

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL120820\
 Data File : VL036125.D
 Acq On : 9 Dec 2020 11:02
 Operator : SY/AP
 Sample : L4949-04DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Manual Integrations
 APPROVED

MMDadoda
 12/11/2020 12:24:20 PM

Quant Time: Dec 10 21:53:54 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	1305771	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2668119	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	2419348	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2114246	11.01	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	17506m	0.235	ppbv	
13) Ethanol	3.62	45	55586m	5.403	ppbv	
15) Acetone	3.85	43	1254427	7.993	ppbv	98
25) Ethyl Acetate	5.69	43	268790	0.857	ppbv #	92
34) 2-Butanone	5.26	43	372936	2.107	ppbv	99
41) Tetrahydrofuran	6.08	42	84562m	0.804	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	144295m	0.352	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	52507m	0.199	ppbv	
53) Toluene	9.82	91	1508912	5.943	ppbv	99
58) Ethyl Benzene	12.73	91	136127m	0.411	ppbv	
59) m/p-Xylene	12.99	91	427700m	1.532	ppbv	
60) o-Xylene	13.70	91	131385m	0.499	ppbv	
72) 4-Ethyltoluene	15.86	105	87075m	0.306	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	75373m	0.277	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	192199	0.703	ppbv #	64

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

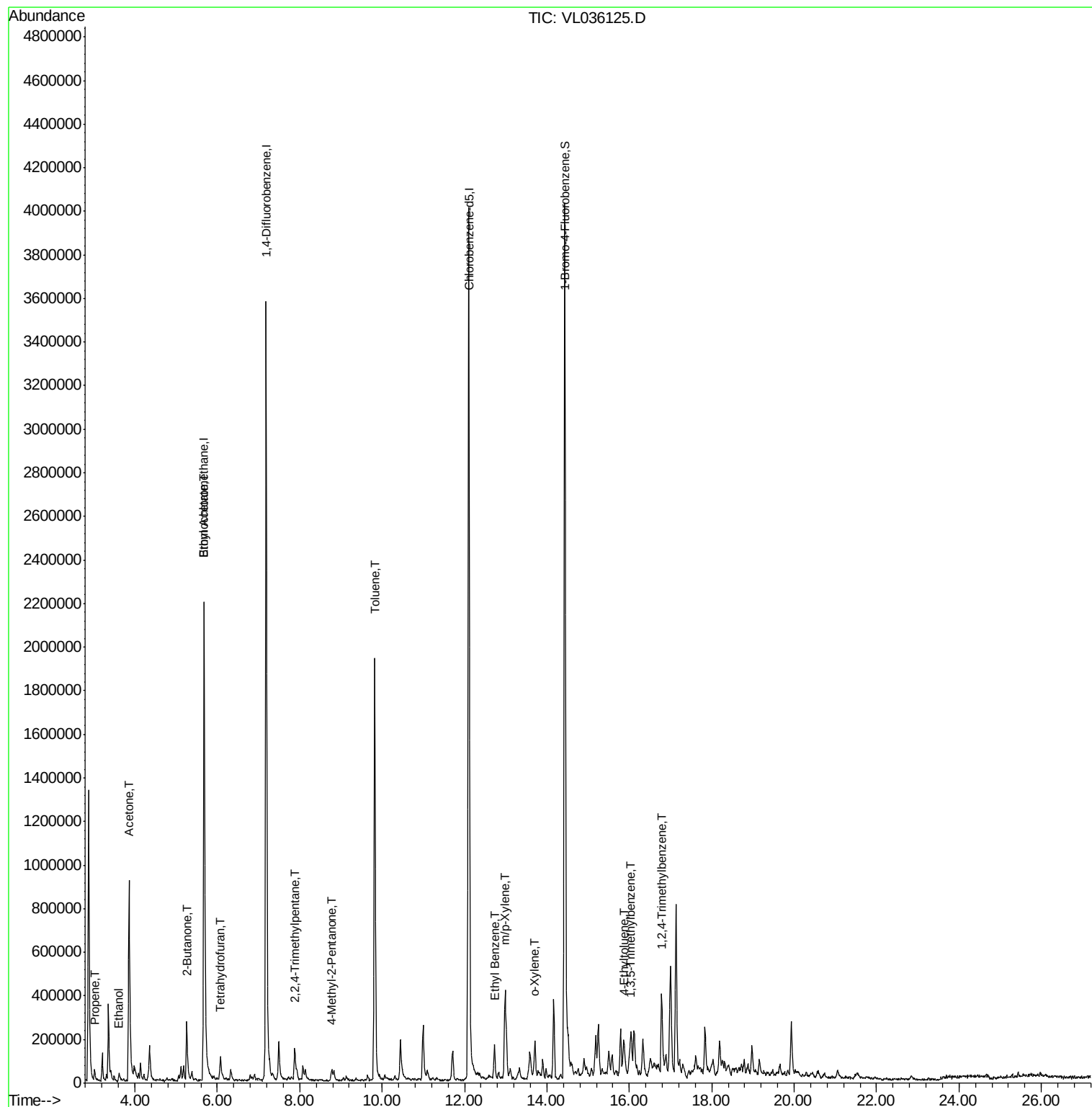
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL120820\
Data File : VL036125.D
Acq On : 9 Dec 2020 11:02
Operator : SY/AP
Sample : L4949-04DL 40X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

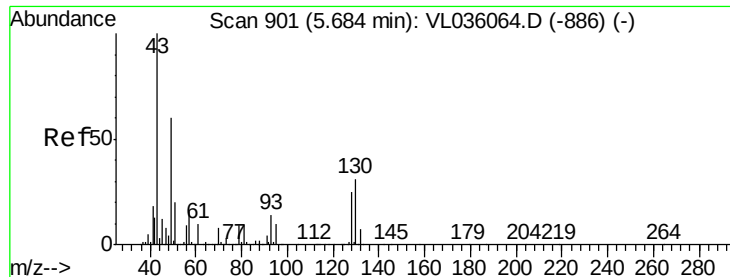
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Manual Integrations
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Quant Time: Dec 10 21:53:54 2020
Quant Method : Z:\VOASRV\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: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

ClientSampled :

