

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035453.D
 Acq On : 18 Aug 2020 22:26
 Operator : SY/AP
 Sample : L3725-04 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-04

Manual Integrations
 APPROVED

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 8/20/2020 11:07:27 AM

Quant Time: Aug 19 03:42:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 18 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1122975	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5188887	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5151820	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3739227	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	240081	4.242	ppbv	97
10) Heptane	8.14	43	28247	0.190	ppbv #	75
13) Ethanol	3.60	45	409344	19.742	ppbv	98
15) Acetone	3.85	43	2460436	19.036	ppbv #	76
17) tert-Butyl alcohol	4.30	59	156196	0.935	ppbv	99
20) Methylene Chloride	4.35	84	88743	0.851	ppbv #	63
26) Hexane	5.70	57	82942	0.584	ppbv #	33
27) Carbon Disulfide	4.56	76	87908	0.428	ppbv #	87
29) Chloroform	5.77	83	27497	0.096	ppbv	98
30) Cyclohexane	7.14	84	21971m	0.140	ppbv	
34) 2-Butanone	5.25	43	1047892	6.044	ppbv #	70
36) Benzene	6.91	78	112937	0.297	ppbv #	89
41) Tetrahydrofuran	6.07	42	297629	3.112	ppbv #	52
43) Methyl Methacrylate	8.03	69	23700	0.159	ppbv #	75
50) 4-Methyl-2-Pentanone	8.76	43	570342	2.293	ppbv #	80
51) 2-Hexanone	10.17	43	70222	0.335	ppbv #	71
53) Toluene	9.83	91	541828	1.105	ppbv	98
58) Ethyl Benzene	12.74	91	142649	0.229	ppbv	96
59) m/p-Xylene	12.99	91	421519	0.802	ppbv #	83
60) o-Xylene	13.72	91	161926	0.317	ppbv	89
72) 4-Ethyltoluene	15.87	105	118018	0.176	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.03	105	116339	0.186	ppbv	93
74) 1,2,4-Trimethylbenzene	16.79	105	423958	0.625	ppbv #	71
79) Naphthalene	22.25	128	127197m	0.133	ppbv	

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

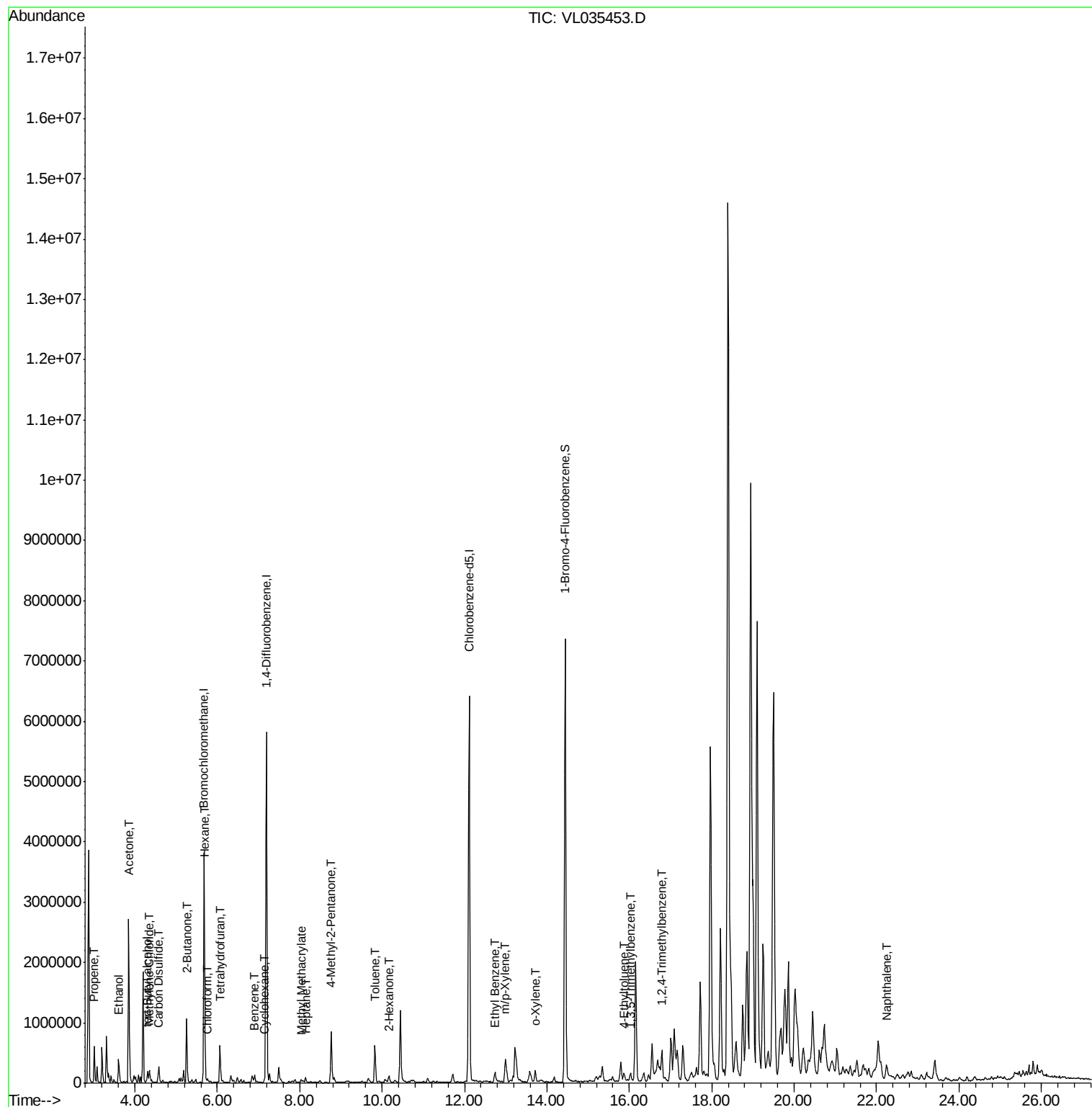
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081820\
Data File : VL035453.D
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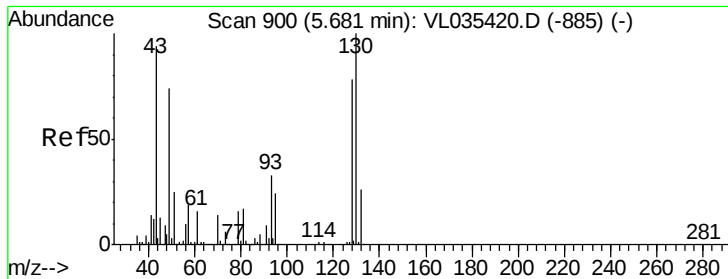
Instrument :
MSVOA_L
ClientSampleId :
SS-04

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Quant Time: Aug 19 03:42:32 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

SS-04

Tot Ion: 49 Resp: 1122975

Ion Ratio Lower Upper

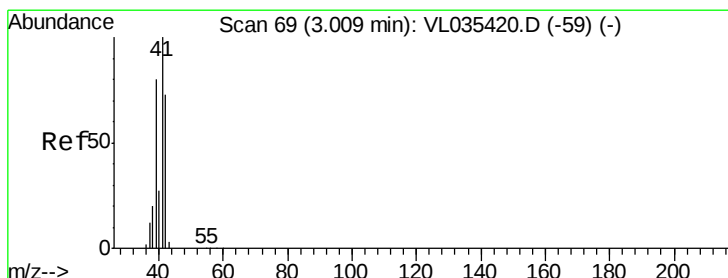
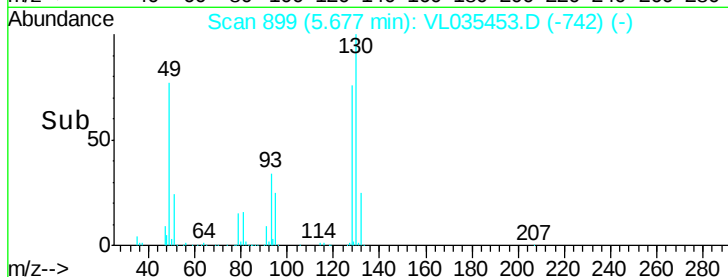
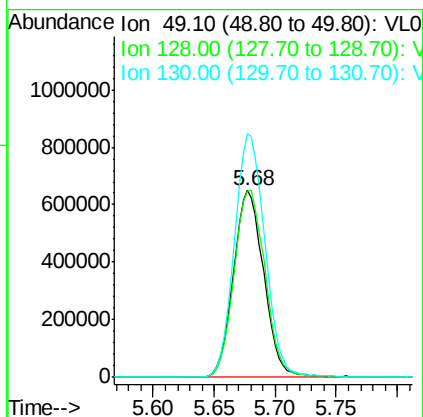
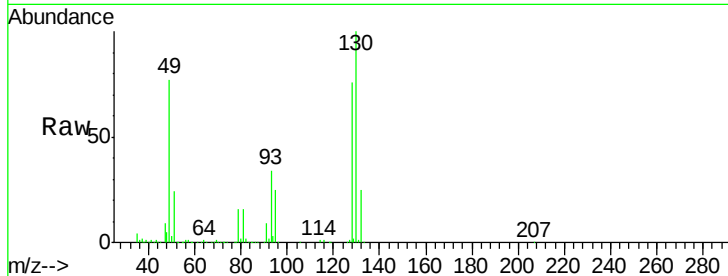
49 100

128 102.9 20.9 62.7#

130 132.0 26.7 80.1#

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#9

Propene

Concen: 4.242 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035453.D

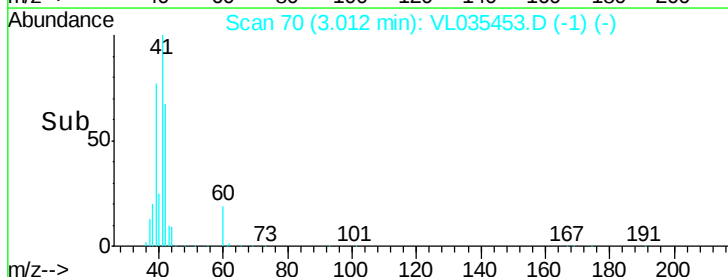
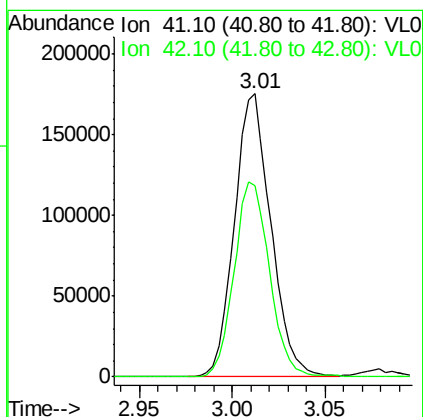
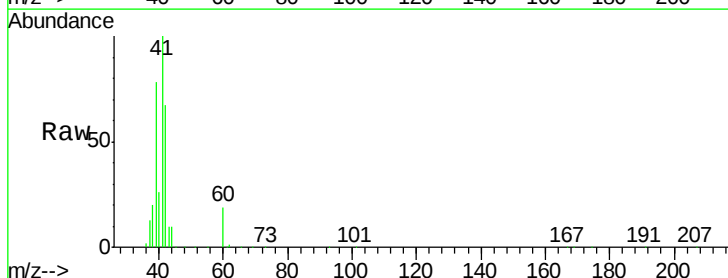
Acq: 18 Aug 2020 22:26

