

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035001.D
 Acq On : 13 May 2020 00:14
 Operator : SY/AP
 Sample : L2566-01 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-6

Manual Integrations
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MMDadoda
 5/13/2020 5:12:56 PM

Quant Time: May 14 14:13:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	975395	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2319540	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2179383	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1821113	10.32	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.97	41	52995m	1.097	ppbv	
10) Heptane	8.12	43	138439	1.144	ppbv	97
13) Ethanol	3.56	45	341499	21.416	ppbv	99
15) Acetone	3.81	43	433153	3.359	ppbv	98
19) Isopropyl Alcohol	3.93	45	954591	11.100	ppbv #	99
20) Methylene Chloride	4.31	84	25603	0.600	ppbv #	82
26) Hexane	5.66	57	231805	2.469	ppbv #	74
30) Cyclohexane	7.12	84	111124m	1.533	ppbv	
31) cis-1,2-Dichloroethene	5.53	61	345273	3.768	ppbv	96
34) 2-Butanone	5.22	43	55411	0.384	ppbv	99
36) Benzene	6.88	78	86123	0.450	ppbv	98
38) Trichloroethene	7.83	130	507423	6.849	ppbv	97
41) Tetrahydrofuran	6.05	42	21960m	0.289	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	1757416	5.169	ppbv	96
52) Tetrachloroethene	11.24	164	1253253	18.430	ppbv	99
53) Toluene	9.81	91	3108433	15.333	ppbv	100
58) Ethyl Benzene	12.73	91	277363	1.029	ppbv	93
59) m/p-Xylene	12.98	91	752308	3.173	ppbv #	58
60) o-Xylene	13.71	91	238380	1.019	ppbv	96
61) Styrene	13.55	104	92044	0.622	ppbv	96
62) Isopropylbenzene	14.68	105	62248m	0.178	ppbv	
72) 4-Ethyltoluene	15.86	105	25734m	0.099	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	24268m	0.096	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	82700m	0.298	ppbv	

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

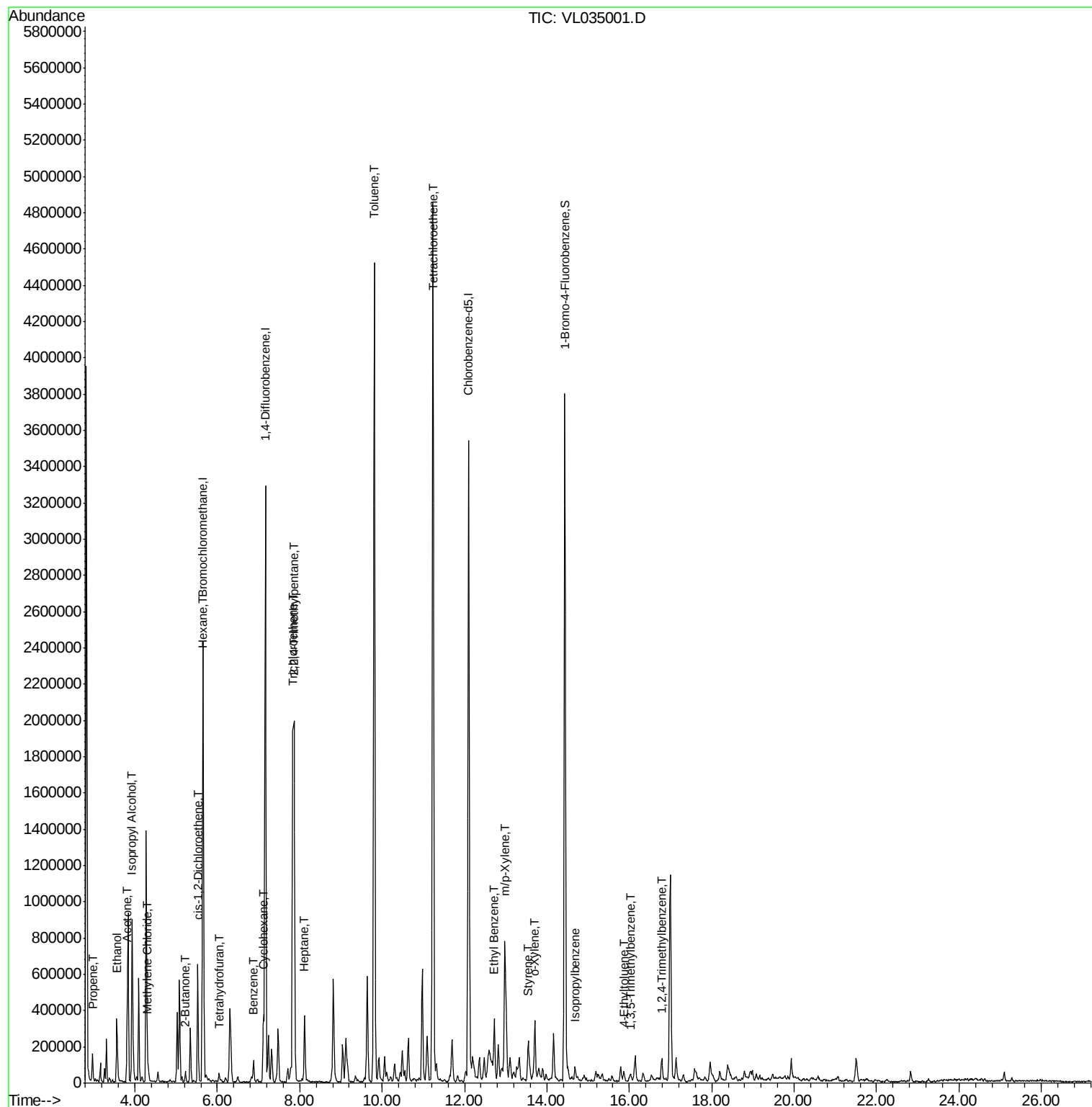
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051220\
Data File : VL035001.D
Acq On : 13 May 2020 00:14
Operator : SY/AP
Sample : L2566-01 10X
Misc : 400ml/MSVOA L
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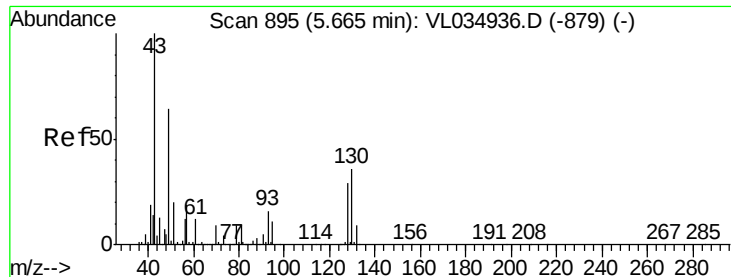
Instrument :
MSVOA_L
ClientSampleId :
SG-6

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Quant Time: May 14 14:13:15 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035001.D

Acq: 13 May 2020 00:14

Instrument :

MSVOA_L

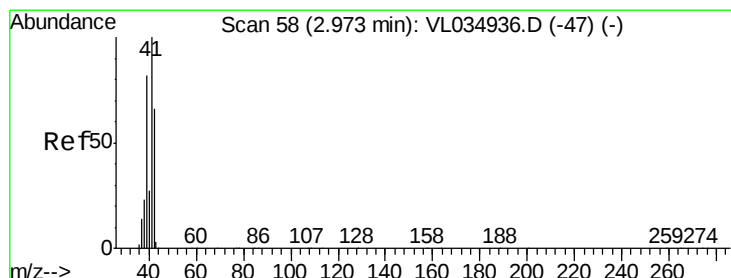
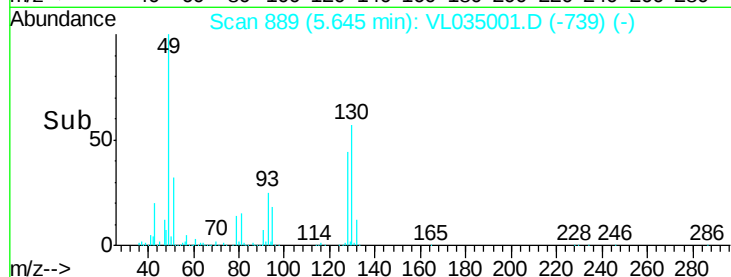
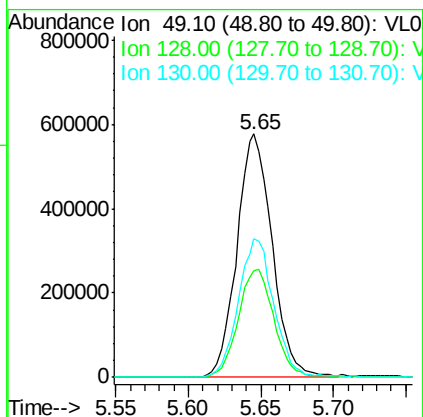
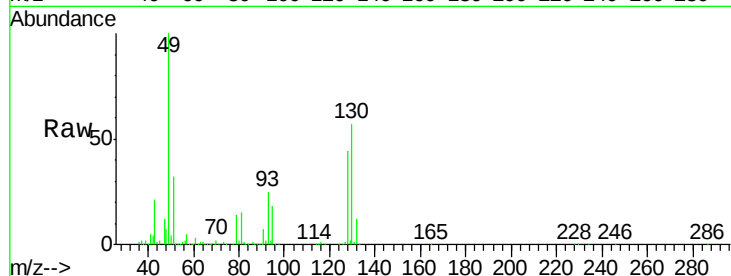
ClientSampled :

SG-6

Tot Ion:	49	Resp:	975395
Ion	Ratio	Lower	Upper
49	100		
128	45.4	22.1	66.5
130	57.7	29.1	87.3