IA-2DL

Tot Ion: 49 Resp: 1305771

Ion Ratio Lower Upper

49 100

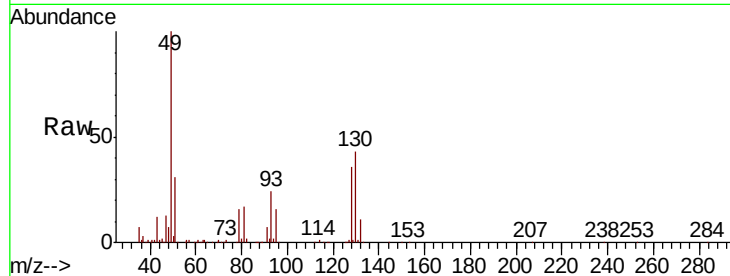
128 34.8 21.1 63.1

130 45.0 27.1 81.3

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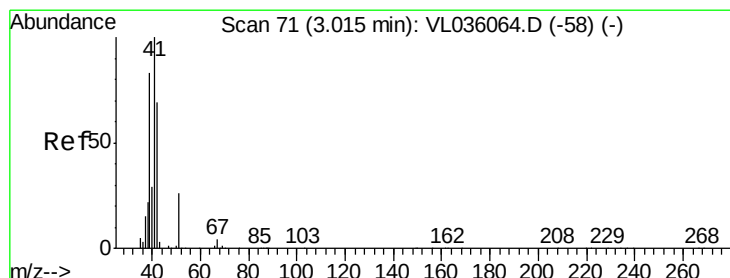
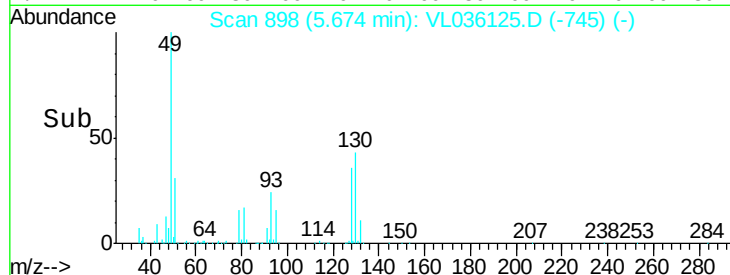
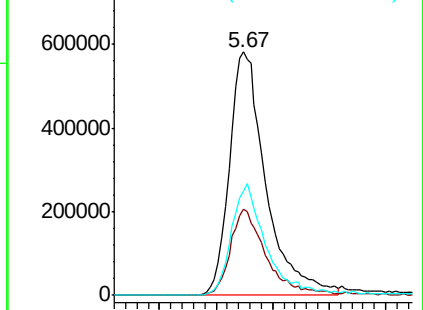
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 0.235 ppbv m

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL036125.D

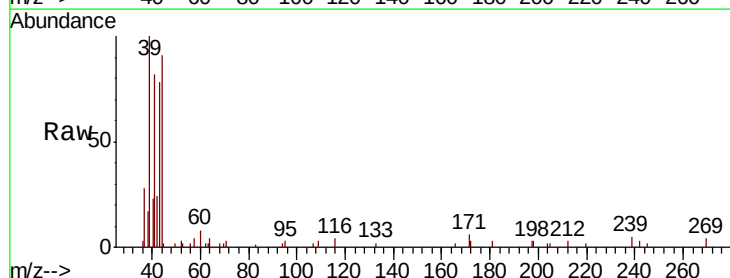
Acq: 9 Dec 2020 11:02

Tgt Ion: 41 Resp: 17506

Ion Ratio Lower Upper

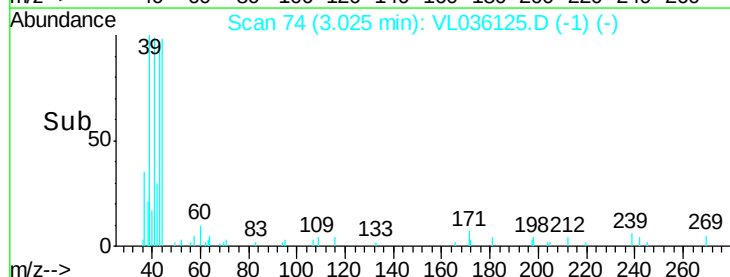
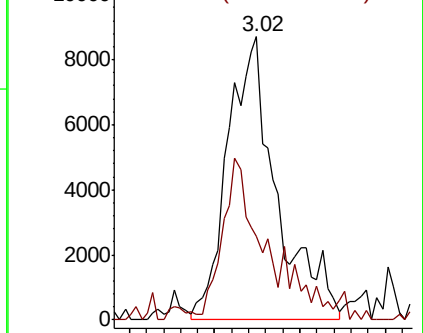
41 100

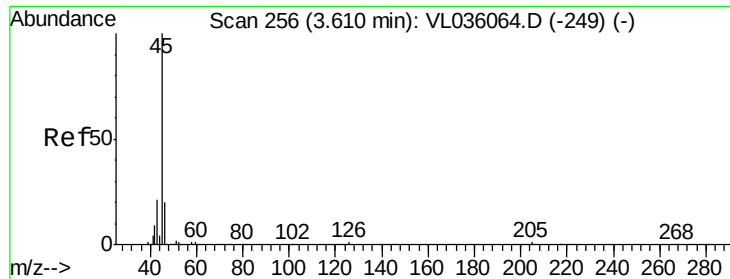
42 173.6 57.0 85.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





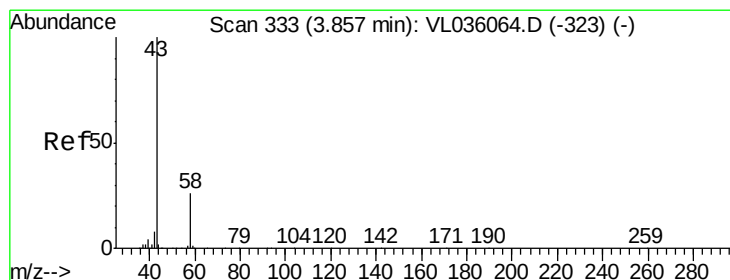
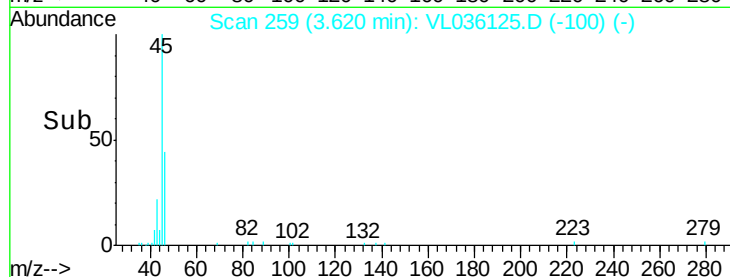
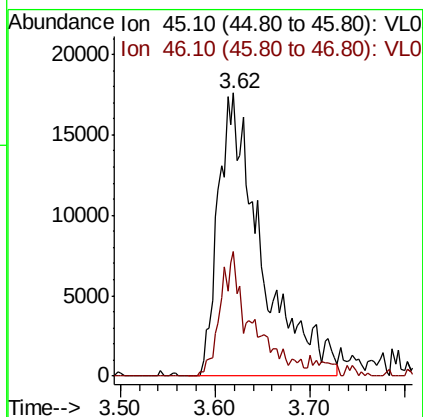
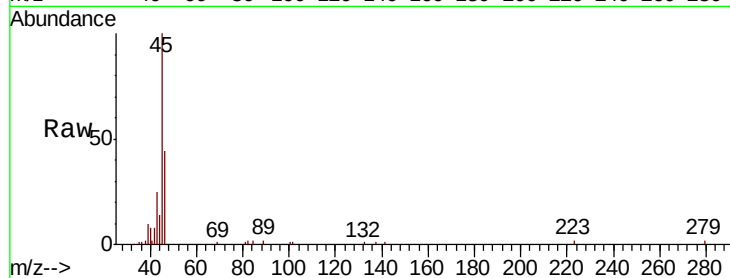
#13
Ethanol
Concen: 5.403 ppbv m
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion: 45 Resp: 55586
Ion Ratio Lower Upper
45 100
46 0.0 19.0 75.8#