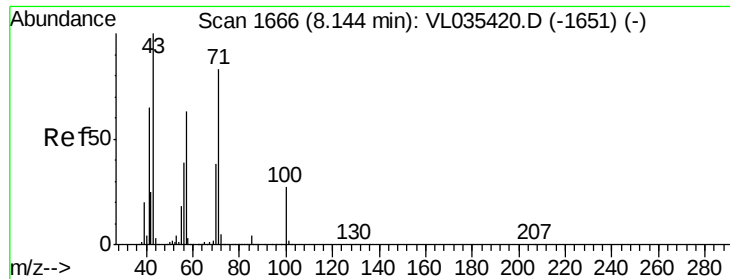
Tgt Ion: 41 Resp: 240081

Ion Ratio Lower Upper

41 100

42 67.2 55.5 83.3





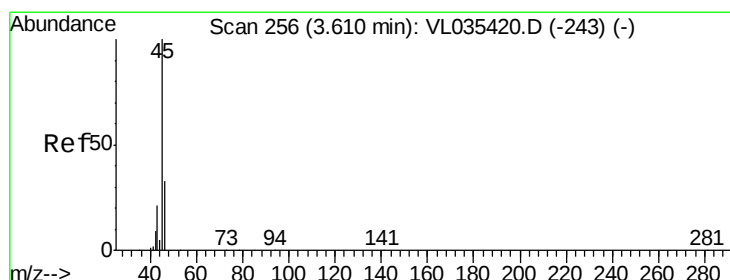
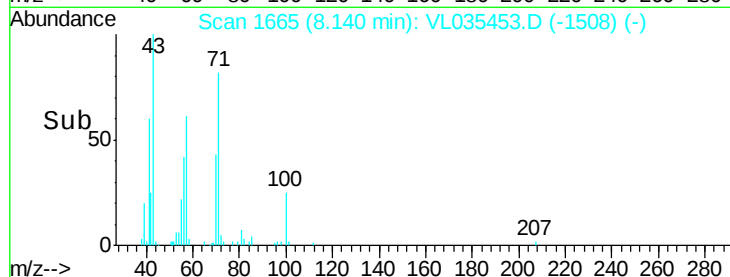
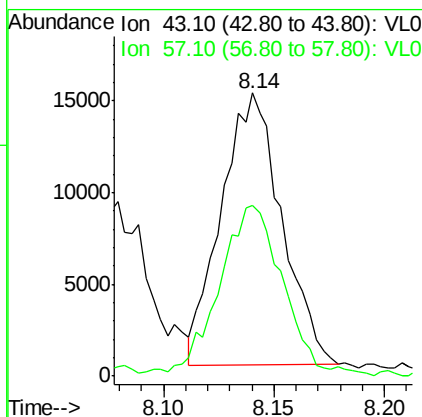
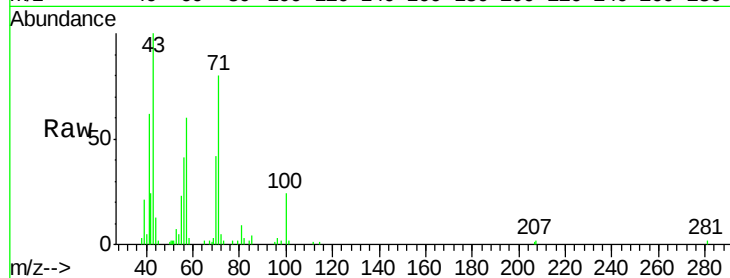
#10
Heptane
Concen: 0.190 ppbv
RT: 8.14 min Scan# 1665
Delta R.T. 0.00 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Instrument :
MSVOA_L
ClientSampleId :
SS-04

Tot Ion: 43 Resp: 28247
Ion Ratio Lower Upper
43 100
57 67.1 39.8 59.6#

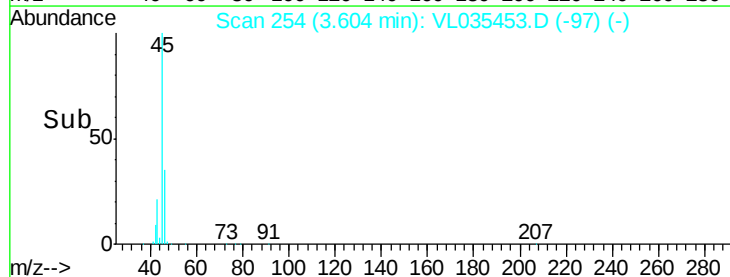
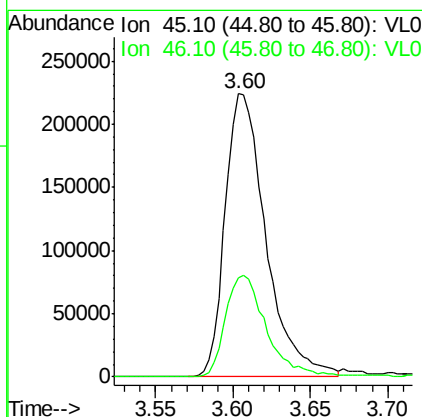
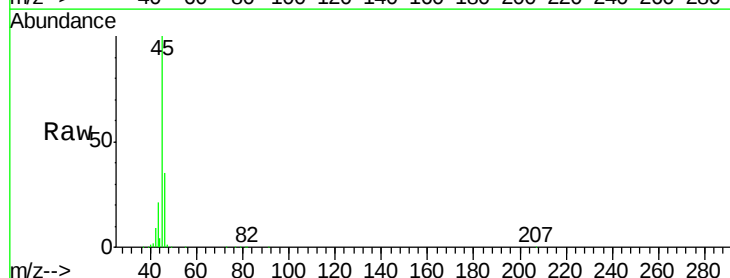
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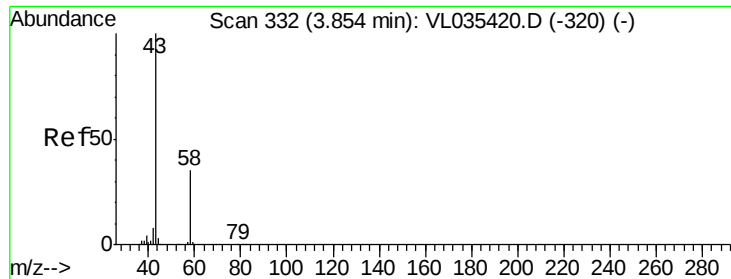
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#13
Ethanol
Concen: 19.742 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Tgt Ion: 45 Resp: 409344
Ion Ratio Lower Upper
45 100
46 36.6 14.2 56.6





#15

Acetone

Concen: 19.036 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

SS-04

Tot Ion: 43 Resp: 2460436

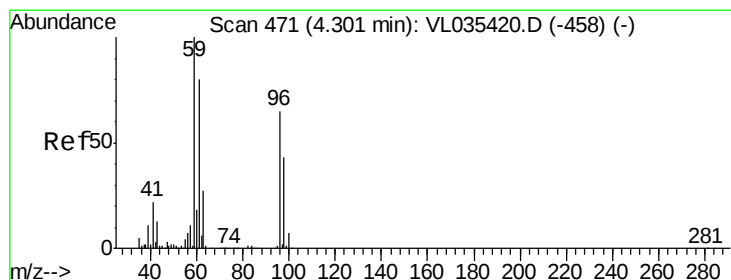
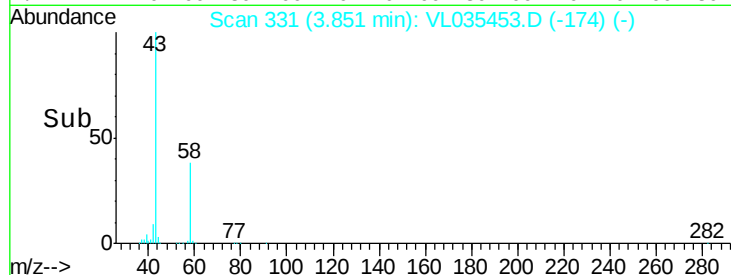
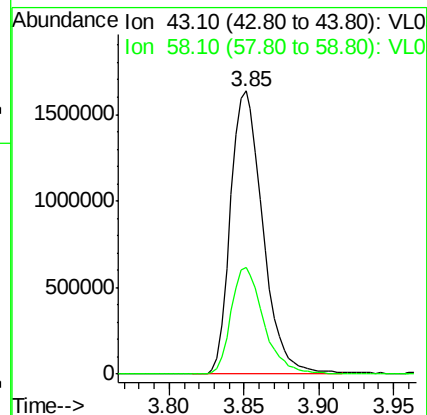
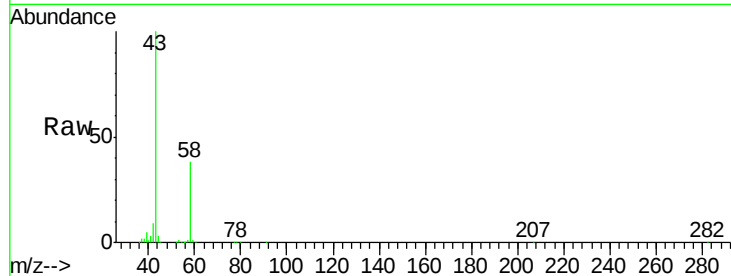
Ion Ratio Lower Upper

