

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036359.D
 Acq On : 24 Feb 2021 20:42
 Operator : SY/AP
 Sample : M1463-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-11

Manual Integrations
 APPROVED

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 2/26/2021 4:17:28 PM

Quant Time: Feb 26 14:13:07 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1705575	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.19	114	3887506	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.10	117	3529431	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2843640	9.79	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	54262m	0.213	ppbv	
3) Chlorodifluoromethane	3.00	51	92951	0.439	ppbv #	87
4) Chloromethane	3.15	50	70475	0.688	ppbv #	82
9) Propene	3.02	41	225702m	2.857	ppbv	
10) Heptane	8.14	43	653255	2.805	ppbv	98
11) Trichlorofluoromethane	3.96	101	54011m	0.217	ppbv	
13) Ethanol	3.62	45	1508480	101.645	ppbv	90
15) Acetone	3.87	43	508091m	2.437	ppbv	
19) Isopropyl Alcohol	4.00	45	263877m	2.285	ppbv	
20) Methylene Chloride	4.36	84	2849947	42.371	ppbv	96
26) Hexane	5.70	57	1397226	8.449	ppbv #	39
30) Cyclohexane	7.15	84	154879	1.126	ppbv #	66
34) 2-Butanone	5.27	43	59001	0.228	ppbv #	85
35) Carbon Tetrachloride	7.04	117	15762m	0.060	ppbv	
36) Benzene	6.91	78	709598	2.149	ppbv	96
44) 2,2,4-Trimethylpentane	7.89	57	2390681	3.981	ppbv	92
53) Toluene	9.83	91	3328452	9.305	ppbv	99
58) Ethyl Benzene	12.73	91	692027	1.432	ppbv	97
59) m/p-Xylene	12.99	91	2050791m	4.831	ppbv	
60) o-Xylene	13.71	91	762425	1.878	ppbv	100
65) tert-Butylbenzene	16.78	119	64987	0.125	ppbv #	55
72) 4-Ethyltoluene	15.86	105	234986m	0.520	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	192292m	0.439	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	606458	1.357	ppbv #	69

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

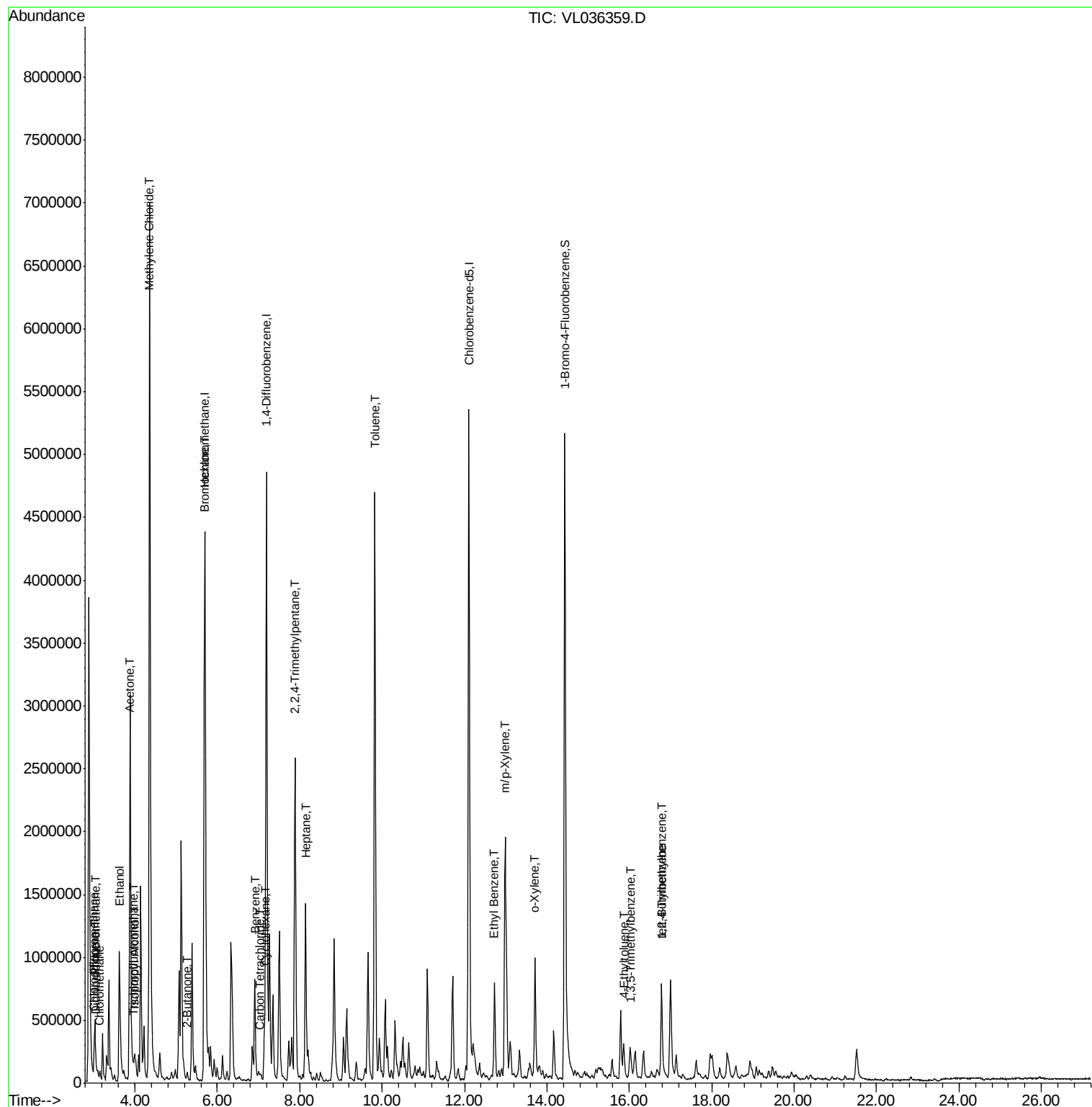
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022421\
Data File : VL036359.D
Acq On : 24 Feb 2021 20:42
Operator : SY/AP
Sample : M1463-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

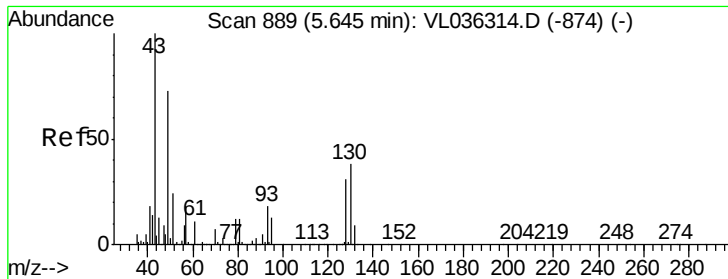
Instrument :
MSVOA_L
ClientSampleId :
NS-11

Manual Integrations
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Quant Time: Feb 26 14:13:07 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.04 min

Lab File: VL036359.D

Acq: 24 Feb 2021 20:42

Instrument :

MSVOA_L

ClientSampled :

NS-11

Tot Ion: 49 Resp: 1705575

Ion Ratio Lower Upper

49 100

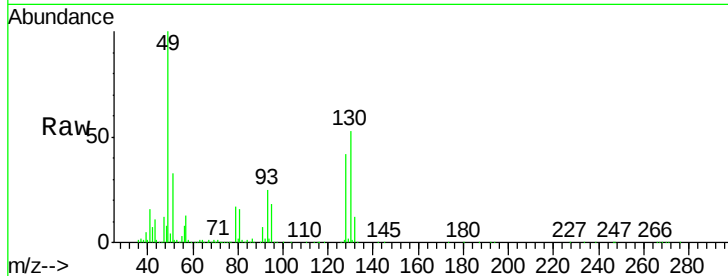
128 42.9 20.8 62.5

130 53.9 26.7 80.1

Manual Integrations
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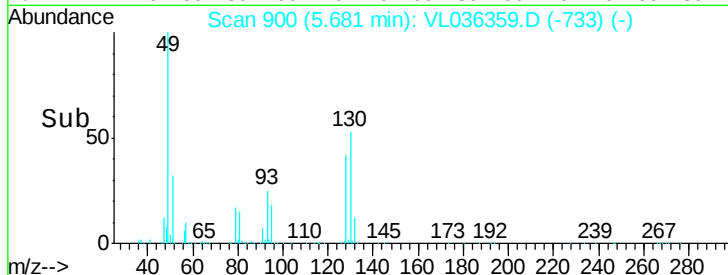