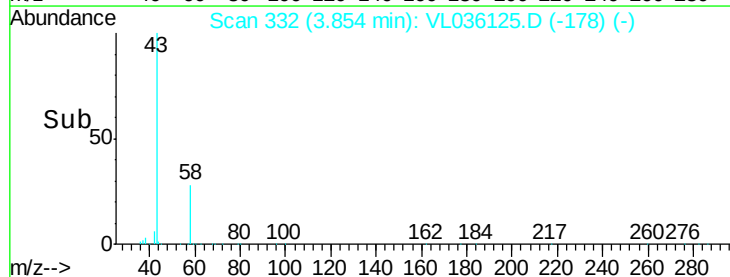
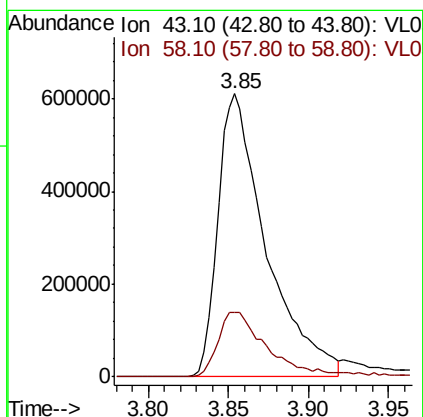
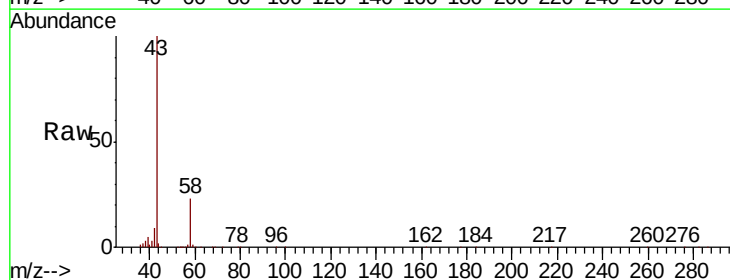
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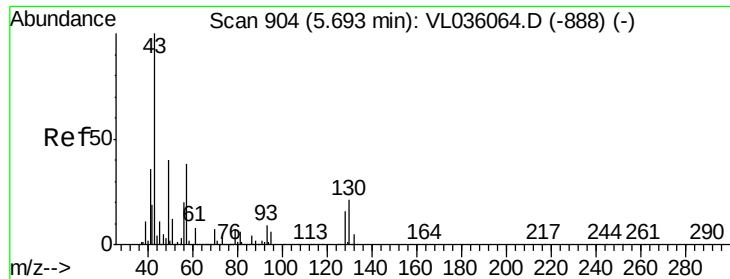
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#15
Acetone
Concen: 7.993 ppbv
RT: 3.85 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Tgt Ion: 43 Resp: 1254427
Ion Ratio Lower Upper
43 100
58 25.0 20.9 31.3





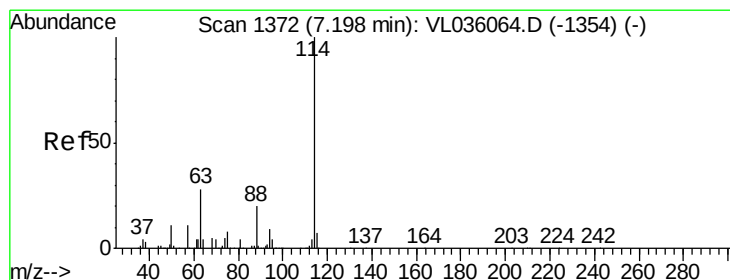
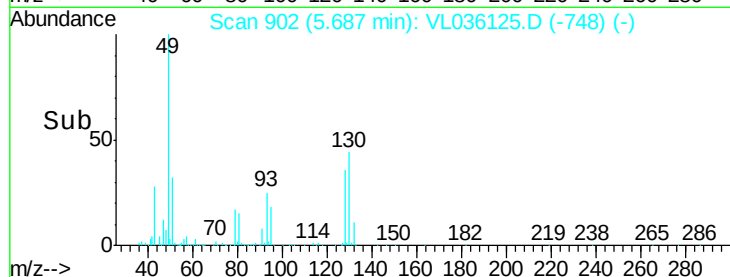
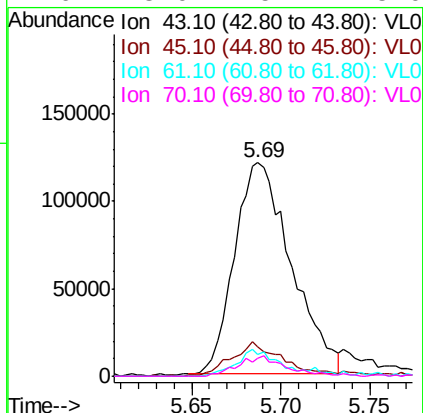
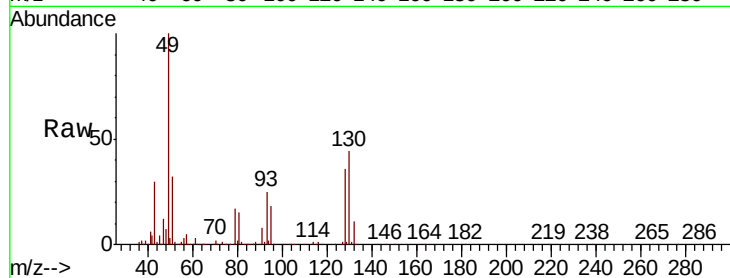
#25
Ethyl Acetate
Concen: 0.857 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion	Ratio	Lower	Upper
43	100		
45	16.3	8.2	12.4#
61	10.1	7.4	11.2
70	8.0	5.4	8.0

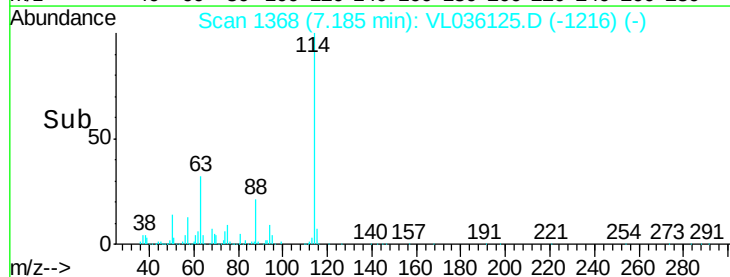
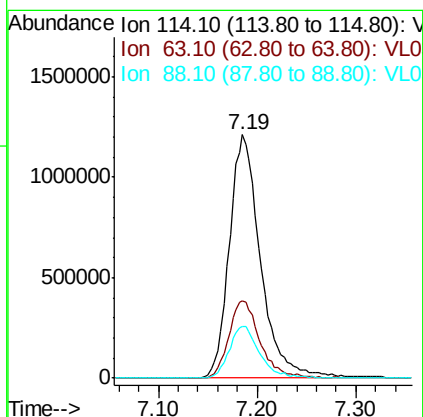
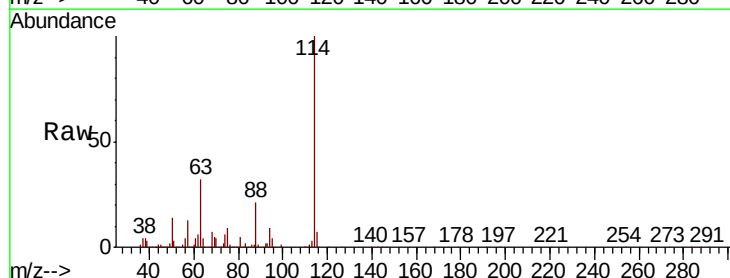
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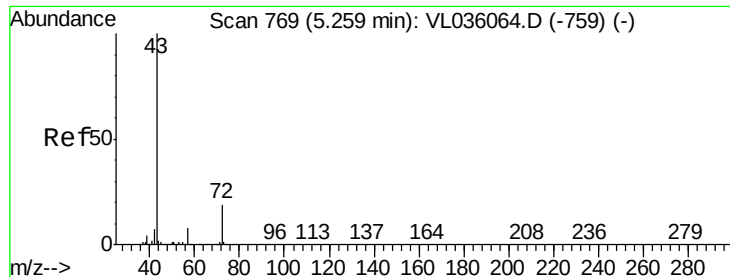
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Tgt Ion	Ratio	Lower	Upper
114	100		
63	32.2	23.6	35.4
88	21.0	15.8	23.6