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#9

Propene

Concen: 1.097 ppbv m

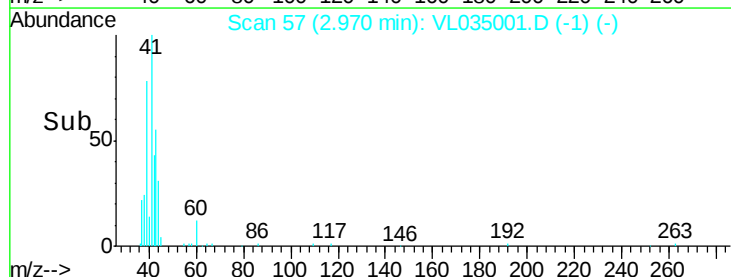
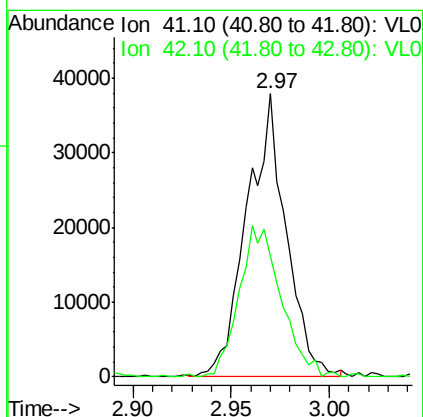
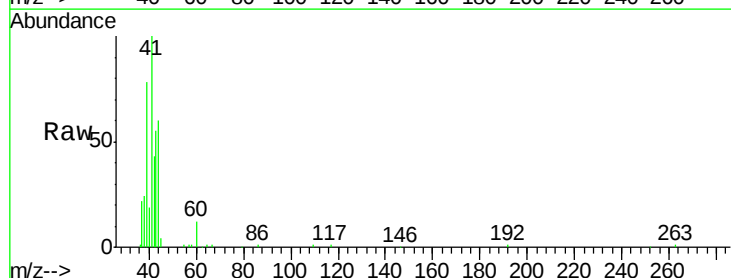
RT: 2.97 min Scan# 57

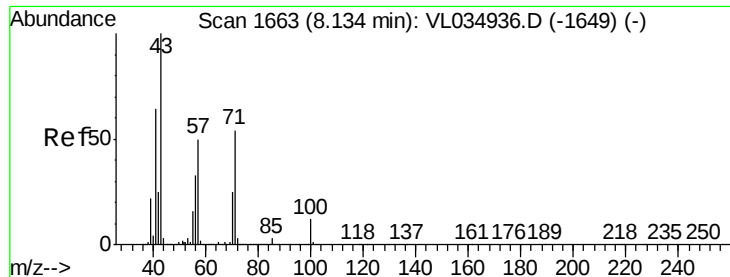
Delta R.T. -0.00 min

Lab File: VL035001.D

Acq: 13 May 2020 00:14

Tgt Ion:	41	Resp:	52995
Ion	Ratio	Lower	Upper
41	100		
42	58.0	54.5	81.7





#10

Heptane

Concen: 1.144 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL035001.D

Acq: 13 May 2020 00:14

Instrument :

MSVOA_L

ClientSampled :

SG-6

Tot Ion: 43 Resp: 138439

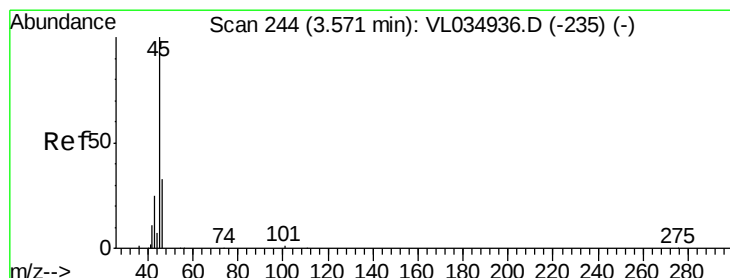
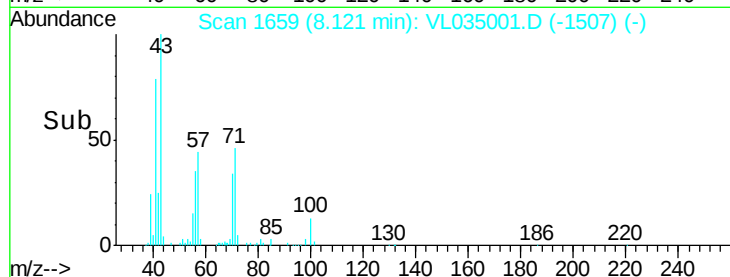
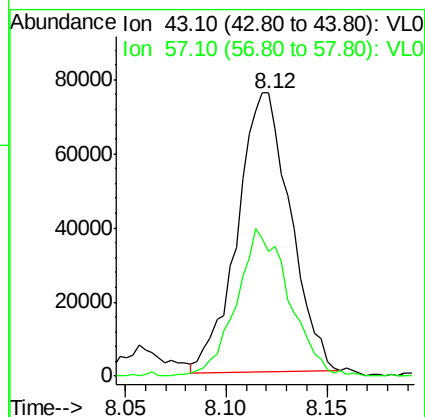
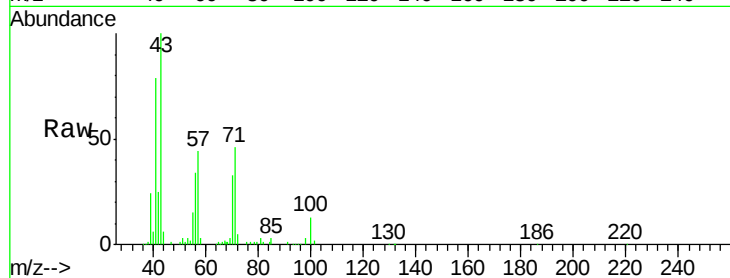
Ion Ratio Lower Upper

43 100

57 53.4 41.1 61.7

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#13

Ethanol

Concen: 21.416 ppbv

RT: 3.56 min Scan# 240

Delta R.T. -0.01 min

Lab File: VL035001.D

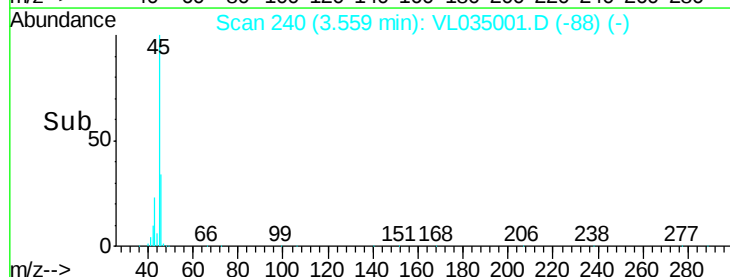
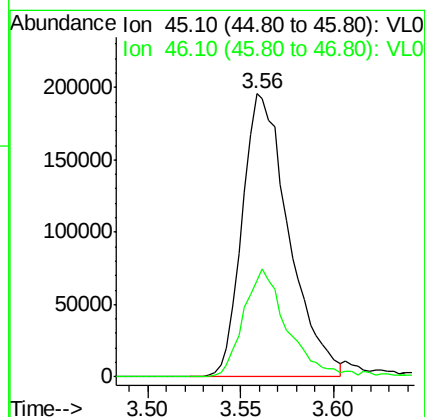
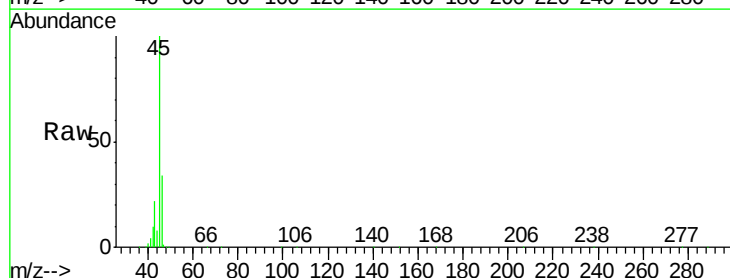
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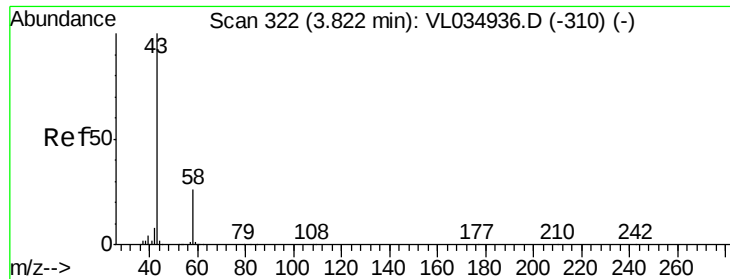
Tgt Ion: 45 Resp: 341499

Ion Ratio Lower Upper

45 100

46 36.7 14.3 57.3





#15

Acetone

Concen: 3.359 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.01 min

Lab File: VL035001.D

Acq: 13 May 2020 00:14

Instrument :

MSVOA_L

ClientSampleId :

SG-6

Tot Ion: 43 Resp: 433153

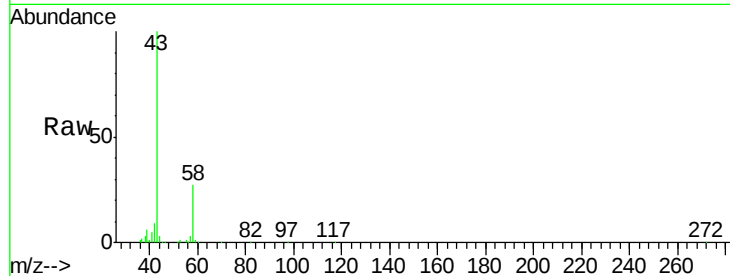
Ion Ratio Lower Upper

43 100

58 28.4 21.7 32.5

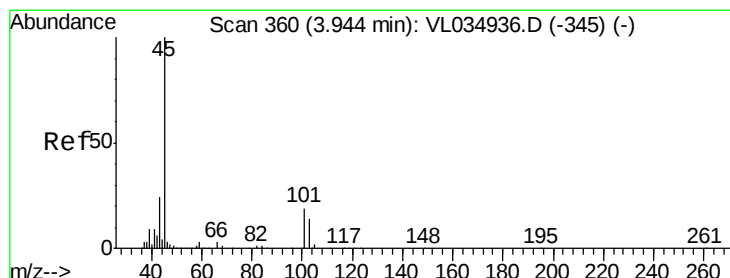
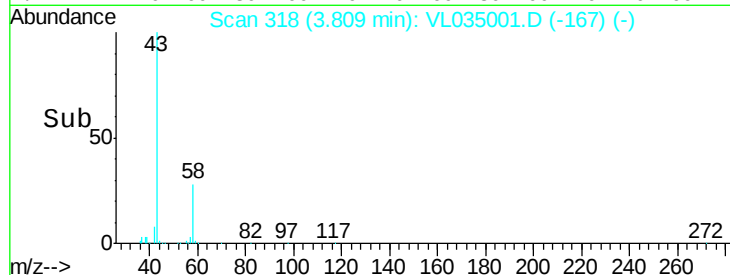
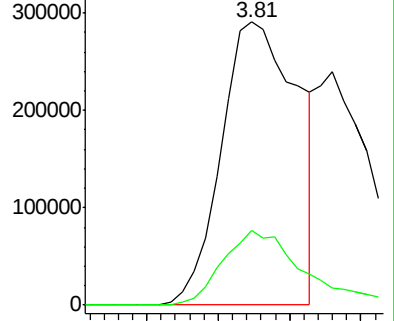
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 11.100 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.02 min

