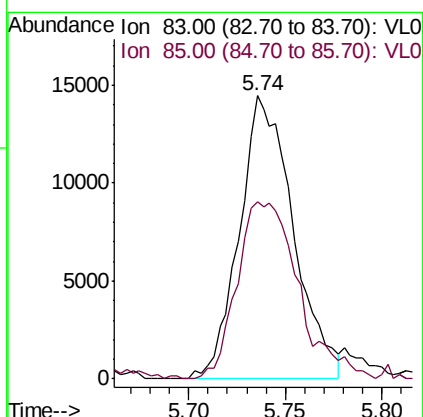
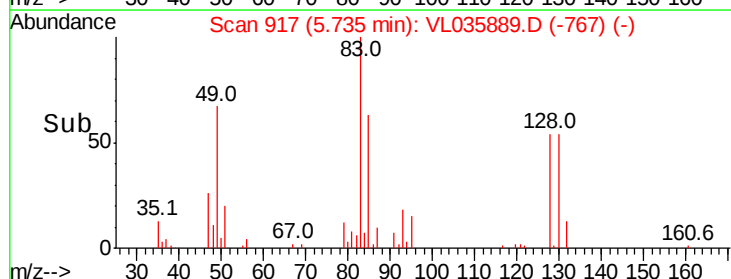
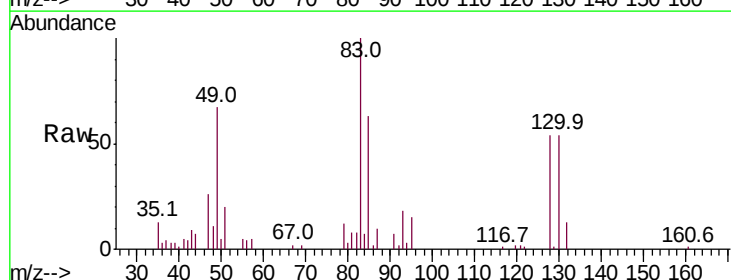
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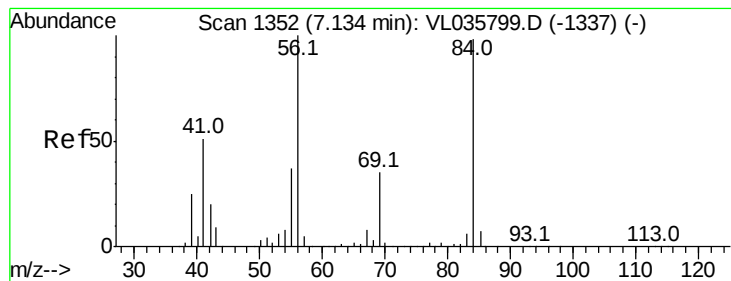
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#29
Chloroform
Concen: 0.128 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.02 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Tgt Ion: 83 Resp: 28035
Ion Ratio Lower Upper
83 100
85 62.6 54.6 81.8





#30

Cyclohexane

Concen: 0.303 ppbv m

RT: 7.11 min Scan# 1346

Delta R.T. -0.02 min

Lab File: VL035889.D

Acq: 6 Nov 2020 10:43

Instrument :

MSVOA_L

ClientSampled :

SSSG-1

Tot Ion: 84 Resp: 36730

Ion Ratio Lower Upper

84 100

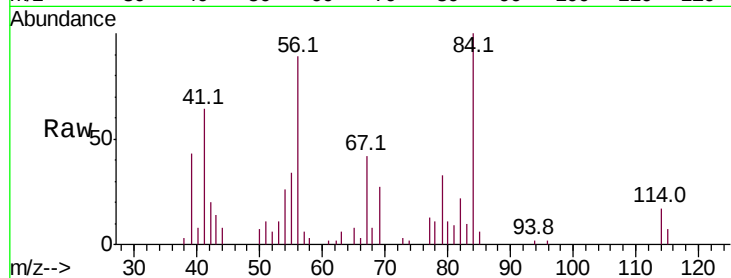
56 45.7 86.4 129.6#

41 34.3 42.1 63.1#

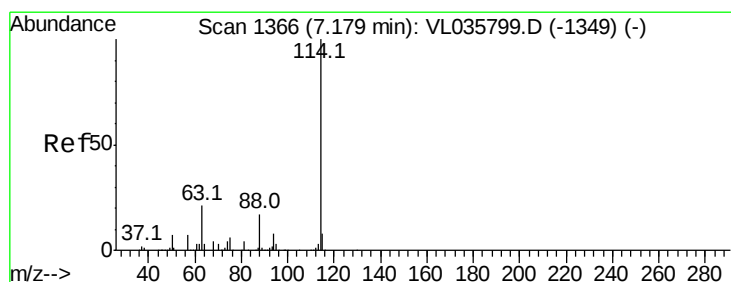
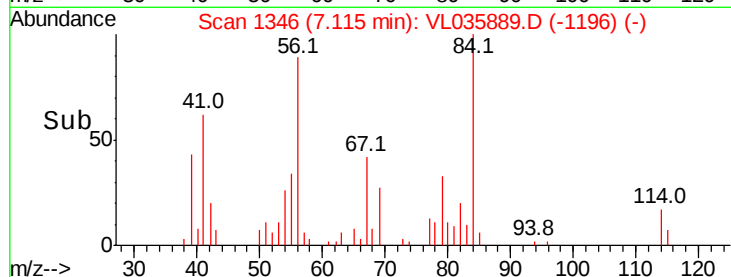
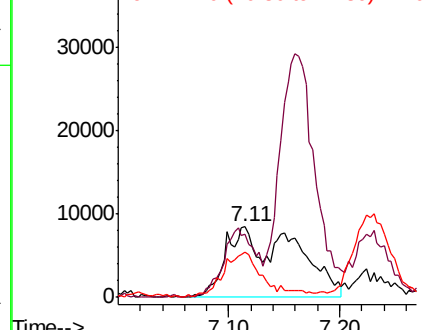
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Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.02 min