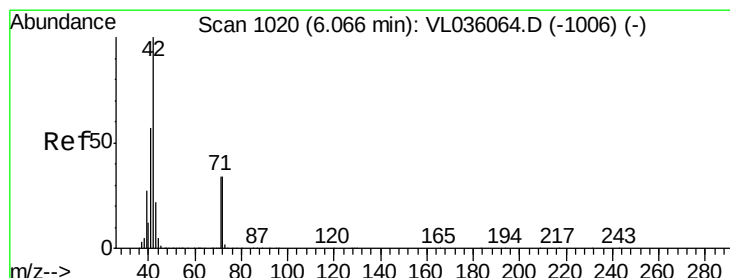
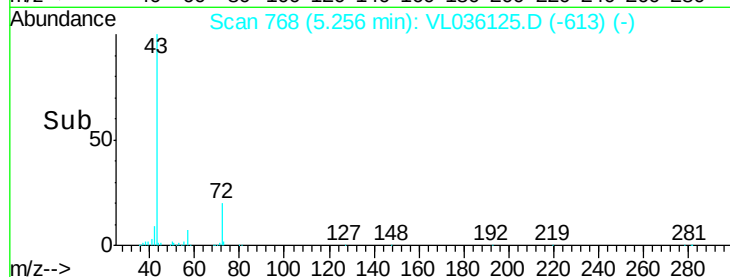
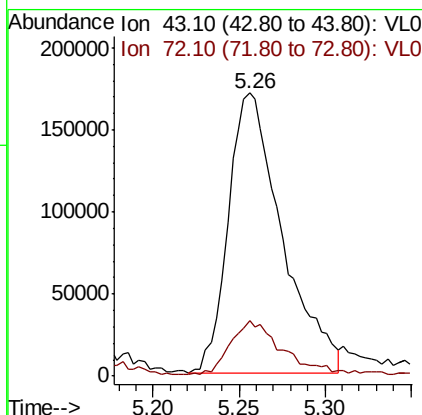
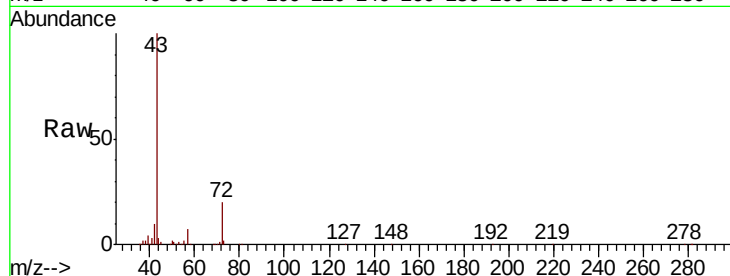
#34
2-Butanone
Concen: 2.107 ppbv
RT: 5.26 min Scan# 768
Delta R.T. -0.00 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	21.2	16.5	24.7

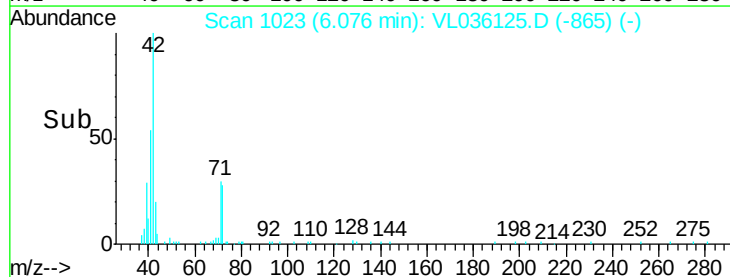
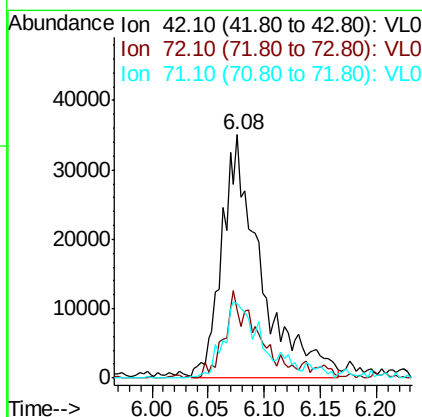
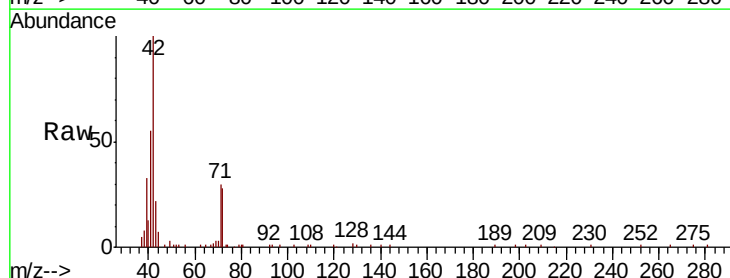
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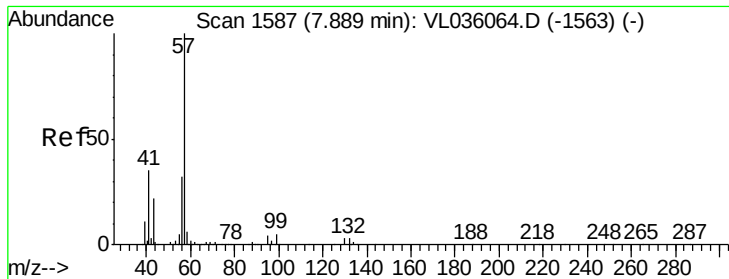
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#41
Tetrahydrofuran
Concen: 0.804 ppbv m
RT: 6.08 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.3	42.5#
71	0.0	27.3	40.9#





