

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036109.D
 Acq On : 9 Dec 2020 00:24
 Operator : SY/AP
 Sample : L4949-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL

Manual Integrations
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 12/11/2020 12:23:51 PM

Quant Time: Dec 09 22:43:05 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	1141457	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.18	114	2515819	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2297745	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1936496	10.61	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	211130	3.236	ppbv #	60
13) Ethanol	3.60	45	393427m	43.745	ppbv	
15) Acetone	3.85	43	2386710	17.398	ppbv	99
19) Isopropyl Alcohol	3.97	45	358839m	4.280	ppbv	
25) Ethyl Acetate	5.68	43	318698	1.163	ppbv #	62
34) 2-Butanone	5.25	43	527950	3.164	ppbv	98
41) Tetrahydrofuran	6.07	42	74703m	0.754	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	110869m	0.287	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	176557m	0.709	ppbv	
52) Tetrachloroethene	11.25	164	9115m	0.118	ppbv	
53) Toluene	9.82	91	2739746	11.444	ppbv	99
58) Ethyl Benzene	12.72	91	156793m	0.498	ppbv	
59) m/p-Xylene	12.98	91	515839m	1.945	ppbv	
60) o-Xylene	13.71	91	176830m	0.708	ppbv	
72) 4-Ethyltoluene	15.86	105	55955m	0.207	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	43050m	0.167	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	102825	0.396	ppbv #	60

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

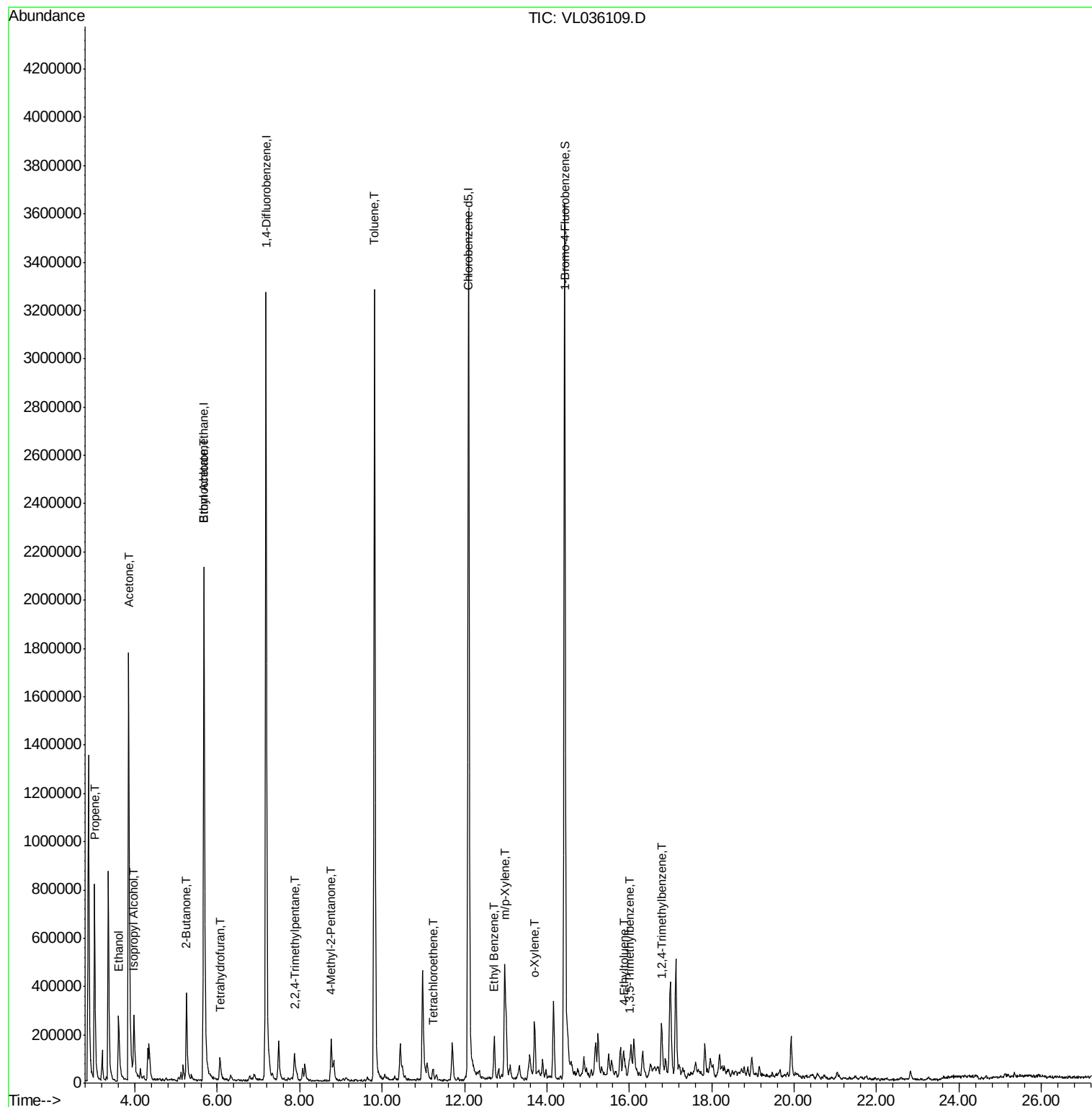
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120820\
Data File : VL036109.D
Acq On : 9 Dec 2020 00:24
Operator : SY/AP
Sample : L4949-06DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

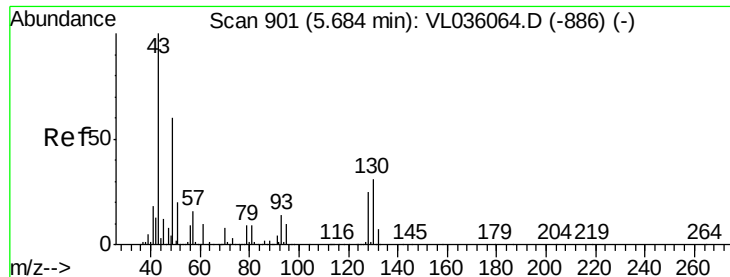
Instrument :
MSVOA_L
ClientSampled :
IA-5DL

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12/11/2020 12:23:51 PM

Quant Time: Dec 09 22:43:05 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# 897

Delta R.T. -0.01 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

Instrument :

MSVOA_L

ClientSampleId :

IA-5DL

Tot Ion: 49 Resp: 1141457

Ion Ratio Lower Upper

49 100

128 39.9 21.1 63.1

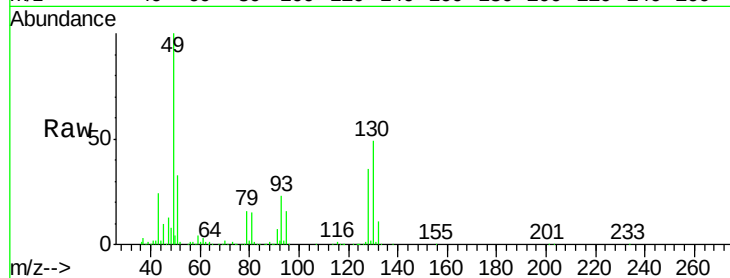
130 49.3 27.1 81.3

Manual Integrations

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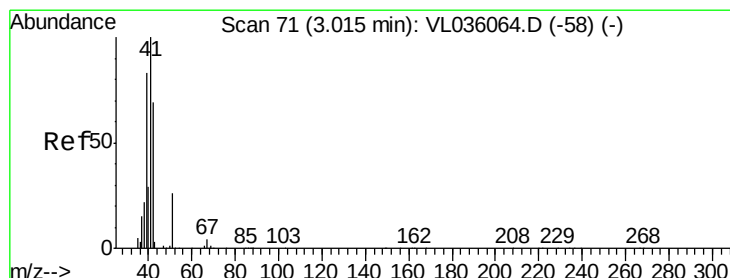
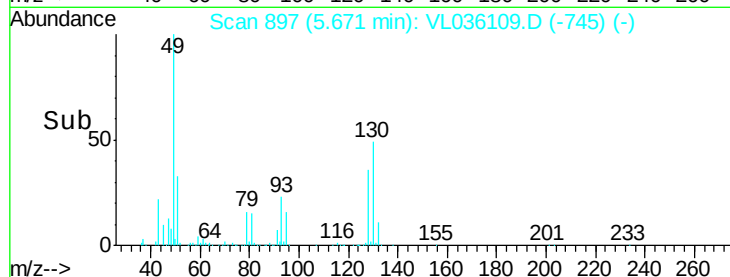
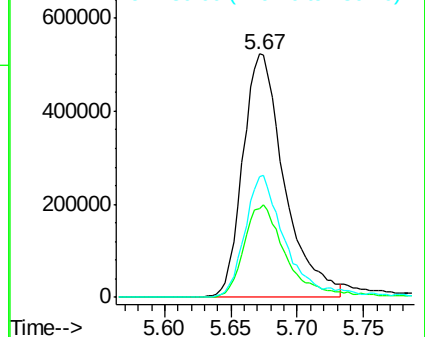
12/11/2020 12:23:51 PM