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

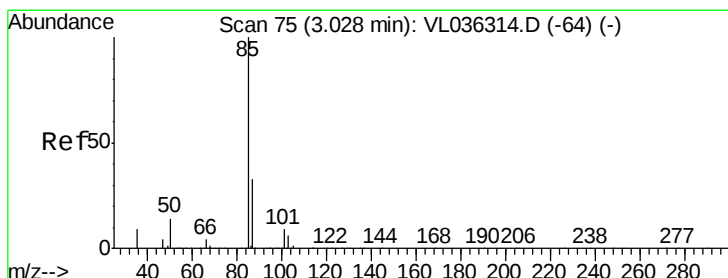
Ion 130.00 (129.70 to 130.70): VL0

Time-->



5.68

Time-->



#2

Dichlorodifluoromethane

Concen: 0.213 ppbv m

RT: 3.06 min Scan# 85

Delta R.T. 0.03 min

Lab File: VL036359.D

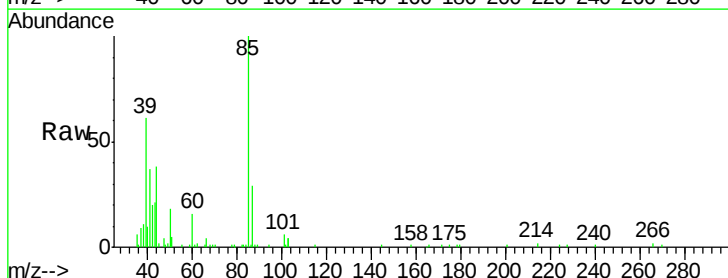
Acq: 24 Feb 2021 20:42

Tgt Ion: 85 Resp: 54262

Ion Ratio Lower Upper

85 100

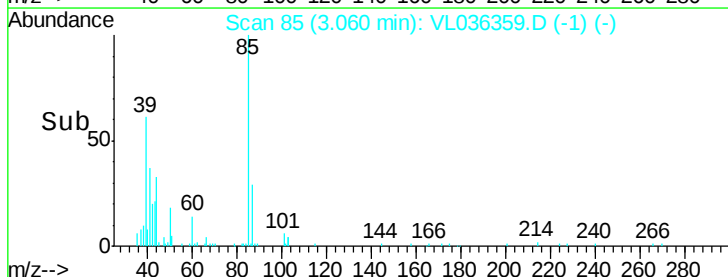
87 29.2 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

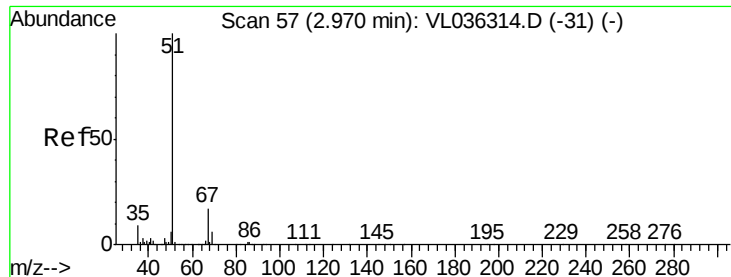
Ion 87.00 (86.70 to 87.70): VL0

Time-->



3.06

Time-->



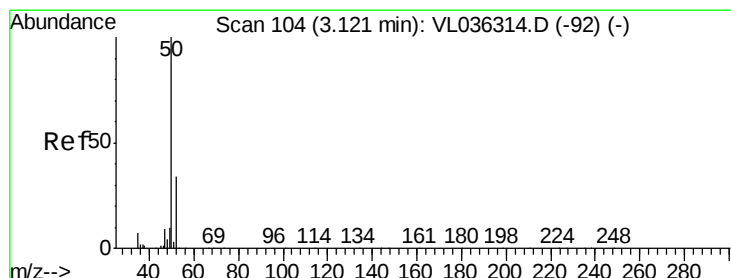
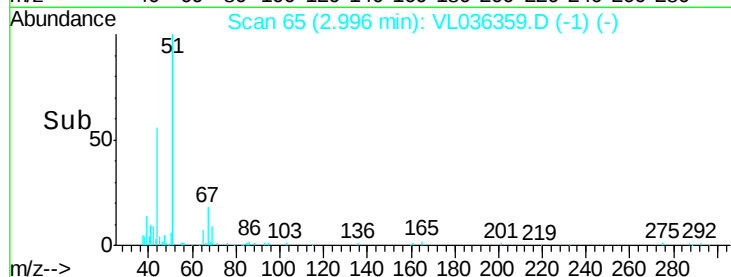
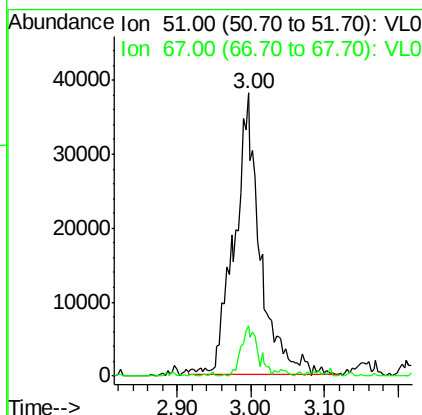
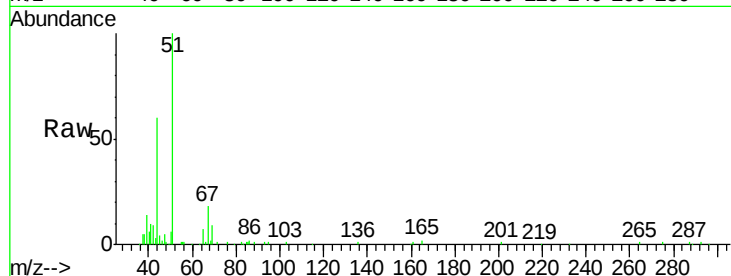
#3
Chlorodifluoromethane
Concen: 0.439 ppbv
RT: 3.00 min Scan# 65
Delta R.T. 0.03 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Instrument :
MSVOA_L
ClientSampleId :
NS-11

