

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036122.D
 Acq On : 9 Dec 2020 8:43
 Operator : SY/AP
 Sample : L4948-14 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-6B

Manual Integrations
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Quant Time: Dec 10 21:47:28 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	5.67	49	1288774	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2579501	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	2270144	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2030116	11.26	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	67839	0.461	ppbv #	76
4) Chloromethane	3.15	50	20241m	0.280	ppbv	
9) Propene	3.02	41	212747	2.888	ppbv #	70
10) Heptane	8.13	43	131478	0.699	ppbv	97
11) Trichlorofluoromethane	3.95	101	64166	0.363	ppbv	87
13) Ethanol	3.61	45	1289950m	127.033	ppbv	
15) Acetone	3.85	43	1807237	11.668	ppbv	95
19) Isopropyl Alcohol	3.98	45	112271	1.186	ppbv #	100
20) Methylene Chloride	4.35	84	129453	2.040	ppbv	94
24) 1,1-Dichloroethane	5.01	63	28403	0.196	ppbv #	89
26) Hexane	5.69	57	166550	1.196	ppbv #	48
29) Chloroform	5.77	83	20883m	0.114	ppbv	
30) Cyclohexane	7.14	84	297173	2.905	ppbv	94
32) 1,1,1-Trichloroethane	6.52	97	9955942	52.758	ppbv	94
34) 2-Butanone	5.25	43	324875	1.899	ppbv	100
35) Carbon Tetrachloride	7.03	117	22347m	0.149	ppbv	
36) Benzene	6.90	78	677750	3.100	ppbv	96
38) Trichloroethene	7.85	130	34069m	0.417	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	73693m	0.186	ppbv	
52) Tetrachloroethene	11.23	164	156252	1.974	ppbv	90
53) Toluene	9.82	91	230970	0.941	ppbv	99
58) Ethyl Benzene	12.73	91	282586	0.908	ppbv	99
59) m/p-Xylene	12.98	91	1200861	4.583	ppbv	98
60) o-Xylene	13.71	91	449977	1.823	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	75451m	0.294	ppbv	

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

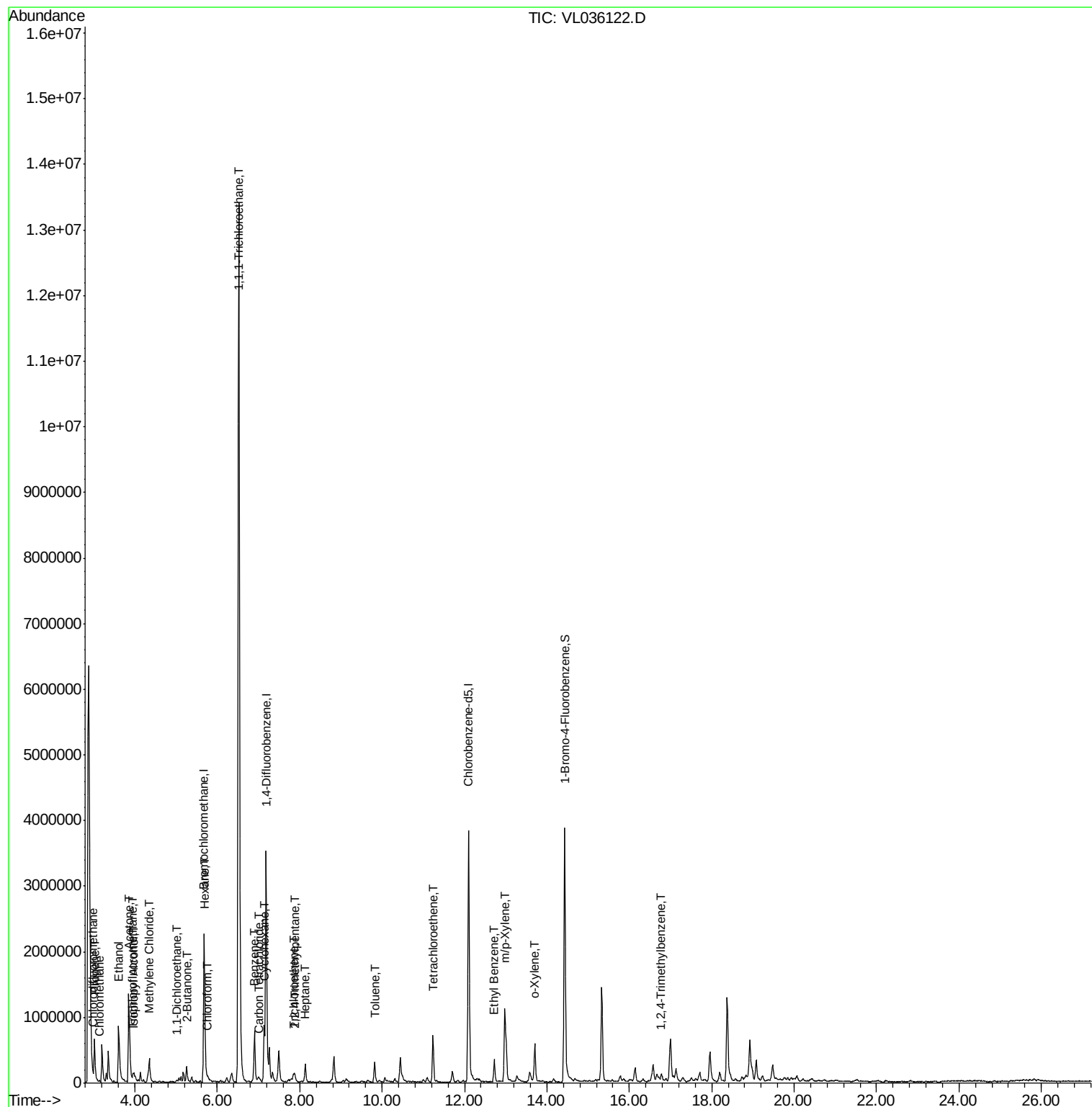
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120820\
Data File : VL036122.D
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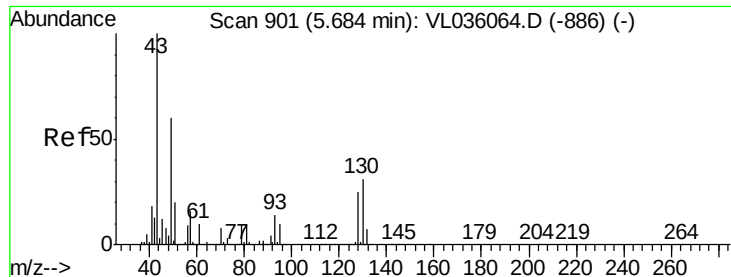
Instrument :
MSVOA_L
ClientSampleId :
SS-6B

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Quant Time: Dec 10 21:47:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL036122.D

Acq: 9 Dec 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

SS-6B

Tot Ion: 49 Resp: 1288774

Ion Ratio Lower Upper

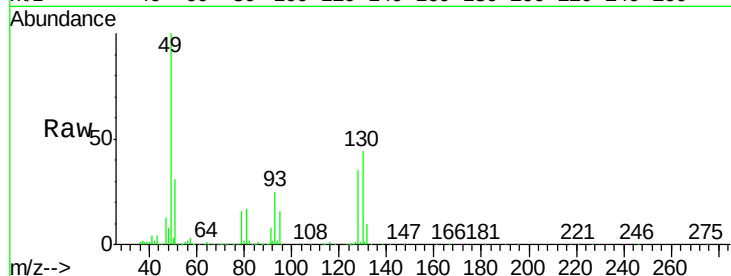
49 100

128 36.4 21.1 63.1

130 46.4 27.1 81.3

Manual Integrations
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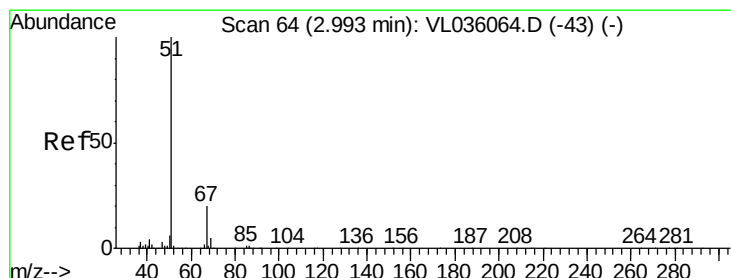
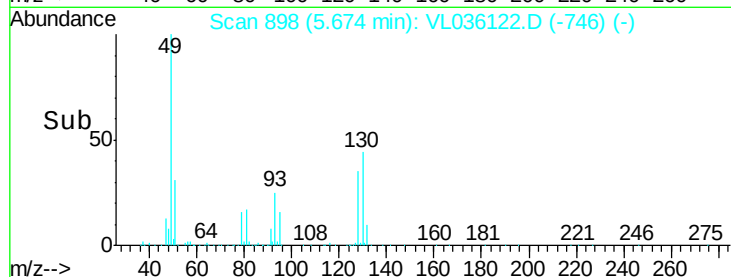
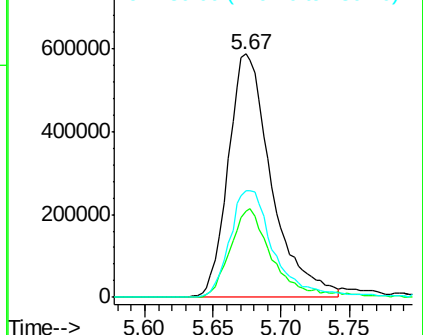
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.461 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL036122.D

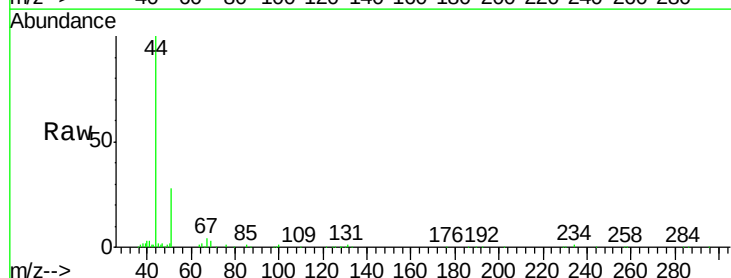
Acq: 9 Dec 2020 8:43

Tgt Ion: 51 Resp: 67839

Ion Ratio Lower Upper

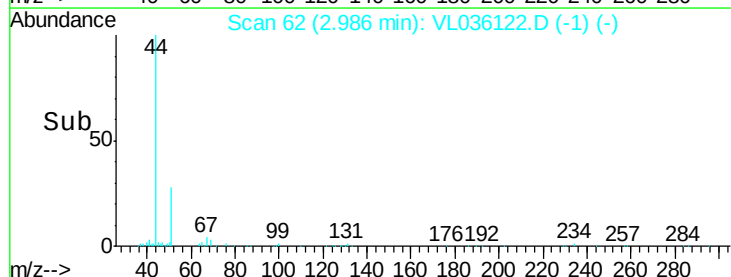
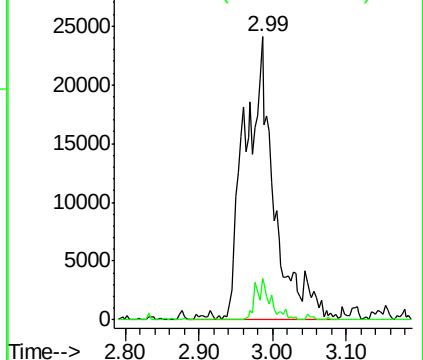
51 100