Lab File: VL035889.D

Acq: 6 Nov 2020 10:43

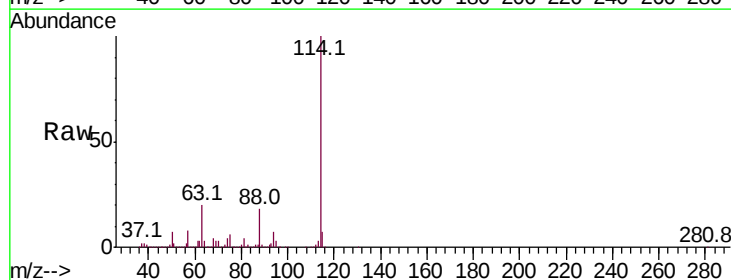
Tgt Ion: 114 Resp: 3546813

Ion Ratio Lower Upper

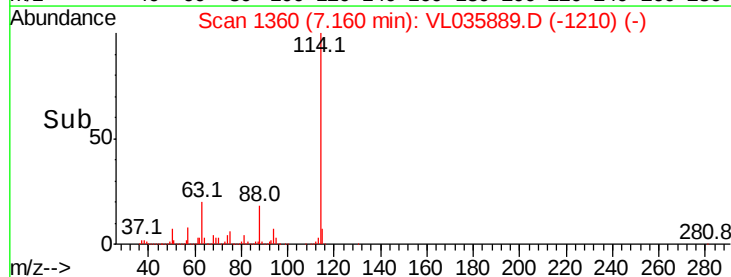
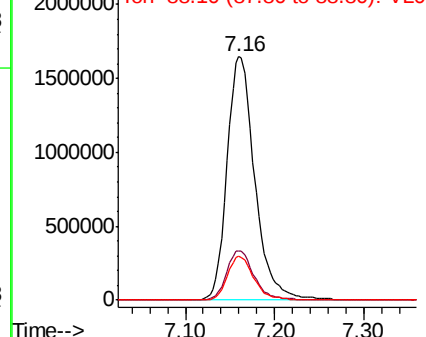
114 100

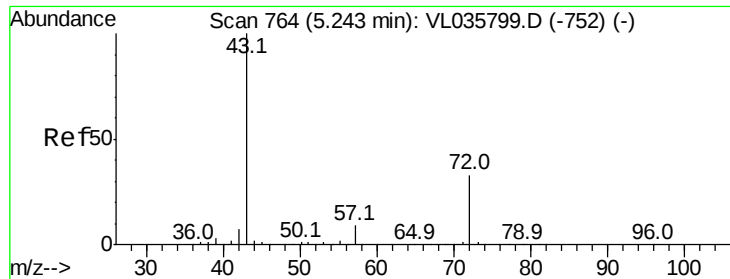
63 20.3 16.1 24.1

88 17.3 13.7 20.5



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





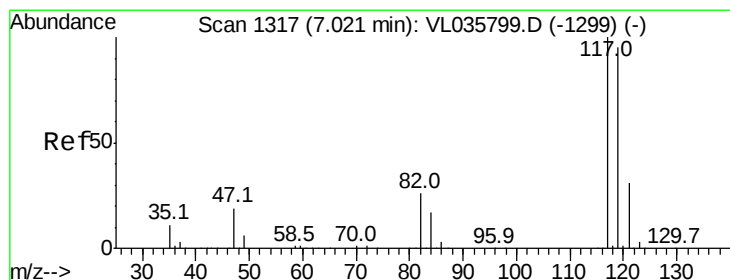
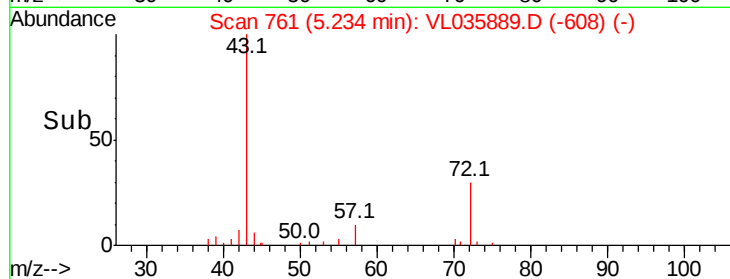
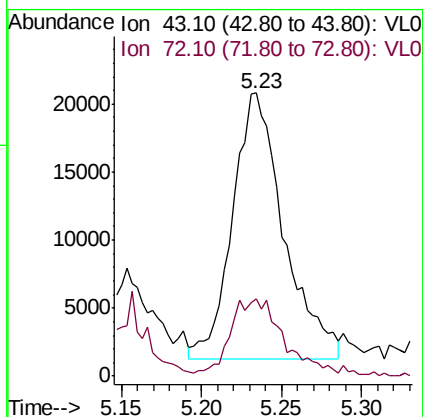
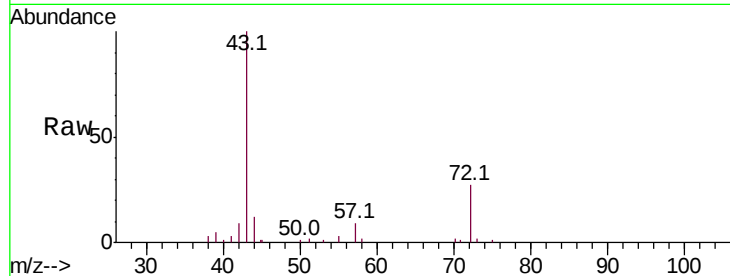
#34
2-Butanone
Concen: 0.372 ppbv
RT: 5.23 min Scan# 761
Delta R.T. -0.01 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Instrument :
MSVOA_L
ClientSampled :
SSSG-1