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



#9

Propene

Concen: 3.236 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036109.D

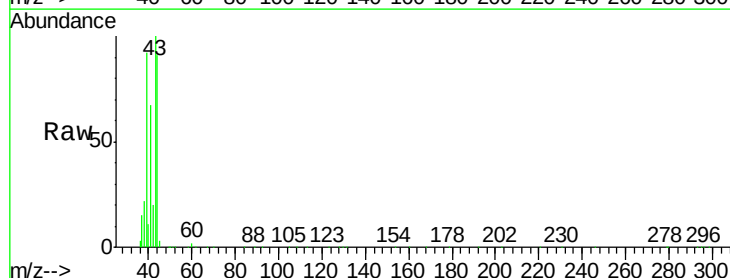
Acq: 9 Dec 2020 00:24

Tgt Ion: 41 Resp: 211130

Ion Ratio Lower Upper

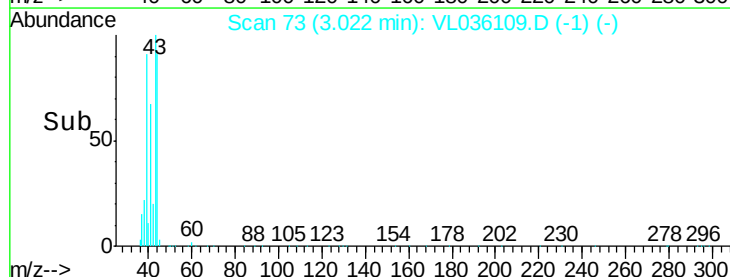
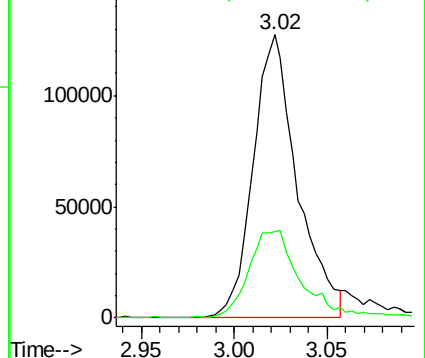
41 100

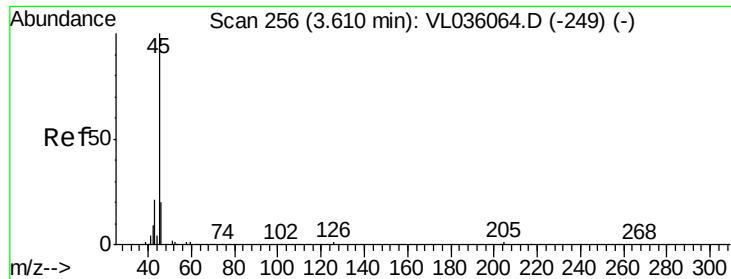
42 37.8 57.0 85.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





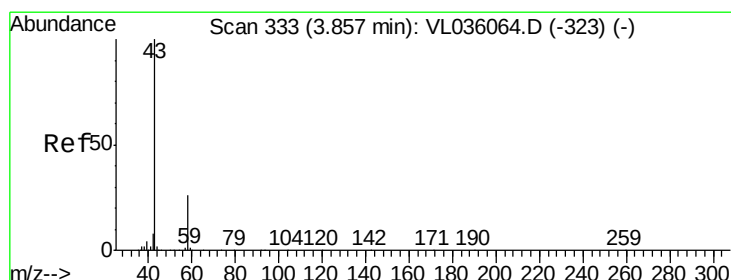
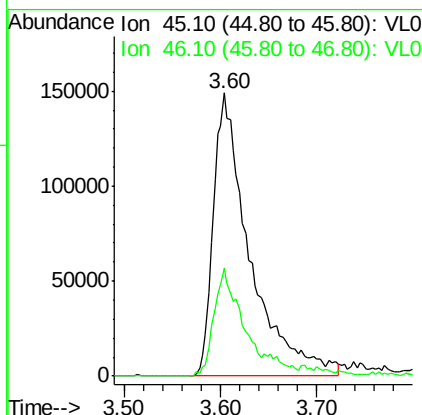
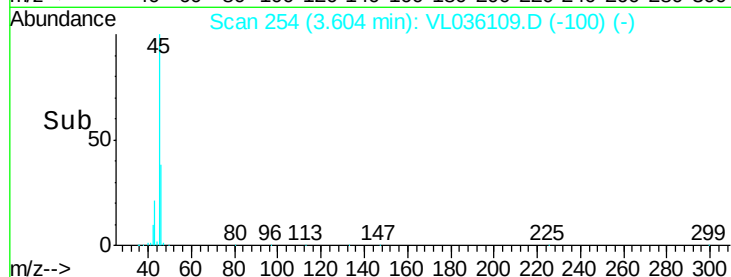
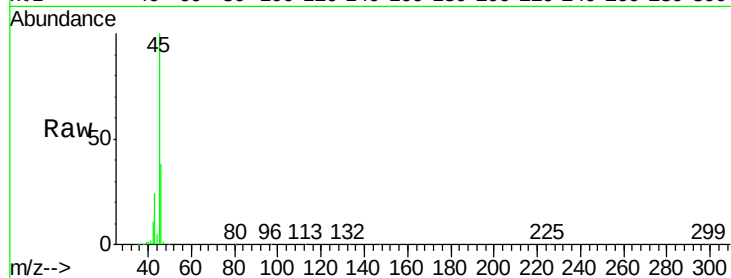
#13
Ethanol
Concen: 43.745 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL036109.D
Acq: 9 Dec 2020 00:24