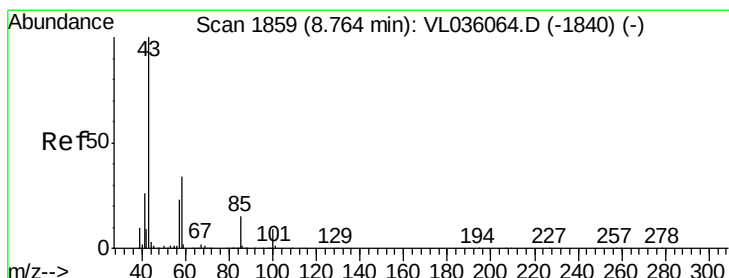
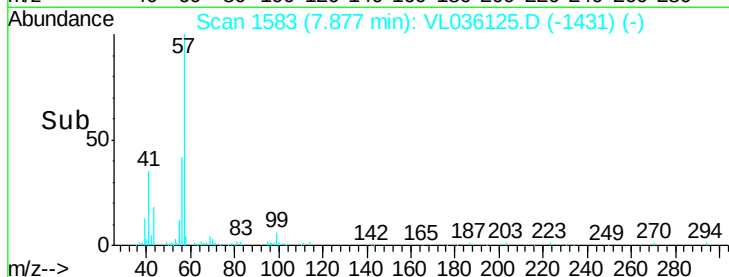
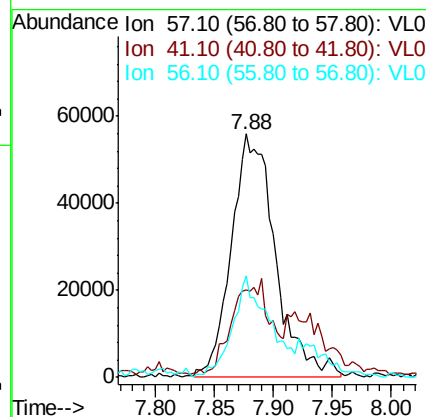
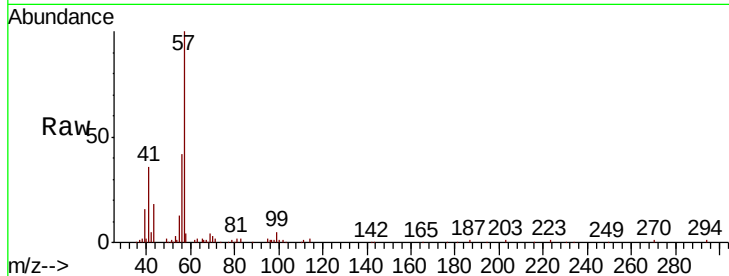
#44
 2,2,4-Trimethylpentane
 Concen: 0.352 ppbv m
 RT: 7.88 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: VL036125.D
 Acq: 9 Dec 2020 11:02

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.9	43.3#
56	45.0	25.3	37.9#

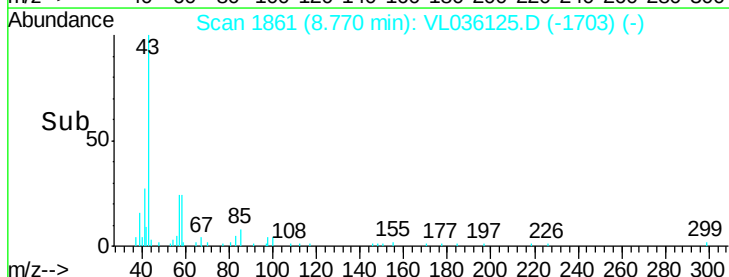
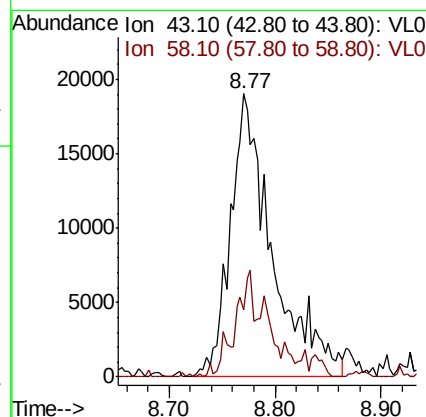
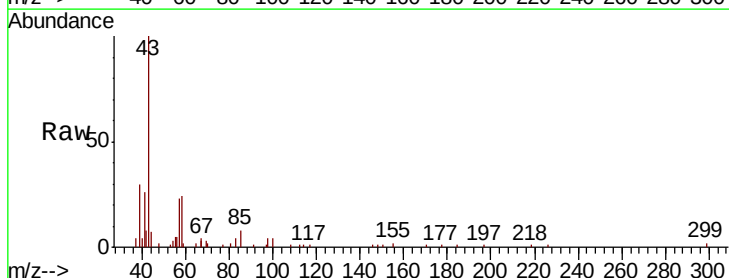
Manual Integrations
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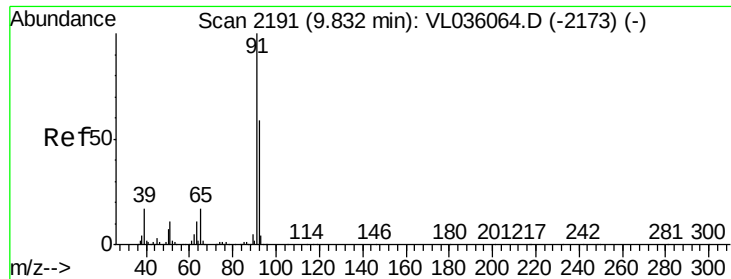
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#50
 4-Methyl-2-Pentanone
 Concen: 0.199 ppbv m
 RT: 8.77 min Scan# 1861
 Delta R.T. 0.01 min
 Lab File: VL036125.D
 Acq: 9 Dec 2020 11:02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.4	41.2#





#53

Toluene

Concen: 5.943 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion: 91 Resp: 1508912

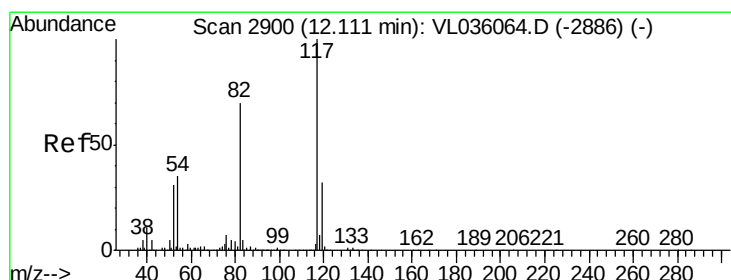
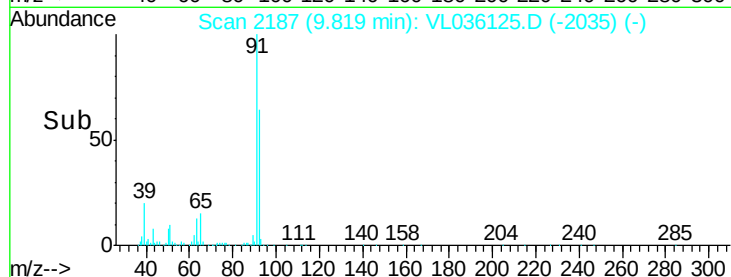
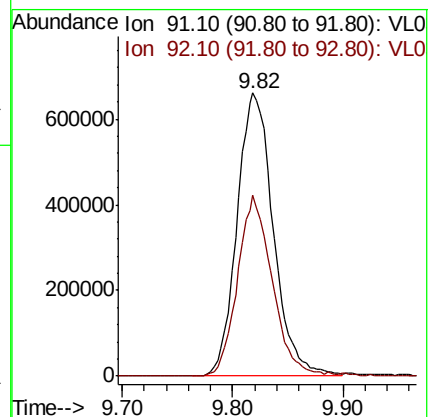
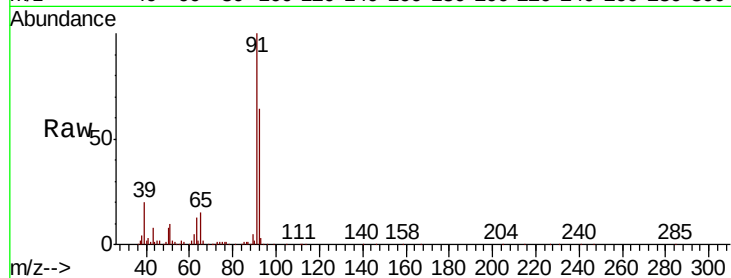
Ion Ratio Lower Upper