Tot Ion: 43 Resp: 42802
Ion Ratio Lower Upper
43 100
72 31.6 26.5 39.7

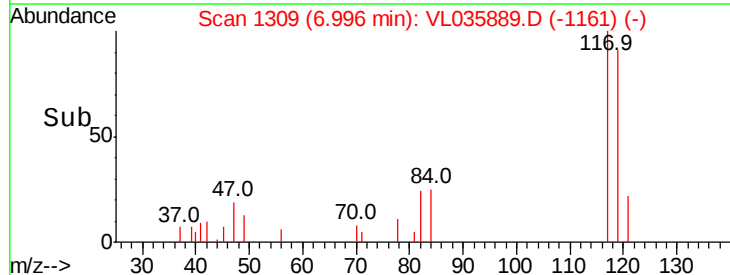
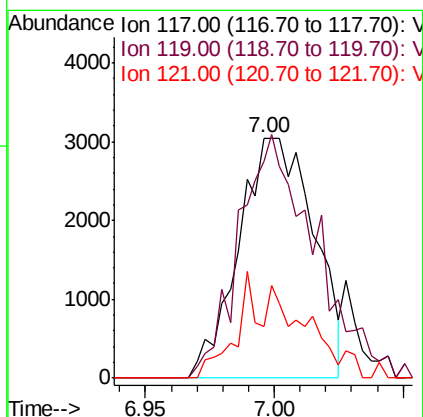
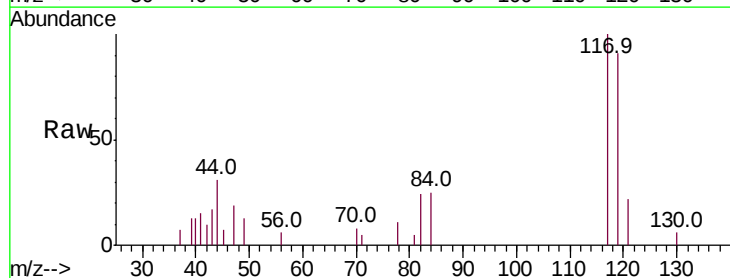
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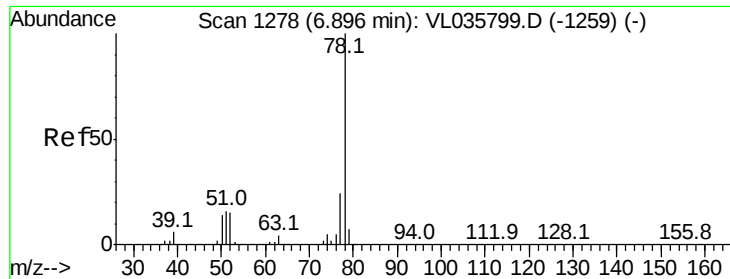
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 7.00 min Scan# 1309
Delta R.T. -0.03 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Tgt Ion: 117 Resp: 6187
Ion Ratio Lower Upper
117 100
119 90.5 75.6 113.4
121 21.5 25.1 37.7#





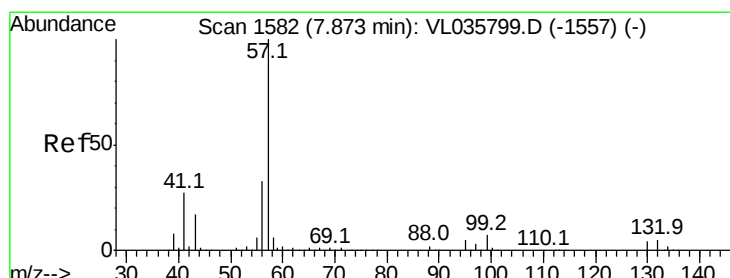
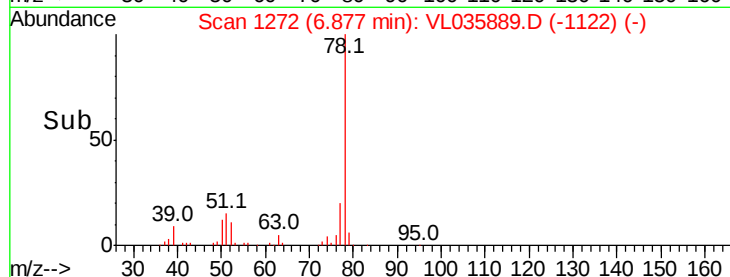
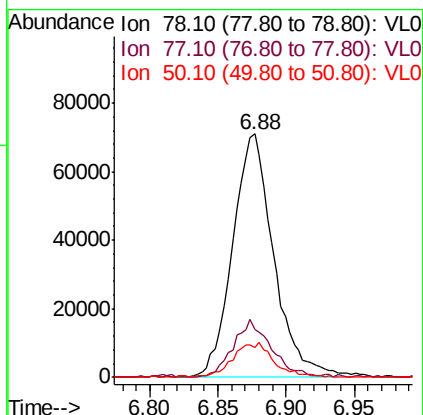
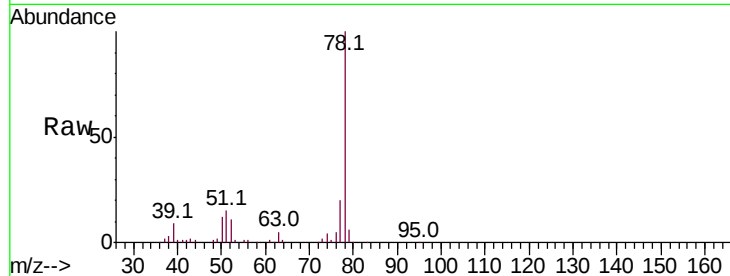
#36
Benzene
Concen: 0.563 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.6	19.3	28.9
50	12.2	11.4	17.2