Instrument :
MSVOA_L
ClientSampled :
IA-5DL

Tot Ion: 45 Resp: 393427
Ion Ratio Lower Upper
45 100
46 32.8 19.0 75.8

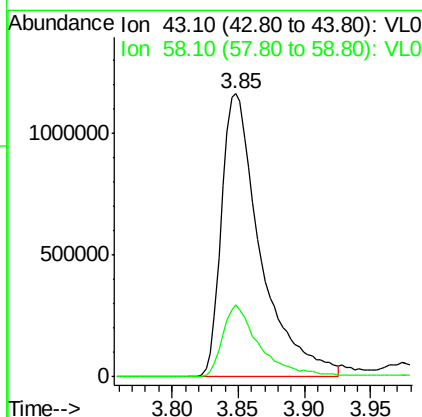
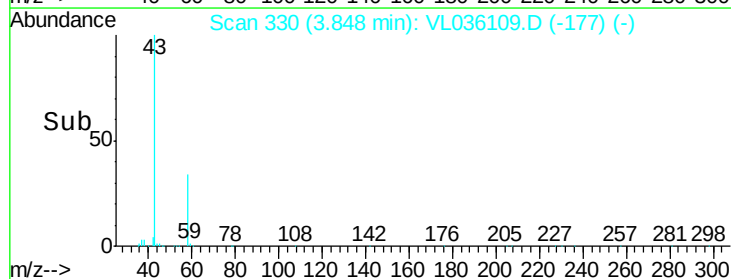
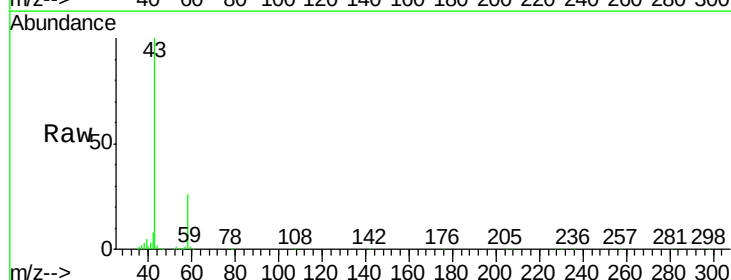
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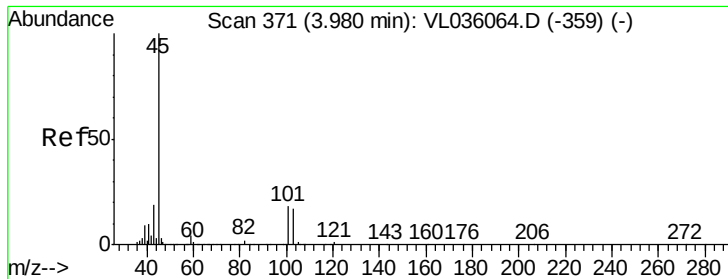
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#15
Acetone
Concen: 17.398 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL036109.D
Acq: 9 Dec 2020 00:24

Tgt Ion: 43 Resp: 2386710
Ion Ratio Lower Upper
43 100
58 25.7 20.9 31.3





#19

Isopropyl Alcohol

Concen: 4.280 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. -0.01 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

Instrument :

MSVOA_L

ClientSampleId :

IA-5DL

Tot Ion: 45 Resp: 358839

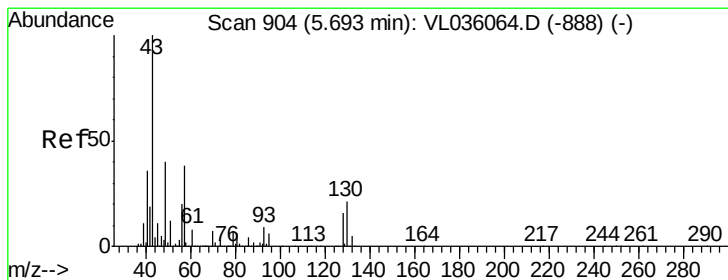
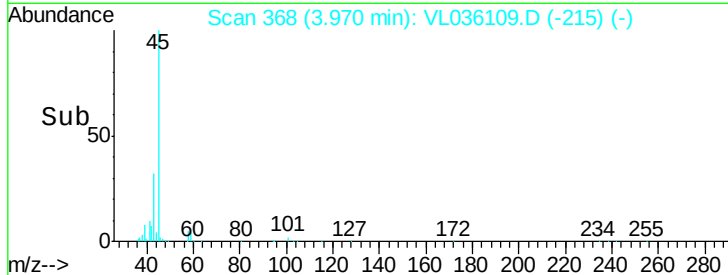
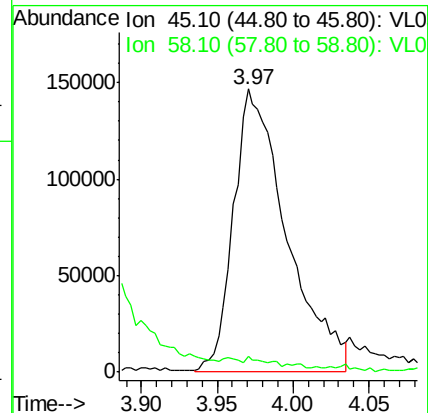
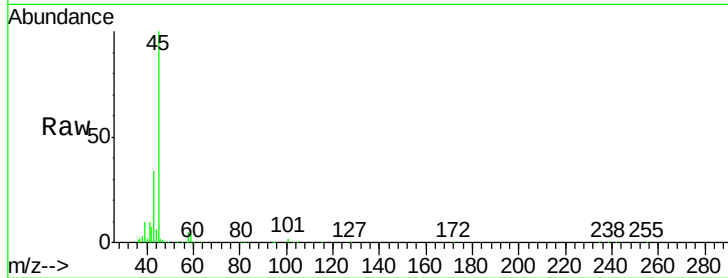
Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0

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#25

Ethyl Acetate

Concen: 1.163 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

Tgt Ion: 43 Resp: 318698

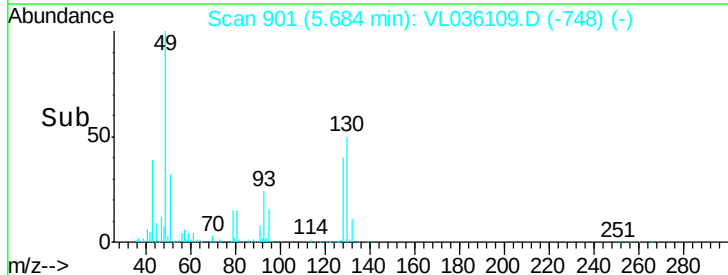
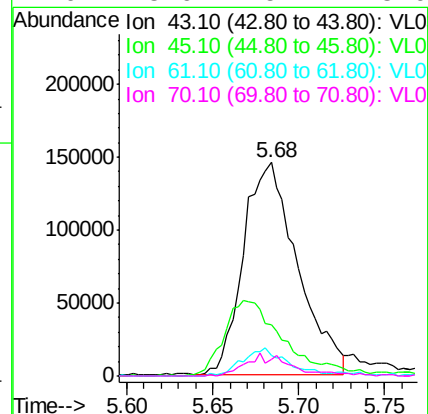
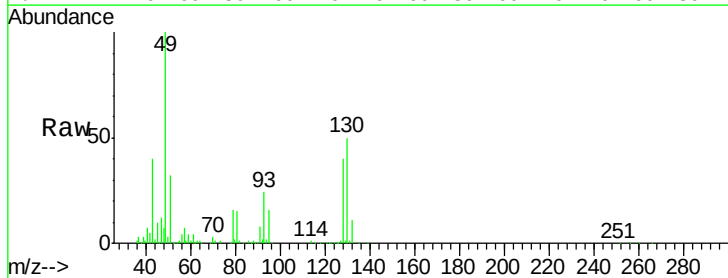
Ion Ratio Lower Upper