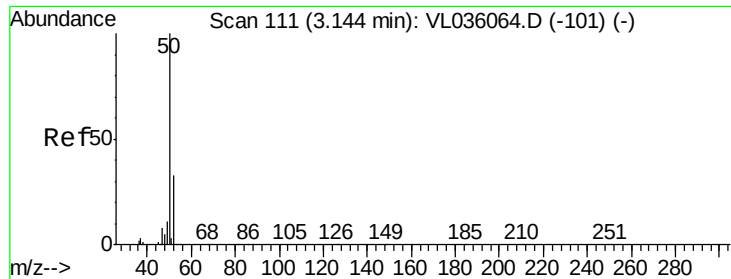
67 7.5 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.280 ppbv m

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL036122.D

Acq: 9 Dec 2020 8:43

Instrument :

MSVOA_L

ClientSampleId :

SS-6B

Tot Ion: 50 Resp: 20241

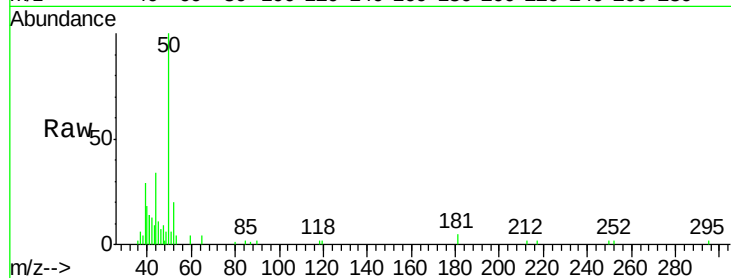
Ion Ratio Lower Upper

50 100

52 20.3 26.1 39.1#

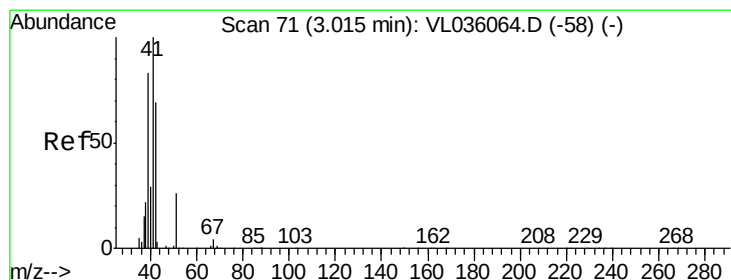
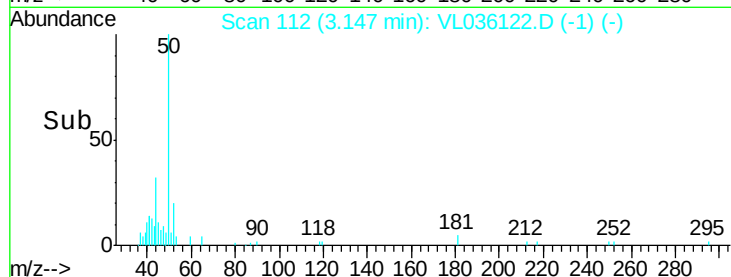
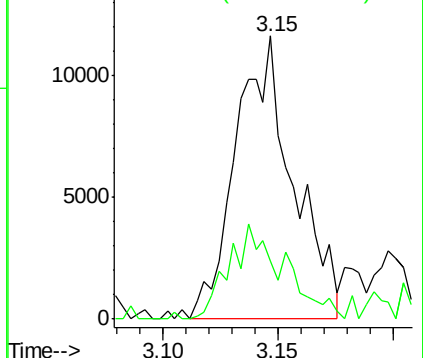
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 2.888 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036122.D

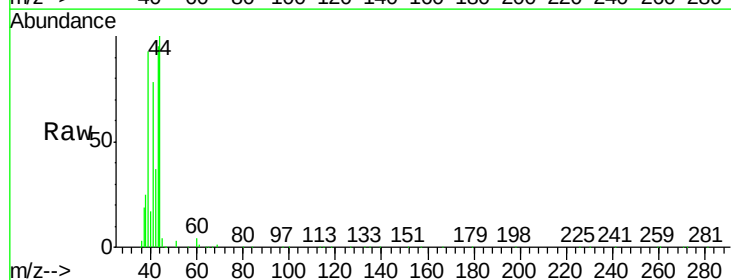
Acq: 9 Dec 2020 8:43

Tgt Ion: 41 Resp: 212747

Ion Ratio Lower Upper

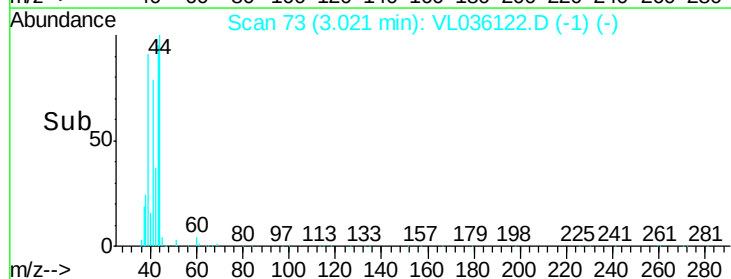
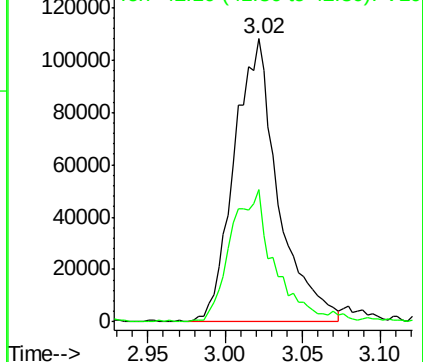
41 100

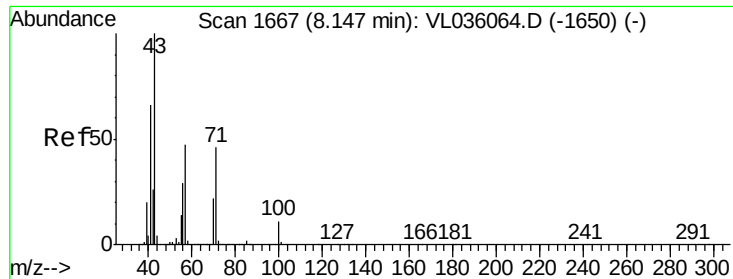
42 46.2 57.0 85.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





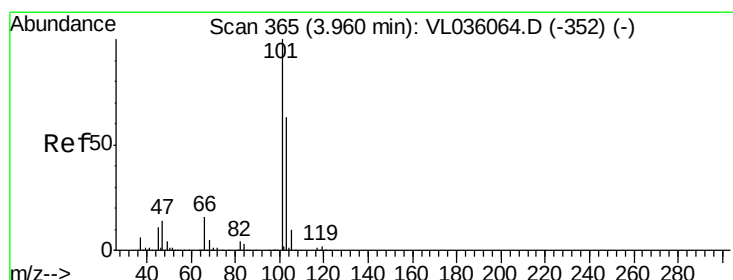
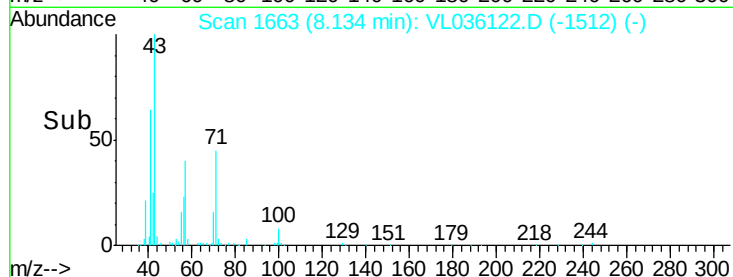
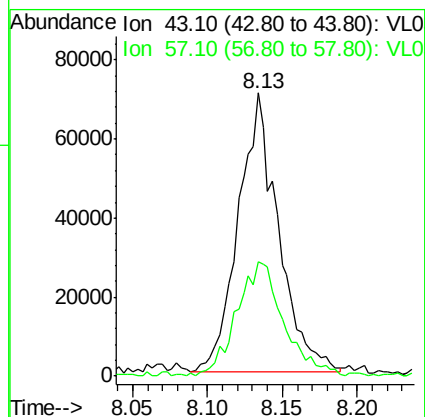
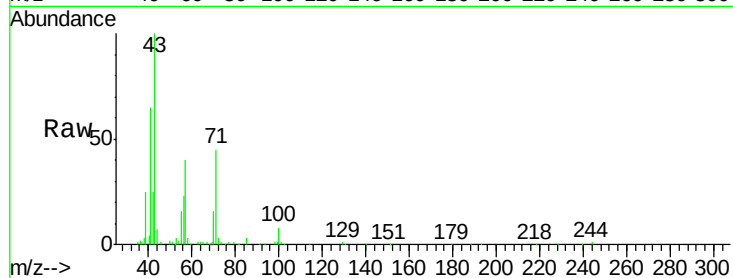
#10
 Heptane
 Concen: 0.699 ppbv
 RT: 8.13 min Scan# 1663
 Delta R.T. -0.01 min
 Lab File: VL036122.D
 Acq: 9 Dec 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-6B