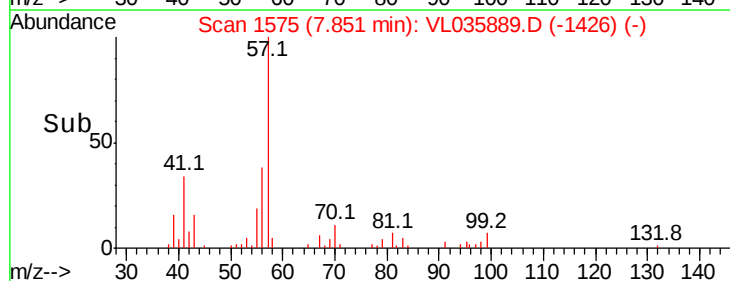
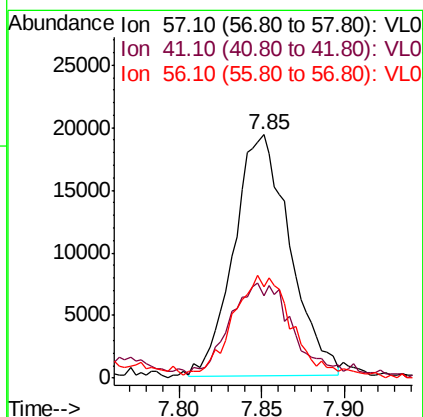
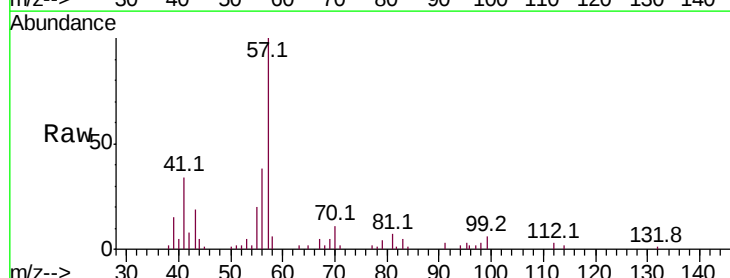
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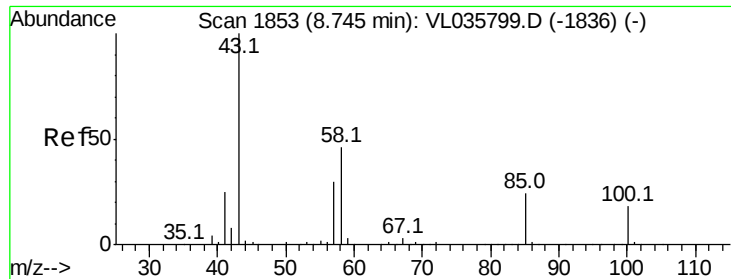
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.130 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. -0.02 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	43.4	21.0	31.4#
56	46.2	25.4	38.0#





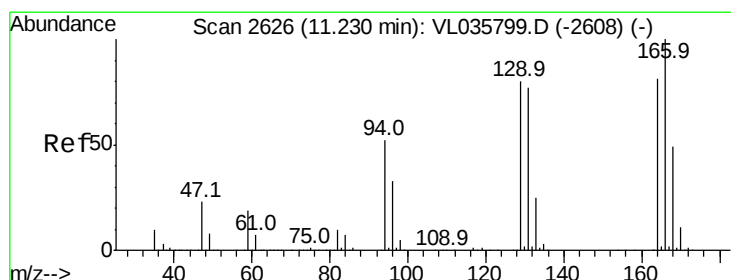
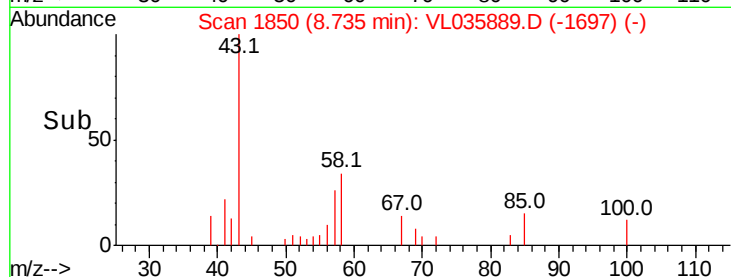
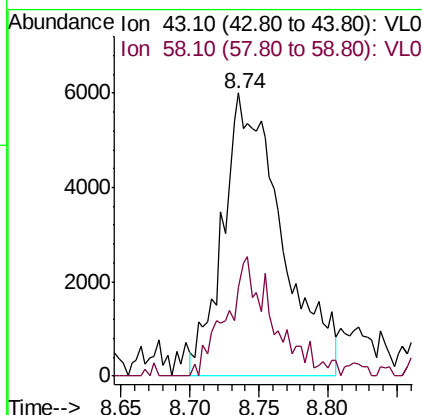
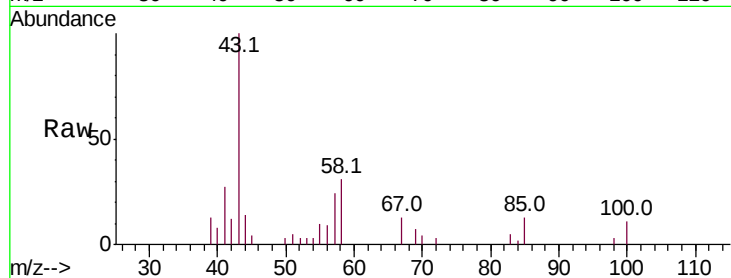
#50
4-Methyl-2-Pentanone
Concen: 0.101 ppbv m
RT: 8.74 min Scan# 1850
Delta R.T. -0.01 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion: 43 Resp: 17800
Ion Ratio Lower Upper
43 100
58 0.0 36.0 54.0#