Lab File: VL035001.D

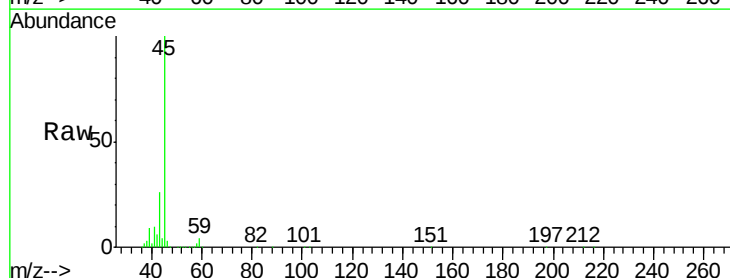
Acq: 13 May 2020 00:14

Tgt Ion: 45 Resp: 954591

Ion Ratio Lower Upper

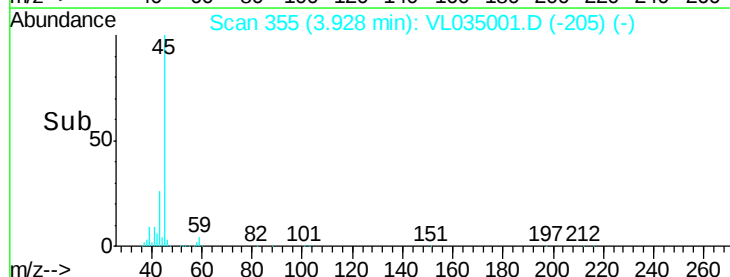
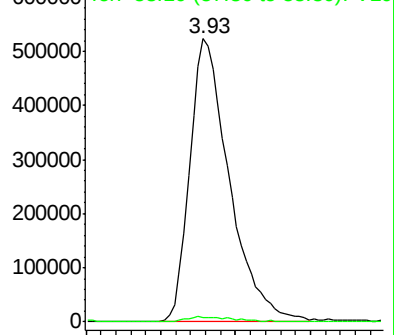
45 100

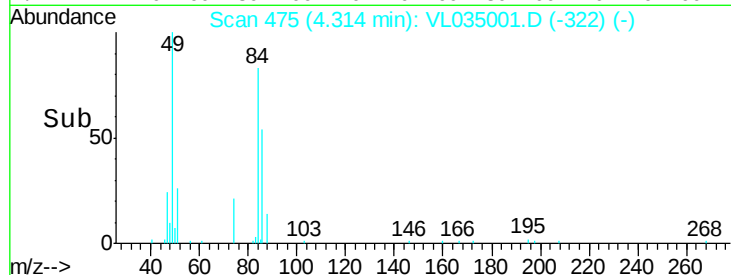
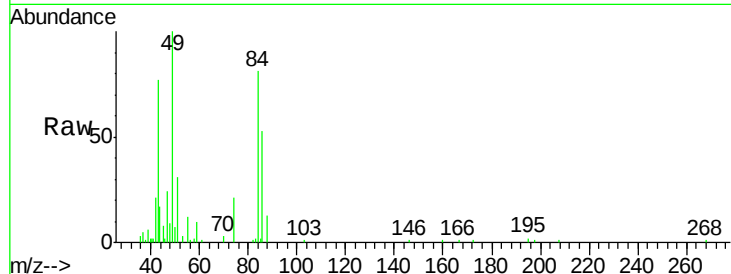
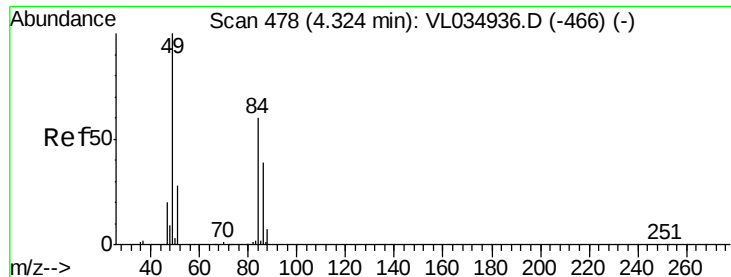
58 2.6 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





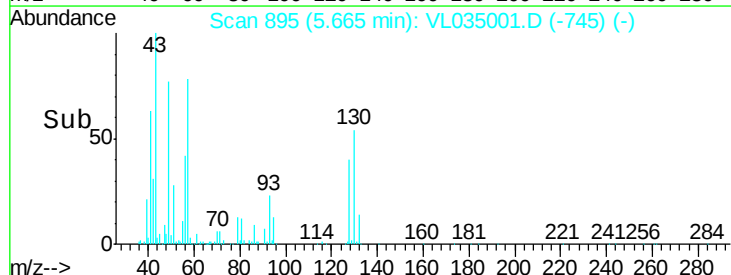
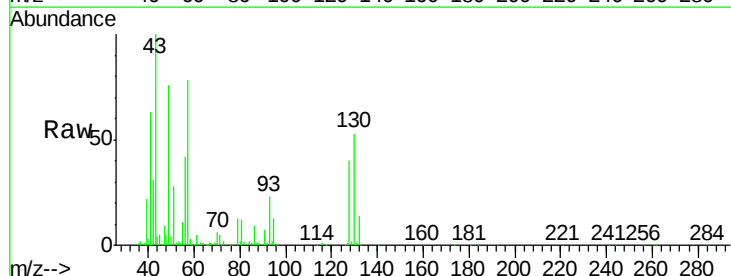
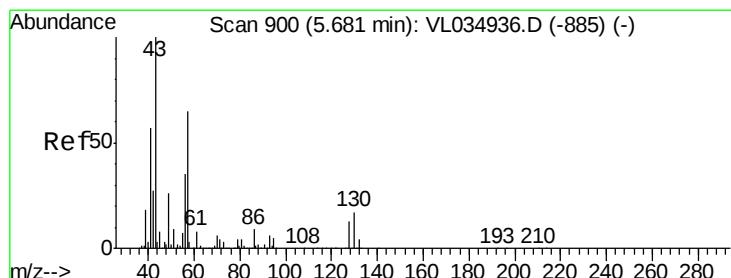
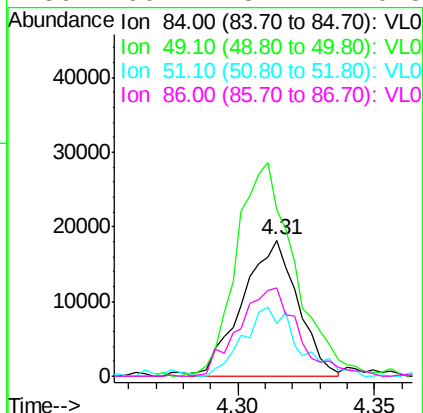
#20
Methvlene Chloride
Concen: 0.600 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tot Ion	Ratio	Lower	Upper
84	100		
49	132.4	132.5	198.7#
51	36.6	38.4	57.6#
86	66.1	51.2	76.8

Instrument :
MSVOA_L
ClientSampled :
SG-6

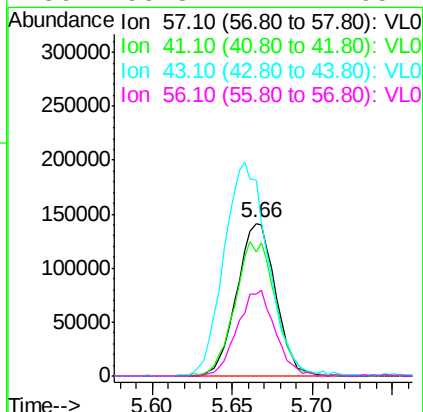
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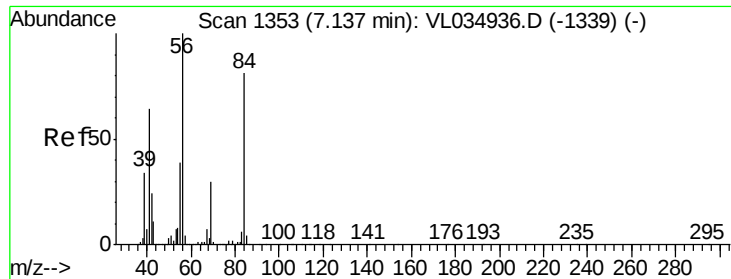
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#26
Hexane
Concen: 2.469 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.6	72.7	109.1
43	161.6	182.1	273.1#
56	55.3	42.2	63.2





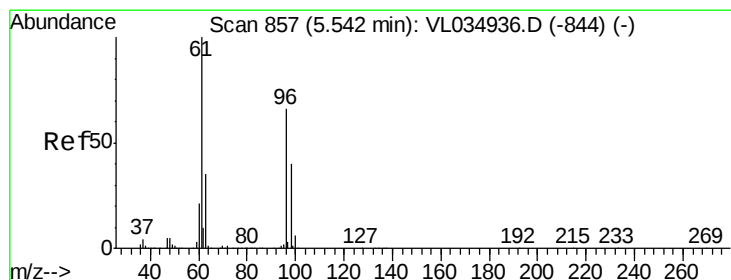
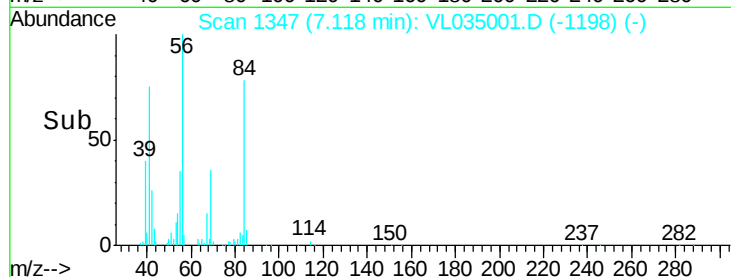
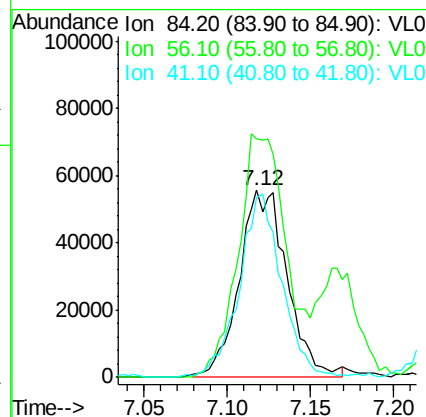
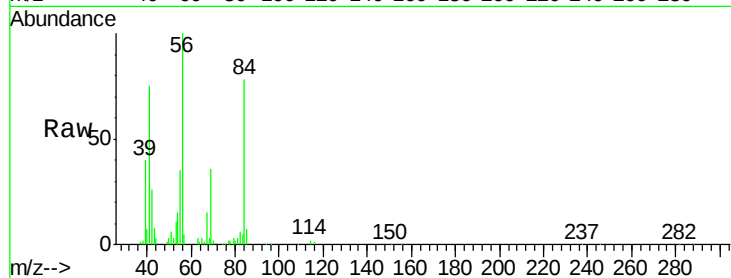
#30
Cvclohexane
Concen: 1.533 ppbv m
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tot Ion	Ratio	Lower	Upper
84	100		
56	135.2	111.4	167.2
41	87.9	66.7	100.1