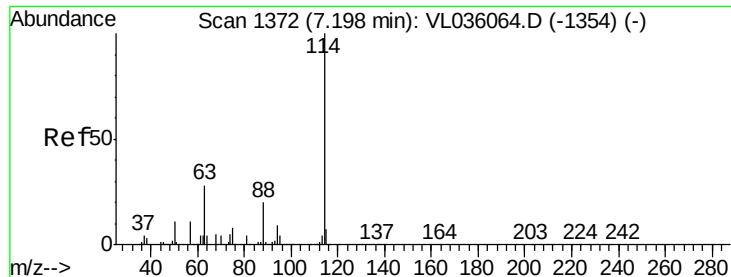
43 100

45 42.2 8.2 12.4#

61 12.5 7.4 11.2#

70 8.9 5.4 8.0#





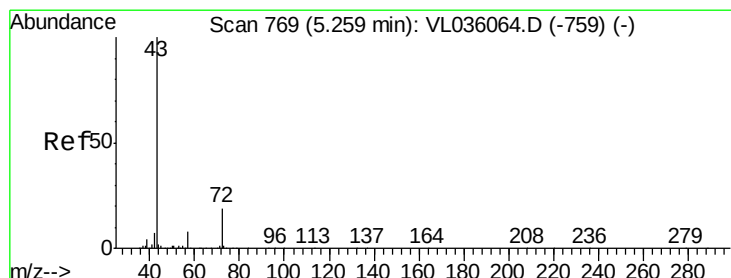
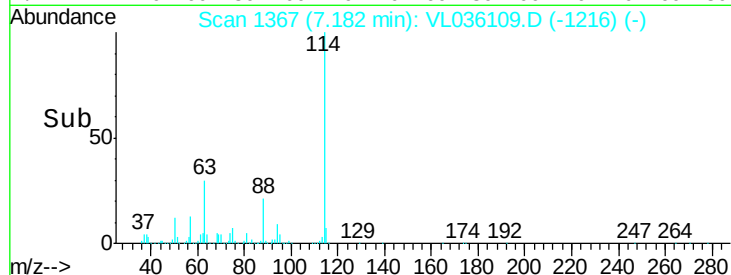
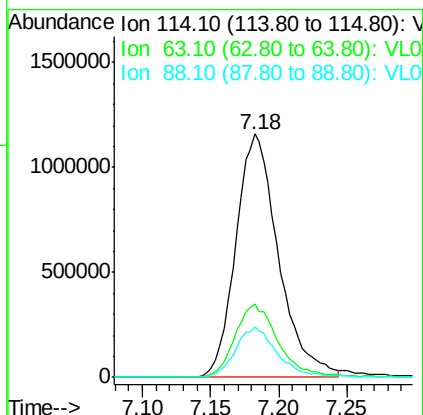
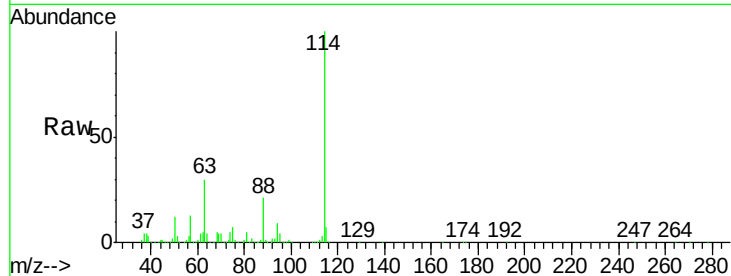
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VL036109.D
 Acq: 9 Dec 2020 00:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.9	23.6	35.4
88	20.6	15.8	23.6

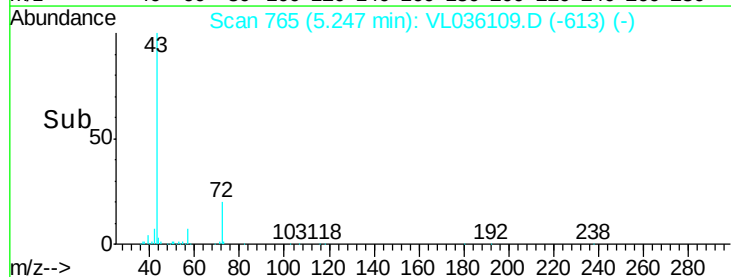
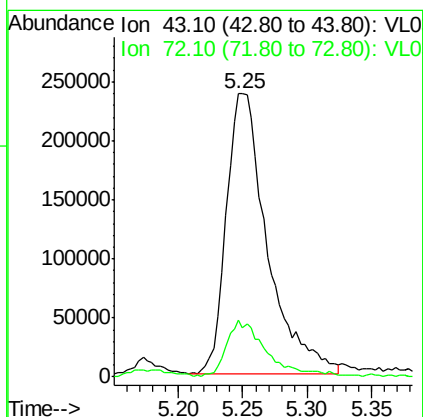
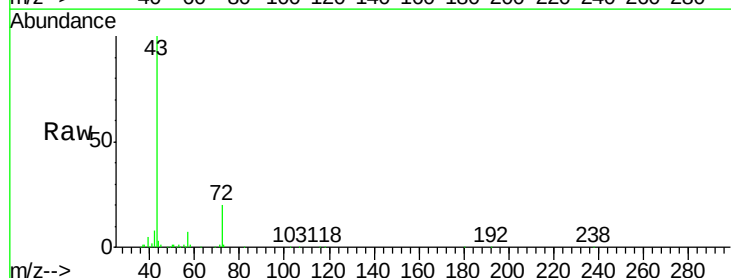
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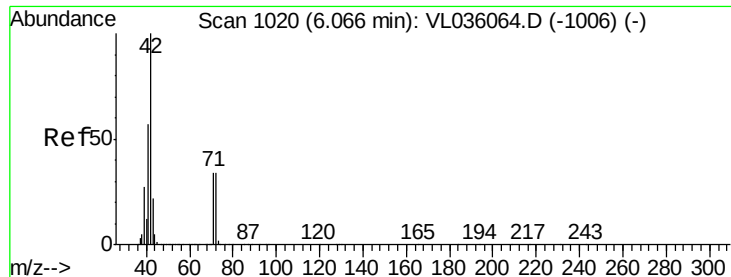
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#34
 2-Butanone
 Concen: 3.164 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: VL036109.D
 Acq: 9 Dec 2020 00:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.8	16.5	24.7





#41

Tetrahydrofuran

Concen: 0.754 ppbv m

RT: 6.07 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

Instrument :

MSVOA_L

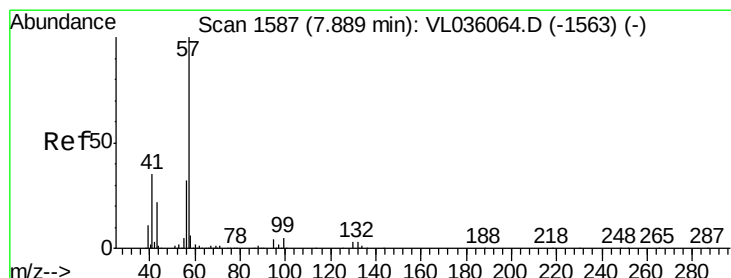
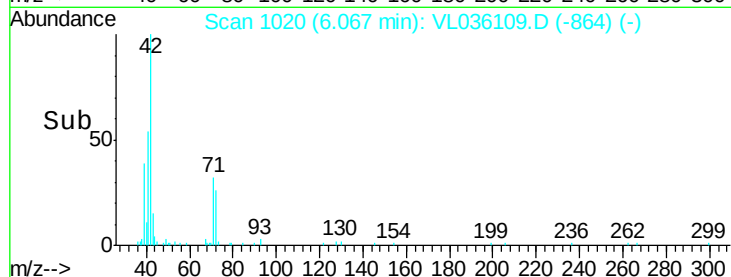
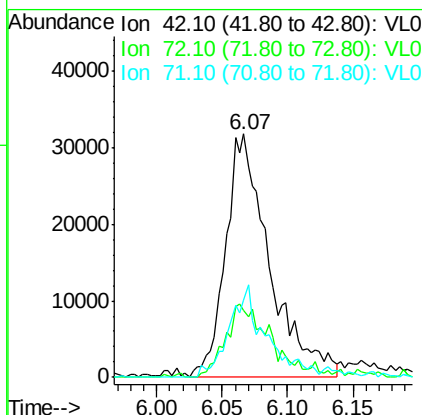
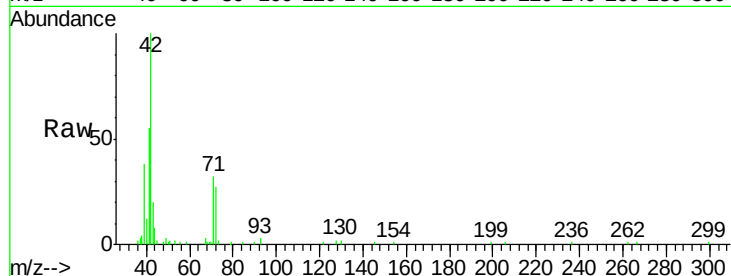
ClientSampleId :

IA-5DL

Tot Ion:	42	Resp:	74703
Ion	Ratio	Lower	Upper
42	100		
72	32.1	28.3	42.5
71	32.8	27.3	40.9