43 100

58 38.4 21.0 31.6#

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#17

tert-Butyl alcohol

Concen: 0.935 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.01 min

Lab File: VL035453.D

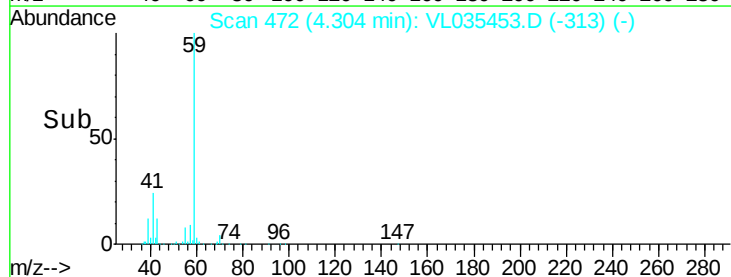
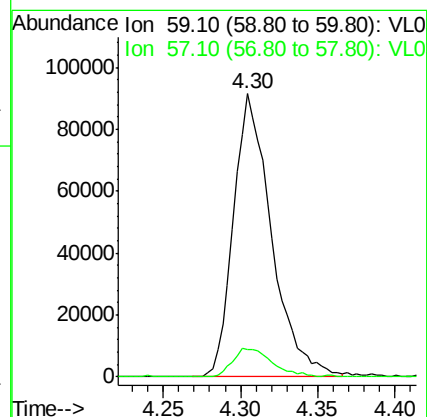
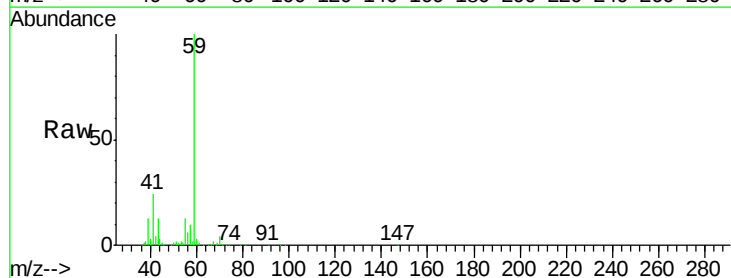
Acq: 18 Aug 2020 22:26

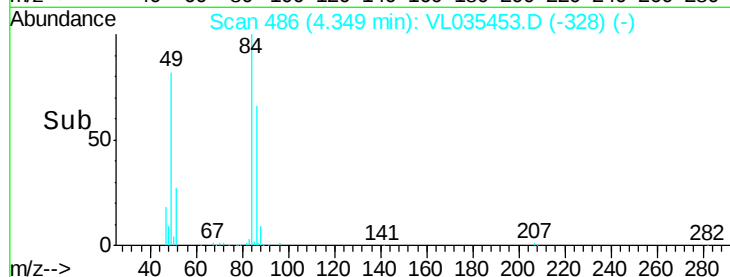
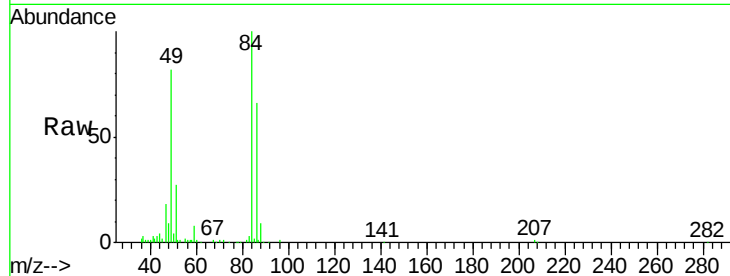
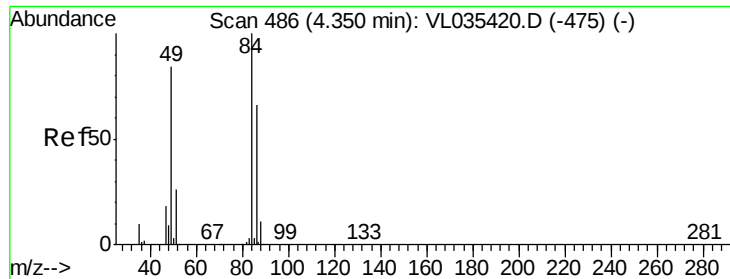
Tgt Ion: 59 Resp: 156196

Ion Ratio Lower Upper

59 100

57 10.7 8.9 13.3





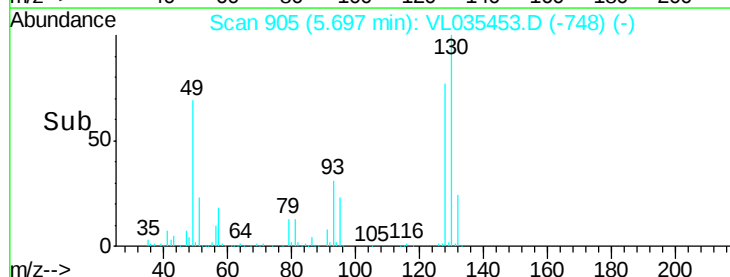
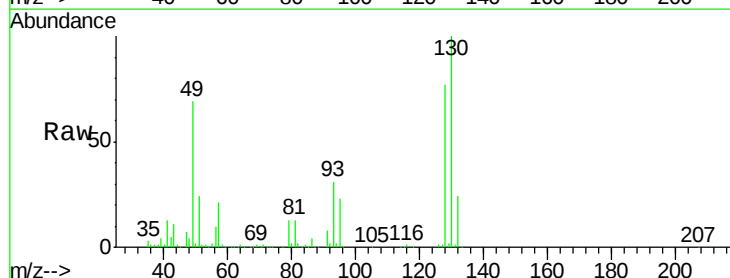
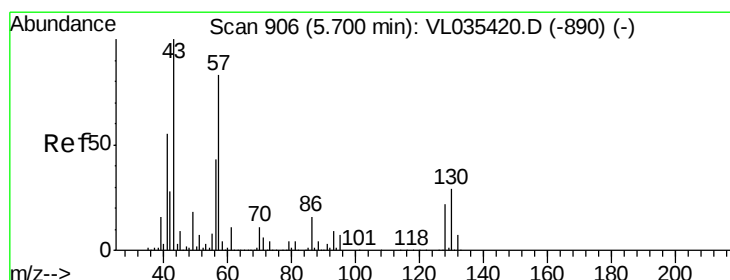
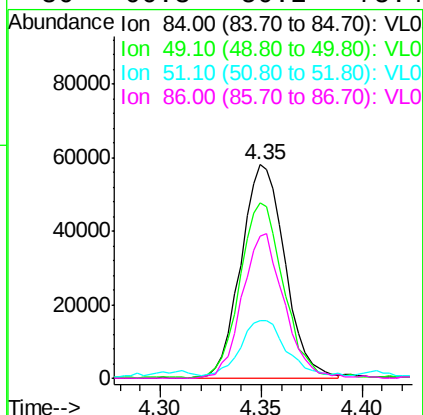
#20
Methvlene Chloride
Concen: 0.851 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Tot Ion	84	Resp	88743
Ion Ratio	100	Lower	Upper
84	100		
49	82.2	118.6	177.8#
51	24.5	36.4	54.6#
86	66.3	50.2	75.4

Instrument :
MSVOA_L
ClientSampled :
SS-04

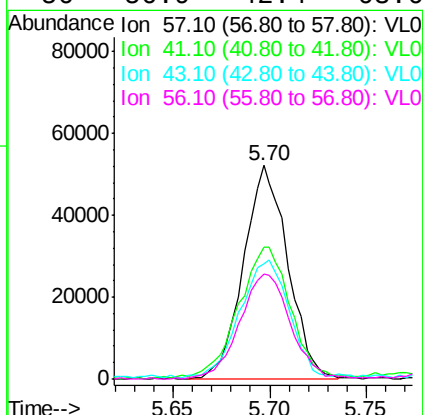
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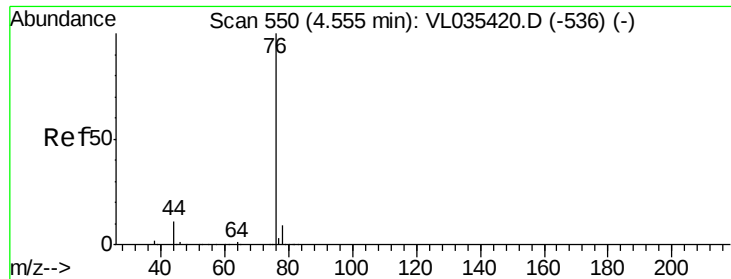
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#26
Hexane
Concen: 0.584 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Tgt Ion	57	Resp	82942
Ion Ratio	100	Lower	Upper
57	100		
41	71.2	75.5	113.3#
43	63.6	181.7	272.5#
56	56.9	42.4	63.6





#27

Carbon Disulfide

Concen: 0.428 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.01 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Instrument :

MSVOA_L

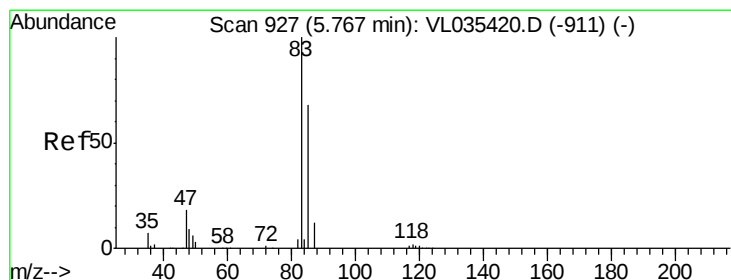
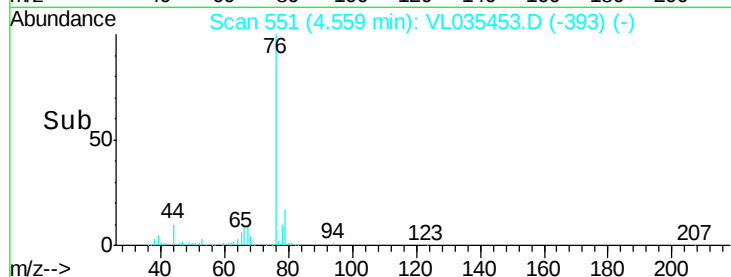
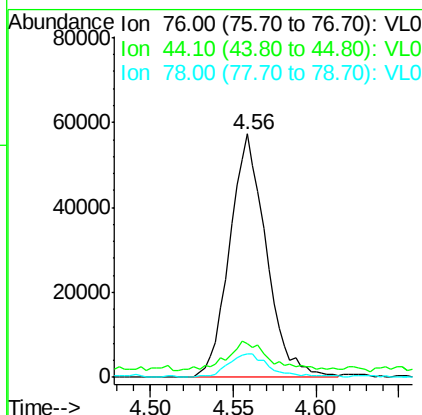
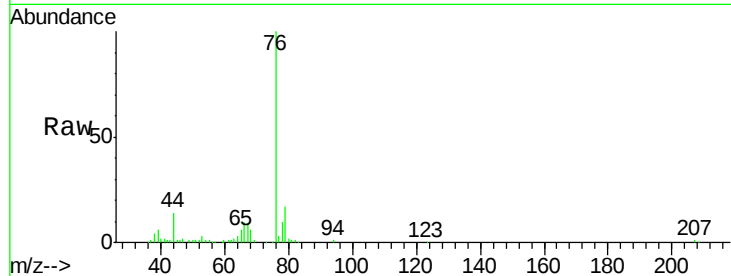
ClientSampleId :