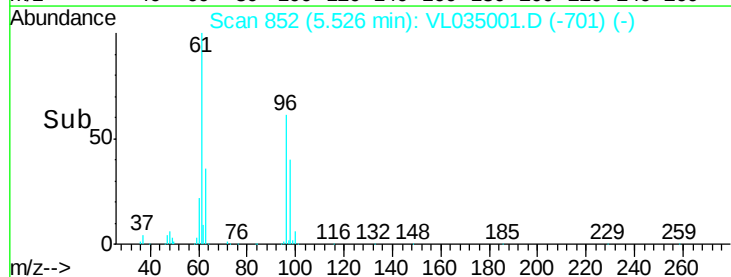
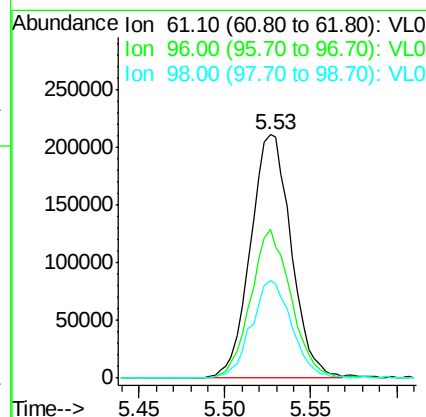
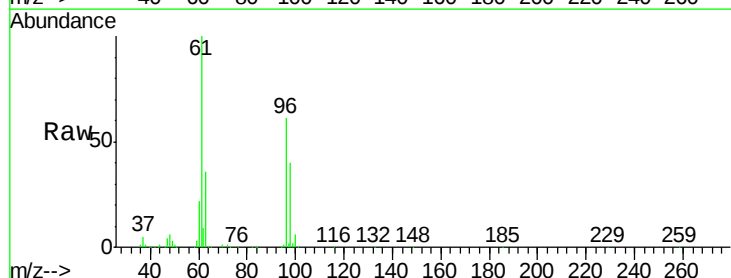
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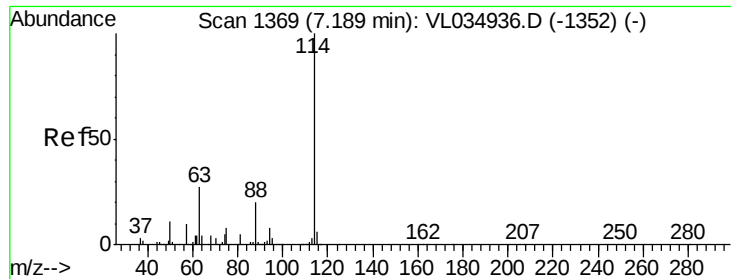
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#31
cis-1,2-Dichloroethene
Concen: 3.768 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tgt Ion	Ratio	Lower	Upper
61	100		
96	60.8	53.0	79.6
98	40.0	32.2	48.2





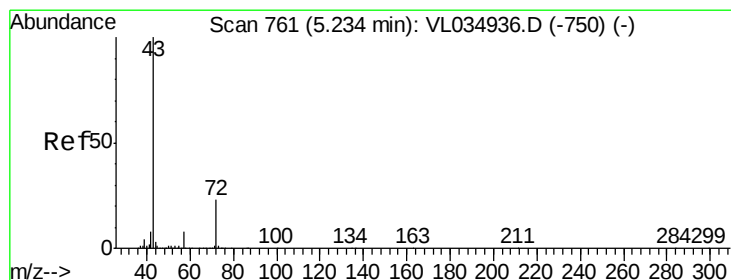
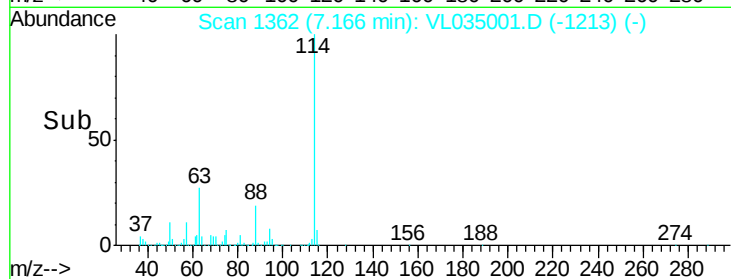
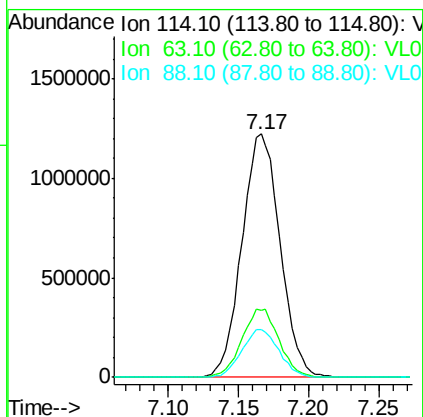
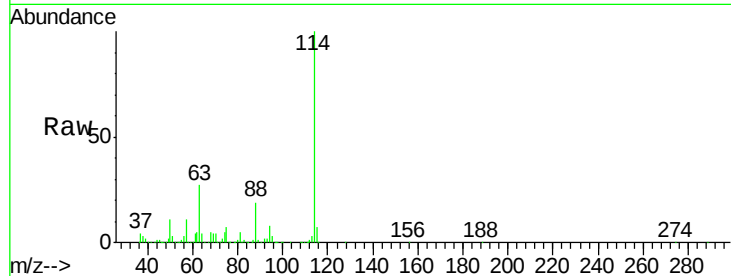
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL035001.D
 Acq: 13 May 2020 00:14

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-6

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.2	33.4
88	19.3	15.5	23.3

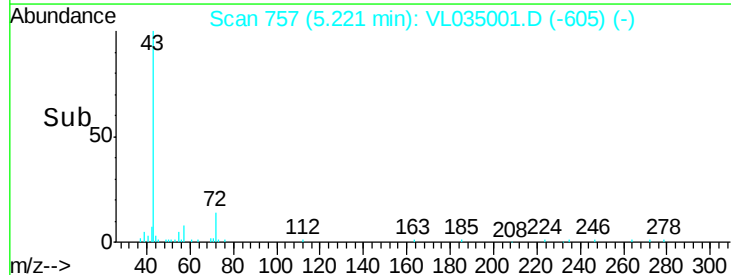
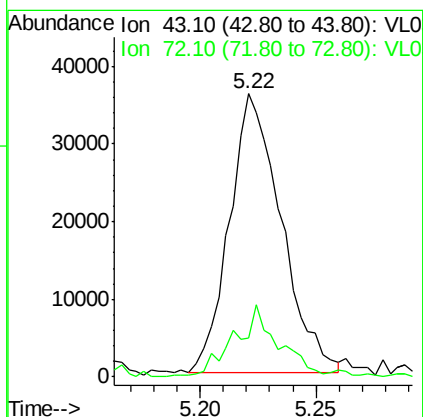
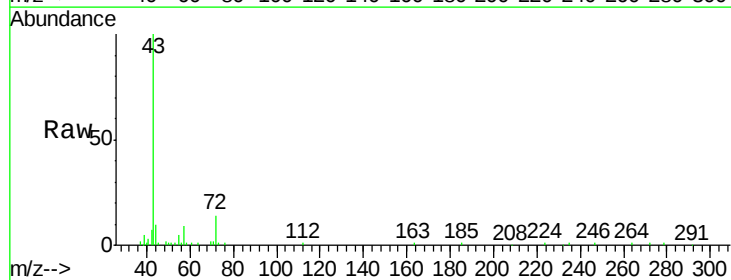
Manual Integrations
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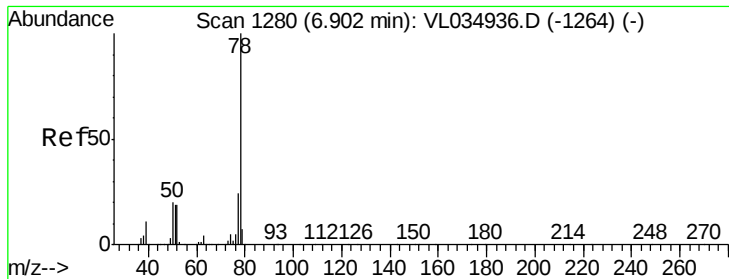
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#34
 2-Butanone
 Concen: 0.384 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.01 min
 Lab File: VL035001.D
 Acq: 13 May 2020 00:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.0	27.0