Tot Ion: 43 Resp: 131478
 Ion Ratio Lower Upper
 43 100
 57 49.3 37.9 56.9

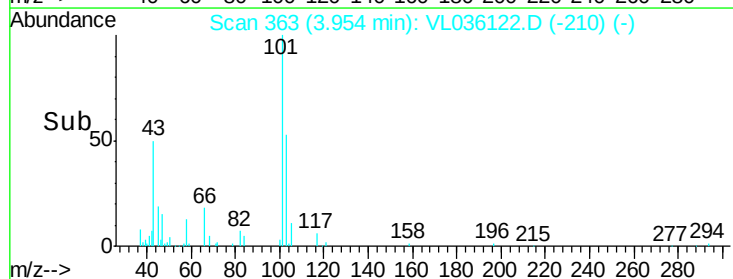
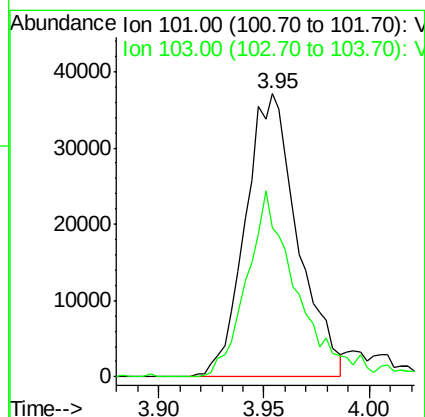
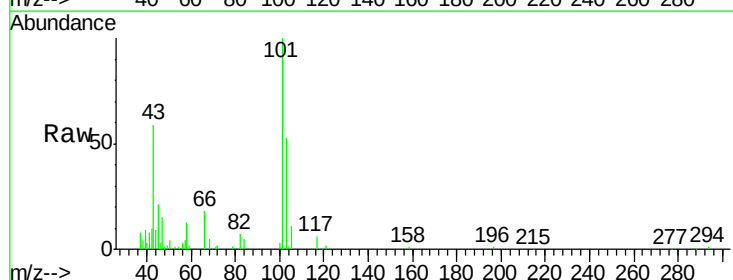
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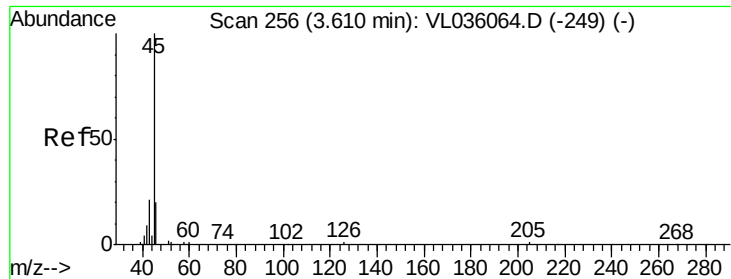
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#11
 Trichlorofluoromethane
 Concen: 0.363 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VL036122.D
 Acq: 9 Dec 2020 8:43

Tgt Ion: 101 Resp: 64166
 Ion Ratio Lower Upper
 101 100
 103 52.7 50.3 75.5





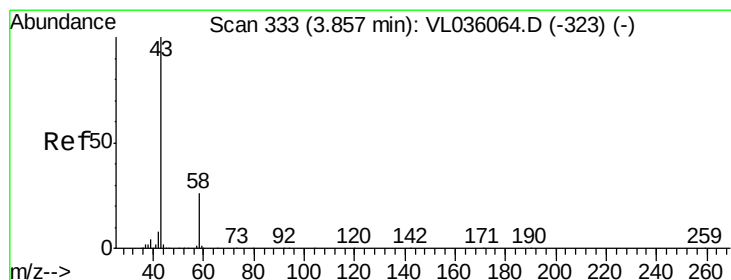
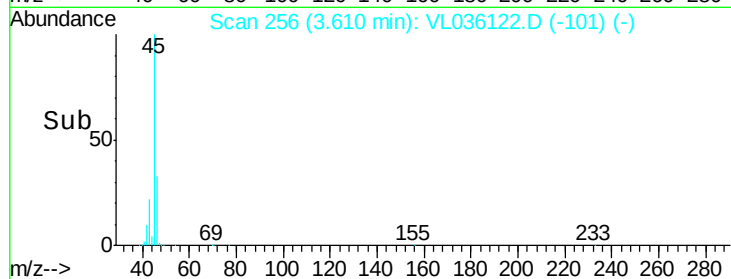
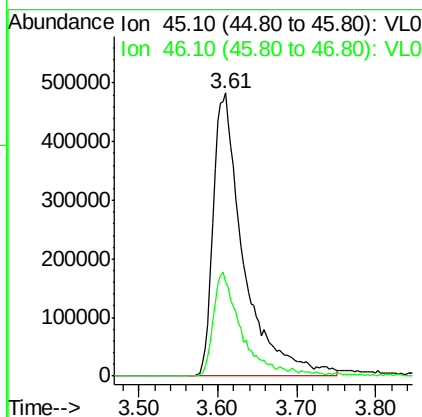
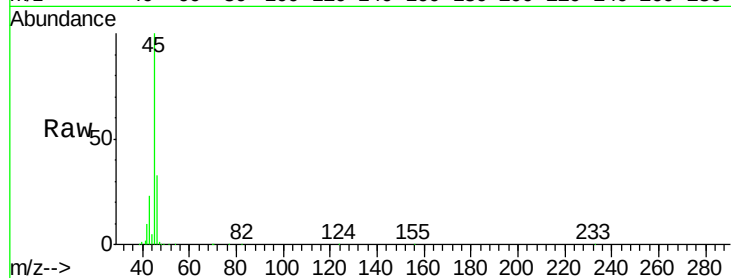
#13
Ethanol
Concen: 127.033 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. -0.00 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Instrument :
MSVOA_L
ClientSampled :
SS-6B

Tot Ion: 45 Resp: 1289950
Ion Ratio Lower Upper
45 100
46 34.9 19.0 75.8

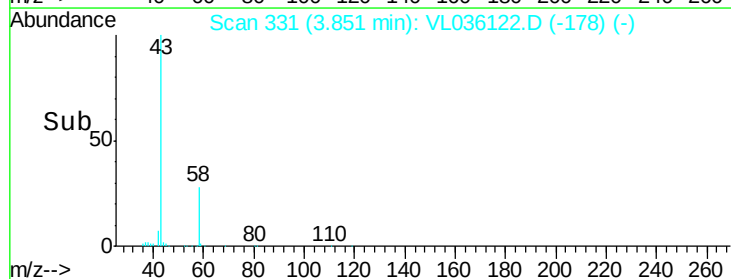
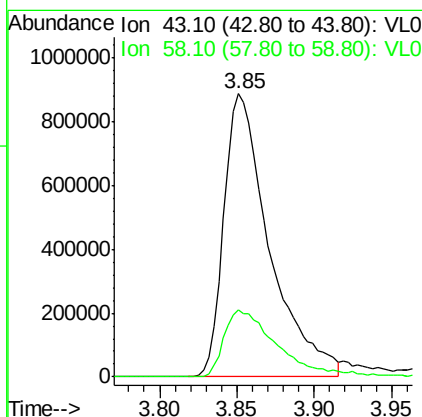
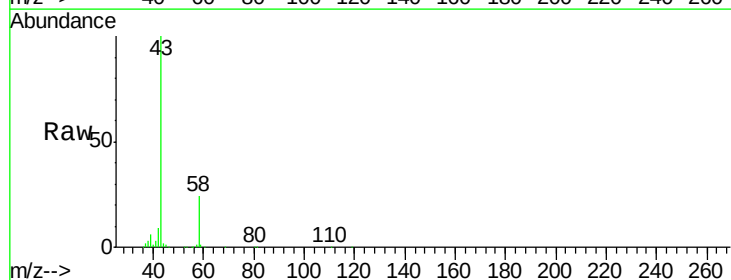
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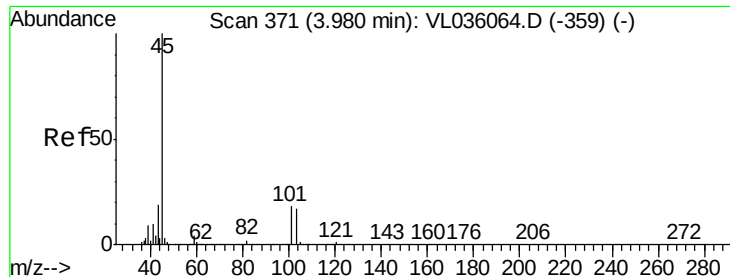
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#15
Acetone
Concen: 11.668 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.01 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Tgt Ion: 43 Resp: 1807237
Ion Ratio Lower Upper
43 100
58 28.7 20.9 31.3





#19

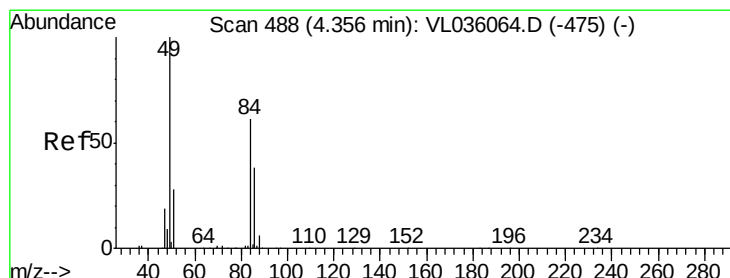
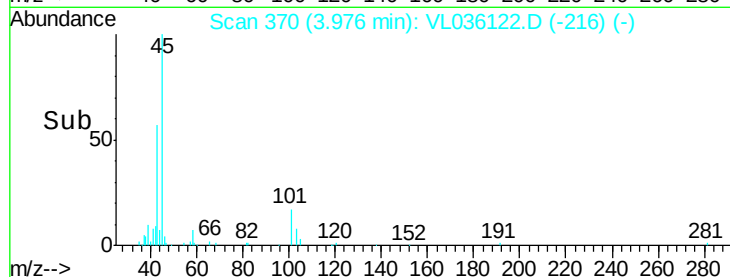
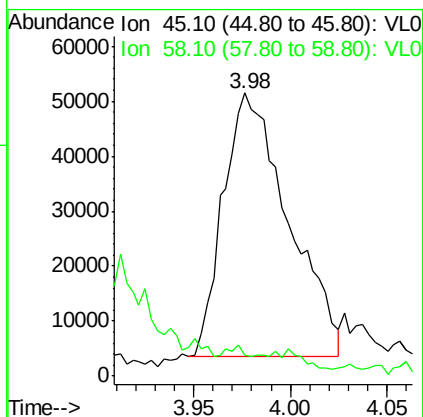
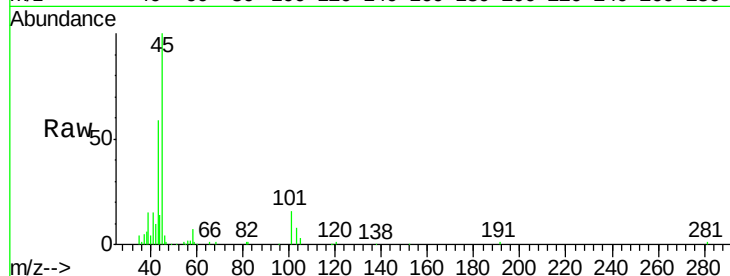
Isopropyl Alcohol
 Concen: 1.186 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. -0.00 min
 Lab File: VL036122.D
 Acq: 9 Dec 2020 8:43