SS-04

Tot Ion:	76	Resp:	87908
Ion Ratio	Lower	Upper	
76	100		
44	13.8	16.8	25.2#
78	12.1	7.3	10.9#

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#29

Chloroform

Concen: 0.096 ppbv

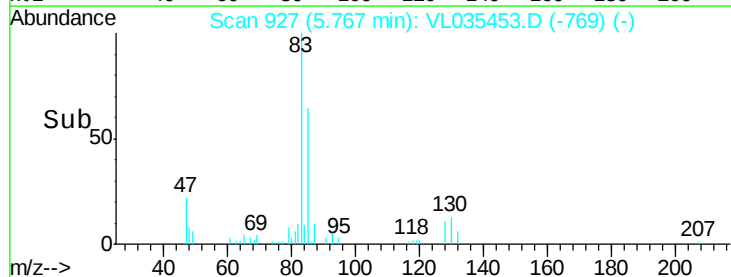
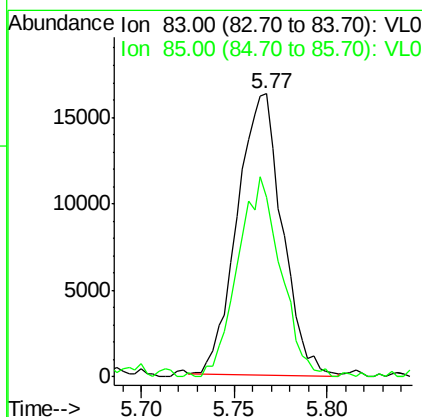
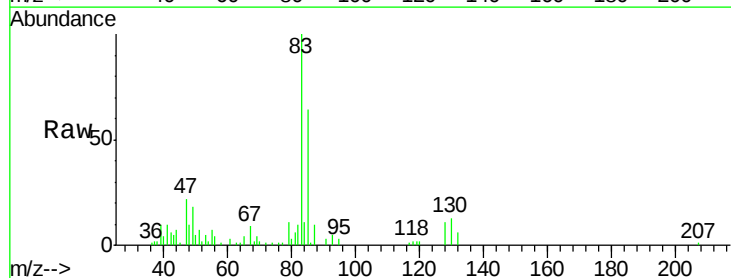
RT: 5.77 min Scan# 927

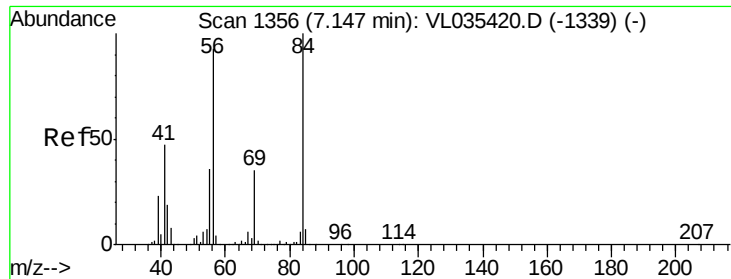
Delta R.T. 0.01 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Tgt Ion:	83	Resp:	27497
Ion Ratio	Lower	Upper	
83	100		
85	64.4	52.7	79.1





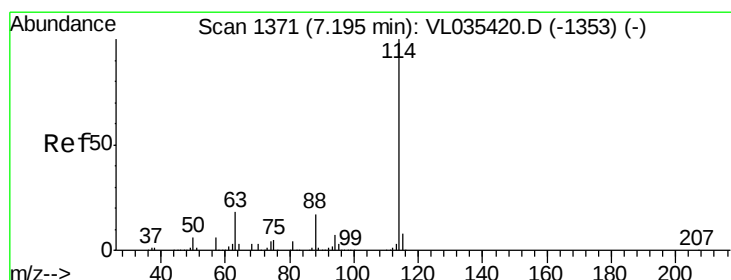
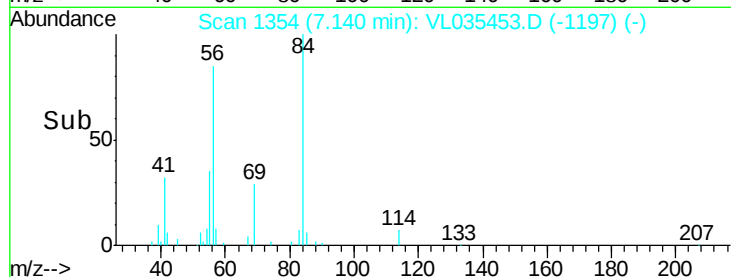
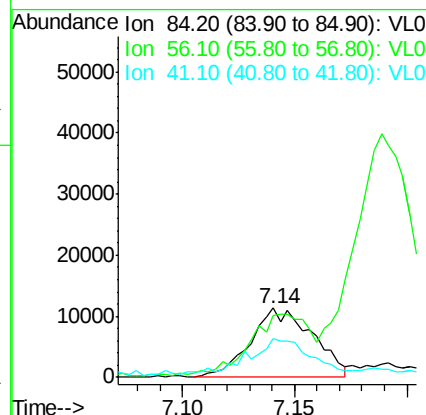
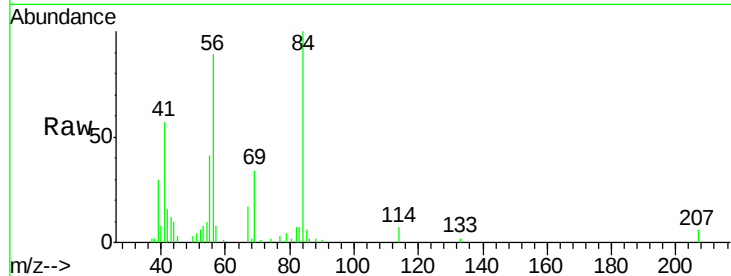
#30
Cvclohexane
Concen: 0.140 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. 0.00 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Instrument :
MSVOA_L
ClientSampled :
SS-04

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.9	172.3#
41	60.6	72.3	108.5#

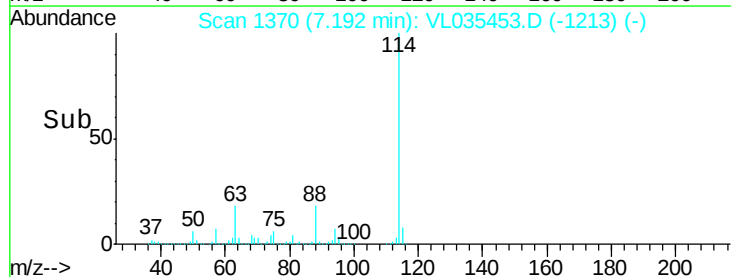
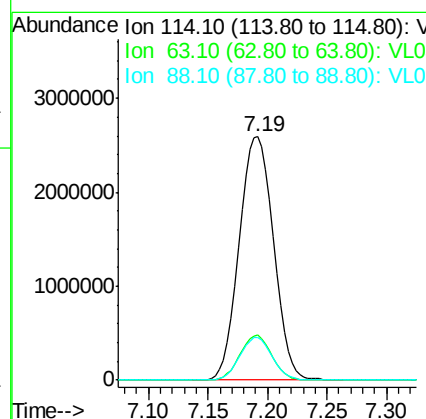
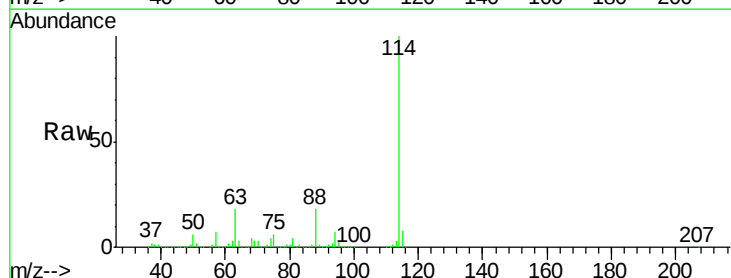
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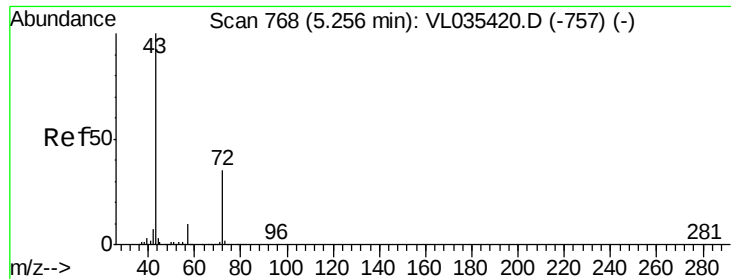
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.00 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.2	23.1	34.7#
88	16.5	15.9	23.9





#34

2-Butanone

Concen: 6.044 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Instrument :

MSVOA_L

ClientSampled :