91 100

92 60.9 48.2 72.2

Manual Integrations
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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: VL036125.D

Acq: 9 Dec 2020 11:02

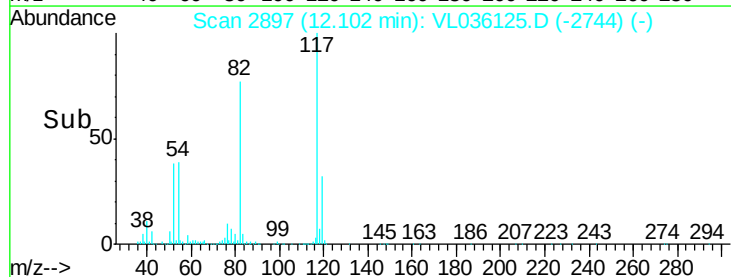
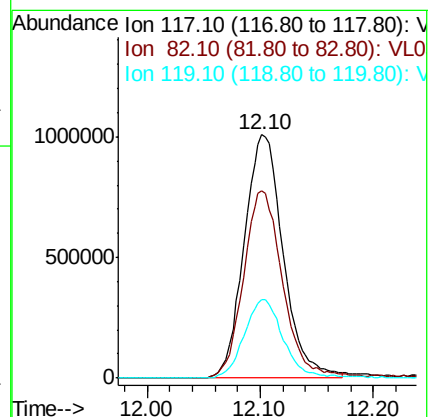
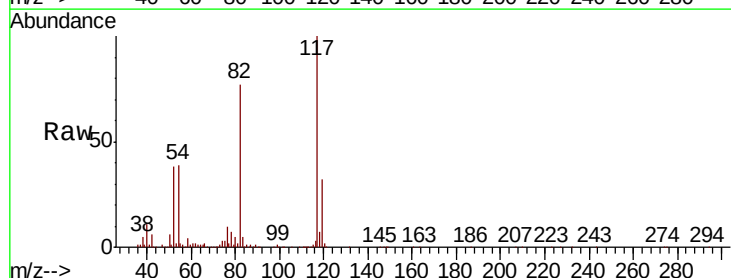
Tgt Ion: 117 Resp: 2419348

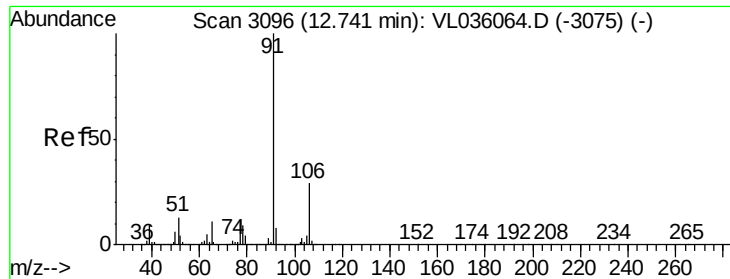
Ion Ratio Lower Upper

117 100

82 78.5 0.0 0.0#

119 32.9 0.0 0.0#





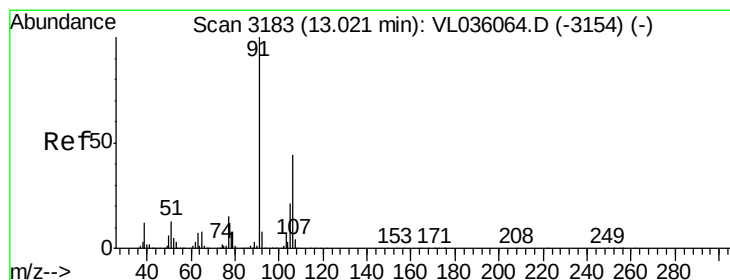
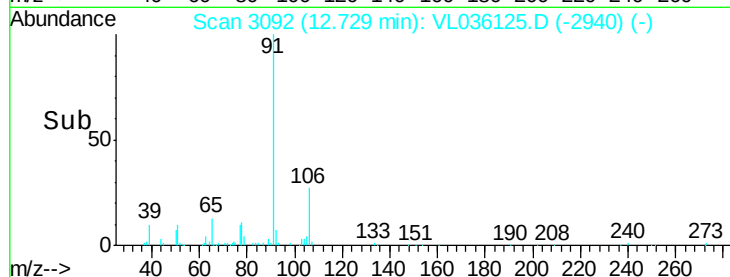
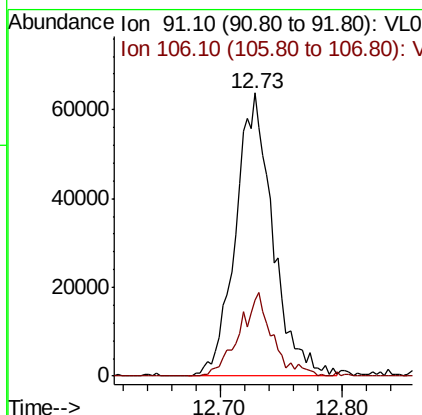
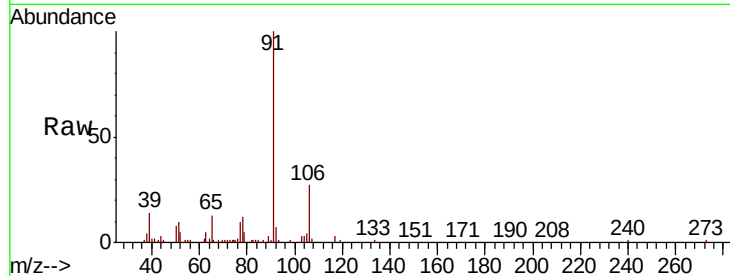
#58
Ethyl Benzene
Concen: 0.411 ppbv m
RT: 12.73 min Scan# 3092
Delta R.T. -0.01 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	26.8	23.0	34.4