Instrument :
 MSVOA_L
 ClientSampled :
 SS-6B

Tot Ion	45	Resp	112271
Ion	Ratio	Lower	Upper
45	100		
58	461.7	0.0	0.0#

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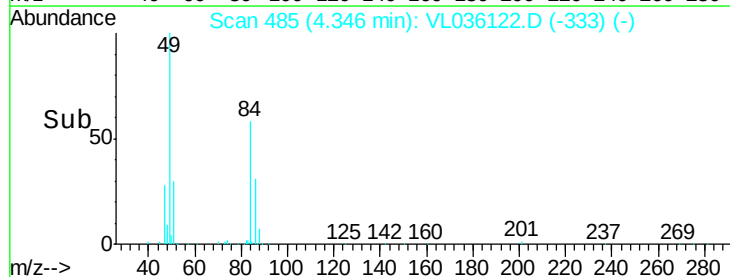
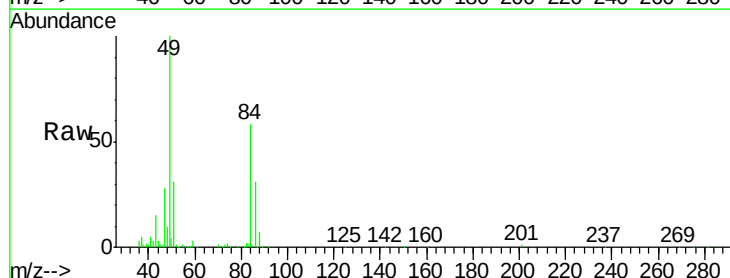
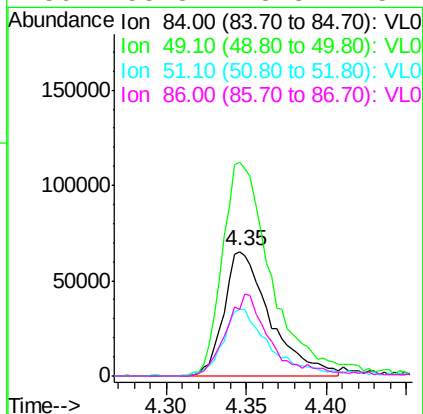
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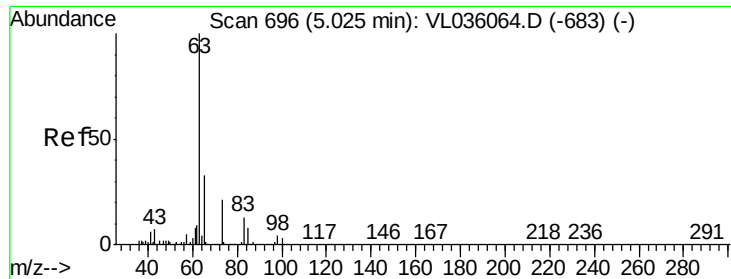


#20

Methylene Chloride
 Concen: 2.040 ppbv
 RT: 4.35 min Scan# 485
 Delta R.T. -0.01 min
 Lab File: VL036122.D
 Acq: 9 Dec 2020 8:43

Tgt Ion	84	Resp	129453
Ion	Ratio	Lower	Upper
84	100		
49	170.3	133.0	199.4
51	55.2	38.9	58.3
86	53.8	48.8	73.2





#24

1,1-Dichloroethane

Concen: 0.196 ppbv

RT: 5.01 min Scan# 693

Delta R.T. -0.01 min

Lab File: VL036122.D

Acq: 9 Dec 2020 8:43

Instrument :

MSVOA_L

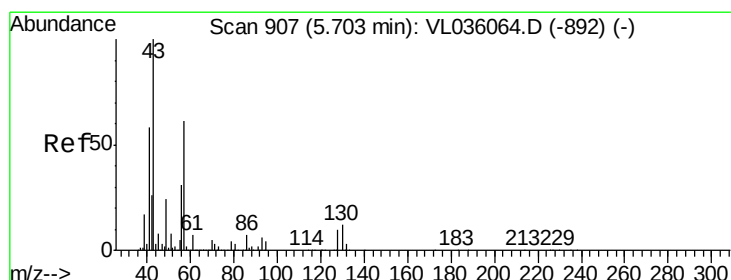
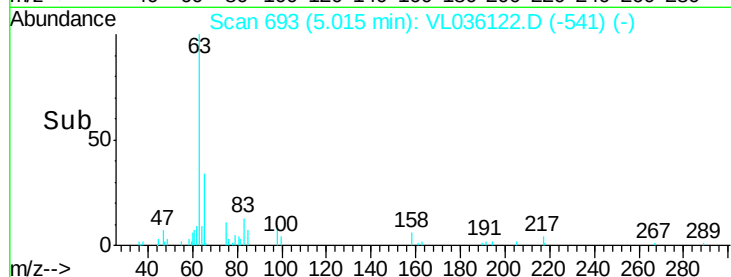
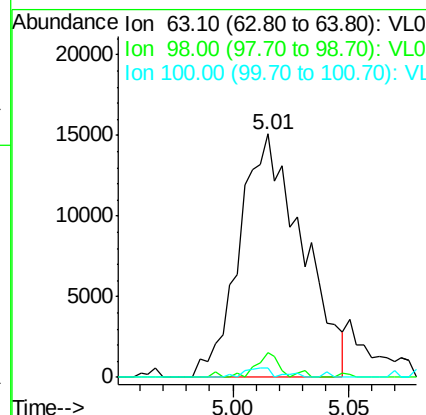
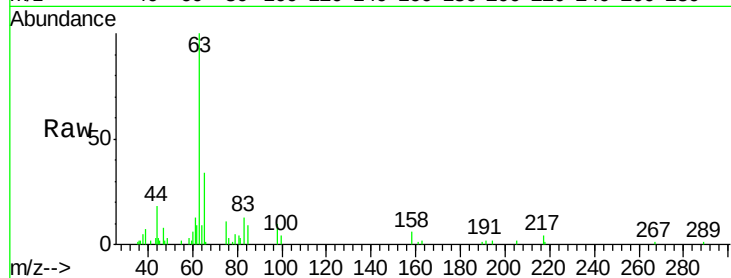
ClientSampleId :

SS-6B

Tot Ion	Ratio	Lower	Upper
63	100		
98	10.0	2.2	6.6#
100	3.9	1.5	4.4

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#26

Hexane

Concen: 1.196 ppbv

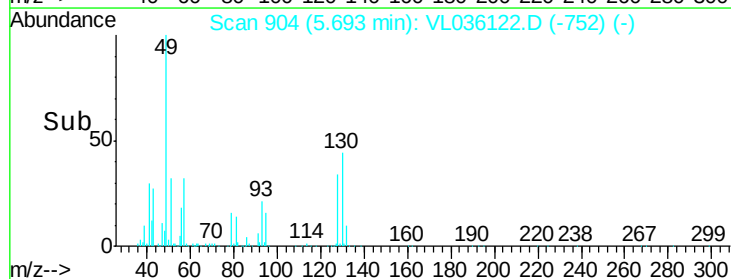
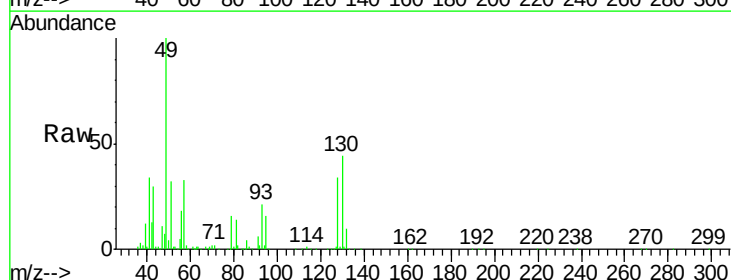
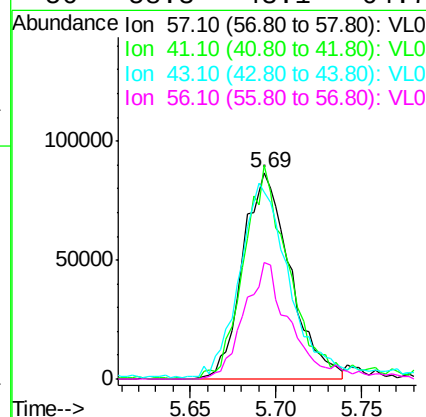
RT: 5.69 min Scan# 904

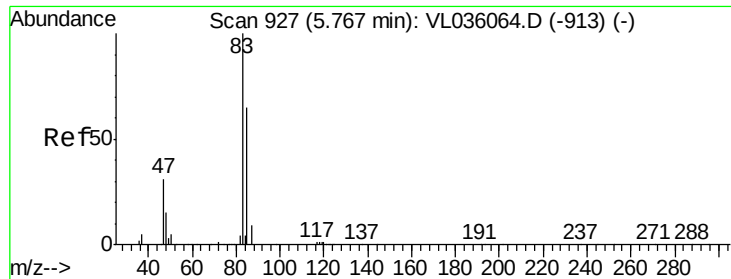
Delta R.T. -0.01 min

Lab File: VL036122.D

Acq: 9 Dec 2020 8:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	106.1	82.9	124.3
43	105.7	199.9	299.9#
56	58.3	43.1	64.7





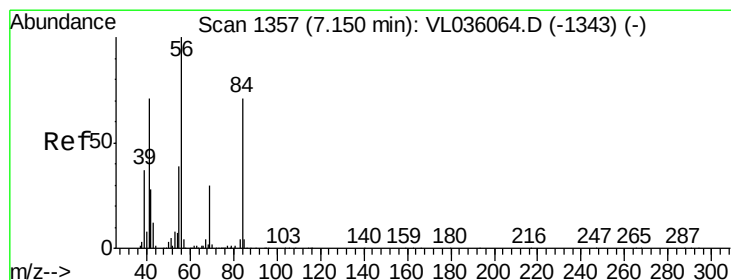
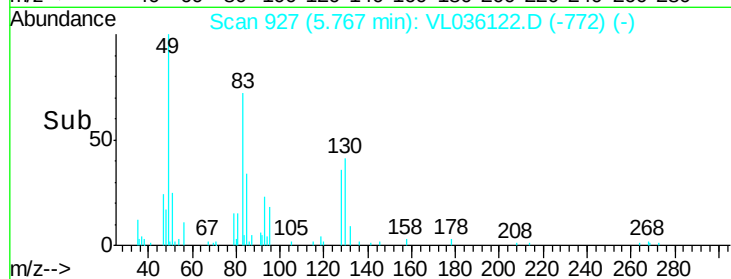
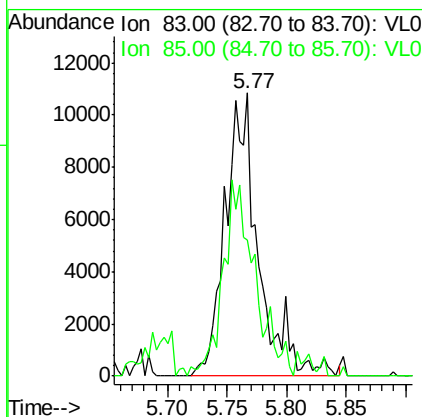
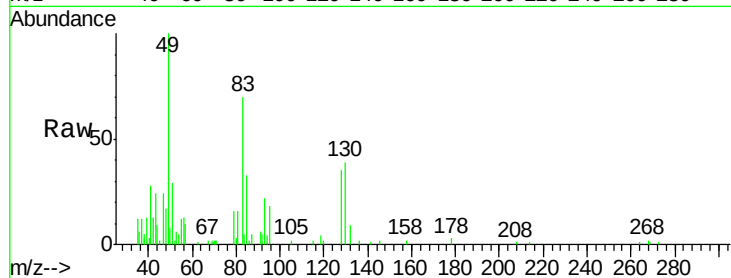
#29
Chloroform
Concen: 0.114 ppbv m
RT: 5.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
SS-6B