SS-04

Tot Ion: 43 Resp: 1047892

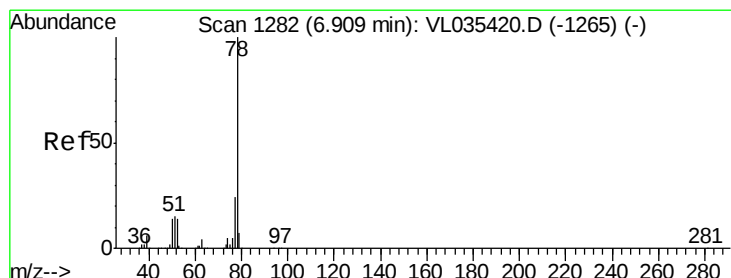
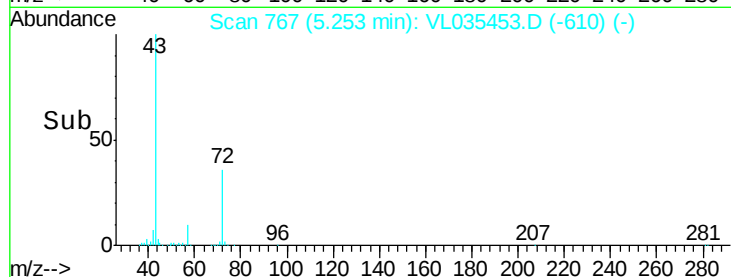
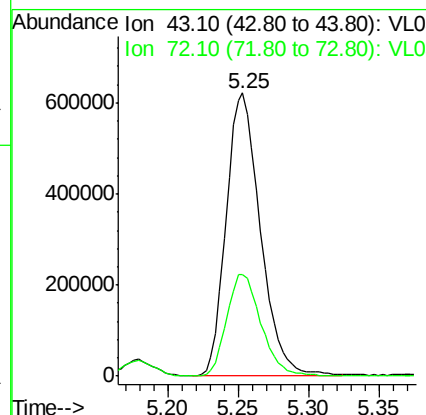
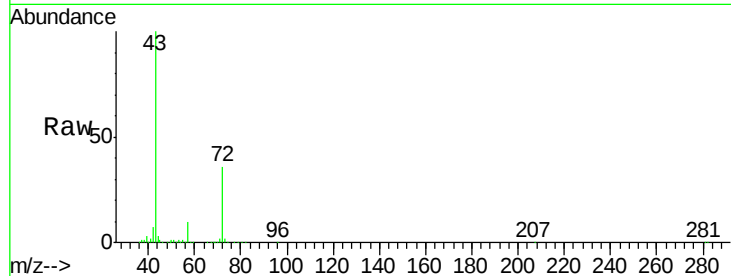
Ion Ratio Lower Upper

43 100

72 36.3 17.6 26.4#

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#36

Benzene

Concen: 0.297 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

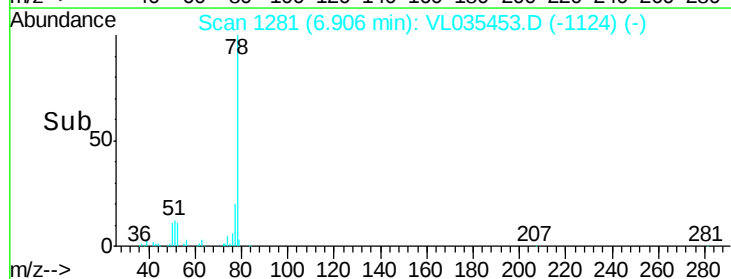
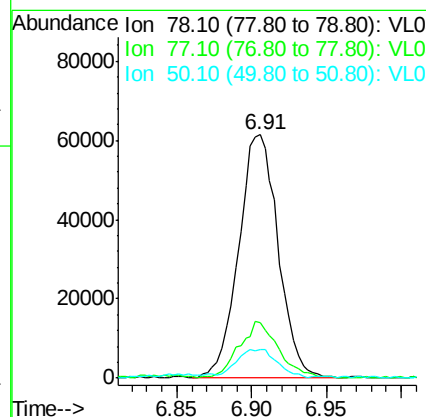
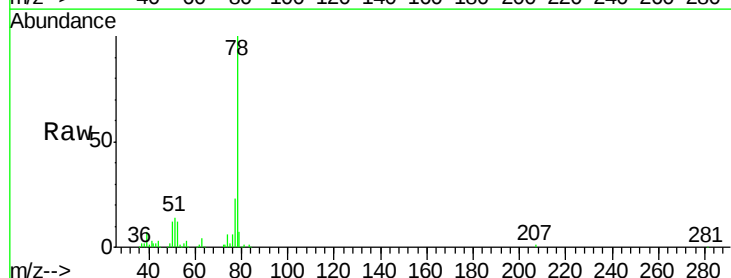
Tgt Ion: 78 Resp: 112937

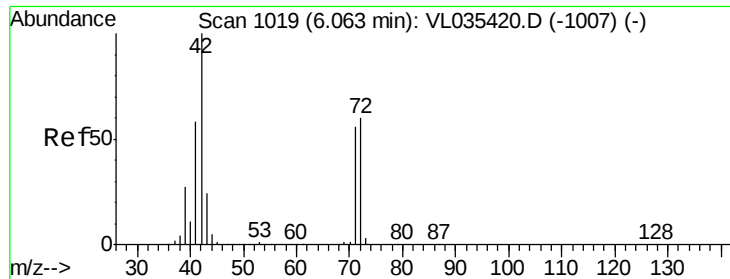
Ion Ratio Lower Upper

78 100

77 22.9 19.6 29.4

50 11.1 16.3 24.5#





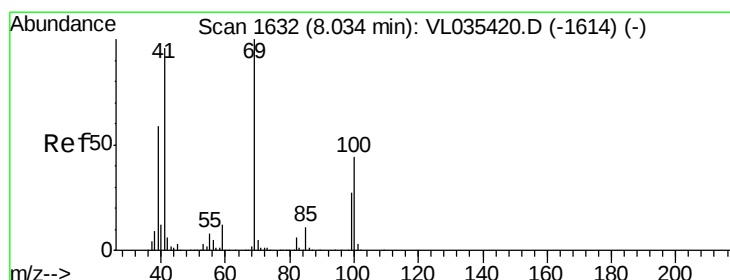
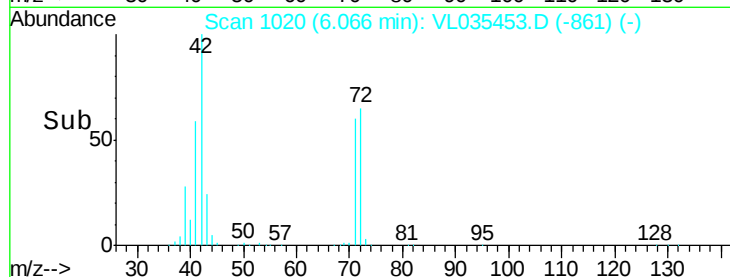
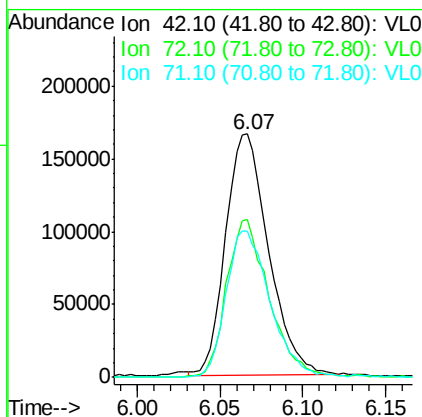
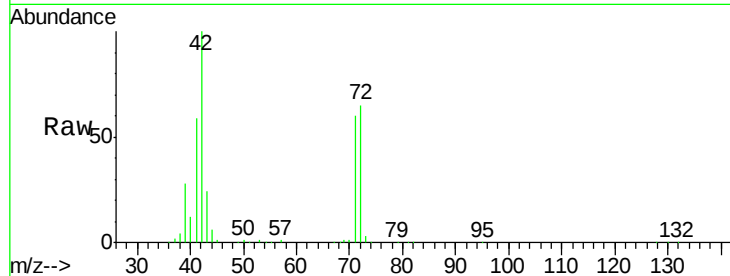
#41
Tetrahydrofuran
Concen: 3.112 ppbv
RT: 6.07 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Instrument :
MSVOA_L
ClientSampled :
SS-04

Tot Ion	Ratio	Lower	Upper
42	100		
72	65.9	29.4	44.2#
71	63.3	28.9	43.3#

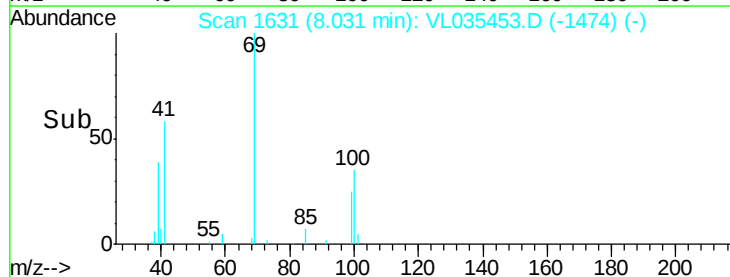
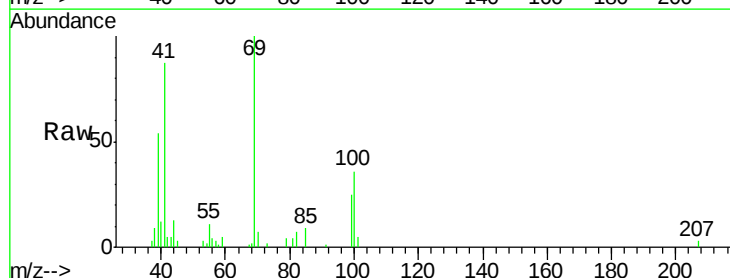
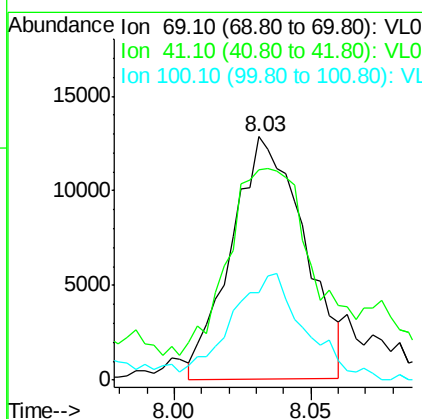
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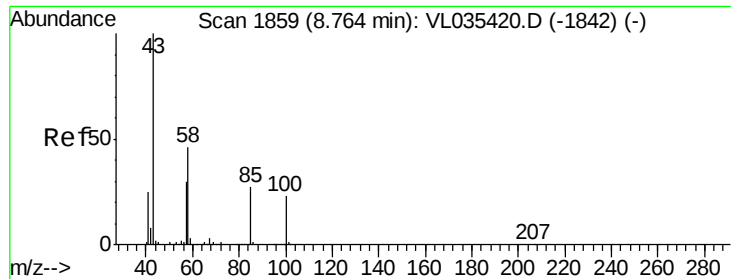
MMDadoda
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#43
Methyl Methacrylate
Concen: 0.159 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Tgt Ion	Ratio	Lower	Upper
69	100		
41	124.2	123.4	185.0
100	47.7	24.2	36.4#