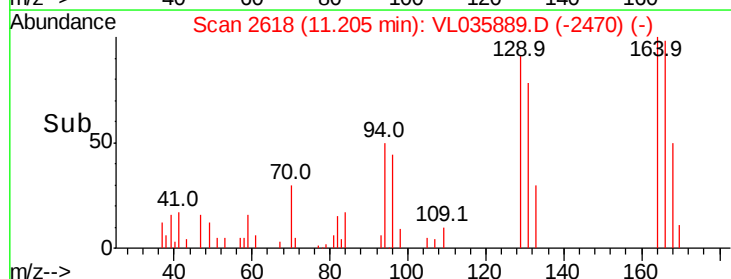
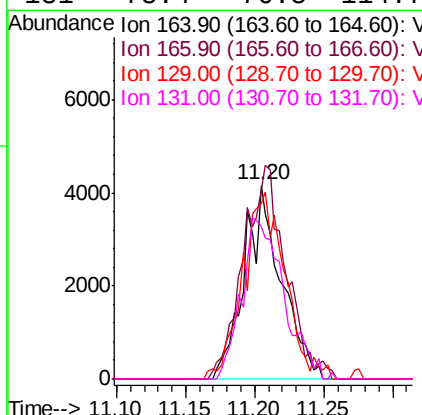
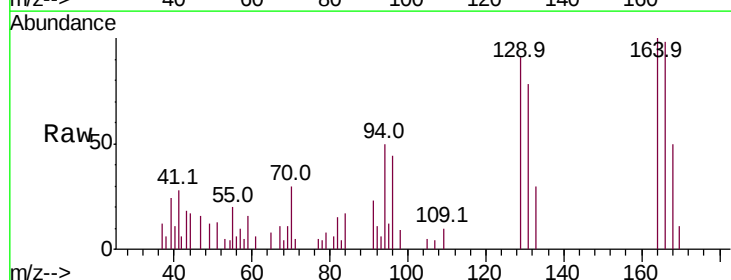
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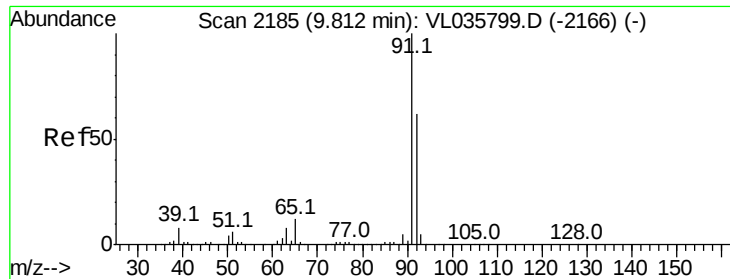
MMDadoda
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#52
Tetrachloroethene
Concen: 0.062 ppbv m
RT: 11.20 min Scan# 2618
Delta R.T. -0.03 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Tgt Ion: 164 Resp: 7728
Ion Ratio Lower Upper
164 100
166 97.7 99.3 148.9#
129 90.8 79.3 118.9
131 78.4 76.5 114.7





#53

Toluene

Concen: 39.392 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.02 min

Lab File: VL035889.D

Acq: 6 Nov 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

SSSG-1

Tot Ion: 91 Resp: 12533274

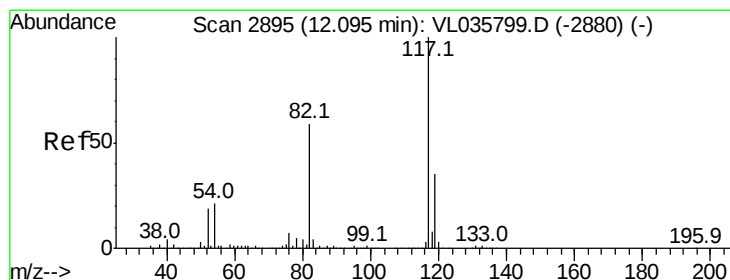
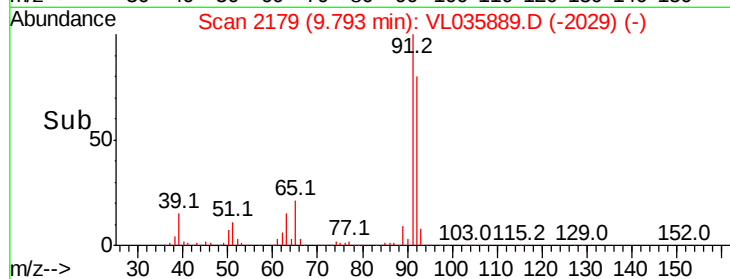
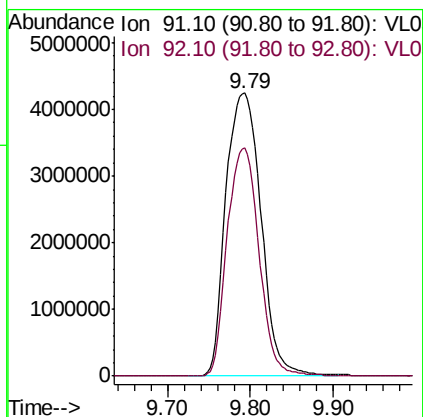
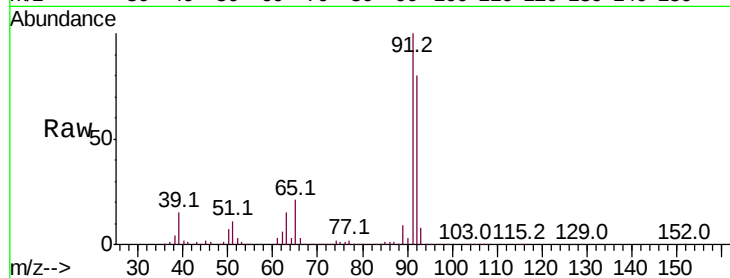
Ion Ratio Lower Upper