Tot Ion	Ratio	Lower	Upper
83	100		
85	48.0	51.8	77.6#

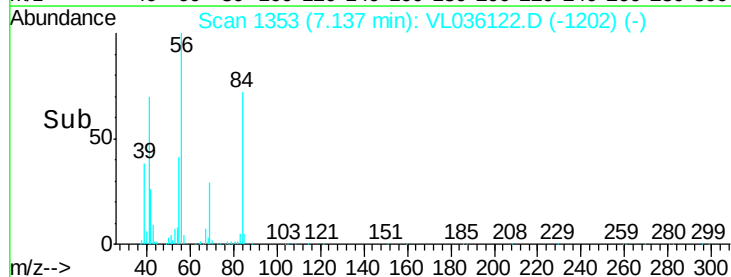
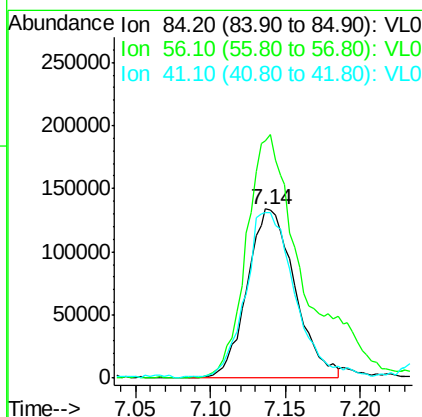
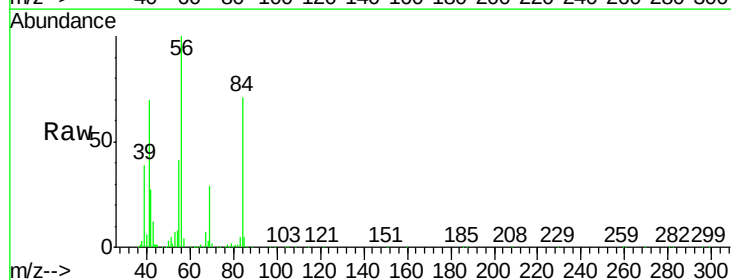
Manual Integrations
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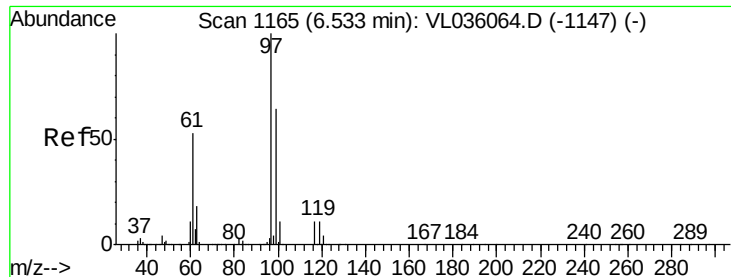
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#30
Cyclohexane
Concen: 2.905 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Tgt Ion	Ratio	Lower	Upper
84	100		
56	172.2	128.0	192.0
41	100.4	81.3	121.9





#32

1,1,1-Trichloroethane

Concen: 52.758 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. -0.01 min

Lab File: VL036122.D

Acq: 9 Dec 2020 8:43

Instrument :

MSVOA_L

ClientSampled :

SS-6B

Tot Ion: 97 Resp: 9955942

Ion Ratio Lower Upper

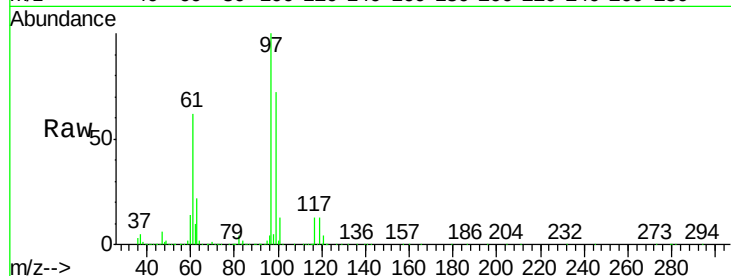
97 100

99 68.9 52.4 78.6

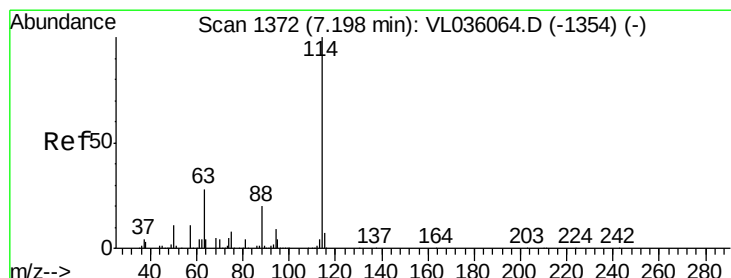
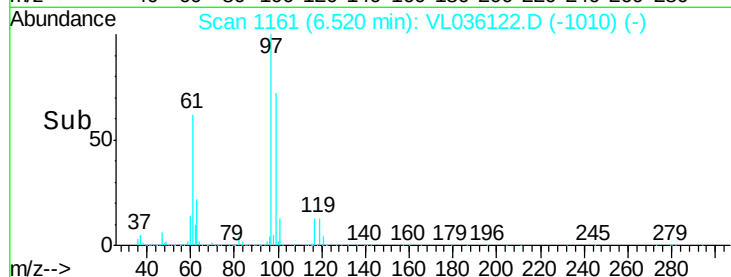
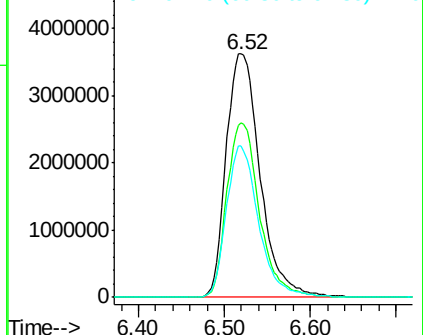
61 59.2 43.4 65.0

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Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VL036122.D

Acq: 9 Dec 2020 8:43

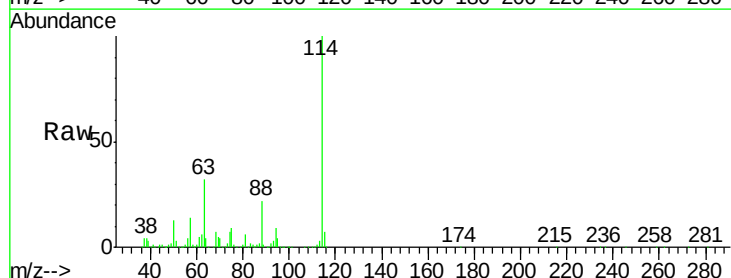
Tgt Ion: 114 Resp: 2579501

Ion Ratio Lower Upper

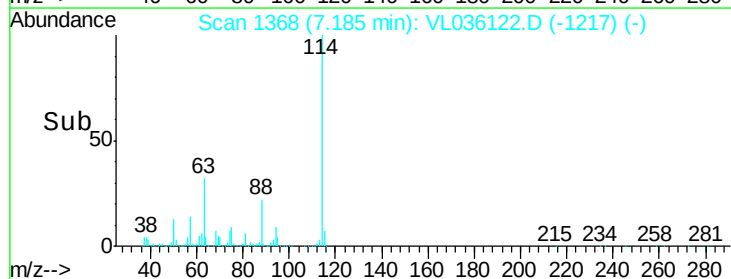
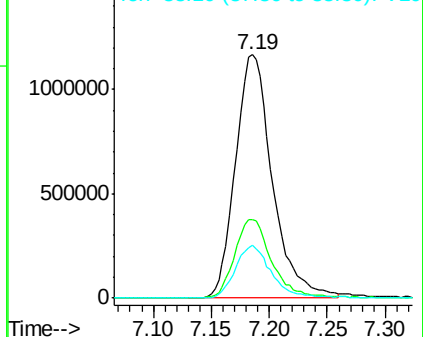
114 100

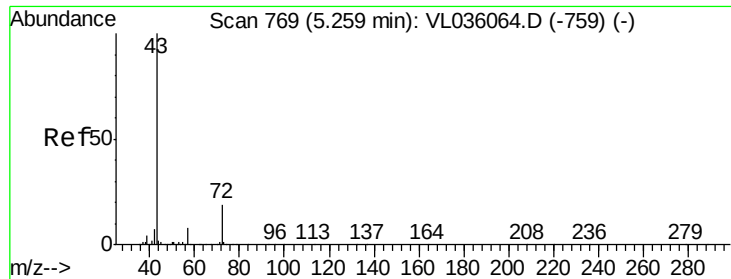
63 33.0 23.6 35.4

88 21.4 15.8 23.6



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





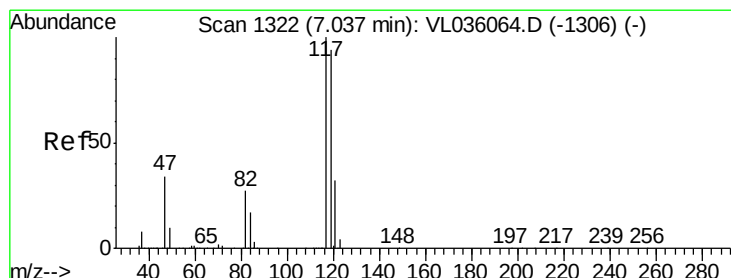
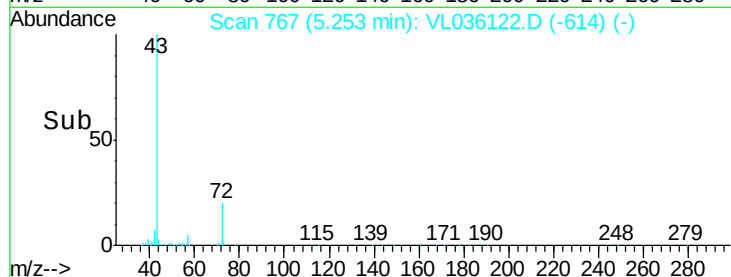
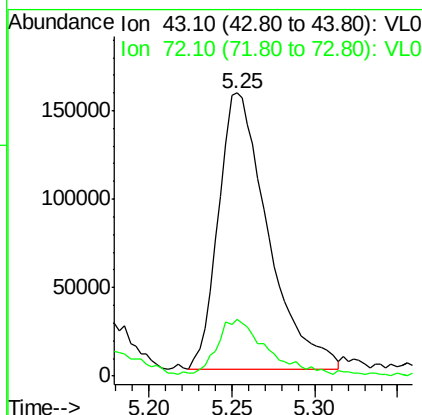
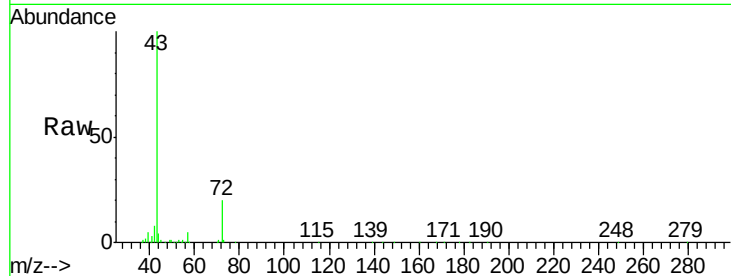
#34
2-Butanone
Concen: 1.899 ppbv
RT: 5.25 min Scan# 767
Delta R.T. -0.01 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
SS-6B