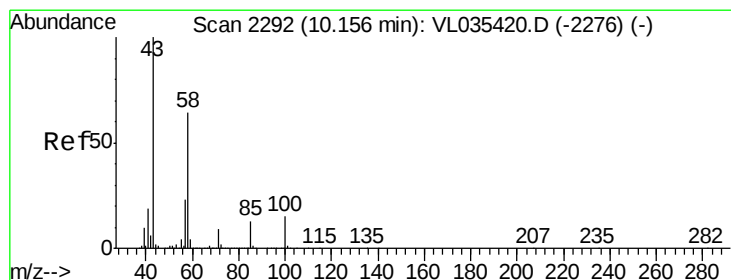
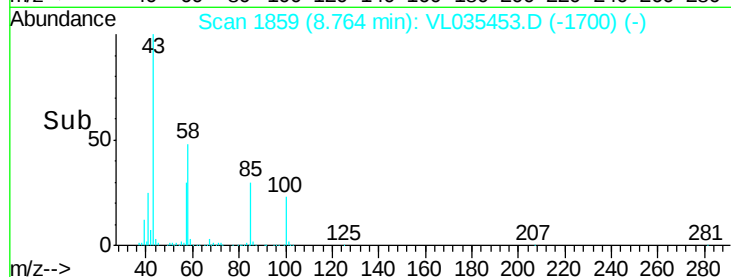
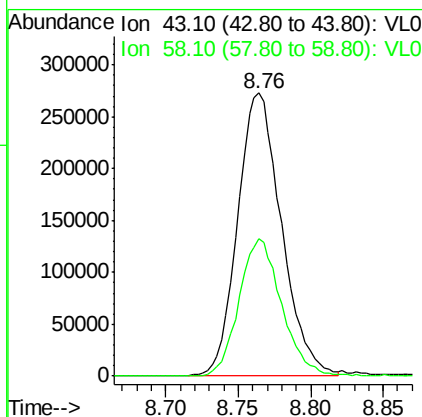
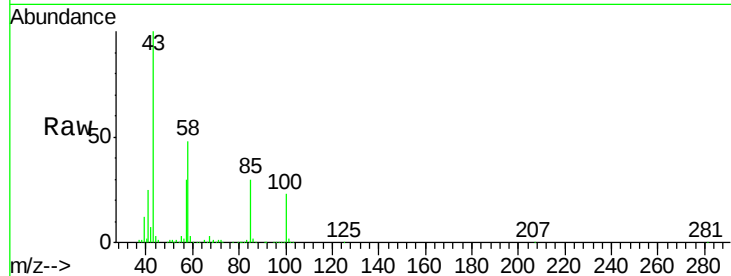
#50
 4-Methyl-2-Pentanone
 Concen: 2.293 ppbv
 RT: 8.76 min Scan# 1859
 Delta R.T. 0.01 min
 Lab File: VL035453.D
 Acq: 18 Aug 2020 22:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-04

Tot Ion: 43 Resp: 570342
 Ion Ratio Lower Upper
 43 100
 58 47.8 28.7 43.1#

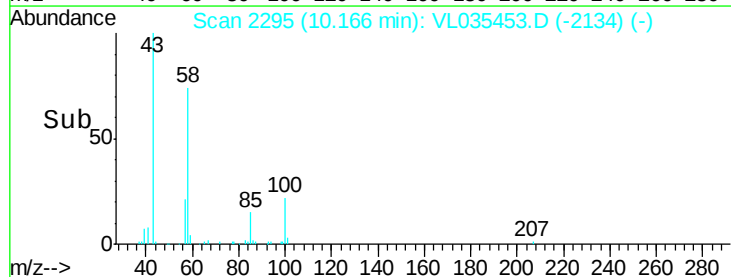
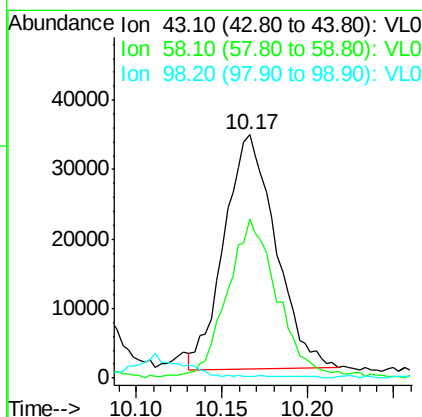
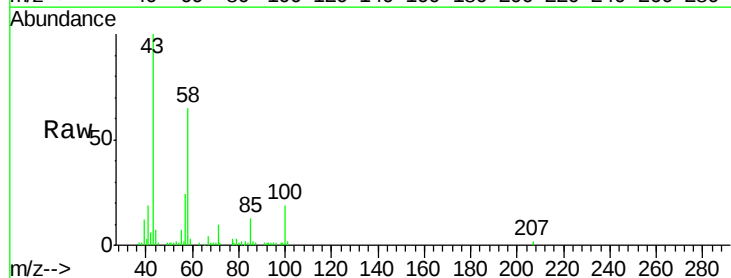
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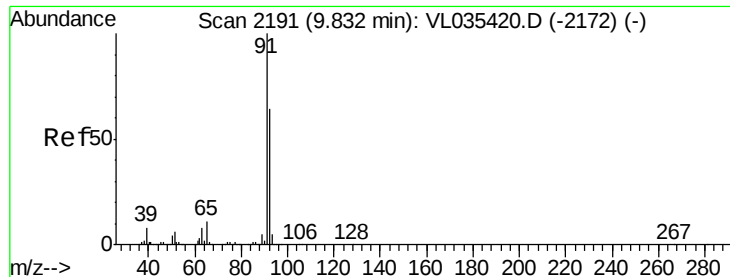
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#51
 2-Hexanone
 Concen: 0.335 ppbv
 RT: 10.17 min Scan# 2295
 Delta R.T. 0.02 min
 Lab File: VL035453.D
 Acq: 18 Aug 2020 22:26

Tgt Ion: 43 Resp: 70222
 Ion Ratio Lower Upper
 43 100
 58 68.2 38.6 58.0#
 98 0.4 0.2 0.2#





#53

Toluene

Concen: 1.105 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.01 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

SS-04

Tot Ion: 91 Resp: 541828

Ion Ratio Lower Upper

91 100

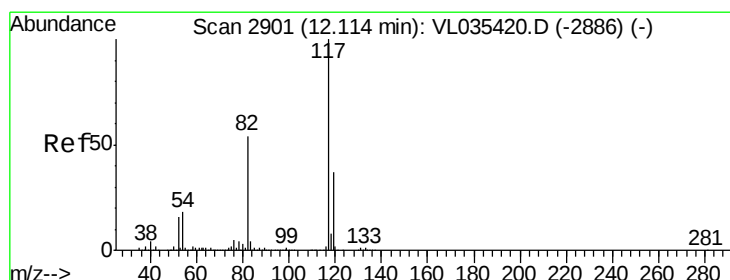
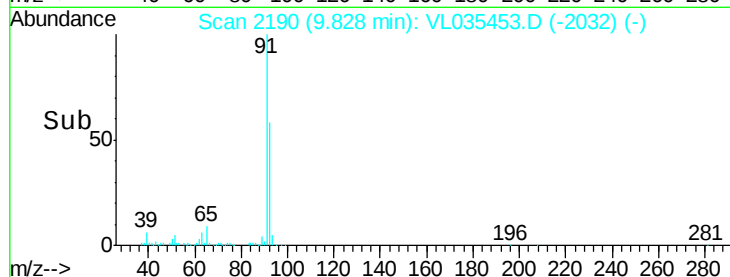
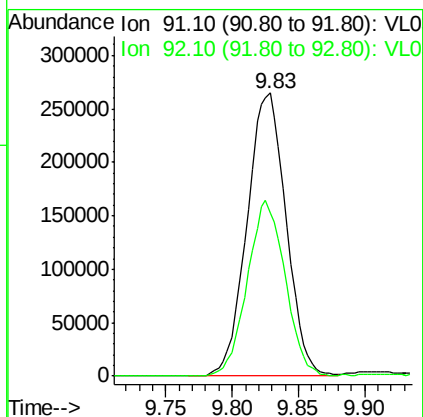
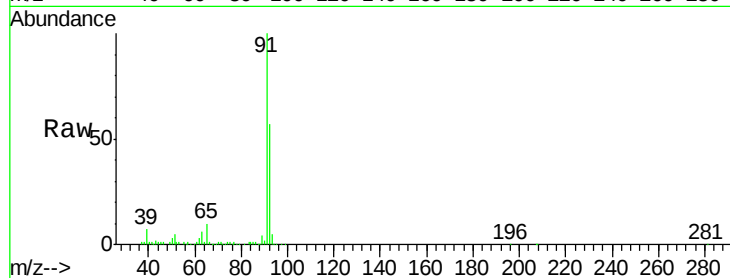
92 60.2 49.1 73.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

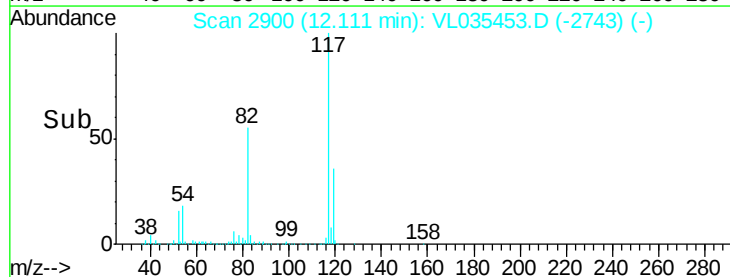
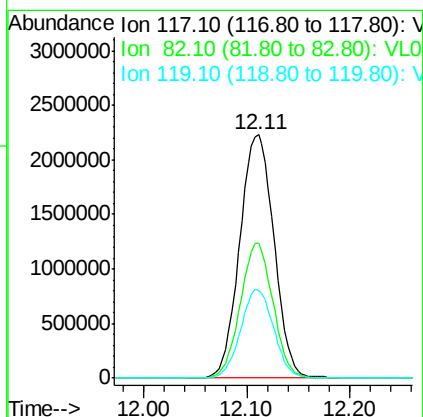
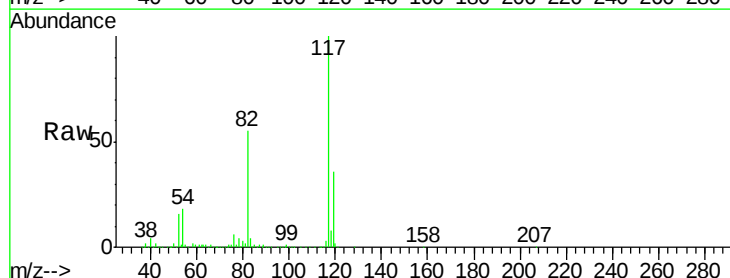
Tgt Ion: 117 Resp: 5151820