91 100

92 73.3 49.8 74.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.03 min

Lab File: VL035889.D

Acq: 6 Nov 2020 10:43

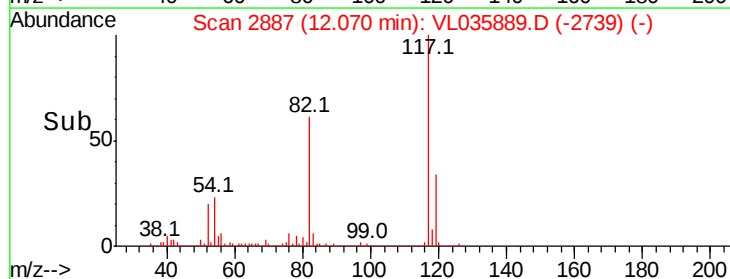
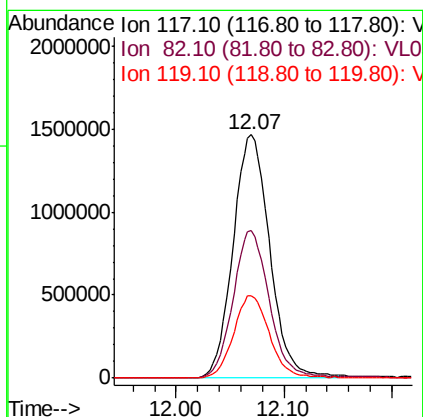
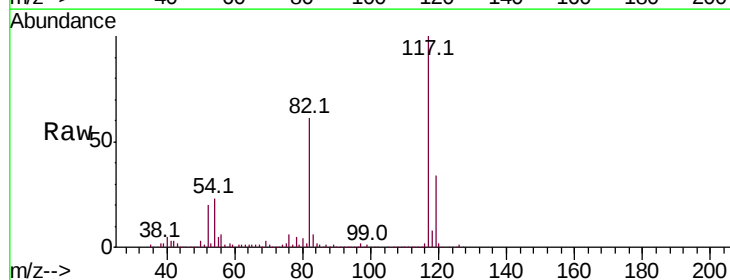
Tgt Ion: 117 Resp: 3471343

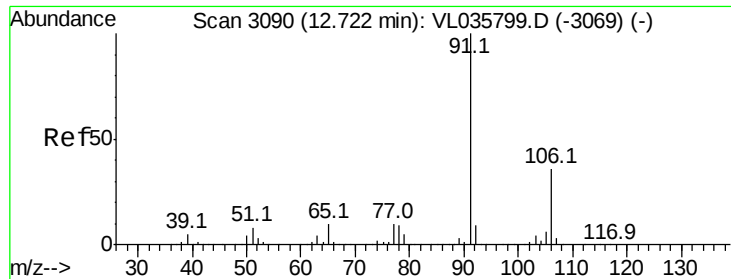
Ion Ratio Lower Upper

117 100

82 61.3 50.6 76.0

119 34.0 52.6 78.8#





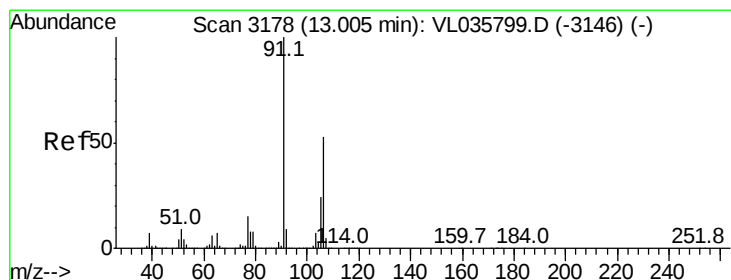
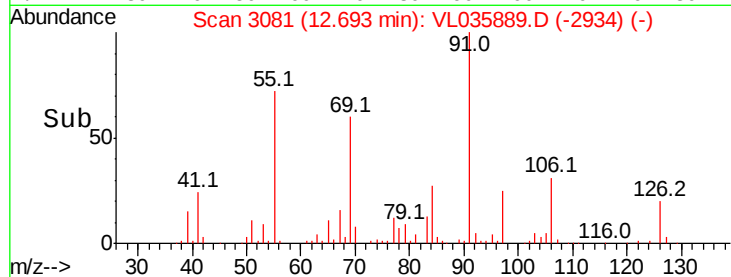
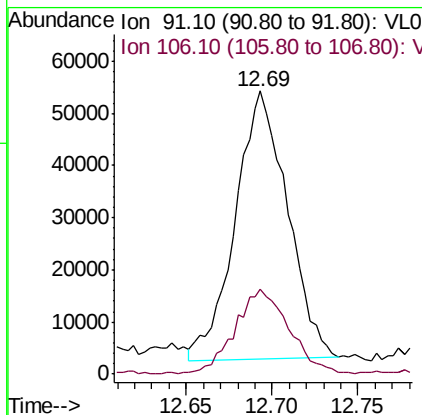
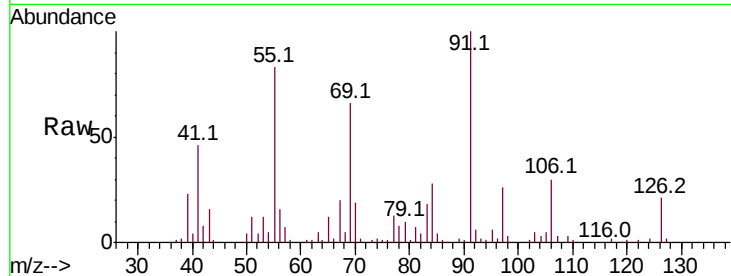
#58
Ethyl Benzene
Concen: 0.256 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. -0.03 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Instrument :
MSVOA_L
ClientSampled :
SSSG-1