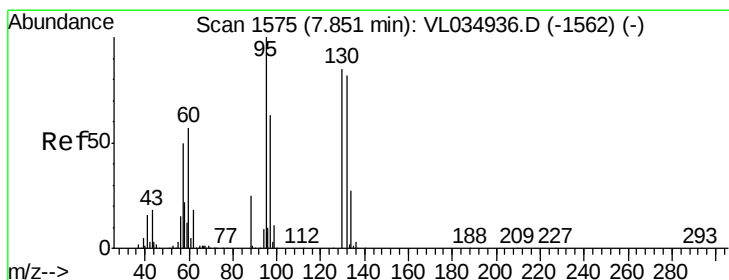
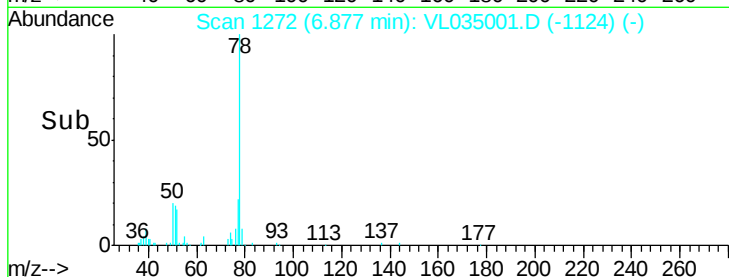
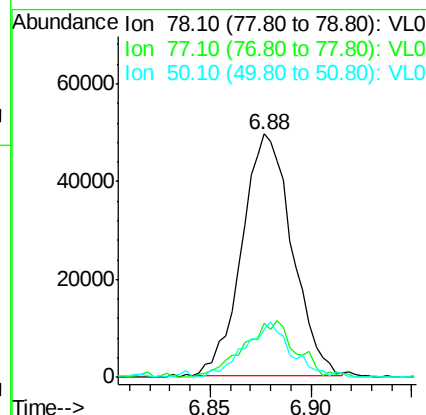
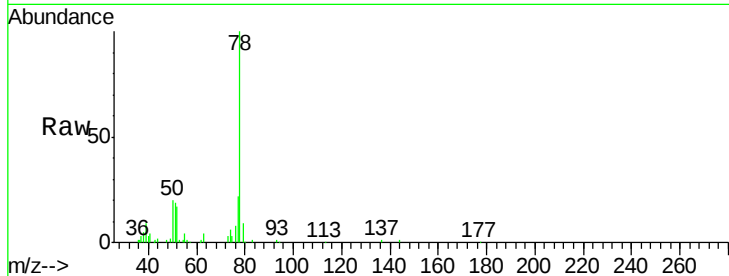
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Benzene
Concen: 0.450 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.03 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tot Ion	78	Resp	86123
Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.0	28.6
50	20.1	15.8	23.8

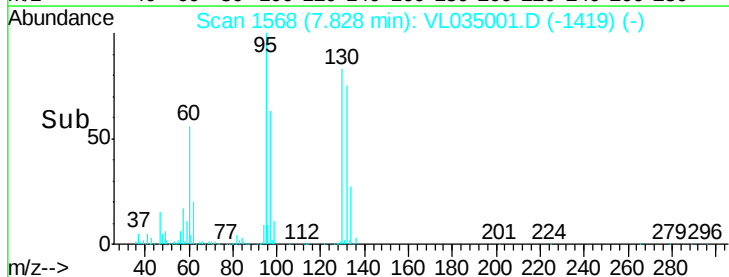
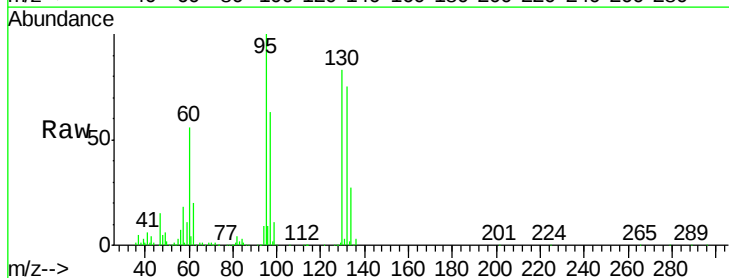
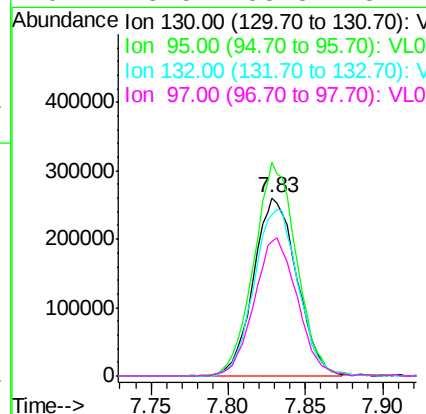
Manual Integrations
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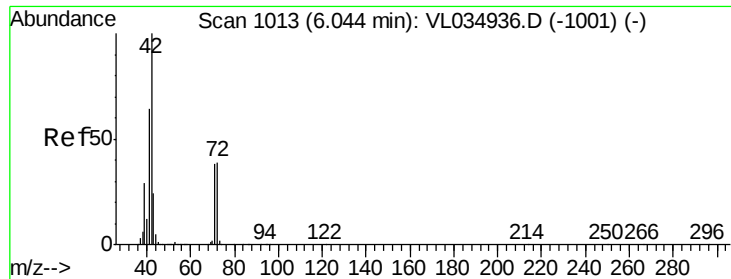
MMDadoda
5/13/2020 5:12:56 PM



#38
Trichloroethene
Concen: 6.849 ppbv
RT: 7.83 min Scan# 1568
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tgt Ion	130	Resp	507423
Ion	Ratio	Lower	Upper
130	100		
95	119.3	93.4	140.0
132	90.4	76.4	114.6
97	75.5	58.5	87.7





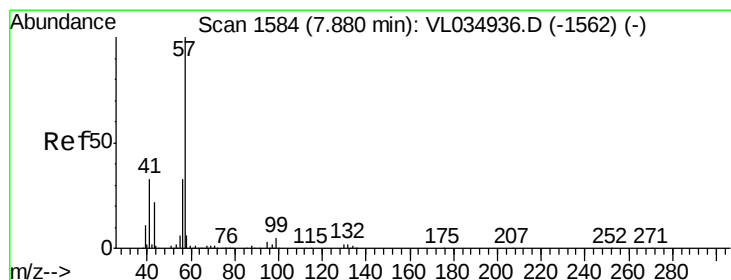
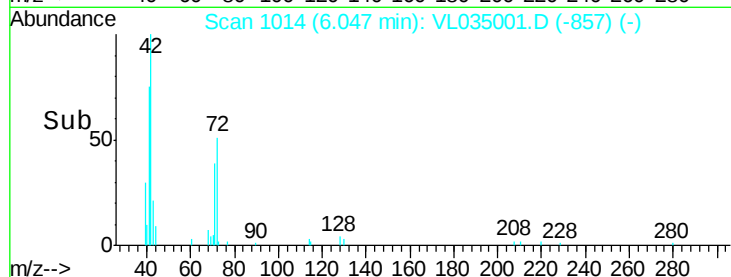
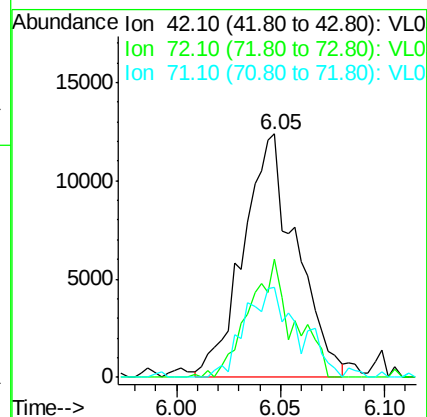
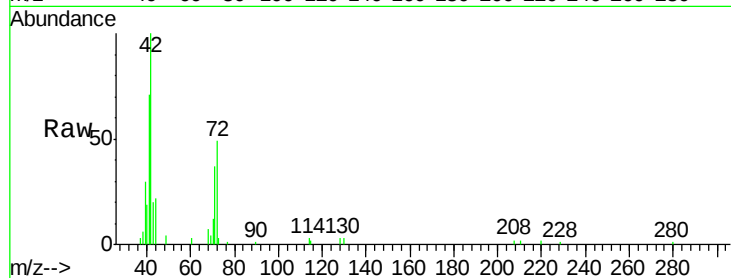
#41
Tetrahydrofuran
Concen: 0.289 ppbv m
RT: 6.05 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.5	31.4	47.0
71	38.5	29.8	44.8

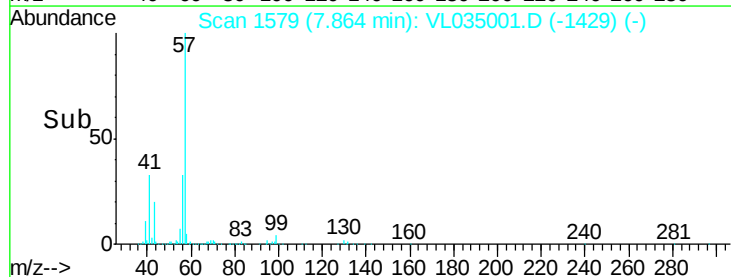
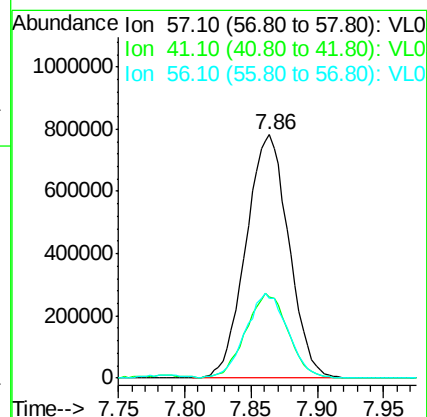
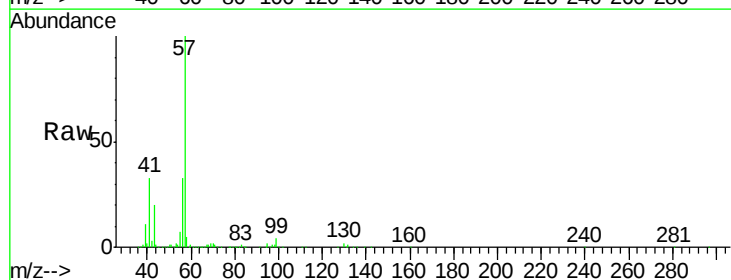
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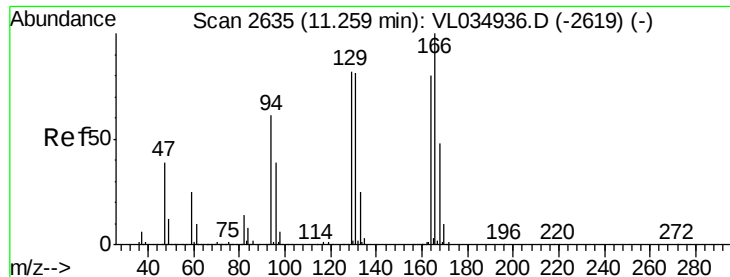
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5/13/2020 5:12:56 PM



#44
2,2,4-Trimethylpentane
Concen: 5.169 ppbv
RT: 7.86 min Scan# 1579
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.5	26.4	39.6
56	34.4	25.5	38.3