Tot Ion	Ratio	Lower	Upper
51	100		
67	12.6	14.7	22.1#

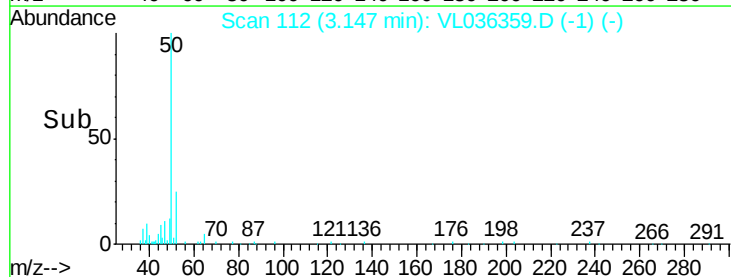
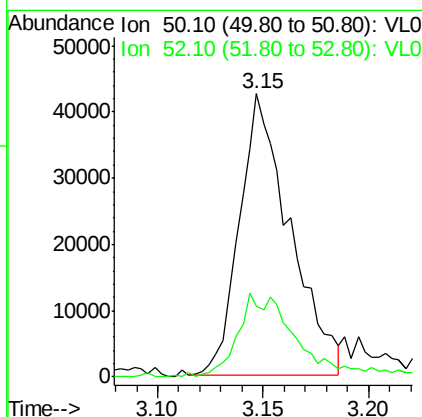
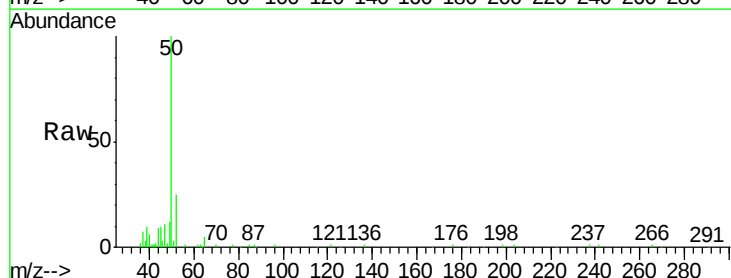
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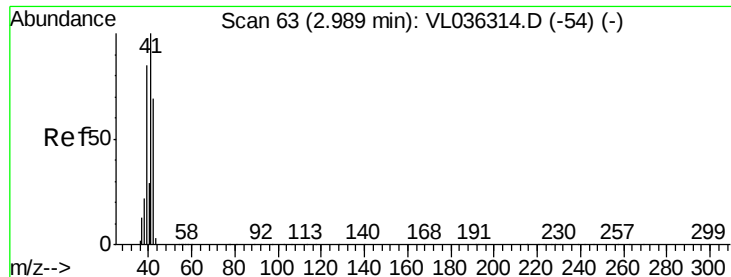
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#4
Chloromethane
Concen: 0.688 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.03 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Tgt Ion	Ratio	Lower	Upper
50	100		
52	23.6	27.0	40.4#





#9

Propene

Concen: 2.857 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.03 min

Lab File: VL036359.D

Acq: 24 Feb 2021 20:42

Instrument :

MSVOA_L

ClientSampleId :

NS-11

Tot Ion: 41 Resp: 225702

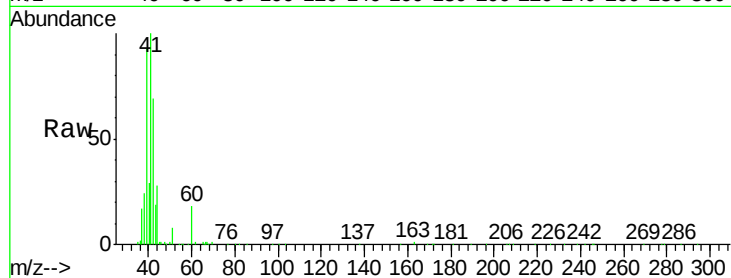
Ion Ratio Lower Upper

41 100

42 66.0 56.2 84.2

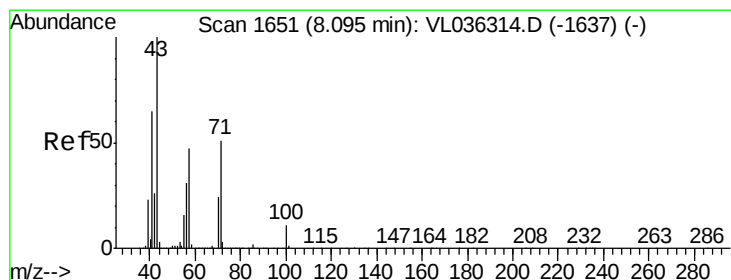
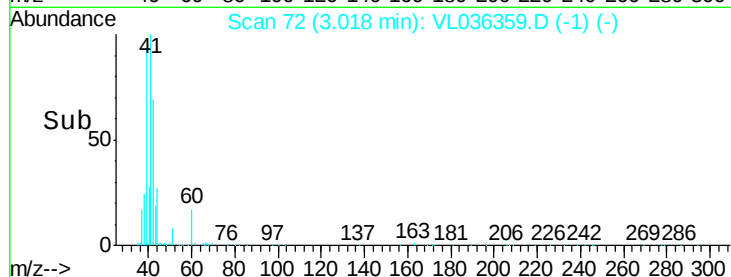
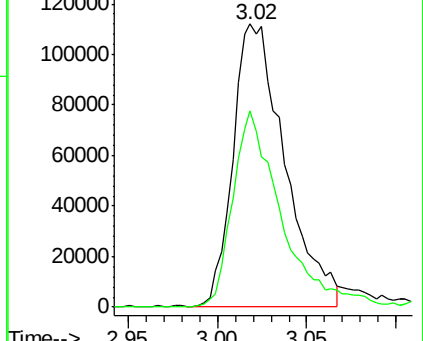
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.805 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.05 min

Lab File: VL036359.D

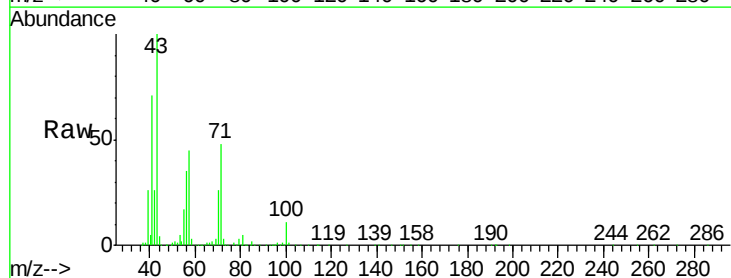
Acq: 24 Feb 2021 20:42

Tgt Ion: 43 Resp: 653255

Ion Ratio Lower Upper

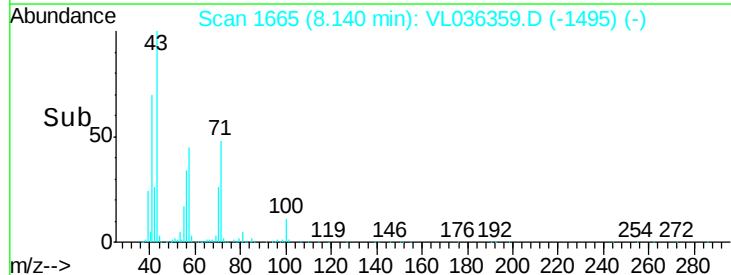
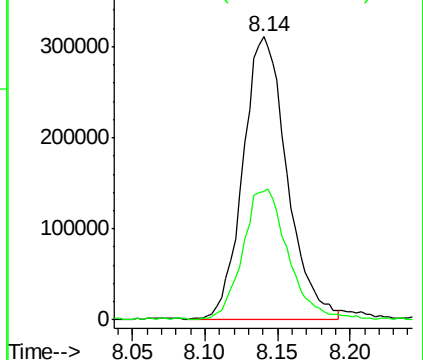
43 100

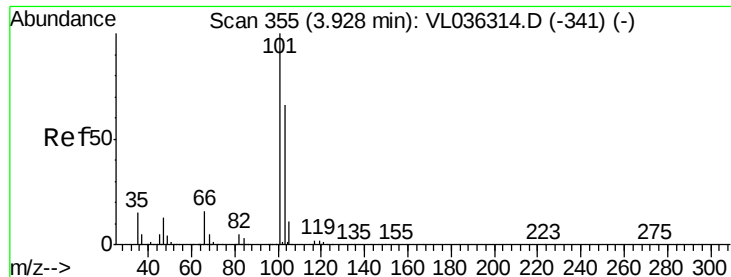
57 47.6 39.4 59.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