Tot Ion: 91 Resp: 108251
Ion Ratio Lower Upper
91 100
106 31.2 28.6 43.0

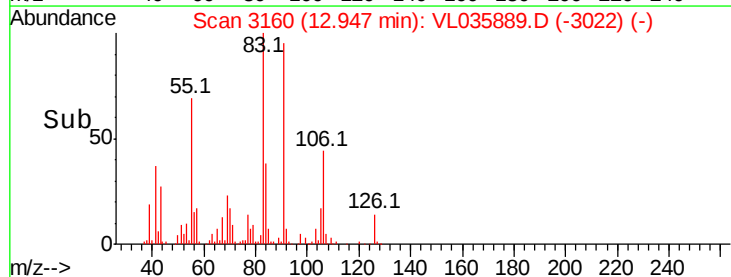
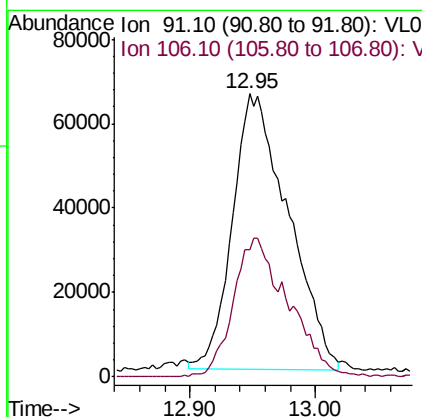
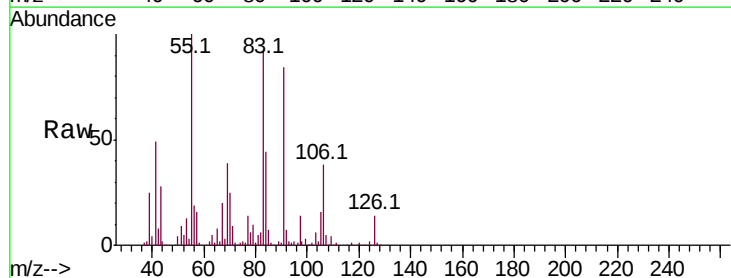
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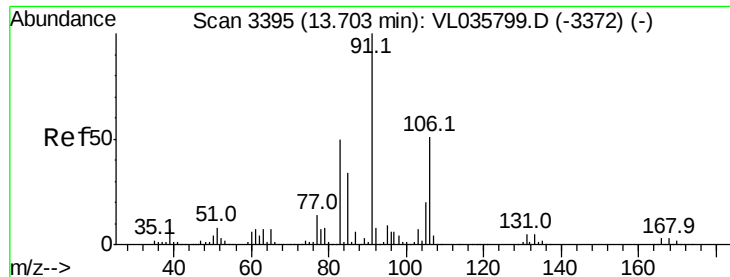
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#59
m/p-Xylene
Concen: 0.564 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.06 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Tgt Ion: 91 Resp: 201747
Ion Ratio Lower Upper
91 100
106 50.4 39.5 59.3





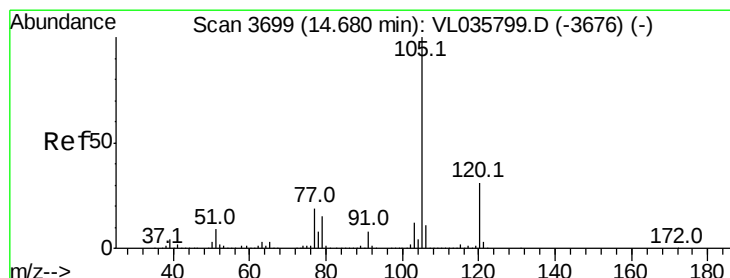
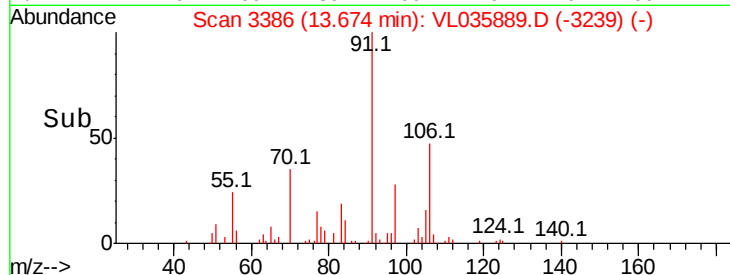
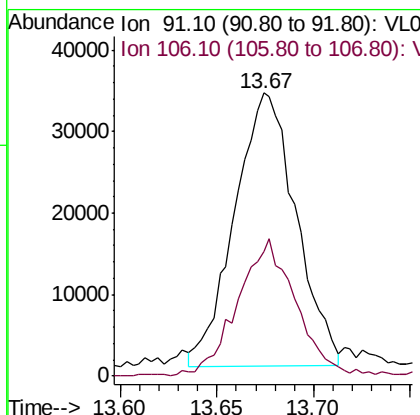
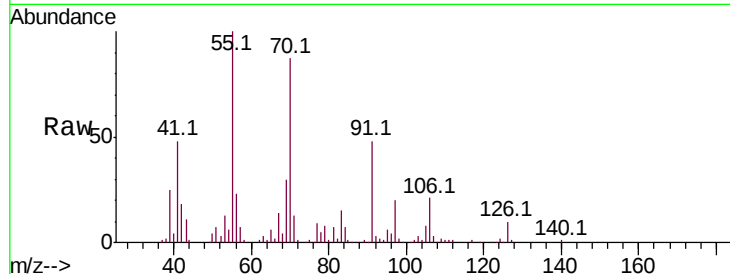
#60
o-Xylene
Concen: 0.213 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.03 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Instrument :
MSVOA_L
ClientSampled :
SSSG-1