Tot Ion: 43 Resp: 324875
Ion Ratio Lower Upper
43 100
72 20.5 16.5 24.7

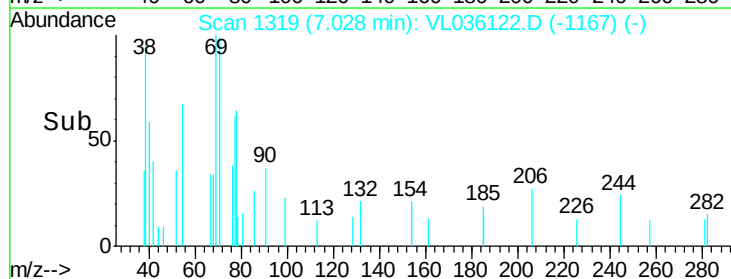
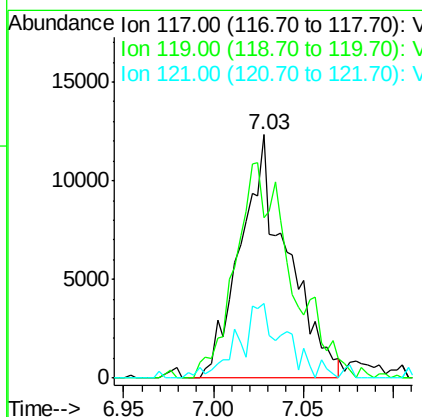
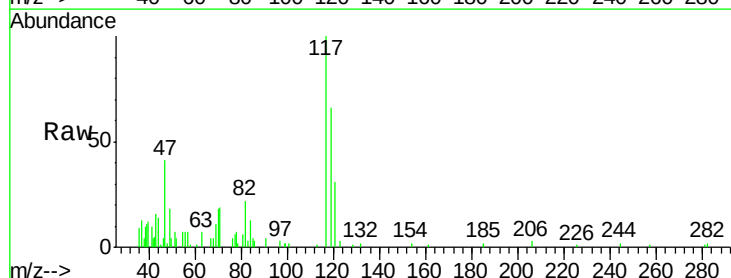
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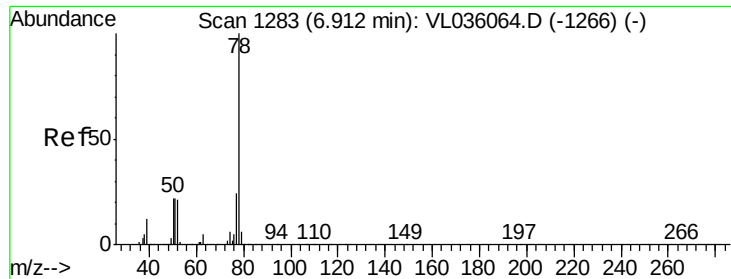
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#35
Carbon Tetrachloride
Concen: 0.149 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. -0.01 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Tgt Ion: 117 Resp: 22347
Ion Ratio Lower Upper
117 100
119 66.0 75.1 112.7#
121 30.8 25.6 38.4





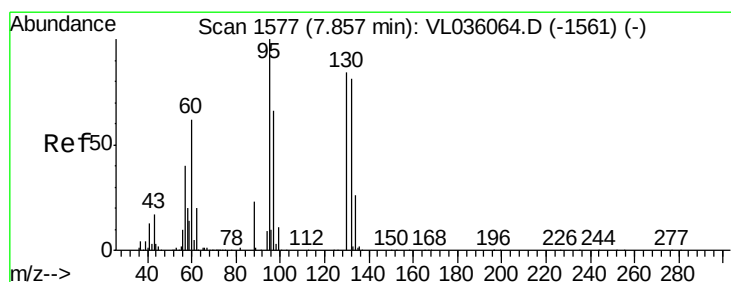
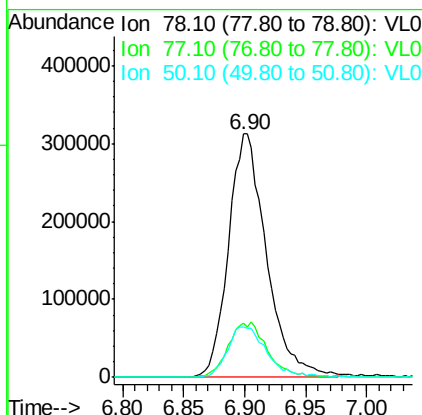
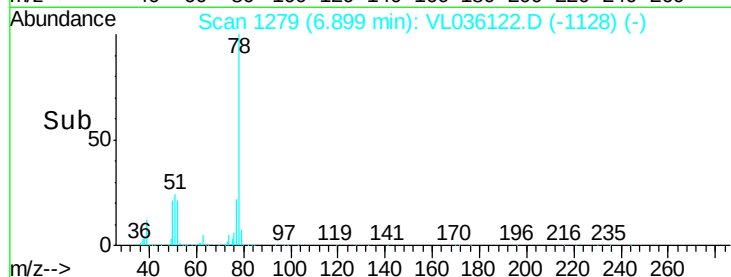
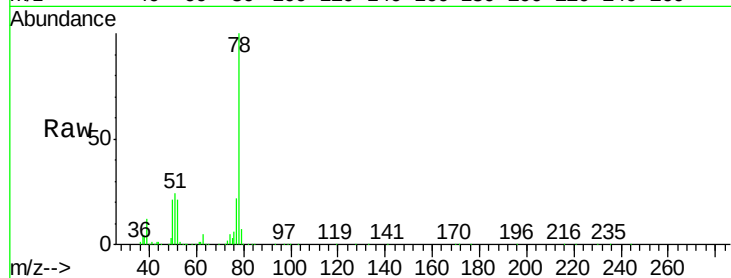
#36
Benzene
Concen: 3.100 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. -0.01 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
SS-6B

Tot Ion	78	Resp	677750
Ion	Ratio	Lower	Upper
78	100		
77	22.3	19.4	29.2
50	20.4	17.8	26.8

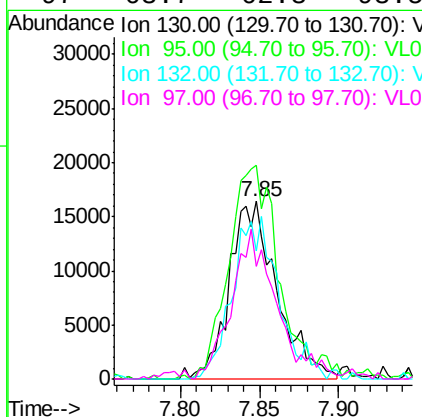
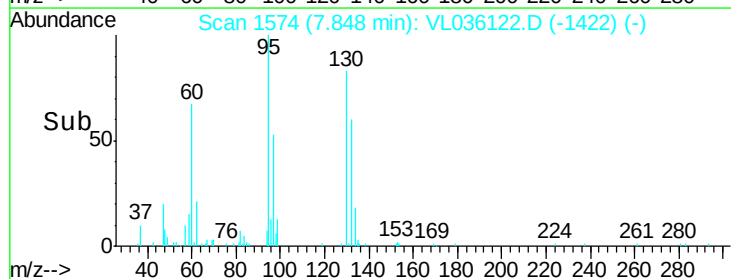
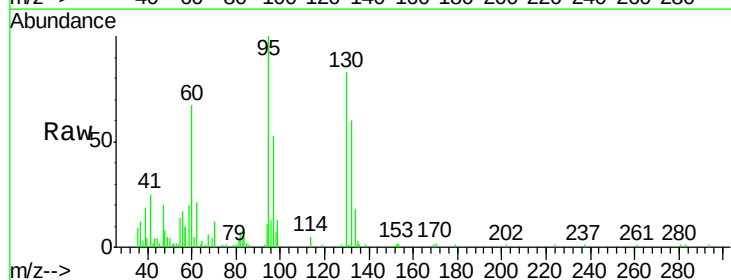
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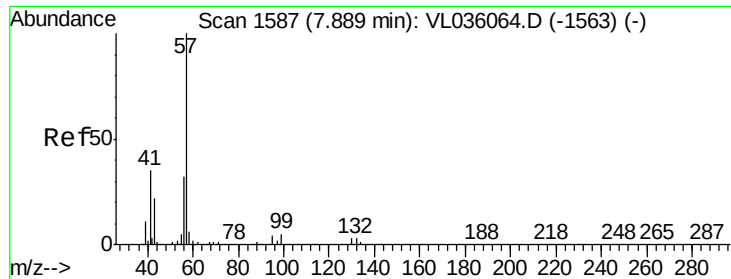
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#38
Trichloroethene
Concen: 0.417 ppbv m
RT: 7.85 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Tgt Ion	130	Resp	34069
Ion	Ratio	Lower	Upper
130	100		
95	120.1	95.2	142.8
132	71.6	76.9	115.3#
97	63.7	62.3	93.5





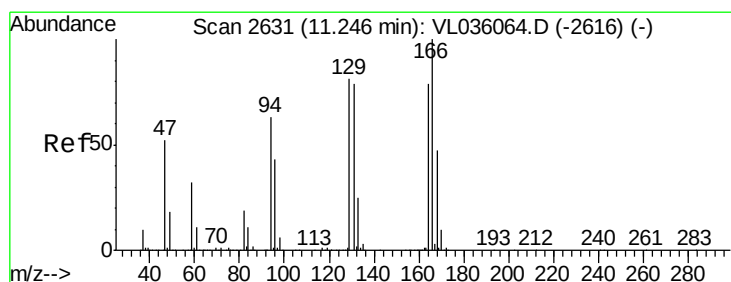
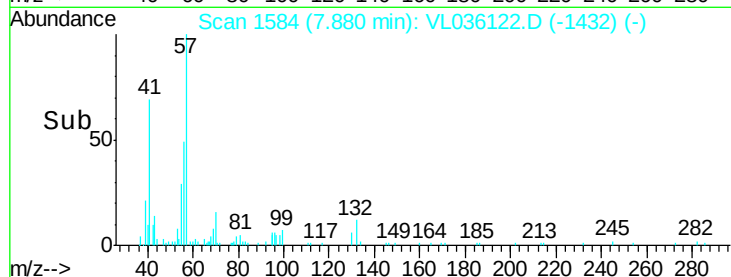
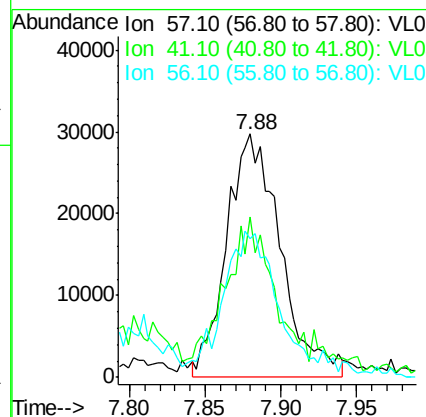
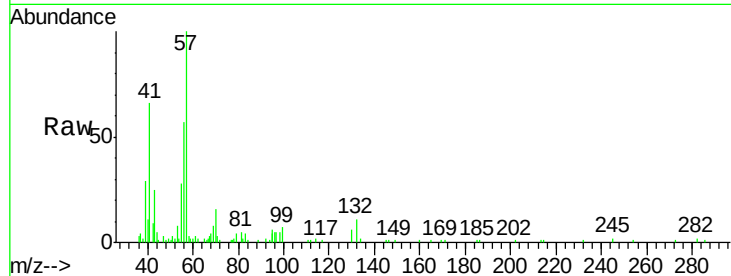
#44
 2,2,4-Trimethylpentane
 Concen: 0.186 ppbv m
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: VL036122.D
 Acq: 9 Dec 2020 8:43