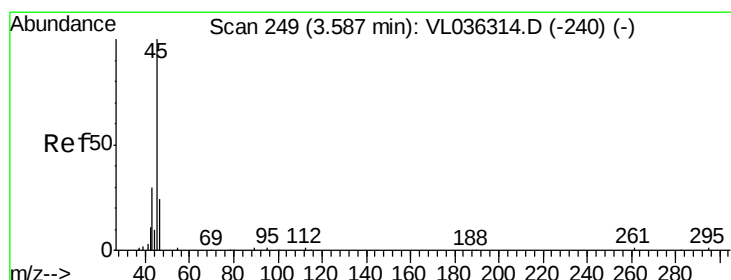
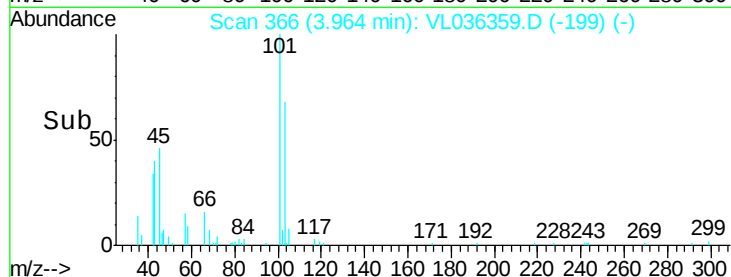
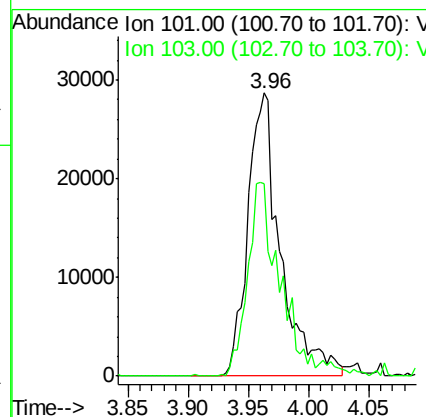
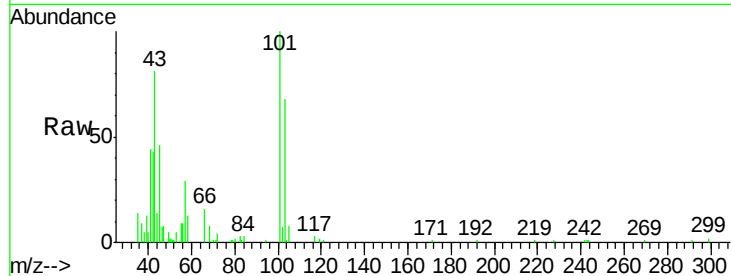
#11
Trichlorofluoromethane
Concen: 0.217 ppbv m
RT: 3.96 min Scan# 366
Delta R.T. 0.04 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Instrument :
MSVOA_L
ClientSampleId :
NS-11

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.8	52.9	79.3

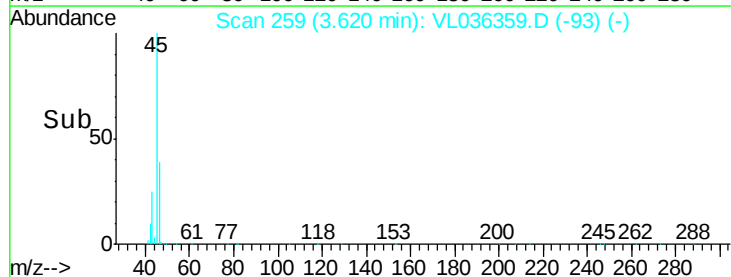
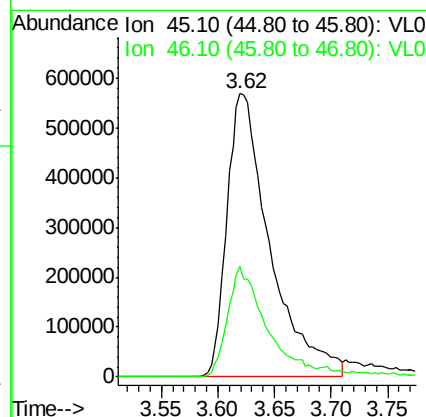
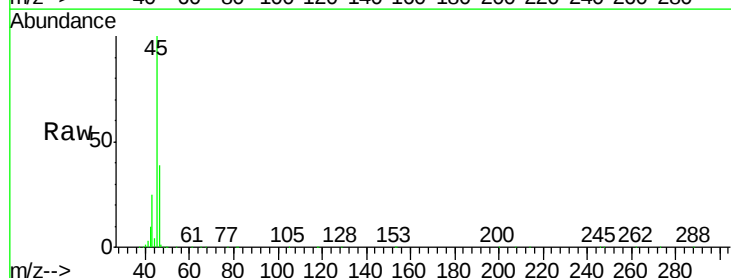
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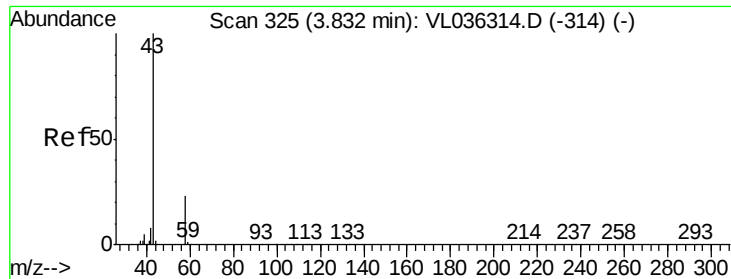
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#13
Ethanol
Concen: 101.645 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.03 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.7	17.7	70.7





#15

Acetone

Concen: 2.437 ppbv m

RT: 3.87 min Scan# 336

Delta R.T. 0.04 min

Lab File: VL036359.D

Acq: 24 Feb 2021 20:42

Instrument :

MSVOA_L

ClientSampleId :

NS-11

Tot Ion: 43 Resp: 508091

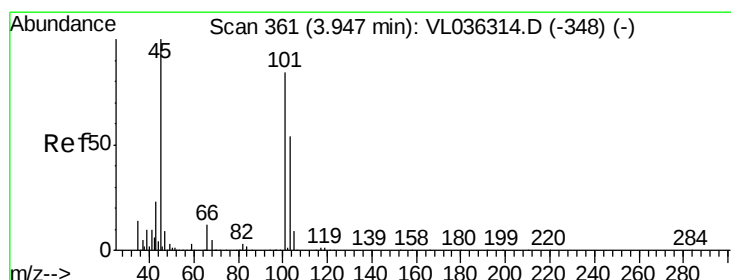
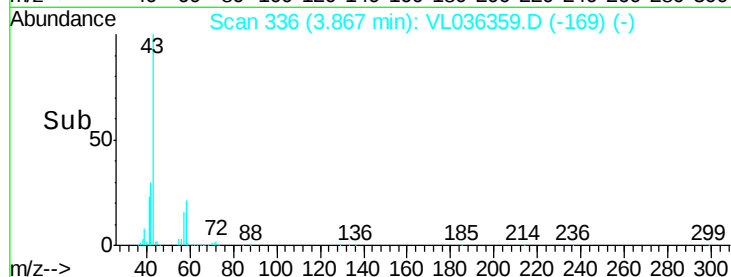
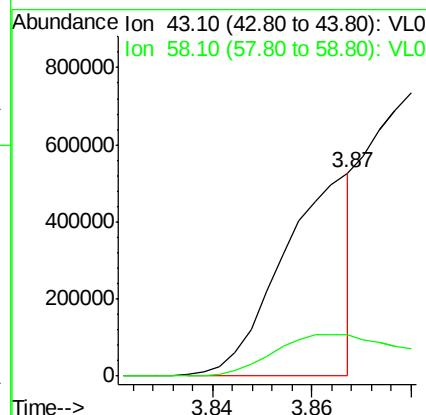
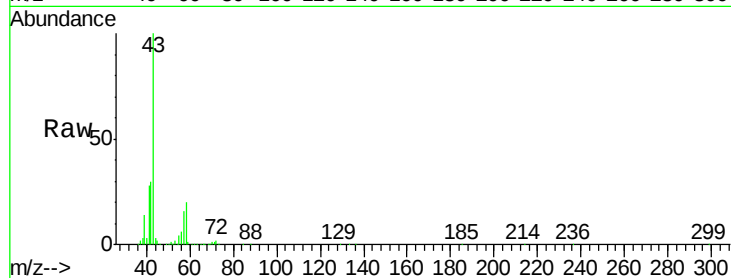
Ion Ratio Lower Upper