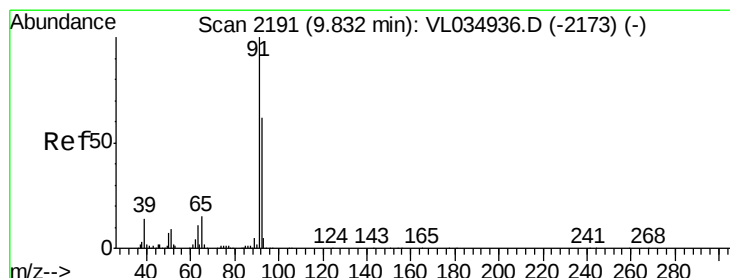
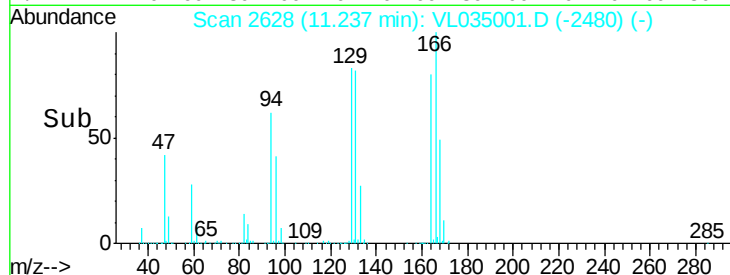
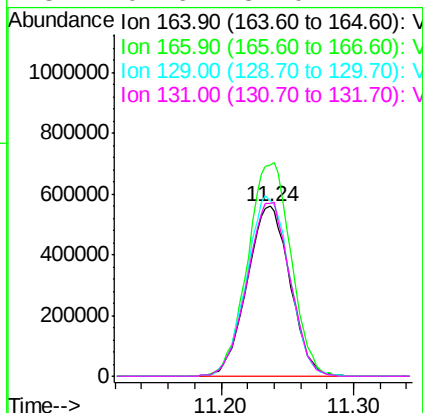
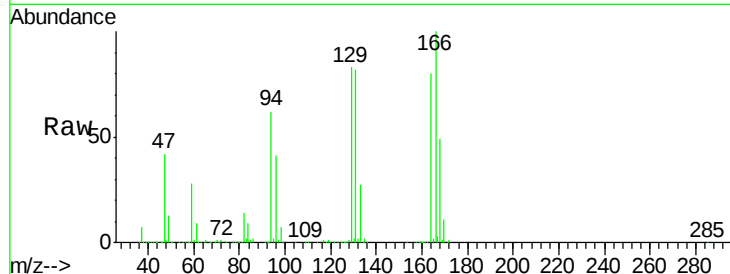
#52
Tetrachloroethene
Concen: 18.430 ppbv
RT: 11.24 min Scan# 2628
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tot Ion	Ratio	Lower	Upper
164	100		
166	124.3	100.7	151.1
129	102.9	83.0	124.4
131	101.6	81.0	121.4

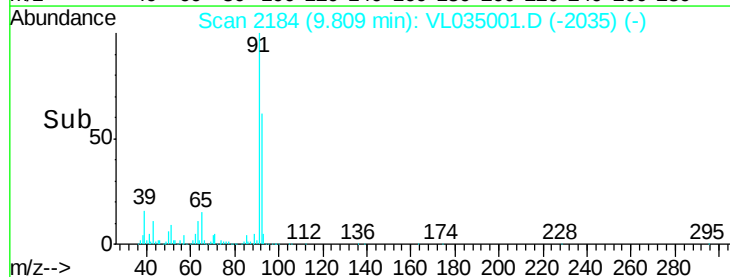
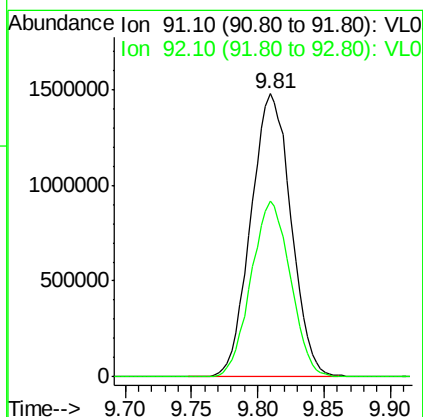
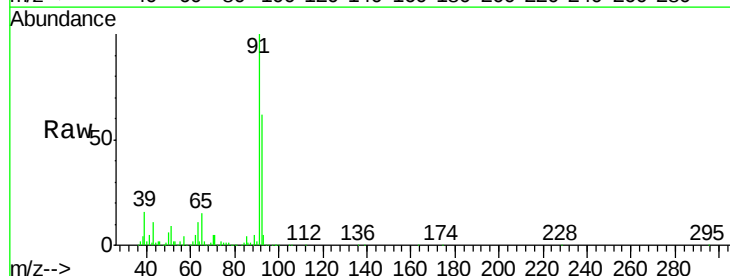
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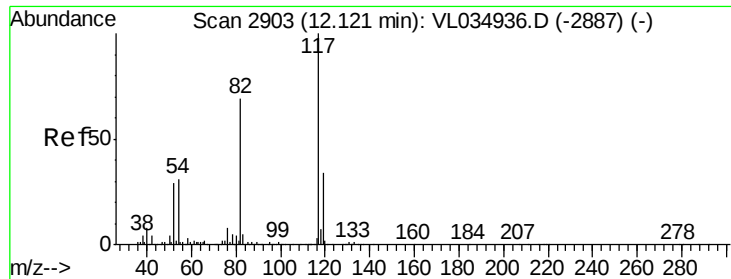
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#53
Toluene
Concen: 15.333 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.6	73.0





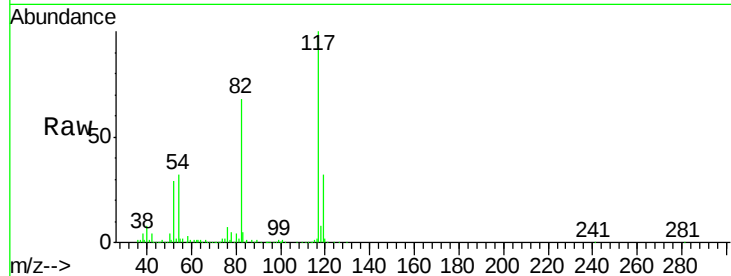
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.03 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Instrument :
MSVOA_L
ClientSampleId :
SG-6

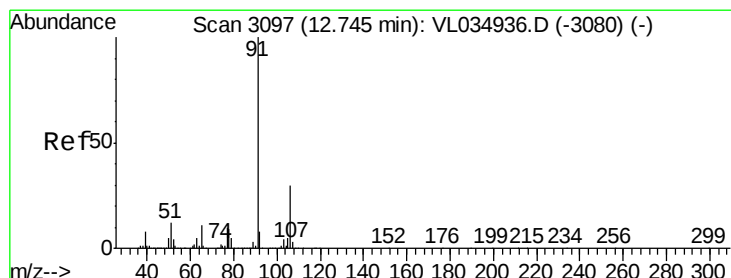
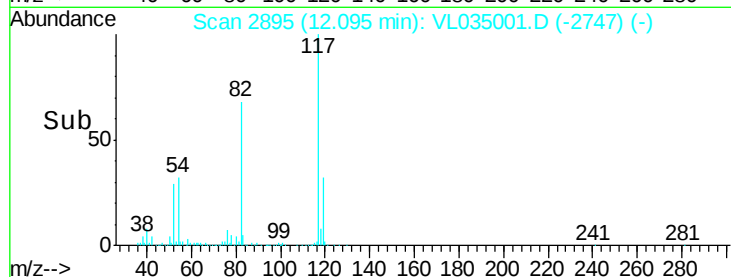
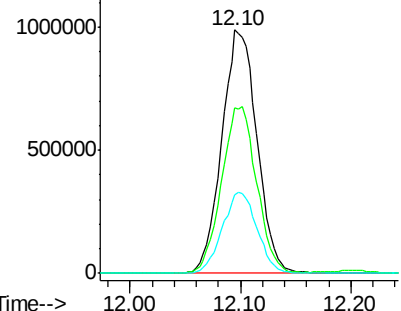
Tot Ion	Ratio	Lower	Upper
117	100		
82	68.4	53.1	79.7
119	33.0	26.7	40.1

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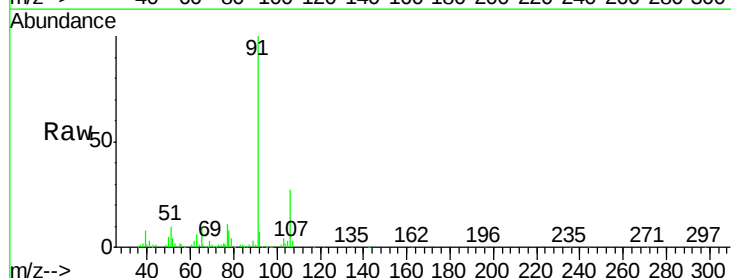


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

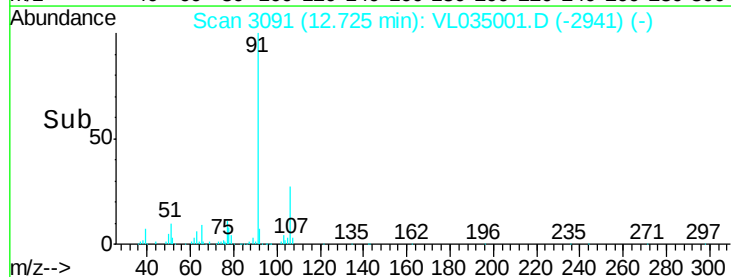
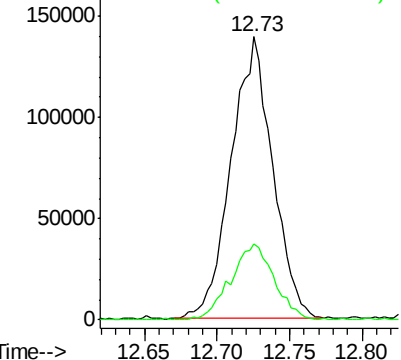


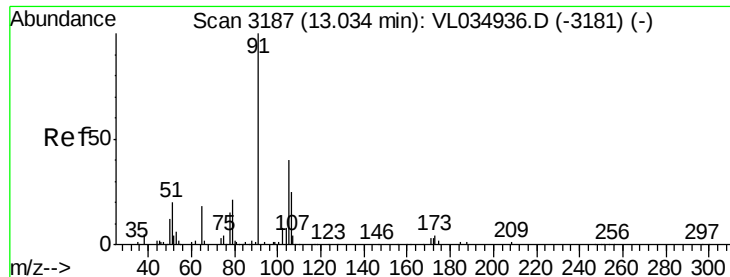
#58
Ethyl Benzene
Concen: 1.029 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.7	24.2	36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