Instrument :
 MSVOA_L
 ClientSampled :
 SS-6B

Tot Ion	Ratio	Lower	Upper
57	100		
41	62.1	28.9	43.3#
56	64.2	25.3	37.9#

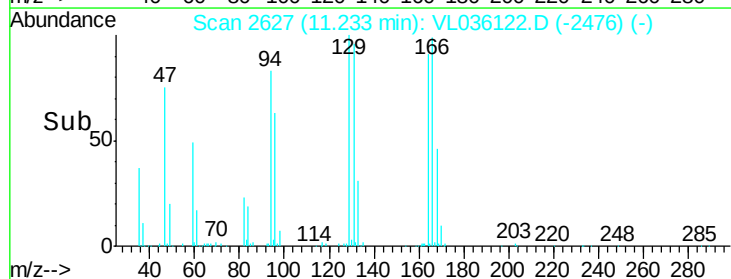
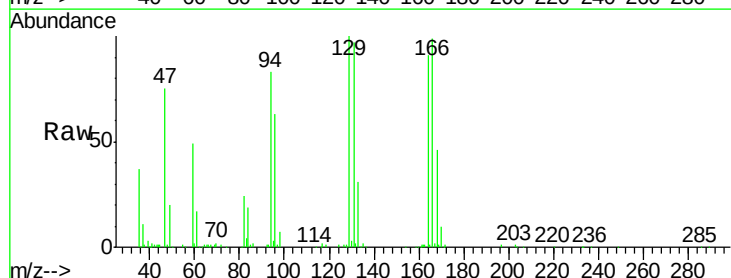
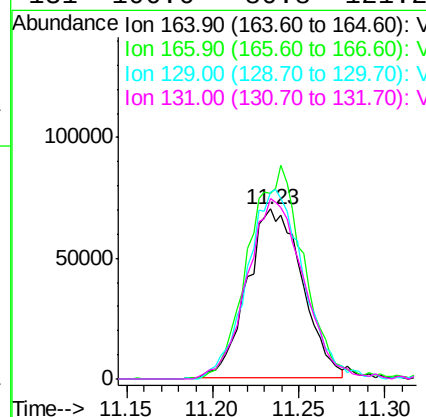
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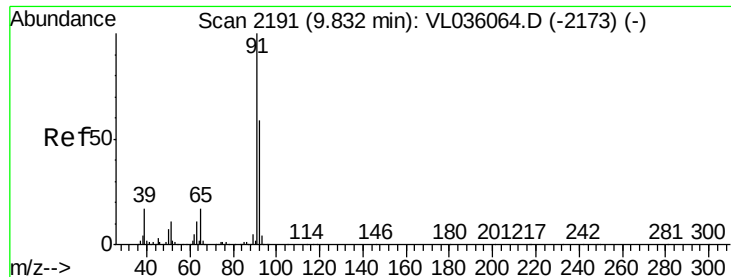
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#52
 Tetrachloroethene
 Concen: 1.974 ppbv
 RT: 11.23 min Scan# 2627
 Delta R.T. -0.01 min
 Lab File: VL036122.D
 Acq: 9 Dec 2020 8:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	108.6	101.9	152.9
129	110.3	82.1	123.1
131	106.6	80.8	121.2





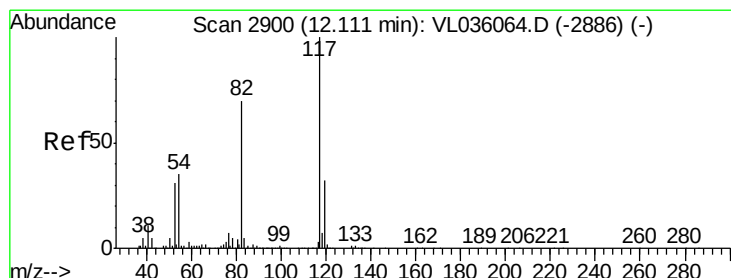
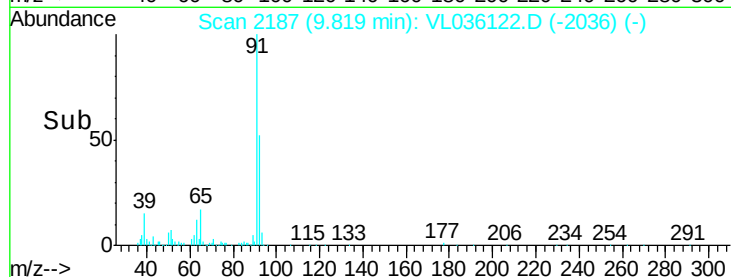
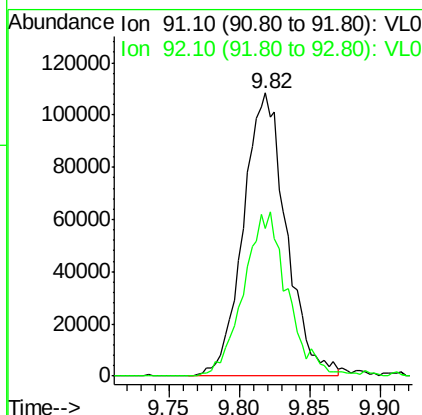
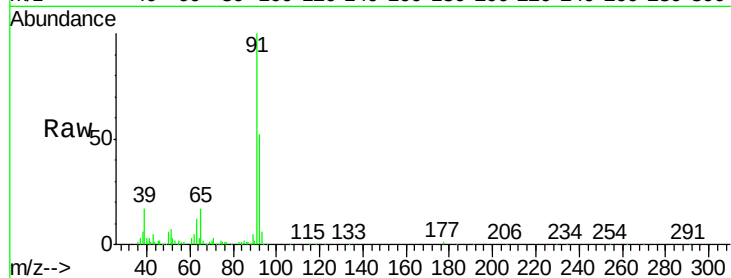
#53
Toluene
Concen: 0.941 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. -0.01 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Instrument :
MSVOA_L
ClientSampleId :
SS-6B

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		230970		
92	59.8	48.2	72.2		

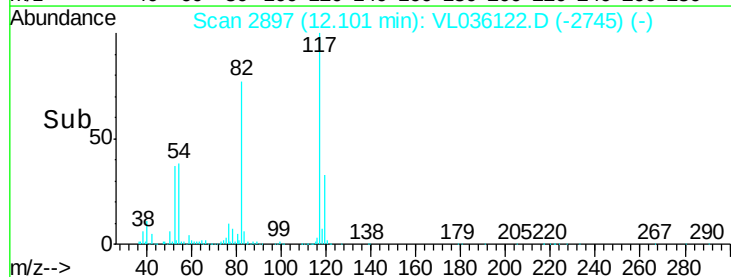
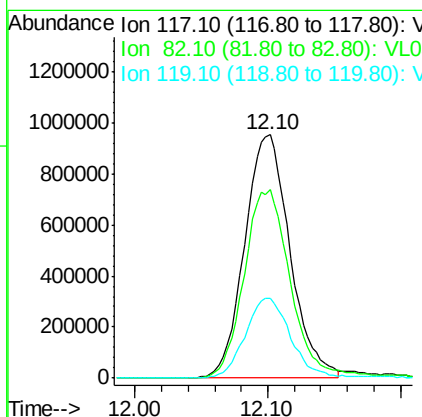
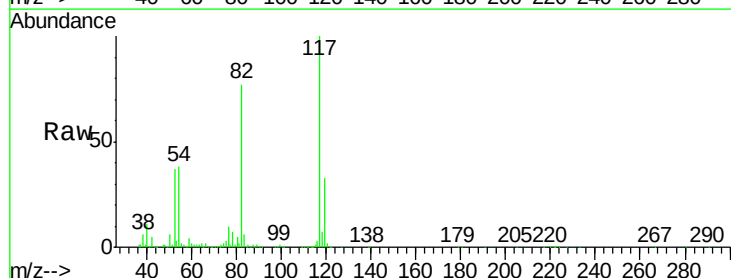
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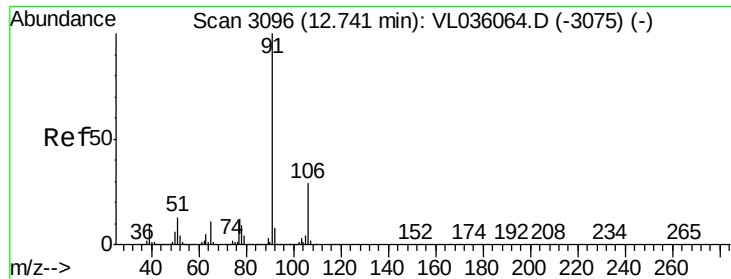
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		2270144		
82	81.2	0.0	0.0#		
119	33.4	0.0	0.0#		