43 100

58 51.6 20.3 30.5#

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 2.285 ppbv m

RT: 4.00 min Scan# 376

Delta R.T. 0.05 min

Lab File: VL036359.D

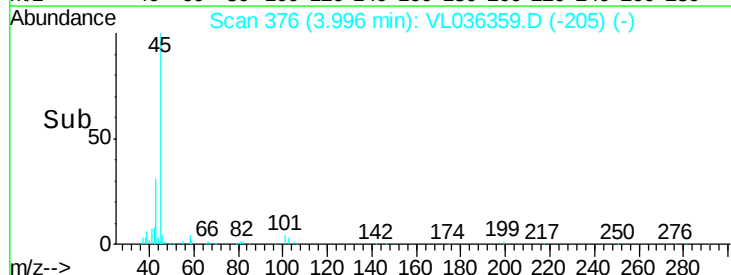
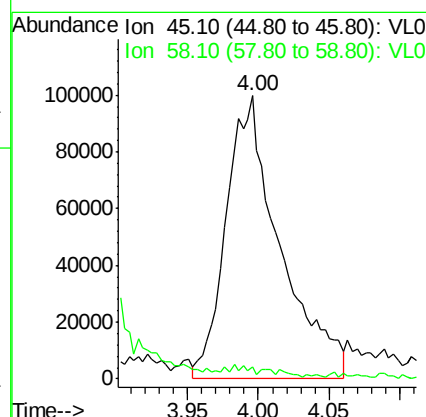
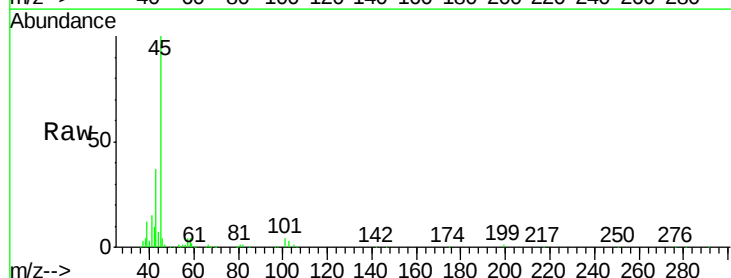
Acq: 24 Feb 2021 20:42

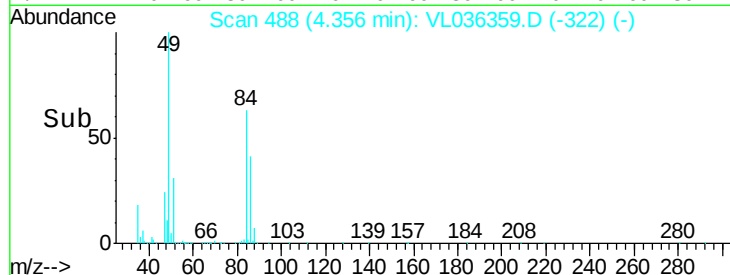
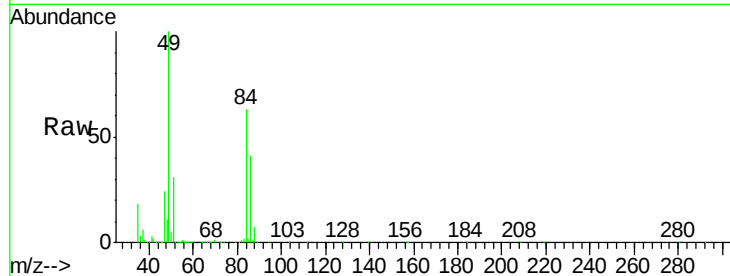
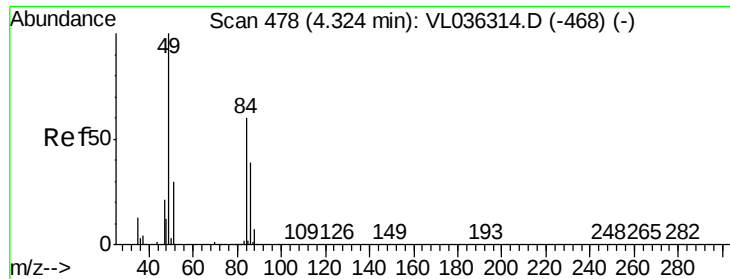
Tgt Ion: 45 Resp: 263877

Ion Ratio Lower Upper

45 100

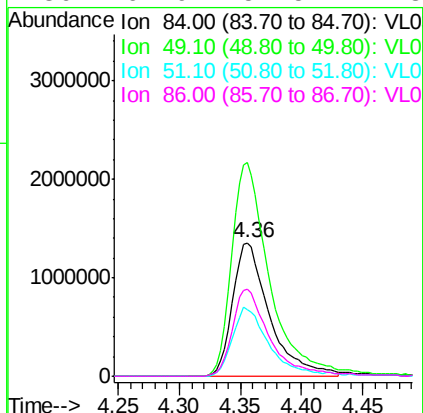
58 4.3 1.9 2.9#





#20
Methvlene Chloride
Concen: 42.371 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.03 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

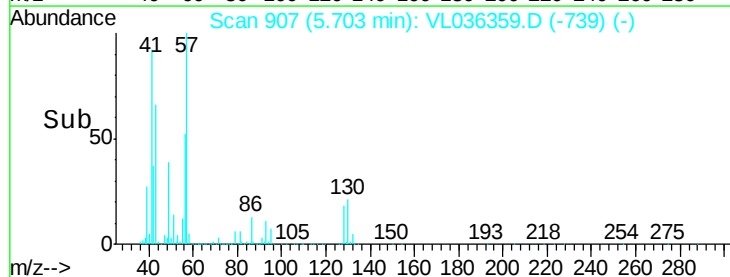
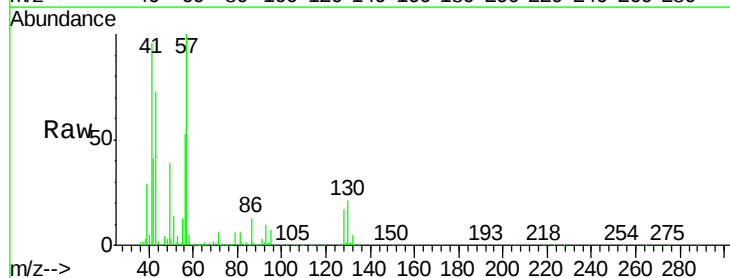
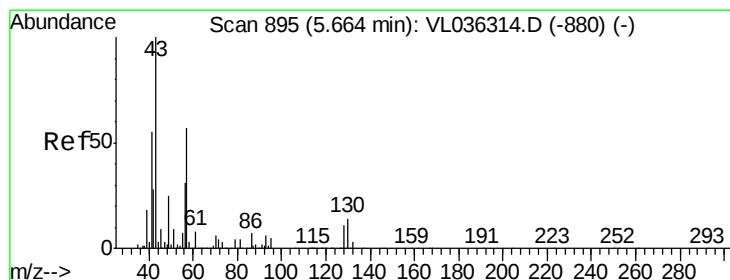
Tot Ion	Ratio	Lower	Upper
84	100		
49	159.9	133.8	200.8
51	49.8	41.4	62.0
86	64.9	51.5	77.3