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#44

2,2,4-Trimethylpentane

Concen: 0.287 ppbv m

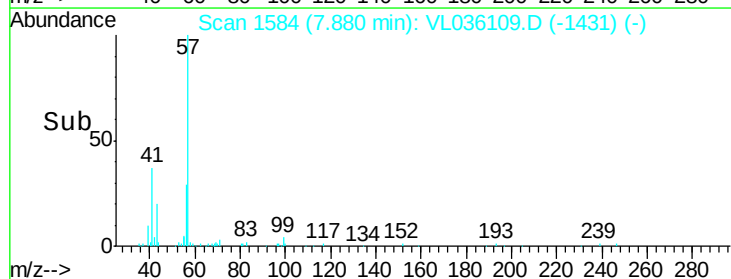
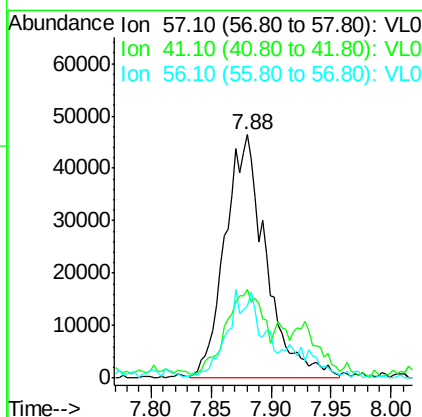
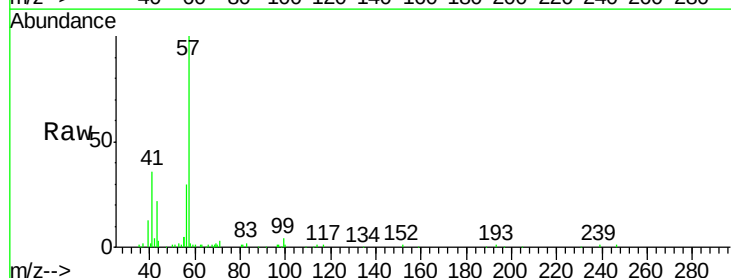
RT: 7.88 min Scan# 1584

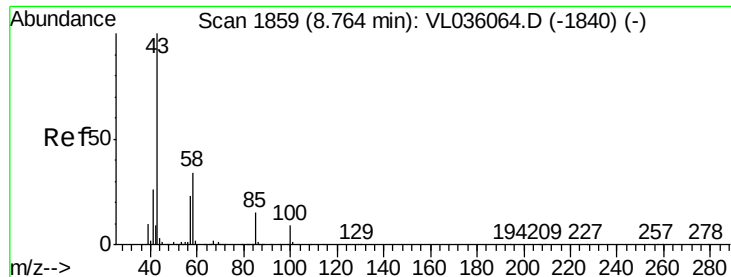
Delta R.T. -0.01 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

Tgt Ion:	57	Resp:	110869
Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.9	43.3#
56	40.7	25.3	37.9#





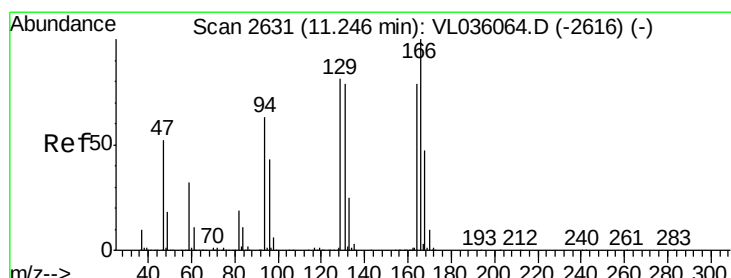
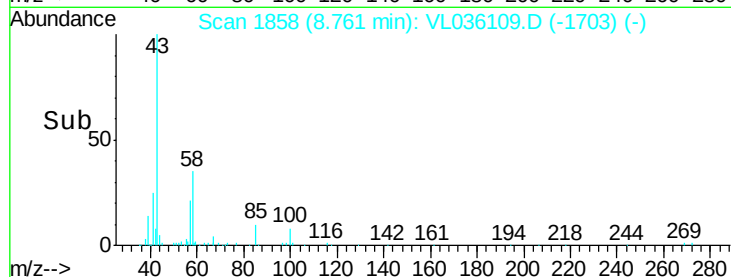
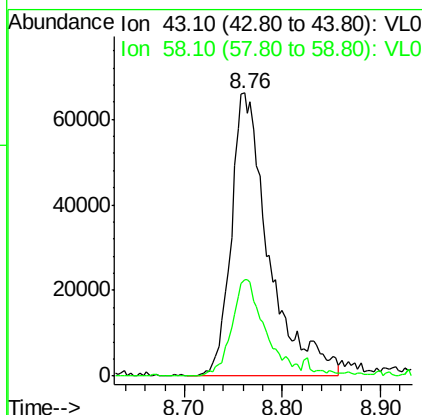
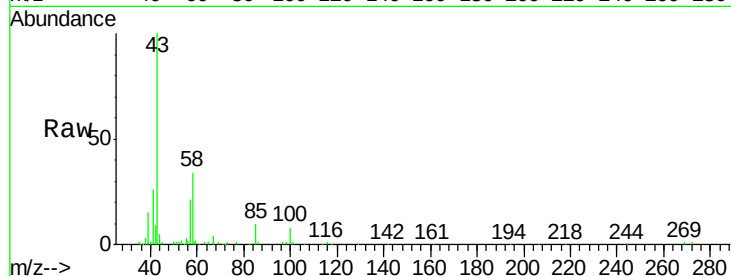
#50
4-Methyl-2-Pentanone
Concen: 0.709 ppbv m
RT: 8.76 min Scan# 1858
Delta R.T. -0.00 min
Lab File: VL036109.D
Acq: 9 Dec 2020 00:24

Instrument :
MSVOA_L
ClientSampled :
IA-5DL

Tot Ion: 43 Resp: 176557
Ion Ratio Lower Upper
43 100
58 33.5 27.4 41.2

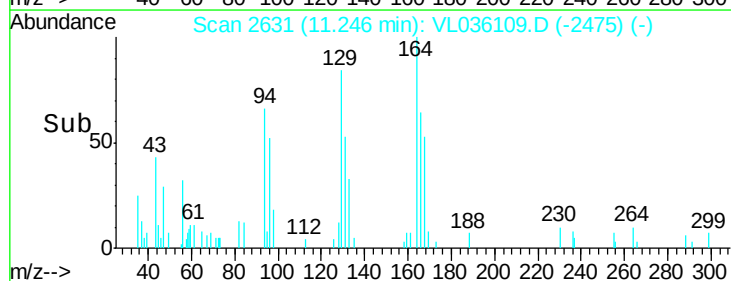
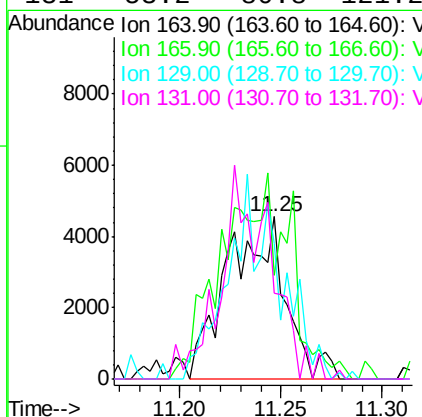
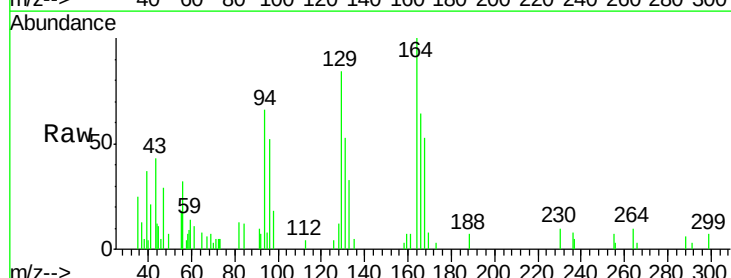
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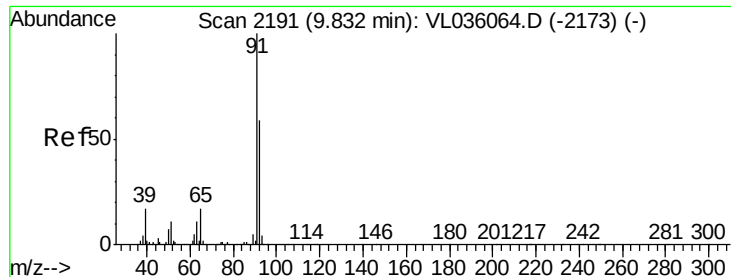
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#52
Tetrachloroethene
Concen: 0.118 ppbv m
RT: 11.25 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL036109.D
Acq: 9 Dec 2020 00:24