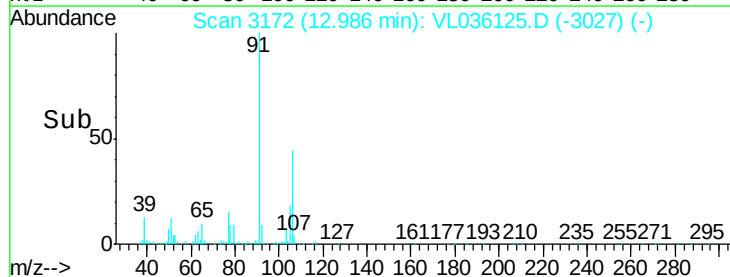
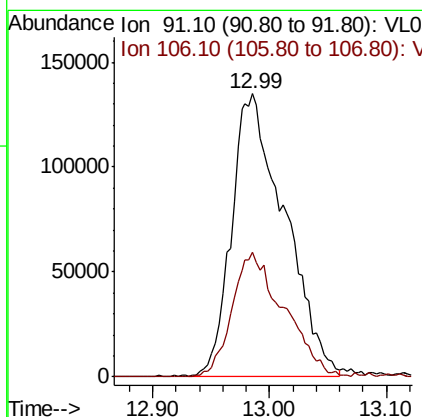
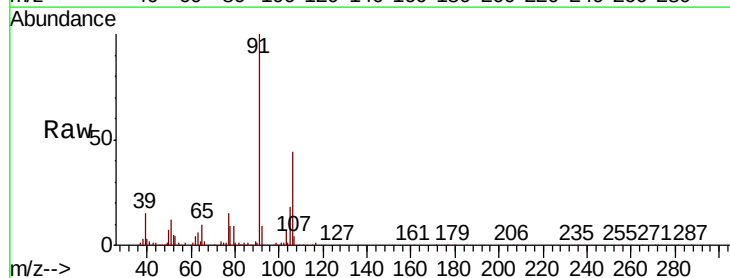
Manual Integrations
APPROVED

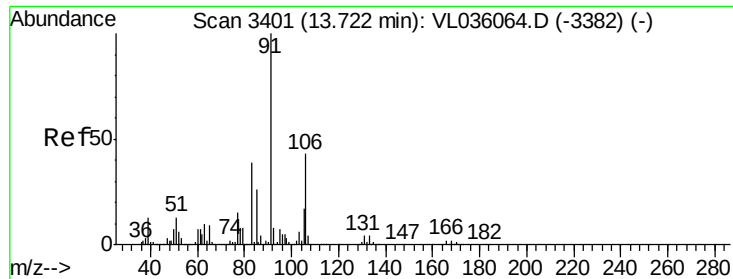
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#59
m/p-Xylene
Concen: 1.532 ppbv m
RT: 12.99 min Scan# 3172
Delta R.T. -0.04 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	33.6	50.4#





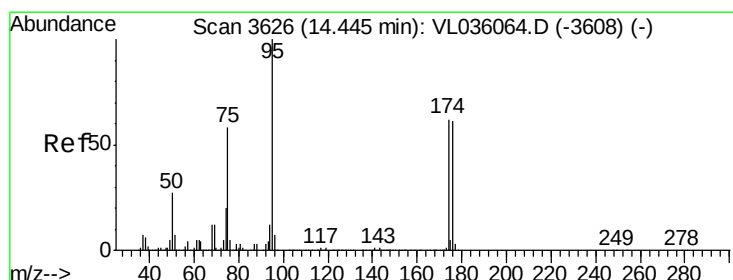
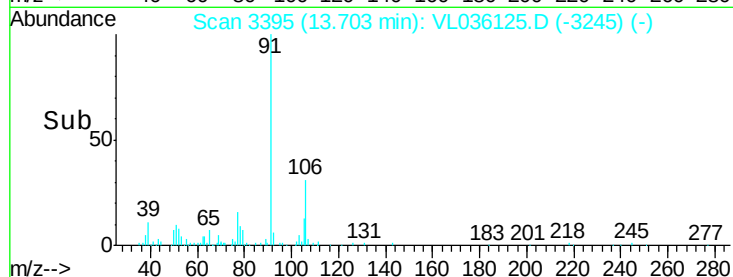
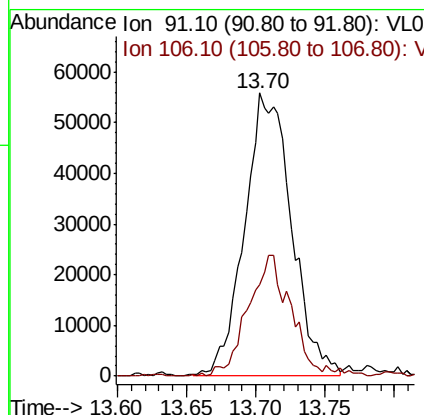
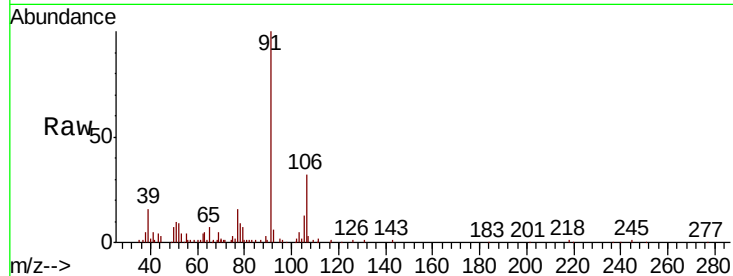
#60
o-Xylene
Concen: 0.499 ppbv m
RT: 13.70 min Scan# 3395
Delta R.T. -0.02 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion: 91 Resp: 131385
Ion Ratio Lower Upper
91 100
106 39.5 21.6 64.6

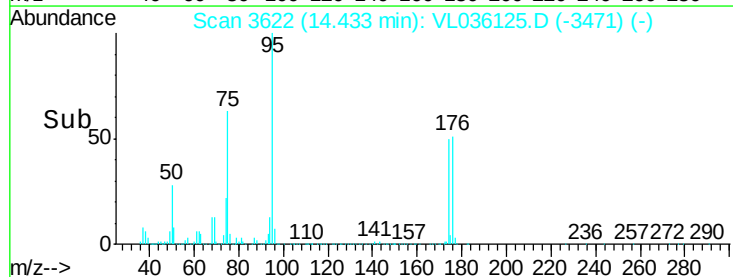
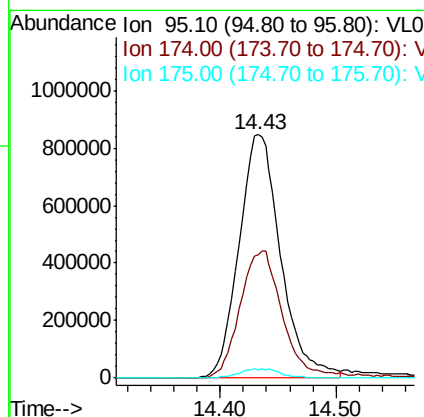
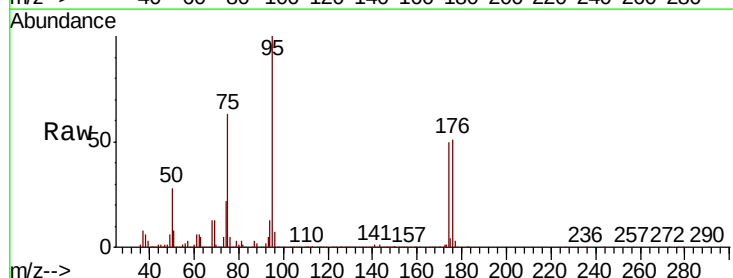
Manual Integrations
APPROVED