Instrument :
MSVOA_L
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NS-11

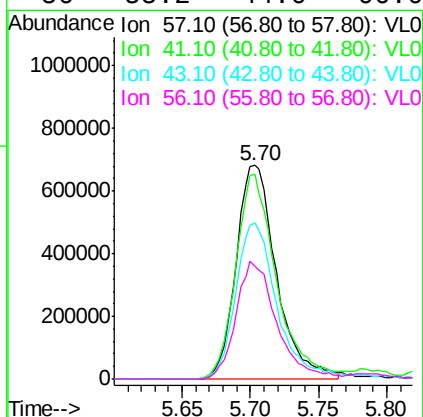
Manual Integrations
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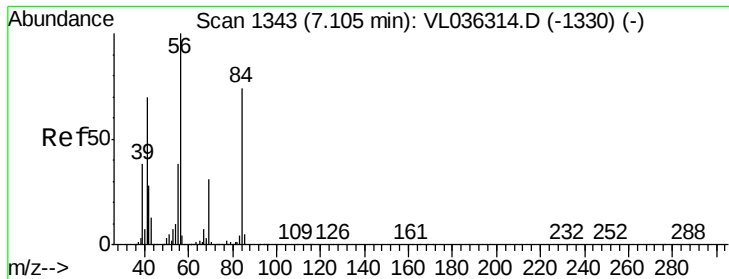
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#26
Hexane
Concen: 8.449 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.04 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Tgt Ion	Ratio	Lower	Upper
57	100		
41	101.2	81.7	122.5
43	76.5	199.1	298.7#
56	55.2	44.0	66.0





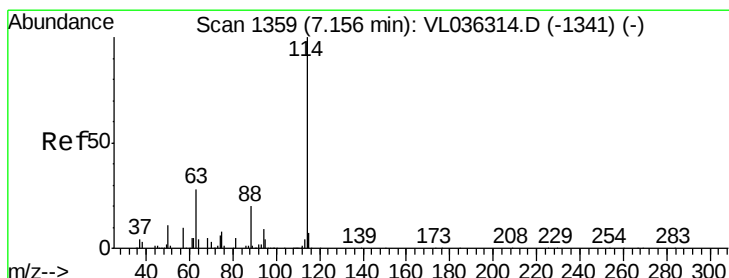
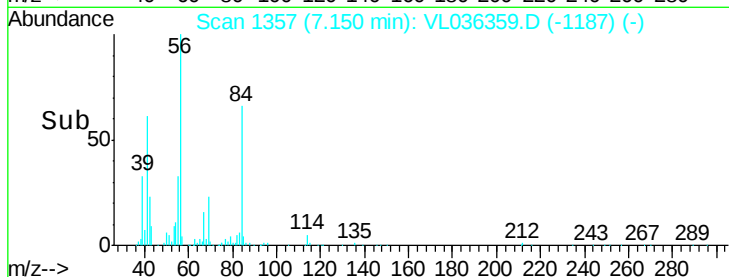
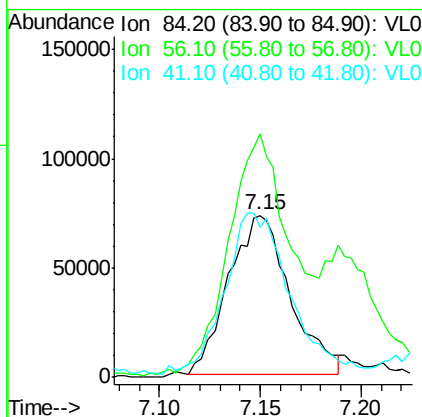
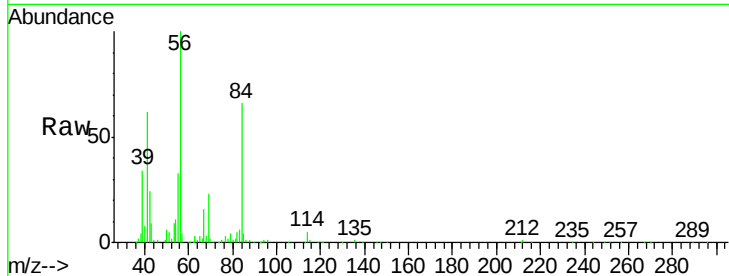
#30
Cyclohexane
Concen: 1.126 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.05 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Instrument :
MSVOA_L
ClientSampled :
NS-11

Tot Ion	Ratio	Lower	Upper
84	100		
56	218.5	120.2	180.4#
41	104.5	79.7	119.5

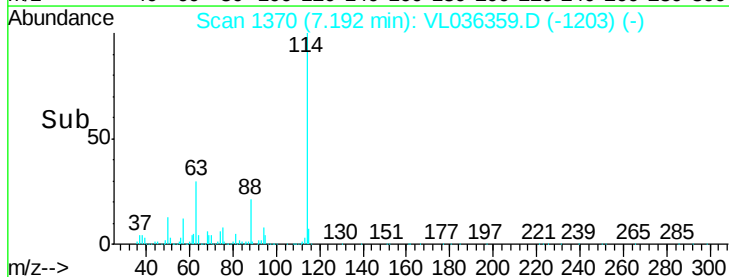
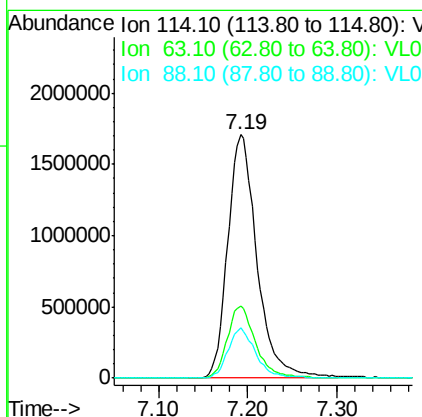
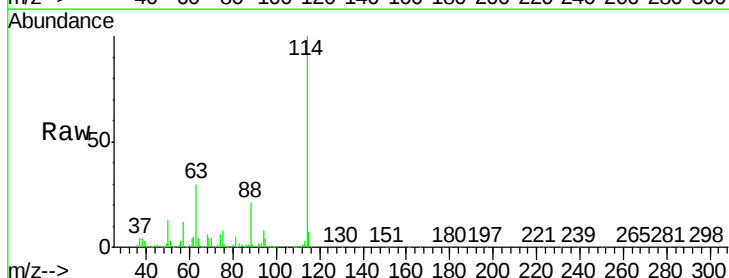
Manual Integrations
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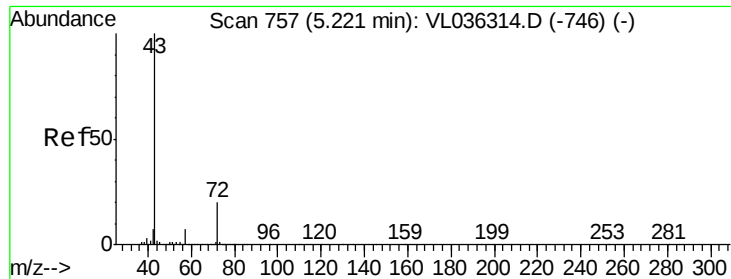
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.04 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.1	24.1	36.1
88	19.7	16.0	24.0