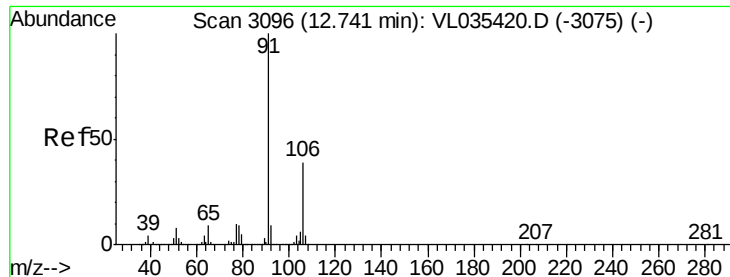
Ion Ratio Lower Upper

117 100

82 53.2 57.4 86.0#

119 35.1 28.4 42.6





#58

Ethyl Benzene

Concen: 0.229 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.01 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

SS-04

Tot Ion: 91 Resp: 142649

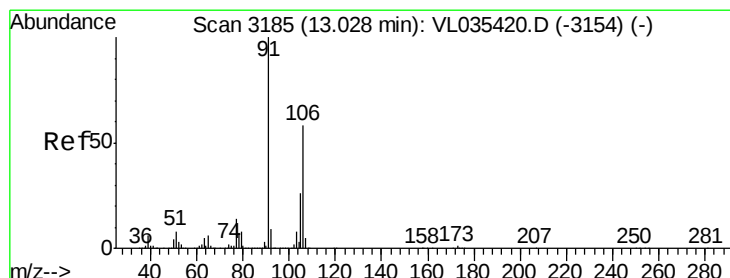
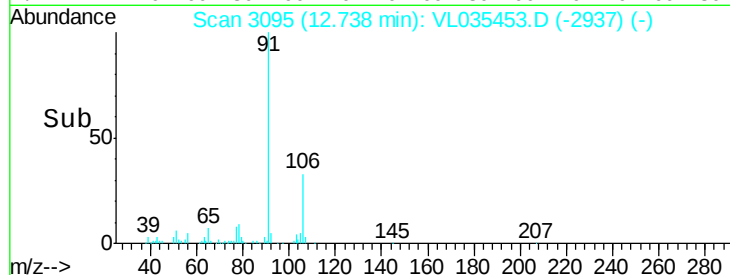
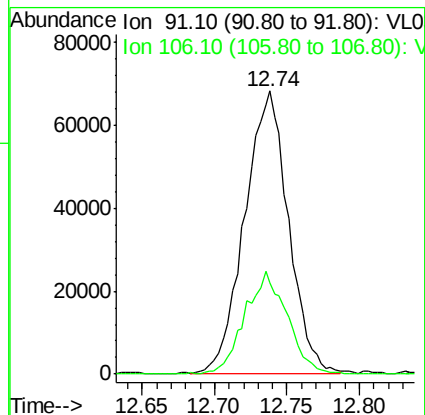
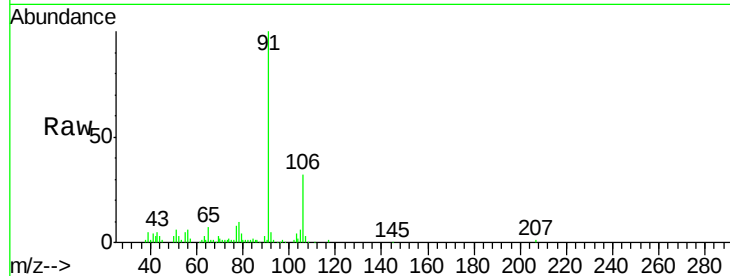
Ion Ratio Lower Upper

91 100

106 32.0 24.1 36.1

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#59

m/p-Xylene

Concen: 0.802 ppbv

RT: 12.99 min Scan# 3174

Delta R.T. -0.03 min

Lab File: VL035453.D

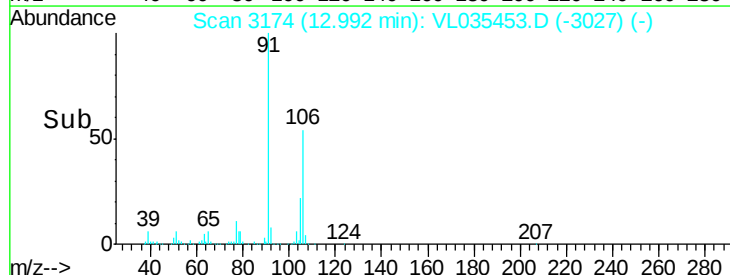
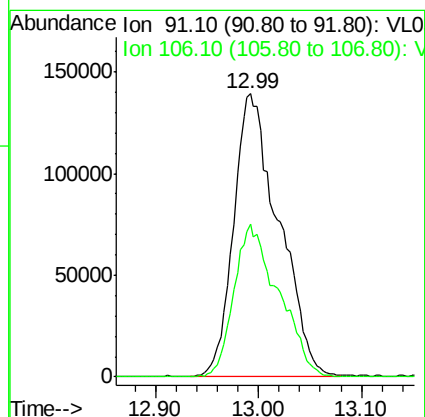
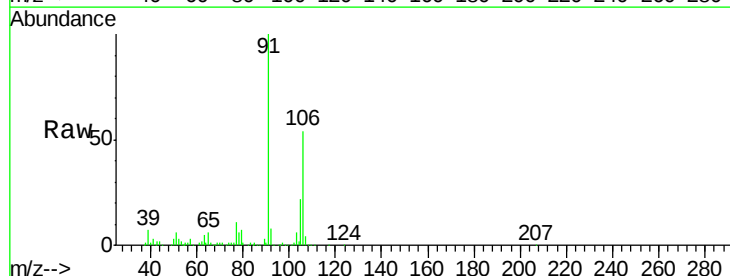
Acq: 18 Aug 2020 22:26

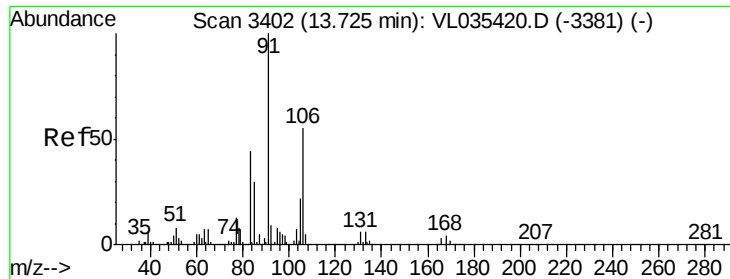
Tgt Ion: 91 Resp: 421519

Ion Ratio Lower Upper

91 100

106 53.4 34.0 51.0#





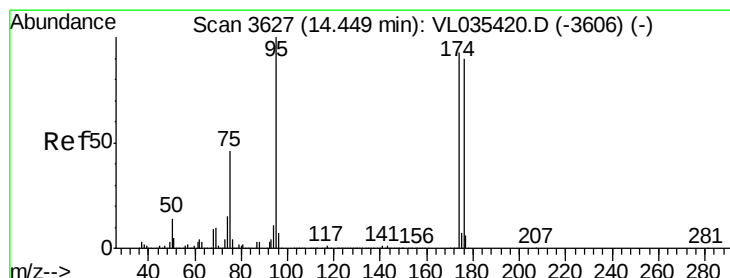
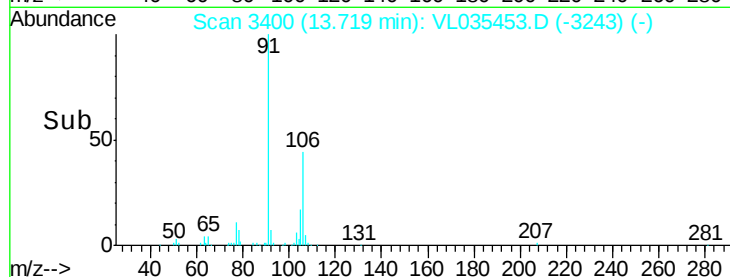
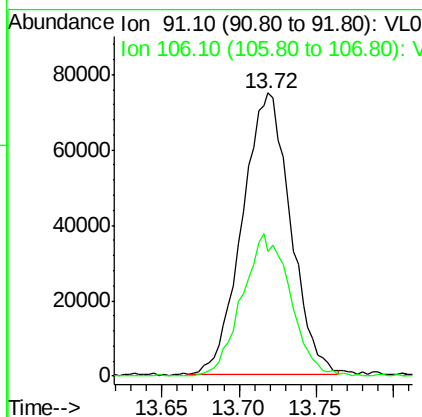
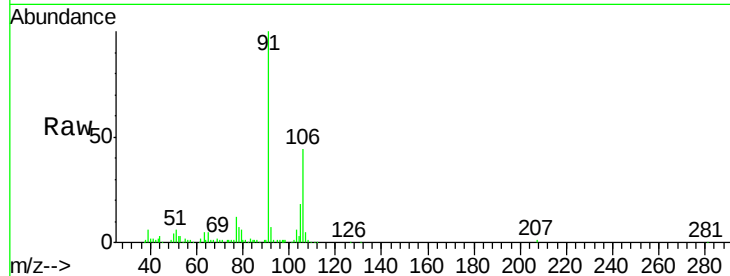
#60
o-Xylene
Concen: 0.317 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. 0.00 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Instrument :
MSVOA_L
ClientSampled :
SS-04