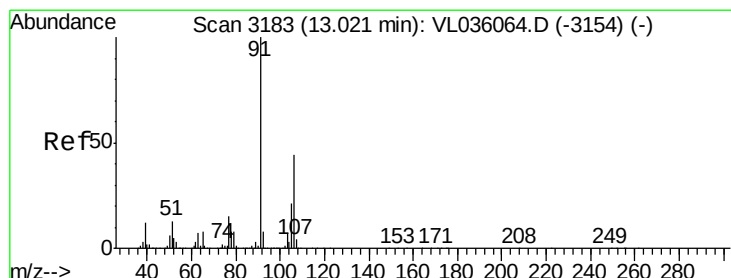
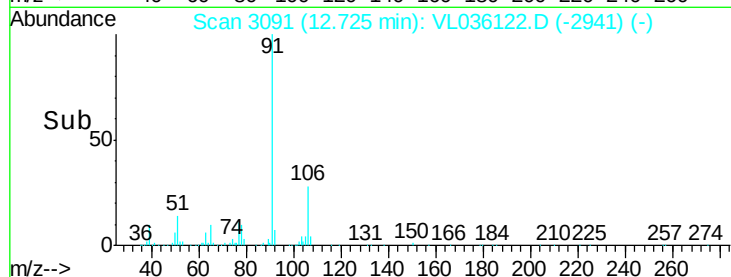
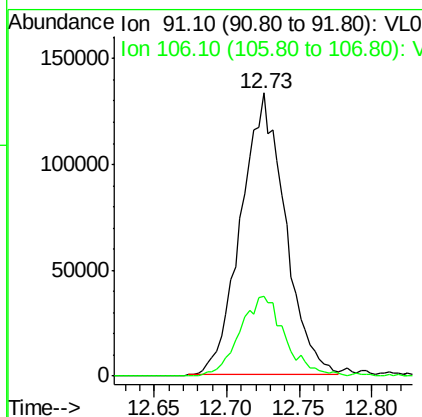
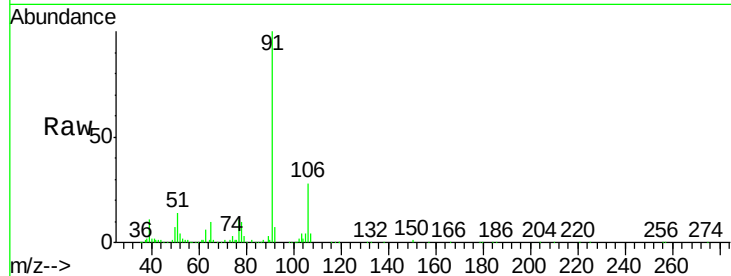
#58
Ethyl Benzene
Concen: 0.908 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. -0.02 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Instrument :
MSVOA_L
ClientSampled :
SS-6B

Tot Ion: 91 Resp: 282586
Ion Ratio Lower Upper
91 100
106 28.2 23.0 34.4

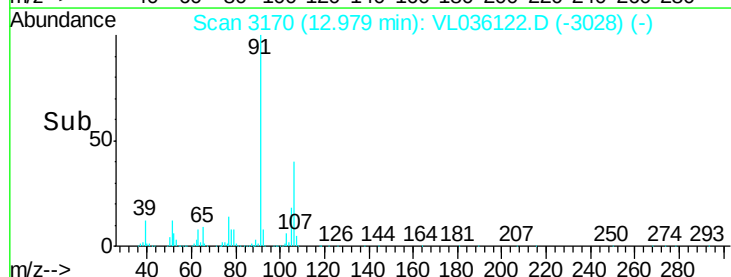
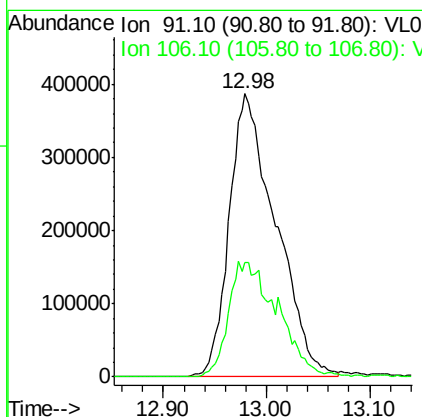
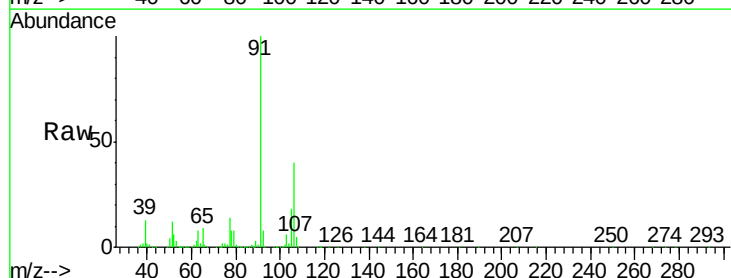
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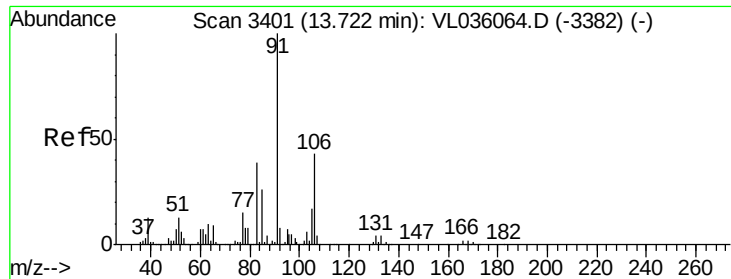
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#59
m/p-Xylene
Concen: 4.583 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. -0.04 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Tgt Ion: 91 Resp: 1200861
Ion Ratio Lower Upper
91 100
106 43.4 33.6 50.4





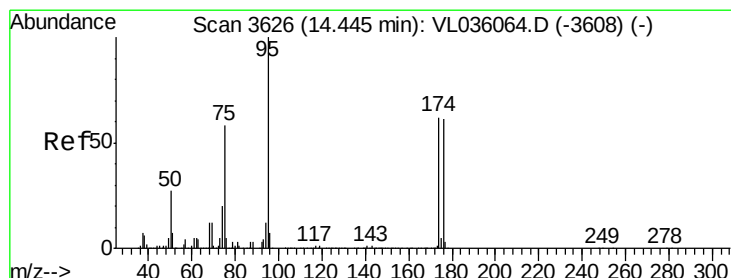
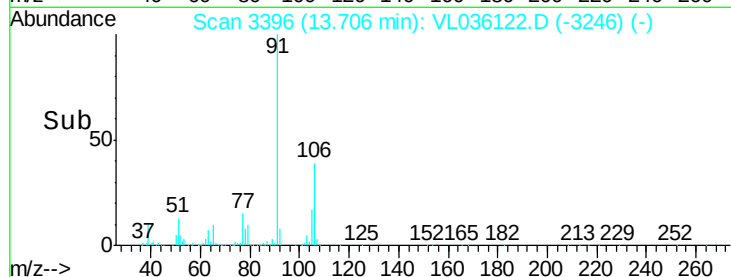
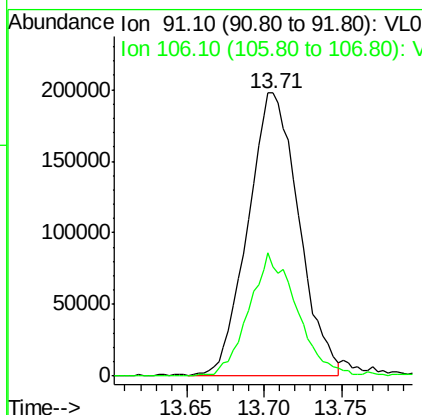
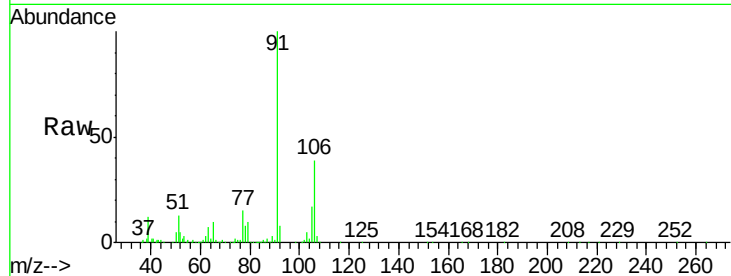
#60
o-Xylene
Concen: 1.823 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.02 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Instrument :
MSVOA_L
ClientSampled :
SS-6B

Tot Ion: 91 Resp: 449977
Ion Ratio Lower Upper
91 100
106 41.9 21.6 64.6

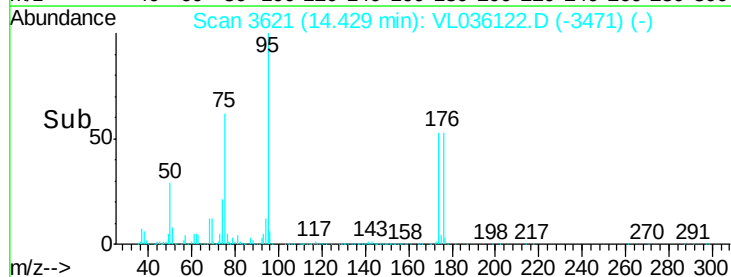
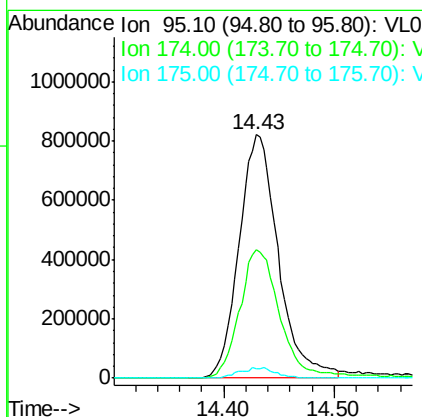
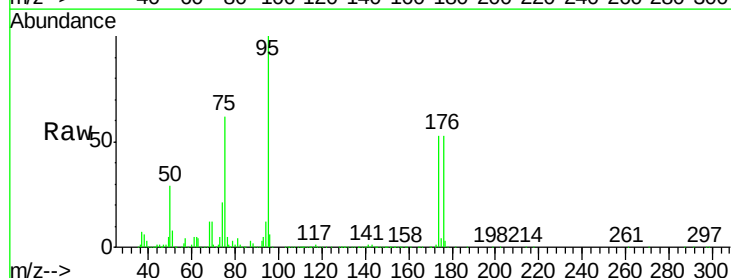
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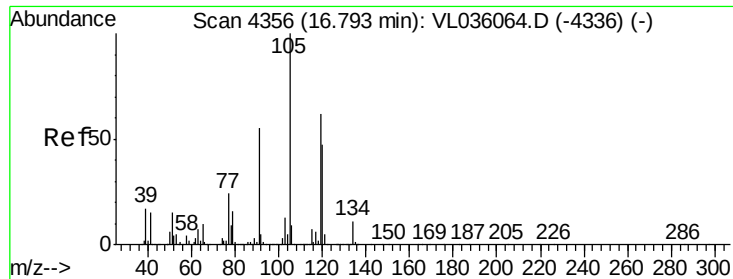
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#68
1-Bromo-4-Fluorobenzene
Concen: 11.262 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.02 min
Lab File: VL036122.D
Acq: 9 Dec 2020 8:43

Tgt Ion: 95 Resp: 2030116
Ion Ratio Lower Upper
95 100
174 55.4 50.7 76.1
175 4.1 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.294 ppbv m
 RT: 16.79 min Scan# 4354
 Delta R.T. -0.01 min
 Lab File: VL036122.D
 Acq: 9 Dec 2020 8:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-6B

Tot Ion:	105	Resp:	75451
Ion Ratio		Lower	Upper
105	100		
120	34.2	37.4	56.0#
91	19.1	45.6	68.4#
77	12.6	19.4	29.2#

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