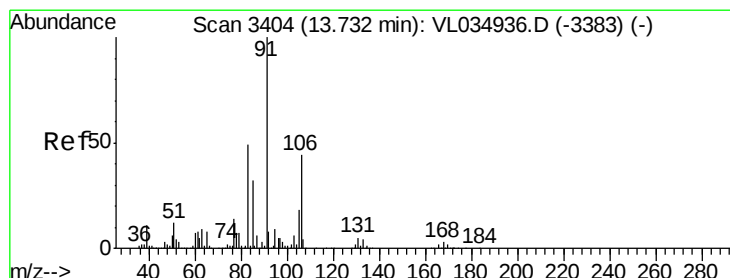
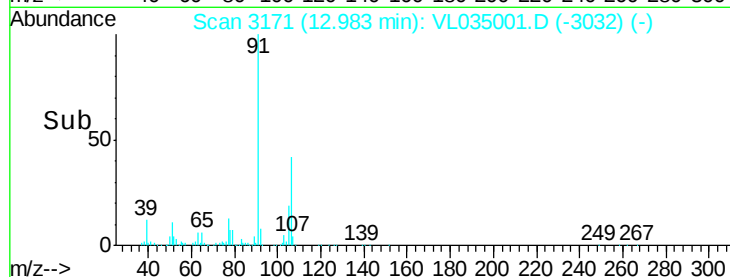
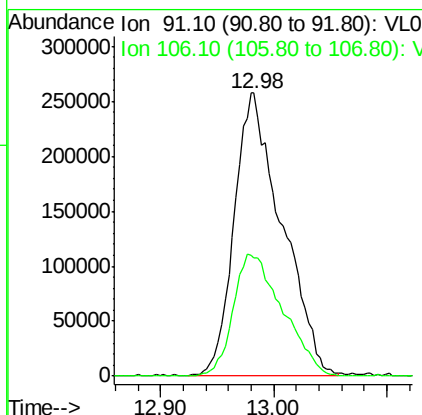
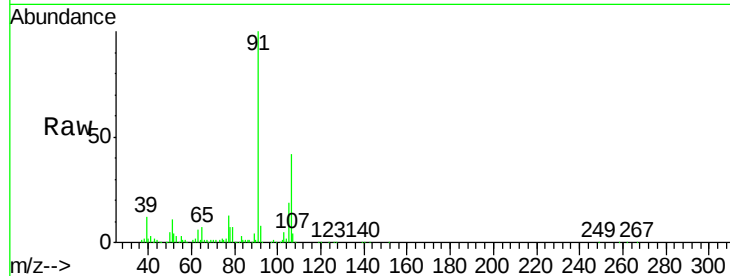
#59
m/p-Xylene
Concen: 3.173 ppbv
RT: 12.98 min Scan# 3171
Delta R.T. -0.05 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Instrument :
MSVOA_L
ClientSampled :
SG-6

Tot Ion: 91 Resp: 752308
Ion Ratio Lower Upper
91 100
106 44.7 66.0 99.0#

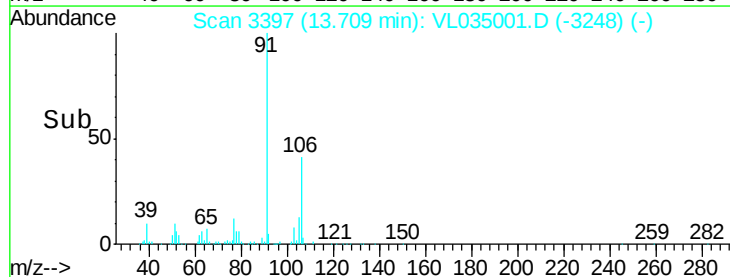
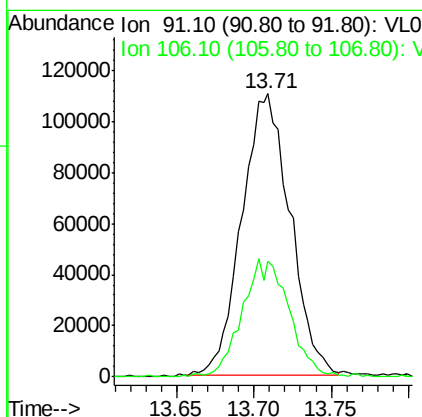
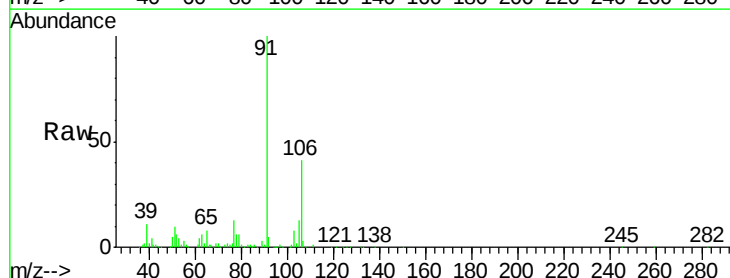
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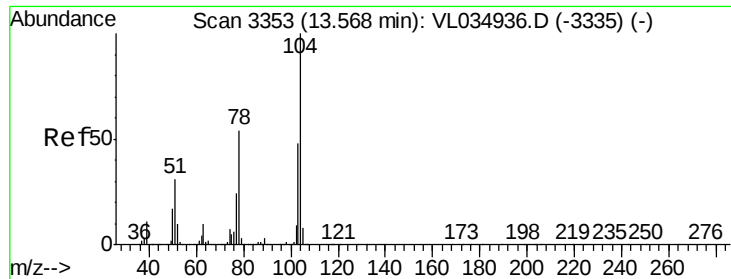
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#60
o-Xylene
Concen: 1.019 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tgt Ion: 91 Resp: 238380
Ion Ratio Lower Upper
91 100
106 41.0 21.9 65.5





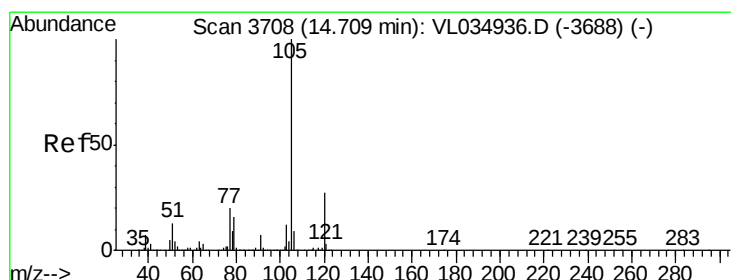
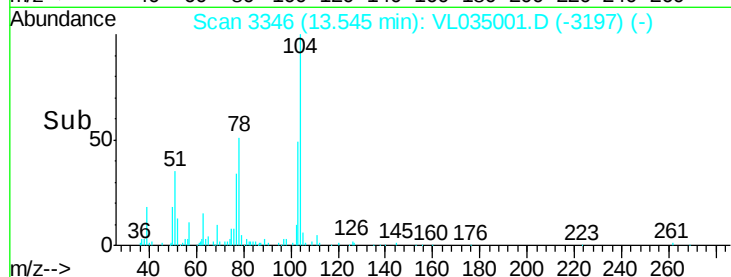
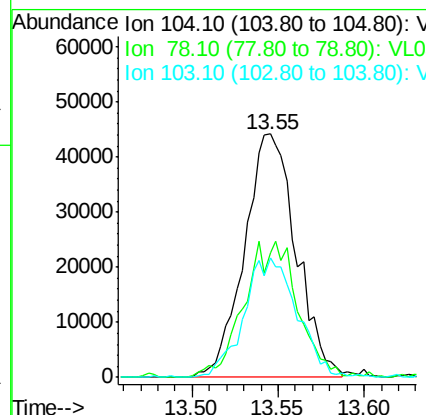
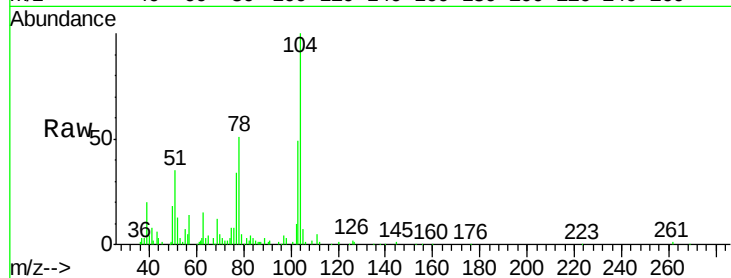
#61
Stvrene
Concen: 0.622 ppbv
RT: 13.55 min Scan# 3346
Delta R.T. -0.02 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.3	43.7	65.5
103	50.9	38.8	58.2

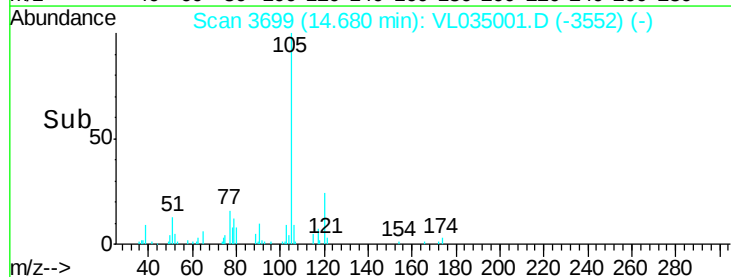
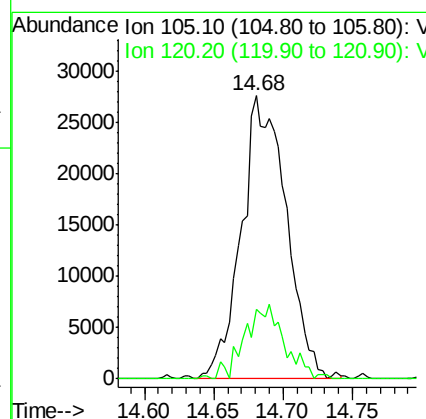
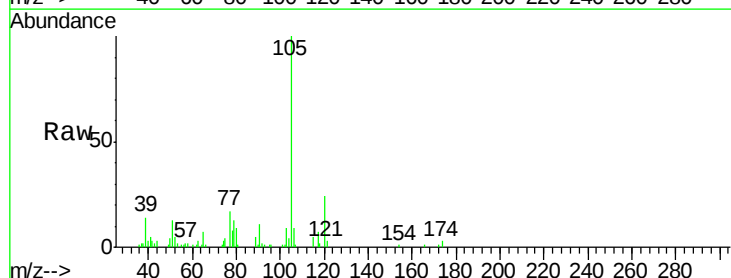
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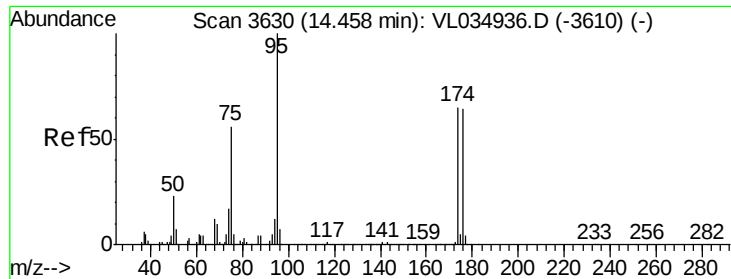
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#62
Isopropylbenzene
Concen: 0.178 ppbv m
RT: 14.68 min Scan# 3699
Delta R.T. -0.03 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.6	31.0#