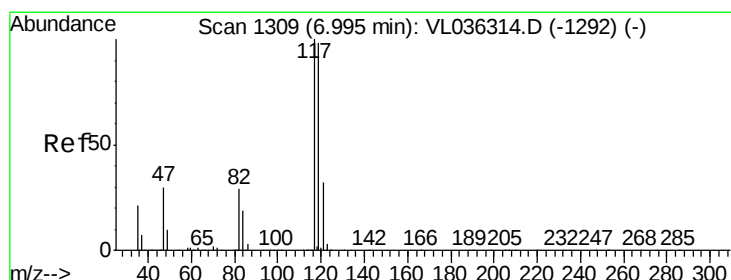
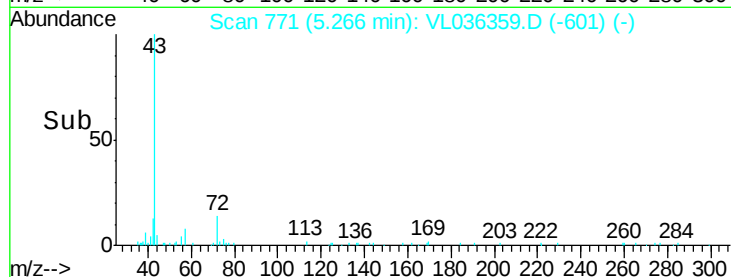
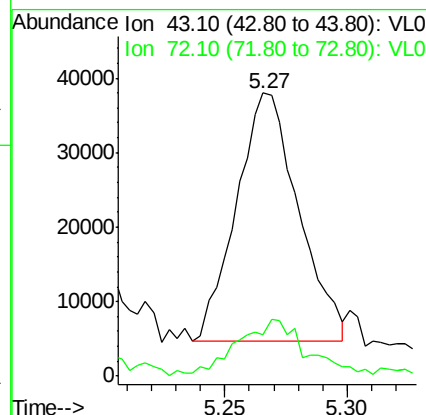
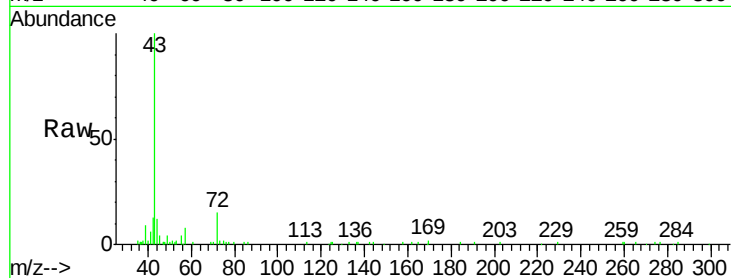
#34
2-Butanone
Concen: 0.228 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.05 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Instrument :
MSVOA_L
ClientSampleId :
NS-11

Tot Ion	43	Resp	59001
Ion Ratio	Lower	Upper	
43	100		
72	27.9	16.7	25.1#

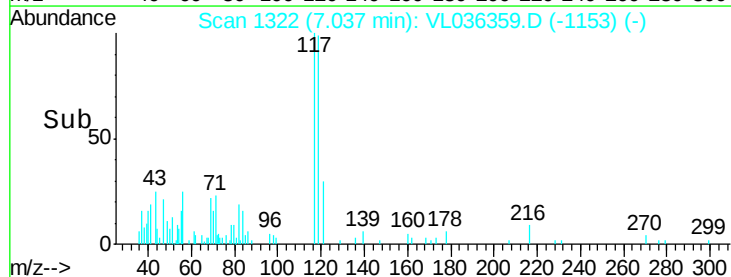
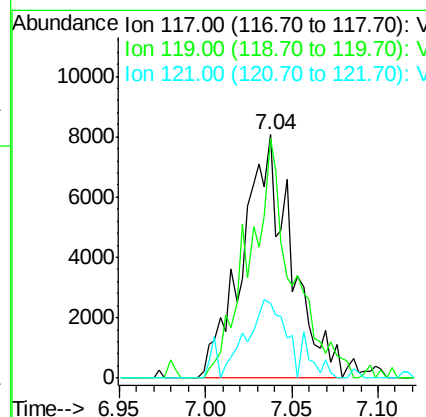
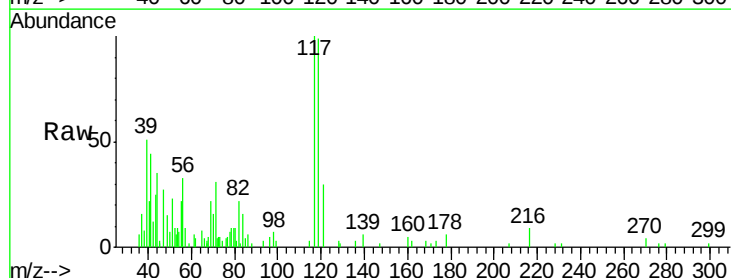
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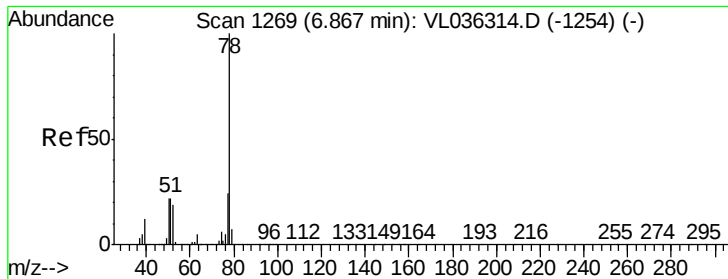
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 7.04 min Scan# 1322
Delta R.T. 0.04 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Tgt Ion	117	Resp	15762
Ion Ratio	Lower	Upper	
117	100		
119	98.5	78.1	117.1
121	30.5	25.8	38.8





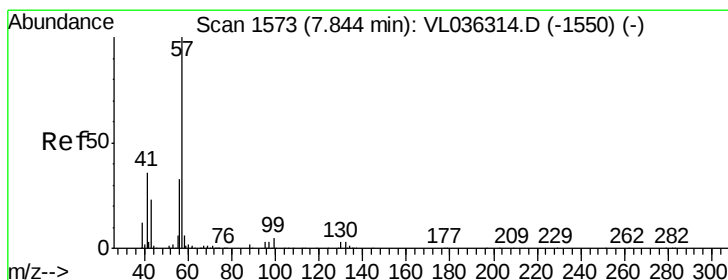
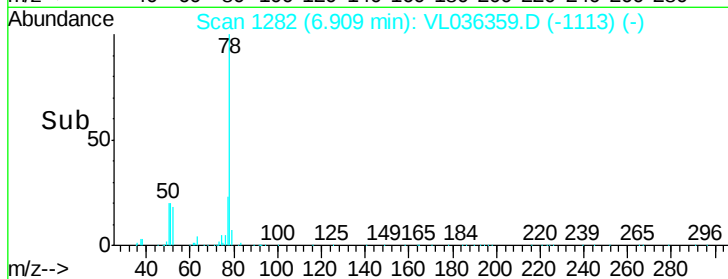
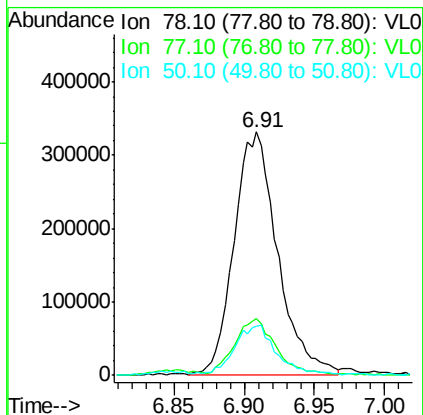
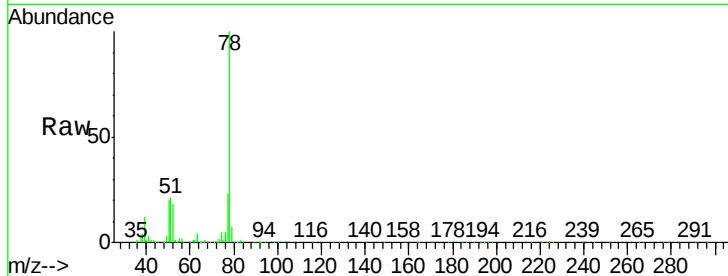
#36
Benzene
Concen: 2.149 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. 0.04 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Instrument :
MSVOA_L
ClientSampled :
NS-11