Tot Ion: 91 Resp: 161926
Ion Ratio Lower Upper
91 100
106 50.4 21.8 65.3

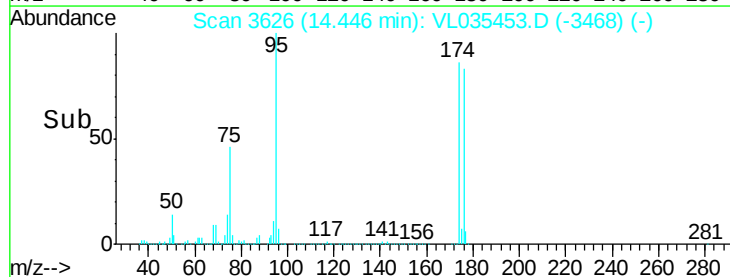
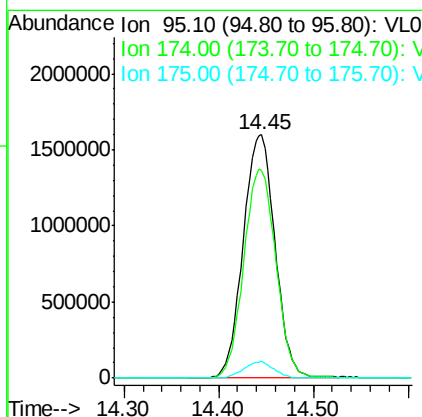
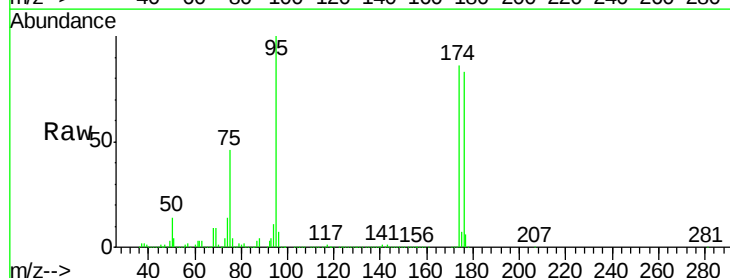
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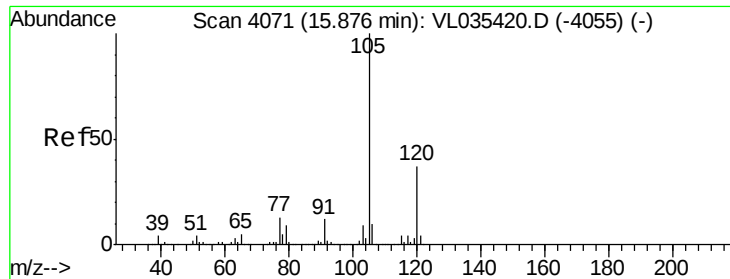
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.367 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. 0.01 min
Lab File: VL035453.D
Acq: 18 Aug 2020 22:26

Tgt Ion: 95 Resp: 3739227
Ion Ratio Lower Upper
95 100
174 87.3 44.0 66.0#
175 6.4 3.2 4.8#





#72

4-Ethyltoluene

Concen: 0.176 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. 0.00 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Instrument :

MSVOA_L

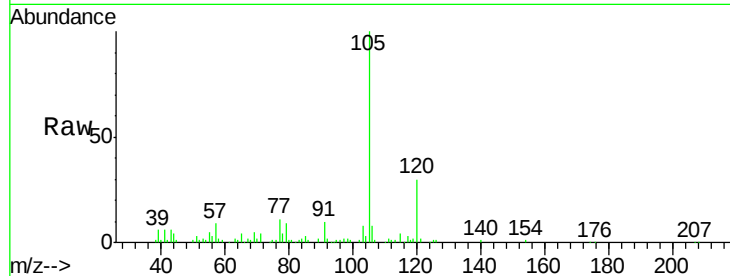
ClientSampled :

SS-04

Tot Ion	Ratio	Resp	Lower	Upper
105	100	118018		
120	33.8	22.7	34.1	
91	11.6	10.8	16.2	
77	11.8	11.9	17.9	

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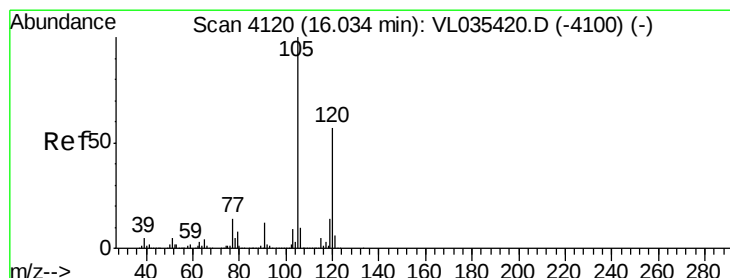
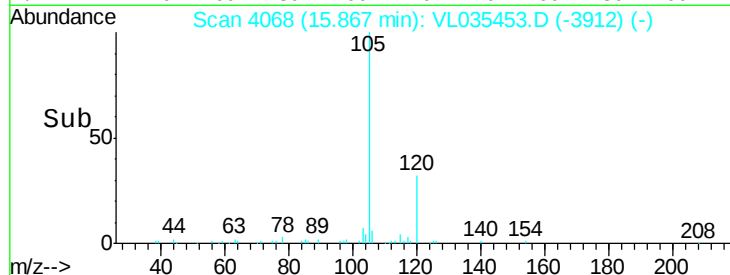
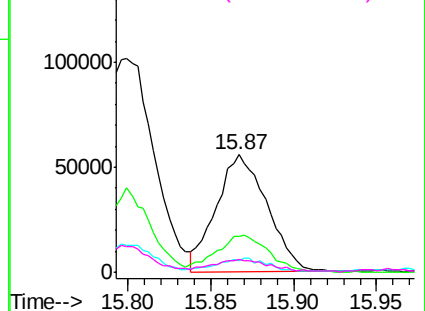
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.186 ppbv

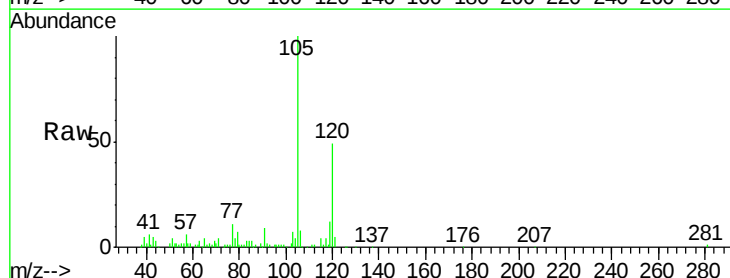
RT: 16.03 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

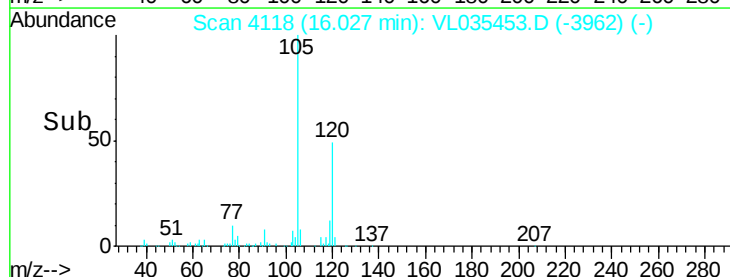
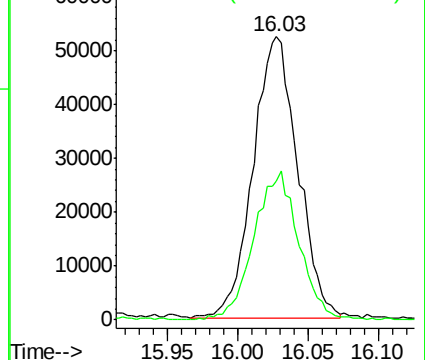
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	116339		
120	49.3	35.6	53.4	

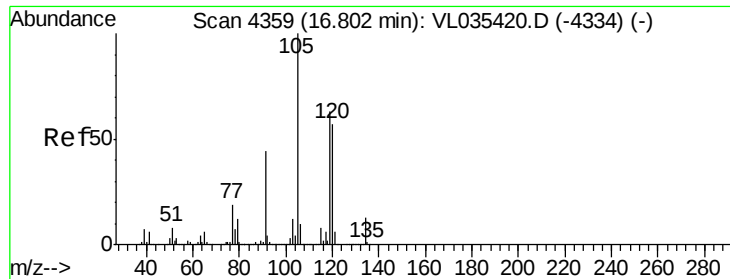


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.625 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.00 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Instrument :

MSVOA_L

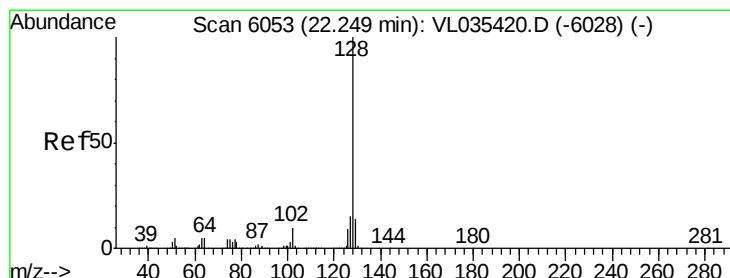
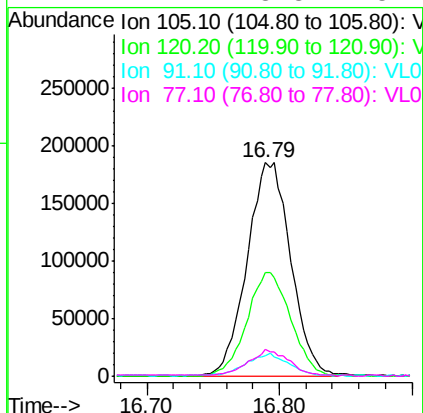
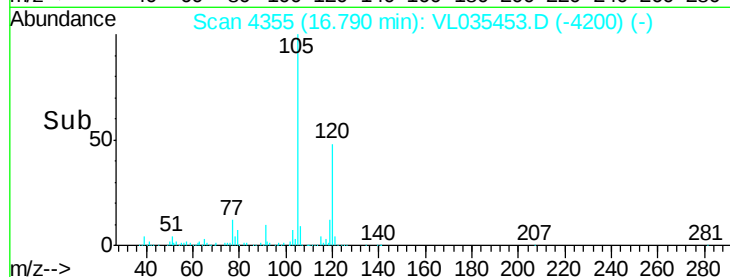
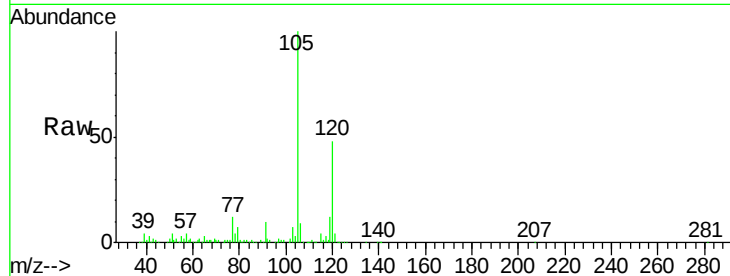
ClientSampled :

SS-04

Tot Ion	Ratio	Resp	Lower	Upper
105	100	423958		
120	48.3		37.8	56.8
91	9.4		40.0	60.0#
77	12.2		18.8	28.2#

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#79

Naphthalene

Concen: 0.133 ppbv m

RT: 22.25 min Scan# 6053

Delta R.T. 0.01 min

Lab File: VL035453.D

Acq: 18 Aug 2020 22:26

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	127197		
127	10.4		11.4	17.0#
129	13.3		9.5	14.3