Tgt Ion: 164 Resp: 9115
Ion Ratio Lower Upper
164 100
166 63.7 101.9 152.9#
129 83.8 82.1 123.1
131 53.2 80.8 121.2#





#53

Toluene

Concen: 11.444 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.02 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

Instrument :

MSVOA_L

ClientSampleId :

IA-5DL

Tot Ion: 91 Resp: 2739746

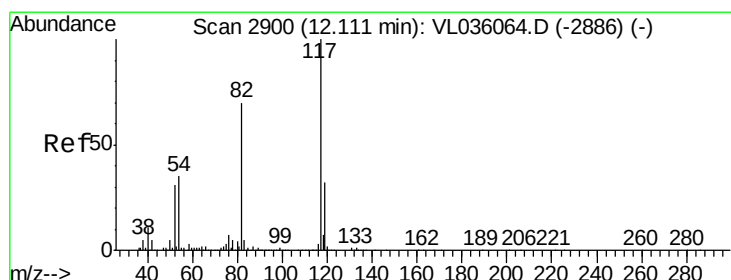
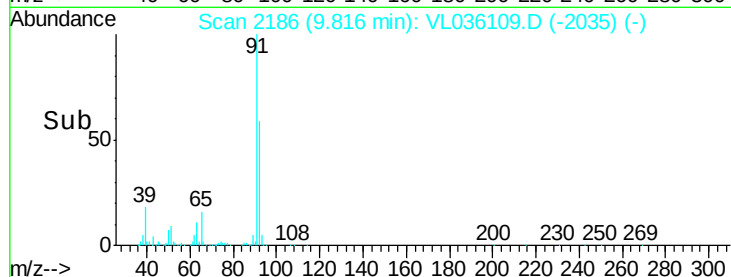
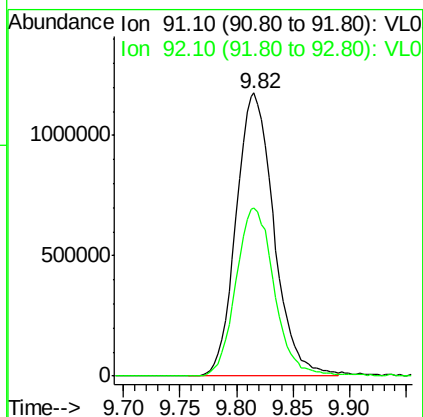
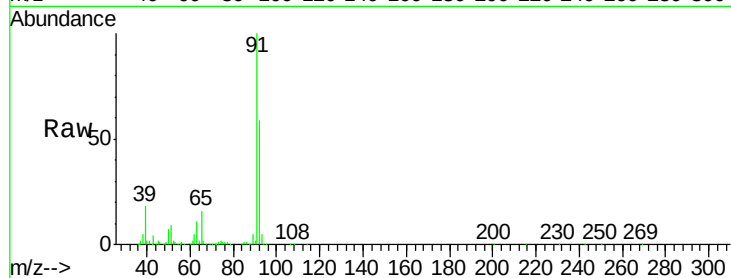
Ion Ratio Lower Upper

91 100

92 60.8 48.2 72.2

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. -0.01 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

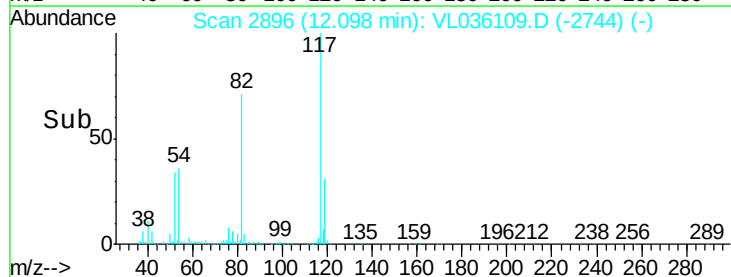
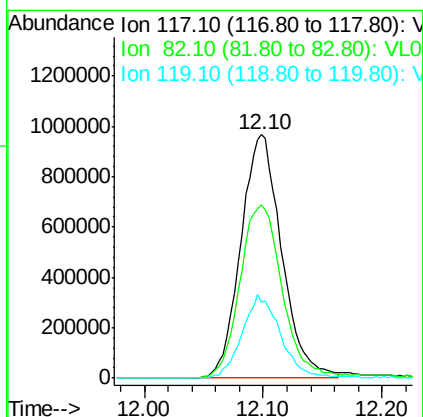
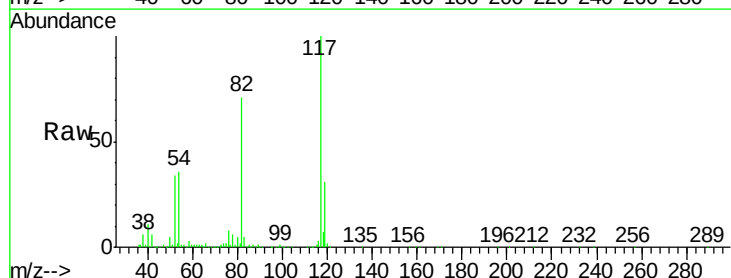
Tgt Ion: 117 Resp: 2297745

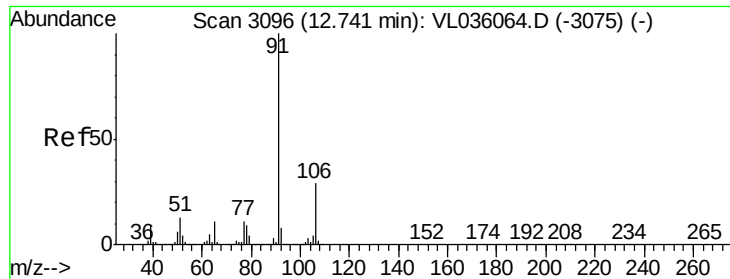
Ion Ratio Lower Upper

117 100

82 75.5 0.0 0.0#

119 32.5 0.0 0.0#





#58

Ethyl Benzene

Concen: 0.498 ppbv m

RT: 12.72 min Scan# 3089

Delta R.T. -0.02 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

Instrument :

MSVOA_L

ClientSampled :

IA-5DL

Tot Ion: 91 Resp: 156793

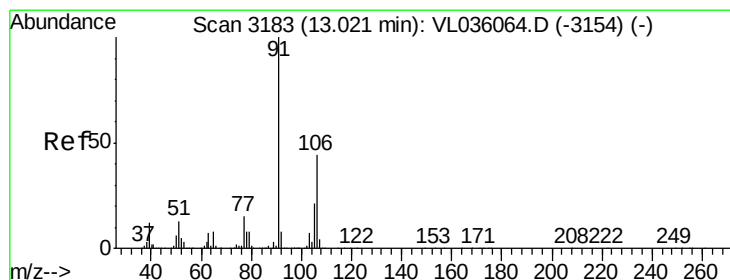
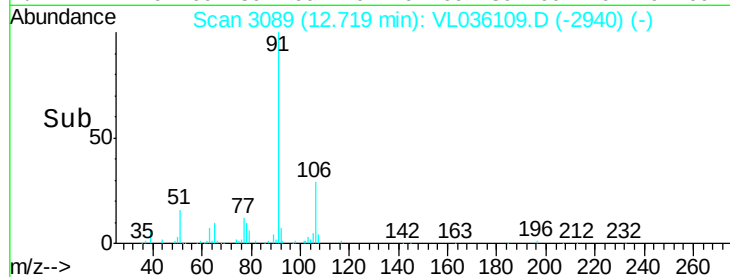
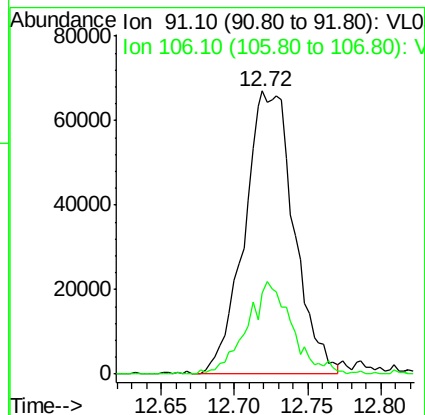
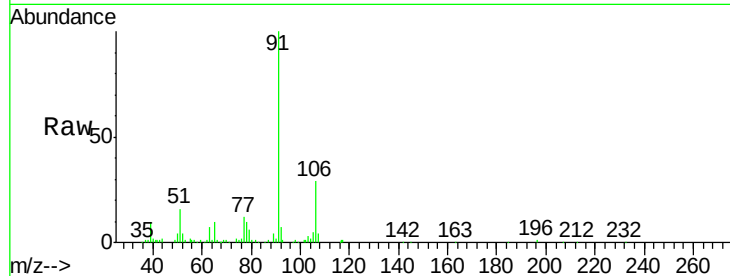
Ion Ratio Lower Upper