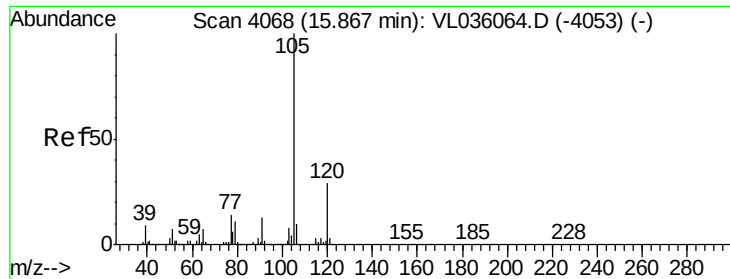
MMDadoda
12/11/2020 12:24:20 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 11.006 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Tgt Ion: 95 Resp: 2114246
Ion Ratio Lower Upper
95 100
174 54.4 50.7 76.1
175 4.0 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.306 ppbv m

RT: 15.86 min Scan# 4066

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

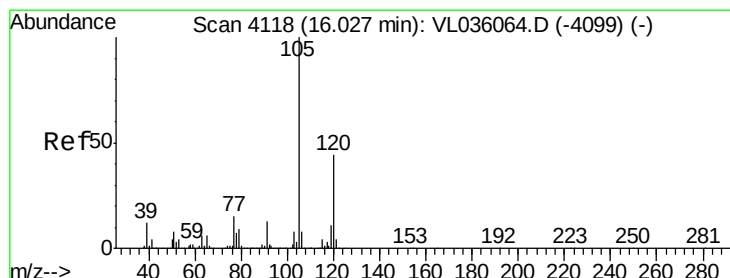
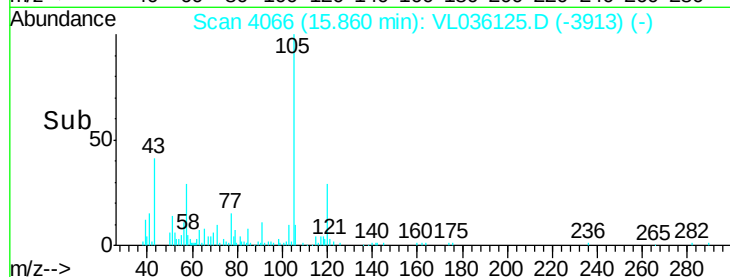
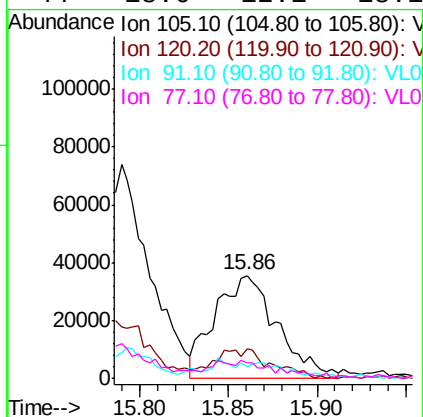
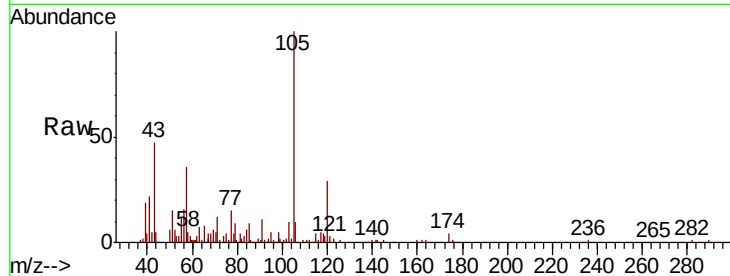
ClientSampleId :

IA-2DL

Tot Ion:	105	Resp:	87075
Ion Ratio	Lower	Upper	
105	100		
120	26.4	23.6	35.4
91	0.0	11.4	17.0#
77	18.6	12.1	18.1#

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12/11/2020 12:24:20 PM



#73

1,3,5-Trimethylbenzene

Concen: 0.277 ppbv m

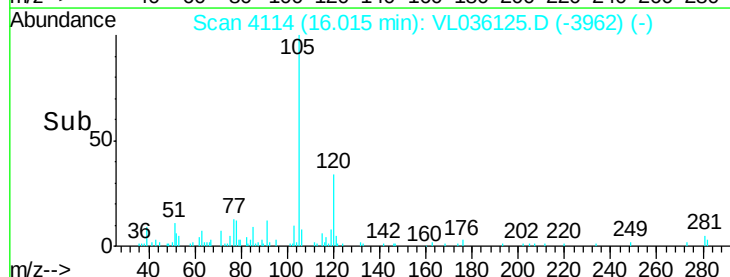
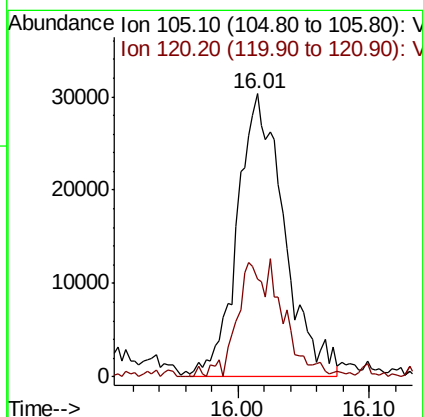
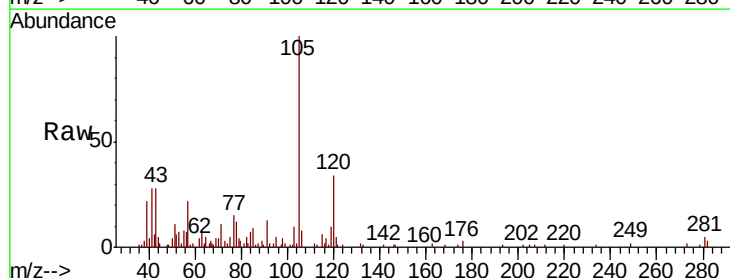
RT: 16.01 min Scan# 4114

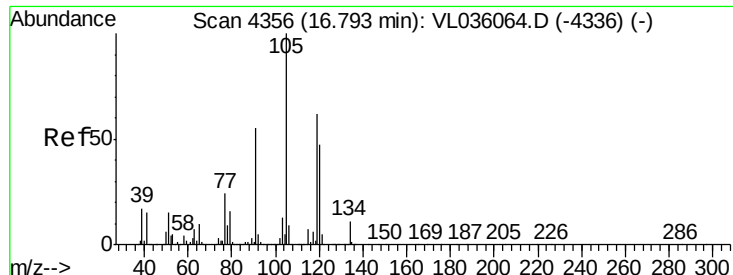
Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Tgt Ion:	105	Resp:	75373
Ion Ratio	Lower	Upper	
105	100		
120	34.4	35.4	53.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.703 ppbv
 RT: 16.78 min Scan# 4353
 Delta R.T. -0.01 min
 Lab File: VL036125.D
 Acq: 9 Dec 2020 11:02

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Tot Ion	Ion	Ratio	Resp Lower	Resp Upper
105	105	100		
120	120	36.9	37.4	56.0#
91	91	11.1	45.6	68.4#
77	77	16.3	19.4	29.2#

Manual Integrations
 APPROVED

MMDadoda
 12/11/2020 12:24:20 PM