Tot Ion: 91 Resp: 74033
Ion Ratio Lower Upper
91 100
106 48.9 24.8 74.4

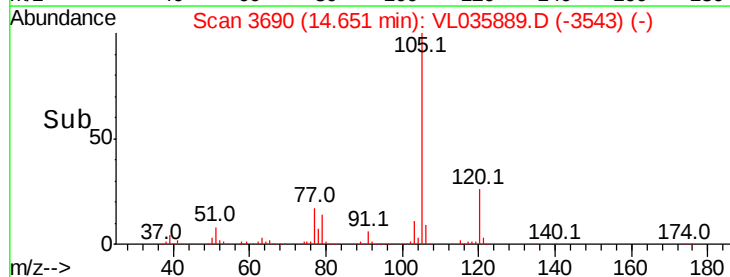
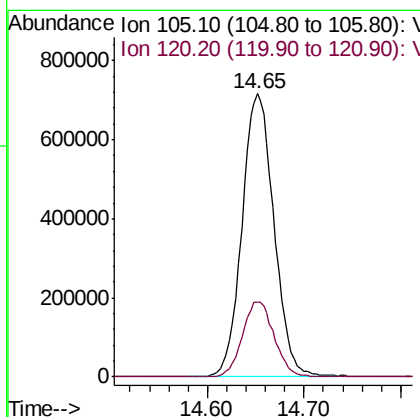
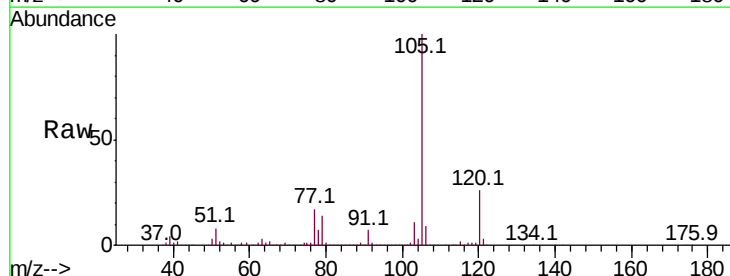
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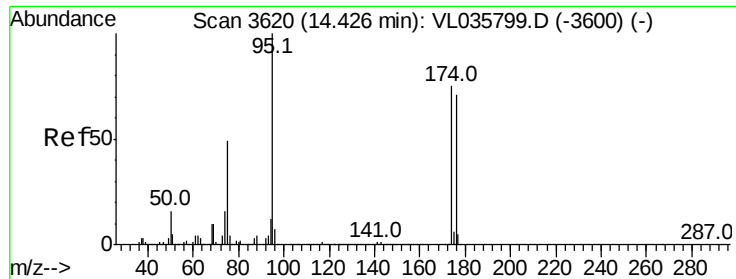
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#62
Isopropylbenzene
Concen: 3.002 ppbv
RT: 14.65 min Scan# 3690
Delta R.T. -0.03 min
Lab File: VL035889.D
Acq: 6 Nov 2020 10:43

Tgt Ion: 105 Resp: 1641739
Ion Ratio Lower Upper
105 100
120 26.7 23.5 35.3





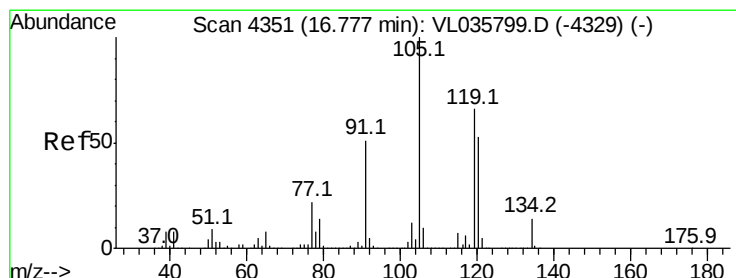
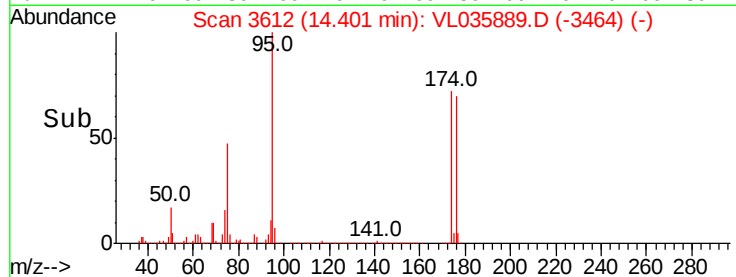
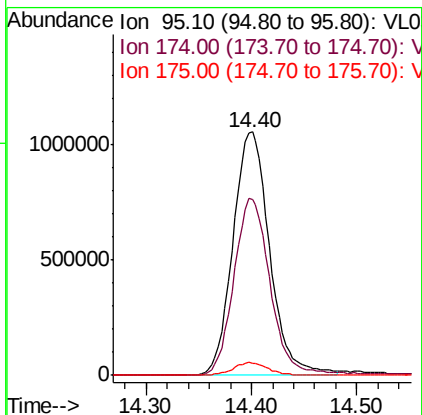
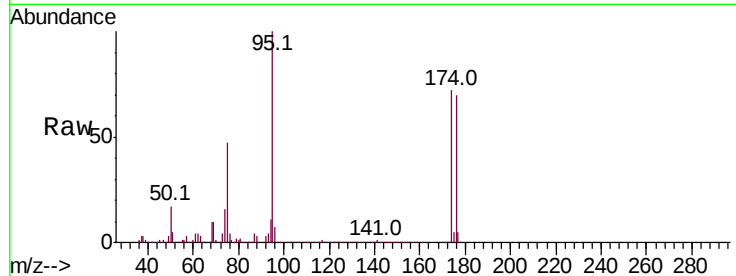
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.340 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.03 min
 Lab File: VL035889.D
 Acq: 6 Nov 2020 10:43

Instrument :
 MSVOA_L
 ClientSampled :
 SSSG-1

Tot Ion	Ratio	Lower	Upper
95	100		
174	73.7	59.8	89.6
175	5.2	4.3	6.5

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.125 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.04 min
 Lab File: VL035889.D
 Acq: 6 Nov 2020 10:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	37.2	42.0	63.0#
91	10.4	41.0	61.6#
77	11.0	17.3	25.9#