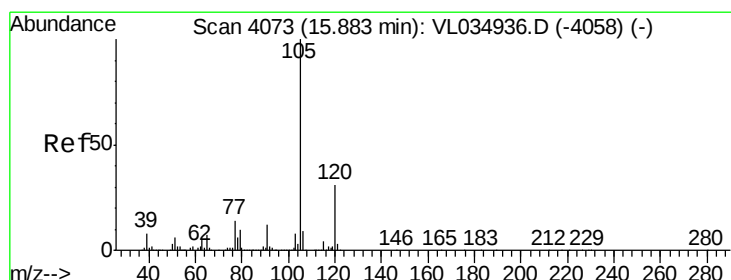
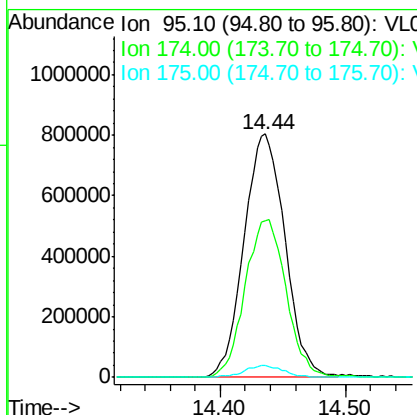
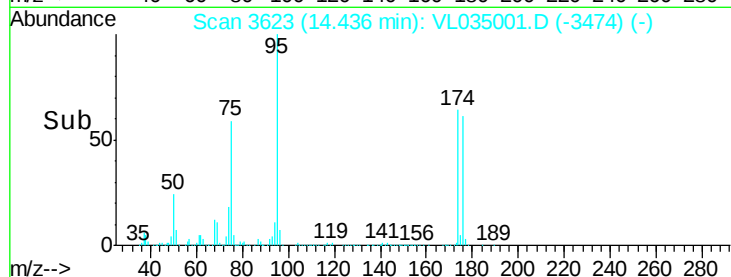
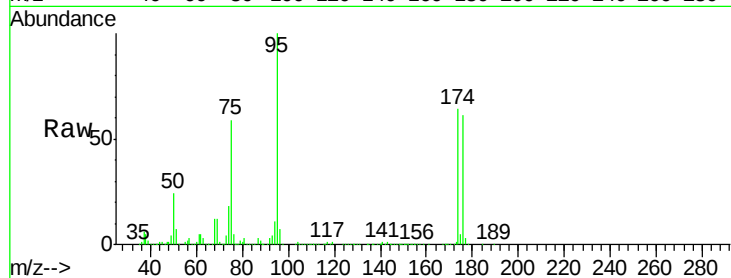
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.323 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.02 min
 Lab File: VL035001.D
 Acq: 13 May 2020 00:14

Instrument :
 MSVOA_L
 ClientSampled :
 SG-6

Tot Ion: 95 Resp: 1821113
 Ion Ratio Lower Upper
 95 100
 174 64.9 51.5 77.3
 175 4.7 3.8 5.8

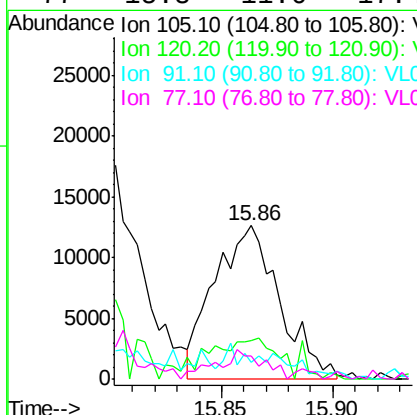
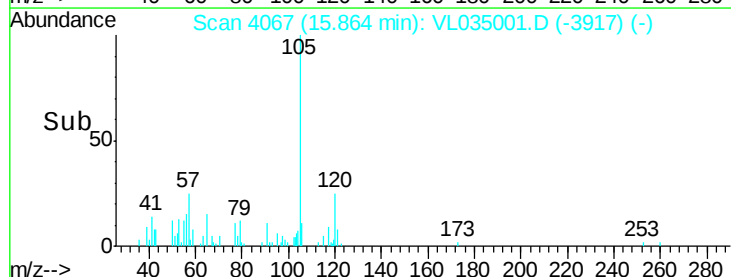
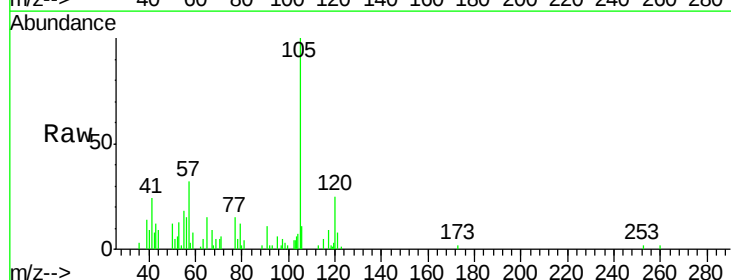
Manual Integrations
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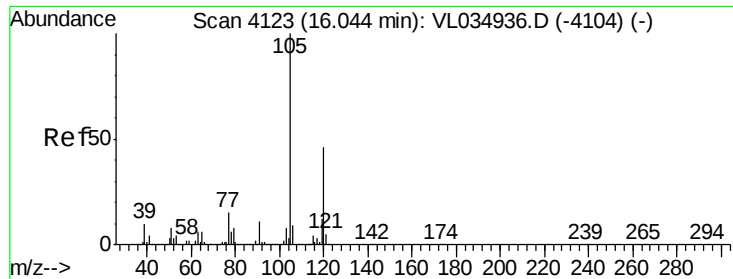
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#72
 4-Ethyltoluene
 Concen: 0.099 ppbv m
 RT: 15.86 min Scan# 4067
 Delta R.T. -0.02 min
 Lab File: VL035001.D
 Acq: 13 May 2020 00:14

Tgt Ion: 105 Resp: 25734
 Ion Ratio Lower Upper
 105 100
 120 32.8 23.8 35.8
 91 22.4 10.6 15.8#
 77 15.8 11.6 17.4





#73

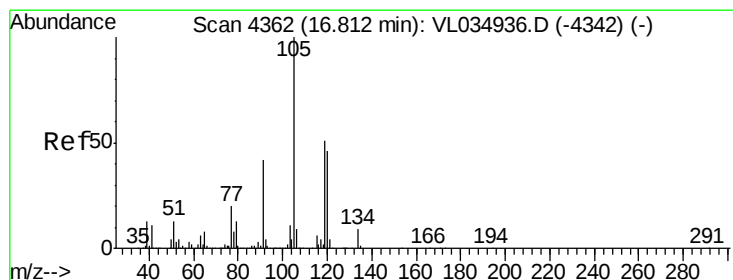
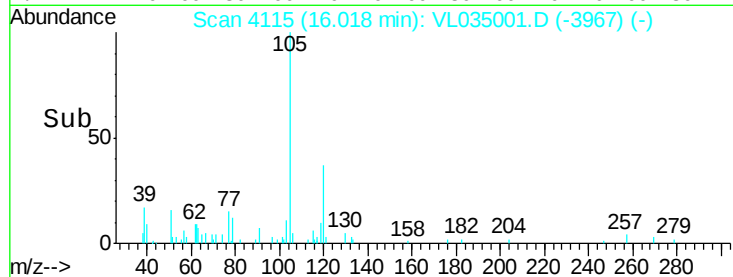
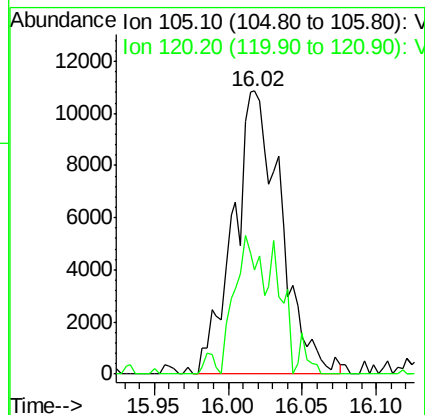
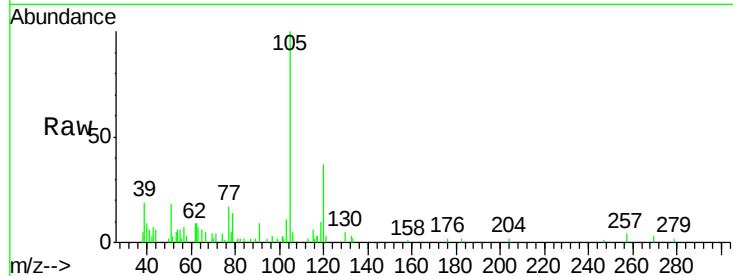
1,3,5-Trimethylbenzene
Concen: 0.096 ppbv m
RT: 16.02 min Scan# 4115
Delta R.T. -0.03 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tot Ion	Ratio	Lower	Upper
105	100		
120	36.7	36.4	54.6

Manual Integrations
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#74

1,2,4-Trimethylbenzene
Concen: 0.298 ppbv m
RT: 16.78 min Scan# 4353
Delta R.T. -0.03 min
Lab File: VL035001.D
Acq: 13 May 2020 00:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	34.3	36.8	55.2#
91	13.7	35.4	53.0#
77	14.3	16.2	24.2#