91 100

106 28.8 23.0 34.4

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#59

m/p-Xylene

Concen: 1.945 ppbv m

RT: 12.98 min Scan# 3170

Delta R.T. -0.04 min

Lab File: VL036109.D

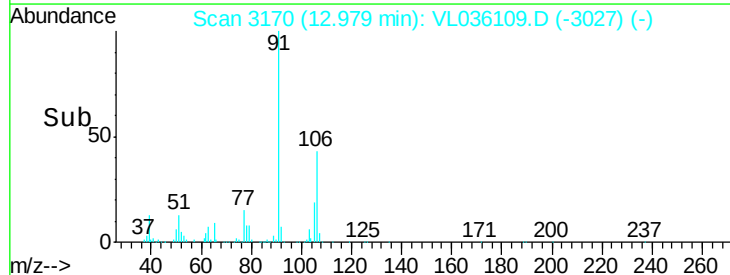
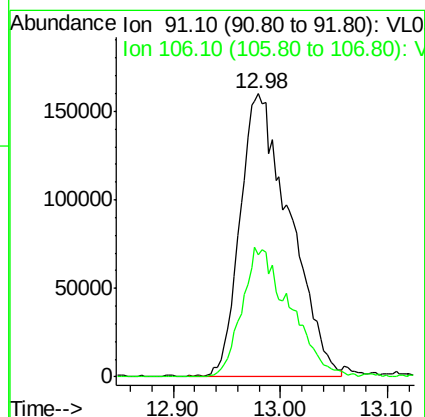
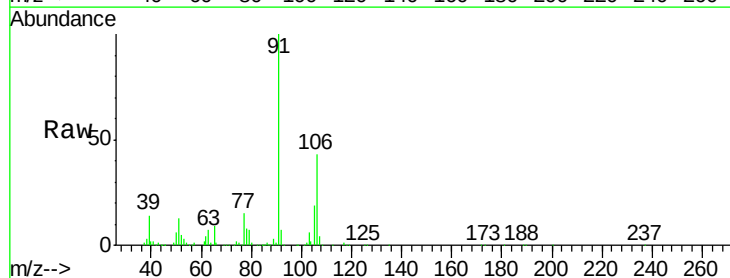
Acq: 9 Dec 2020 00:24

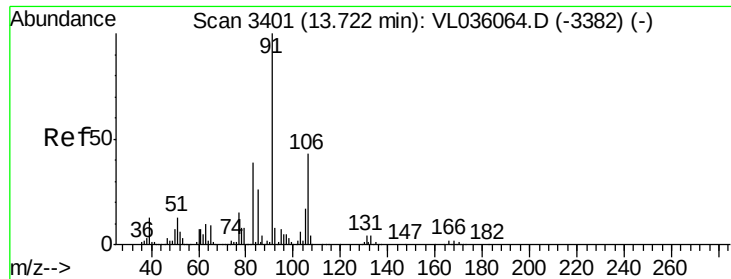
Tgt Ion: 91 Resp: 515839

Ion Ratio Lower Upper

91 100

106 0.0 33.6 50.4#





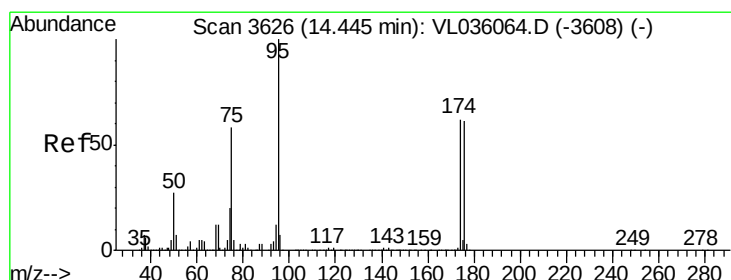
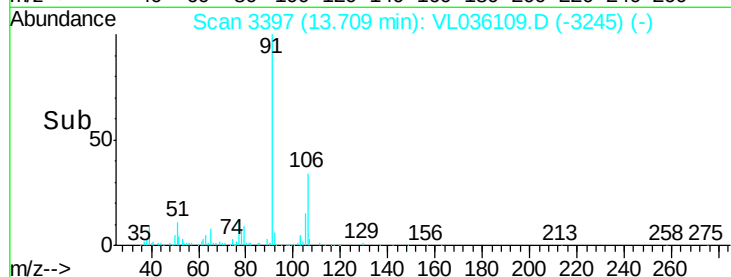
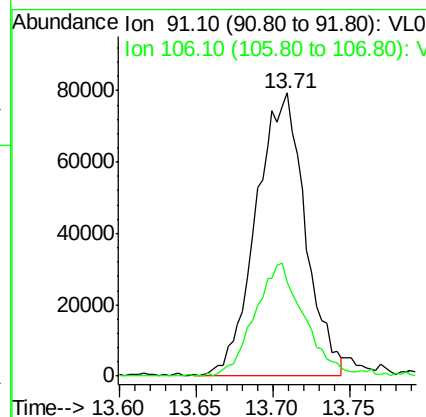
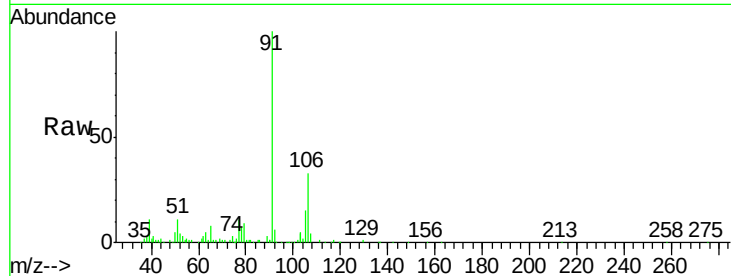
#60
o-Xylene
Concen: 0.708 ppbv m
RT: 13.71 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL036109.D
Acq: 9 Dec 2020 00:24

Instrument :
MSVOA_L
ClientSampled :
IA-5DL

Tot Ion: 91 Resp: 176830
Ion Ratio Lower Upper
91 100
106 40.7 21.6 64.6

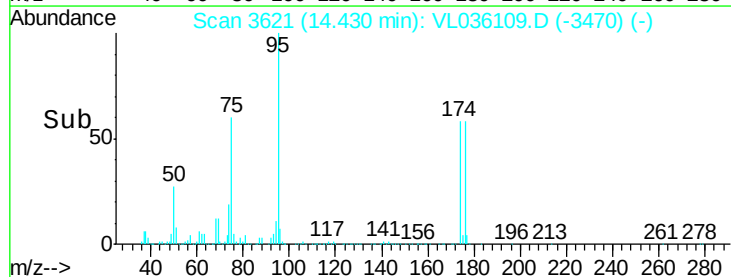
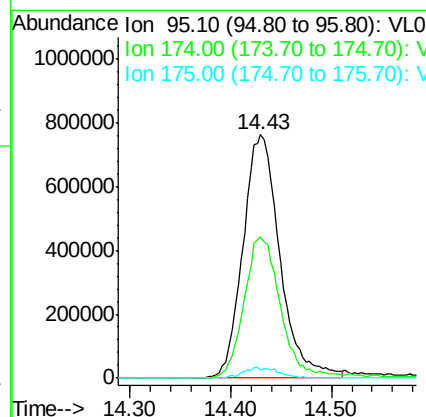
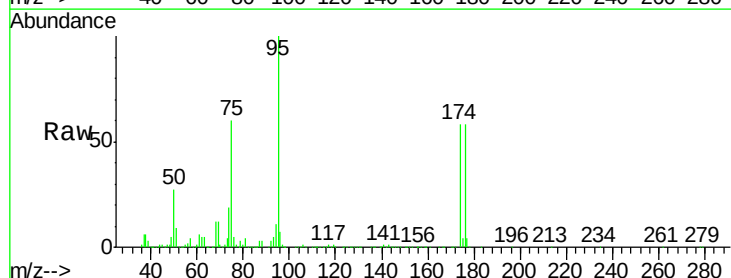
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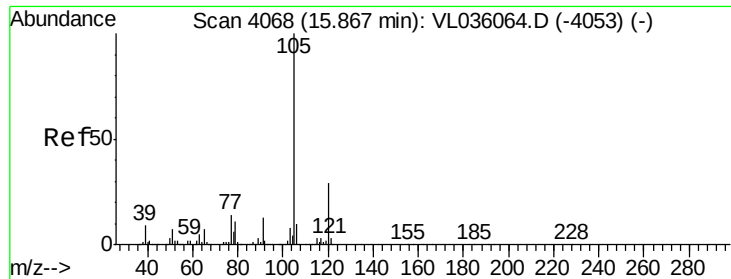
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.614 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.02 min
Lab File: VL036109.D
Acq: 9 Dec 2020 00:24

Tgt Ion: 95 Resp: 1936496
Ion Ratio Lower Upper
95 100
174 59.3 50.7 76.1
175 4.2 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.207 ppbv m

RT: 15.86 min Scan# 4066

Delta R.T. -0.01 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

Instrument :

MSVOA_L

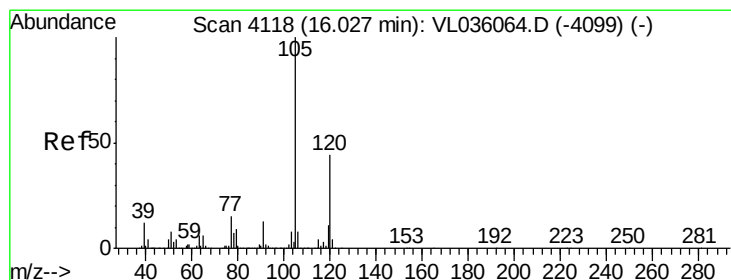
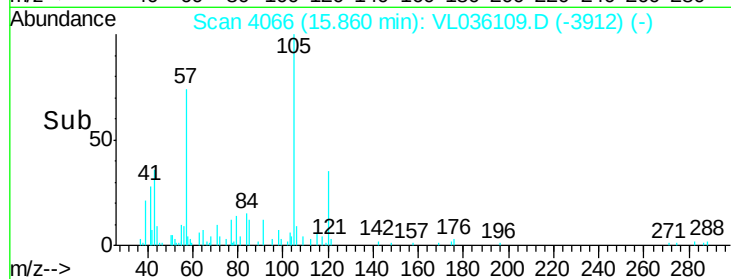
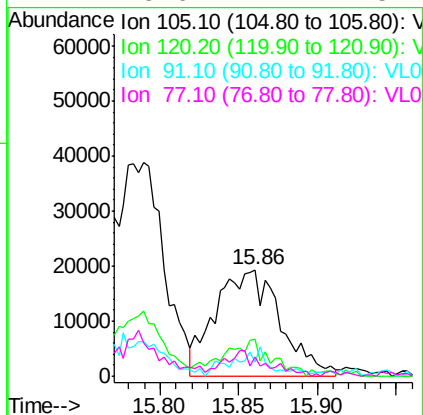
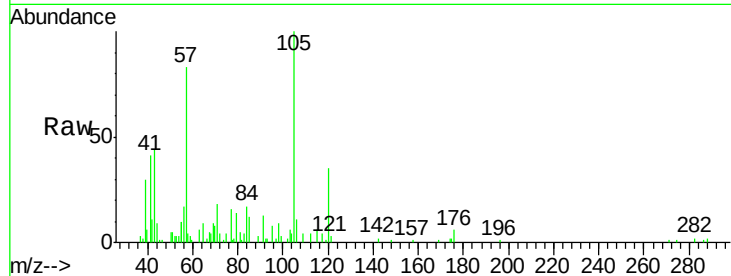
ClientSampled :

IA-5DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	0.0	23.6	35.4#
91	0.0	11.4	17.0#
77	15.6	12.1	18.1

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#73

1,3,5-Trimethylbenzene

Concen: 0.167 ppbv m

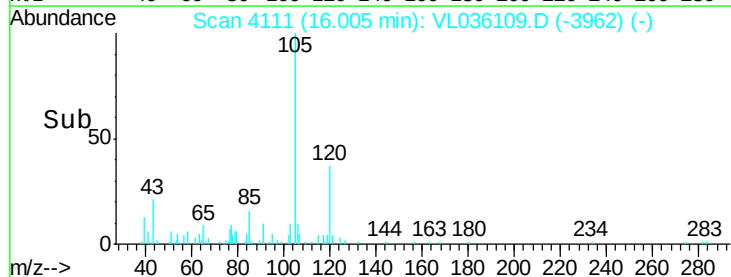
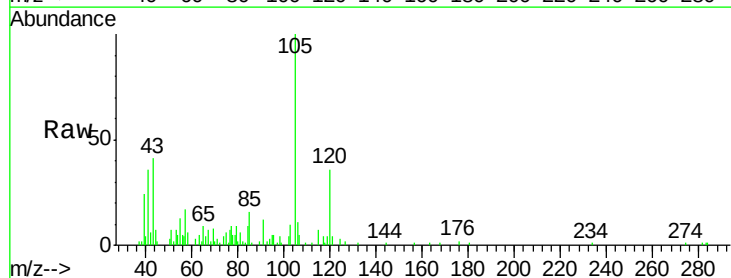
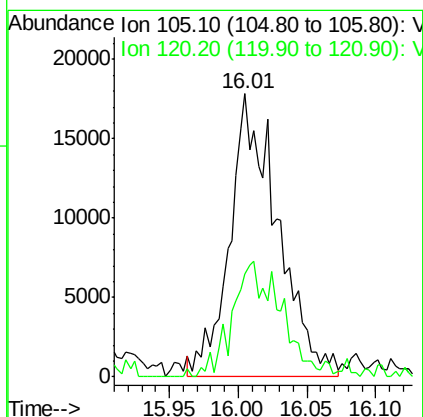
RT: 16.01 min Scan# 4111

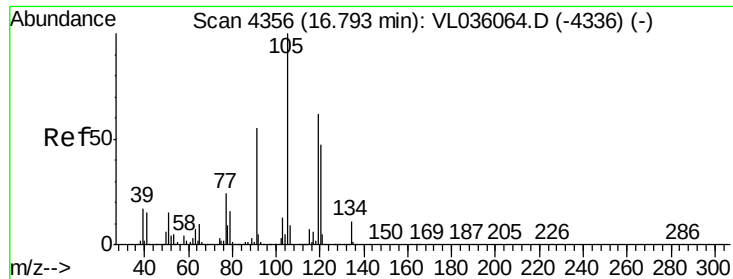
Delta R.T. -0.02 min

Lab File: VL036109.D

Acq: 9 Dec 2020 00:24

Tgt Ion	Ratio	Resp Lower	Upper
105	100		
120	36.3	35.4	53.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.396 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL036109.D
 Acq: 9 Dec 2020 00:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	35.1	37.4	56.0#
91	9.1	45.6	68.4#
77	12.8	19.4	29.2#

Manual Integrations
 APPROVED

MMDadoda
 12/11/2020 12:23:51 PM