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.9	28.3
50	19.3	17.3	25.9

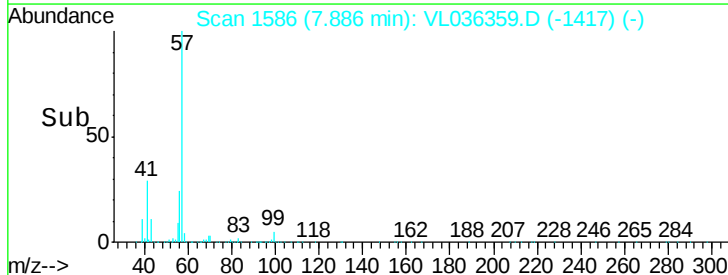
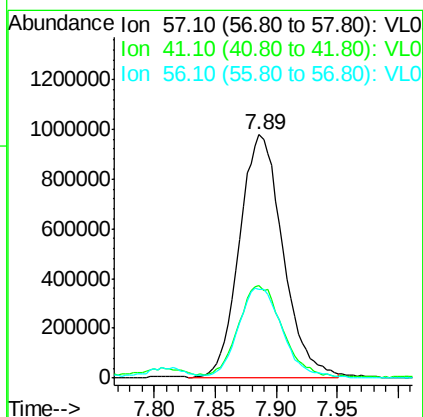
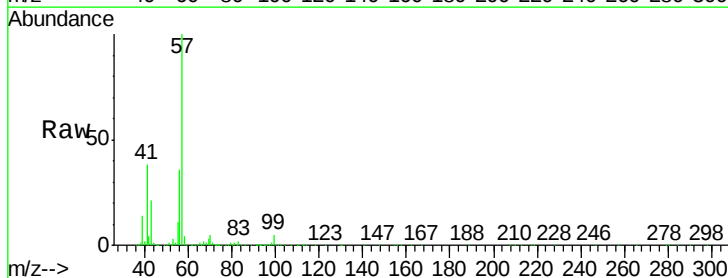
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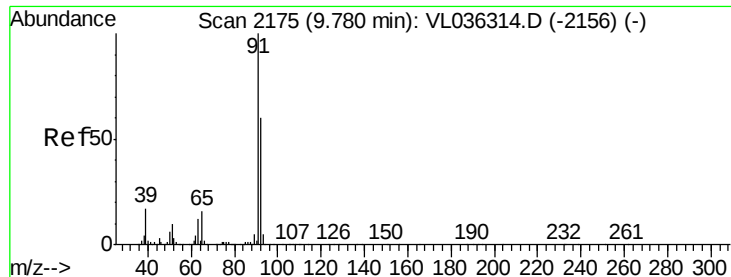
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#44
2,2,4-Trimethylpentane
Concen: 3.981 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. 0.04 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Tgt Ion	Ratio	Lower	Upper
57	100		
41	38.9	28.8	43.2
56	38.2	25.8	38.6





#53

Toluene

Concen: 9.305 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.05 min

Lab File: VL036359.D

Acq: 24 Feb 2021 20:42

Instrument :

MSVOA_L

ClientSampleId :

NS-11

Tot Ion: 91 Resp: 3328452

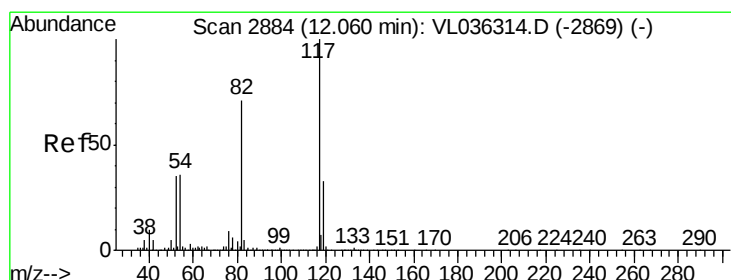
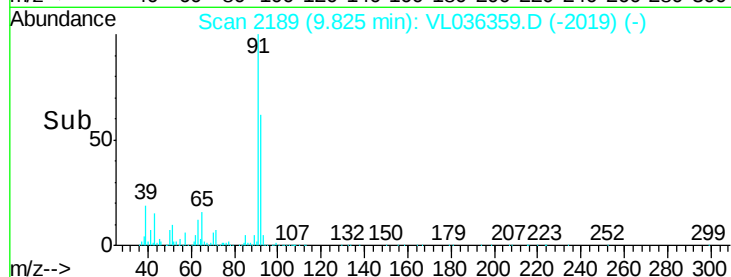
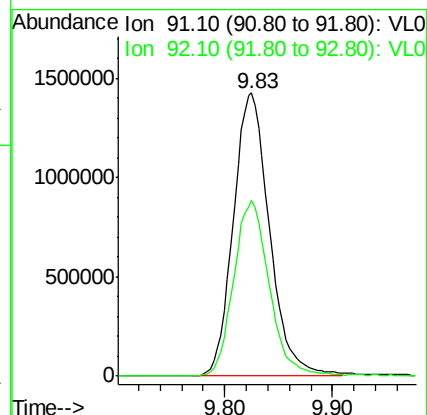
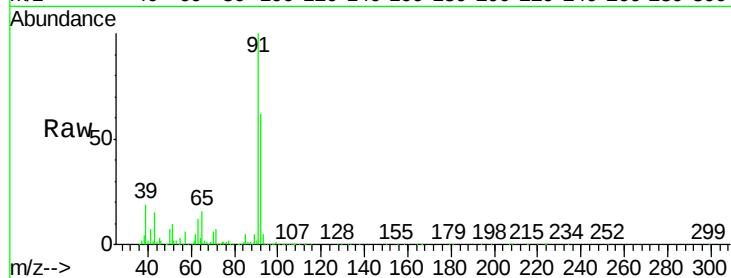
Ion Ratio Lower Upper

91 100

92 61.8 48.6 72.8

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. 0.05 min

Lab File: VL036359.D

Acq: 24 Feb 2021 20:42

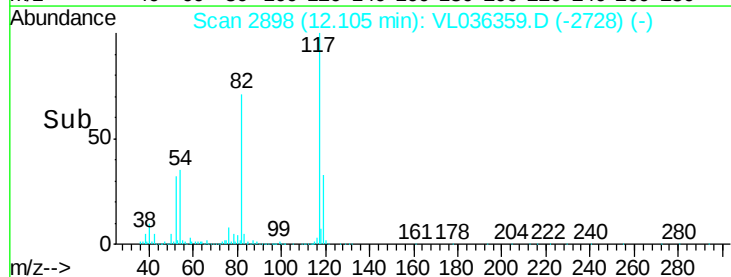
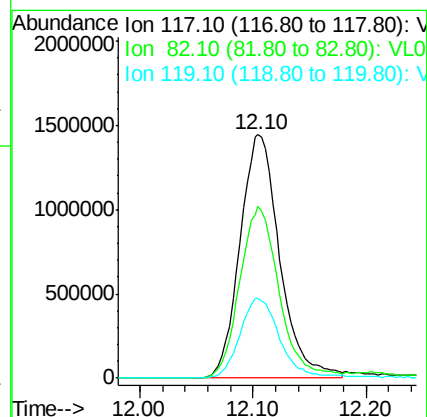
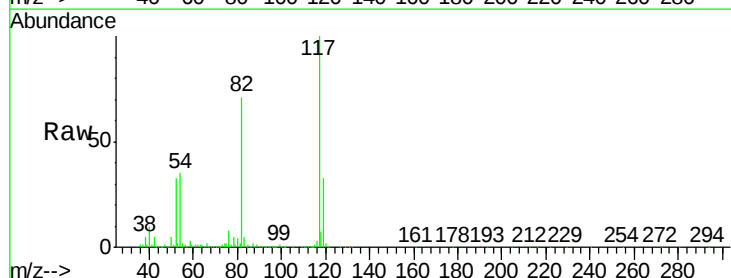
Tgt Ion: 117 Resp: 3529431

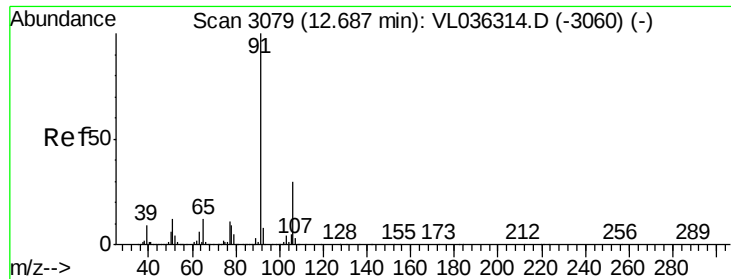
Ion Ratio Lower Upper

117 100

82 69.7 59.1 88.7

119 33.8 46.3 69.5#





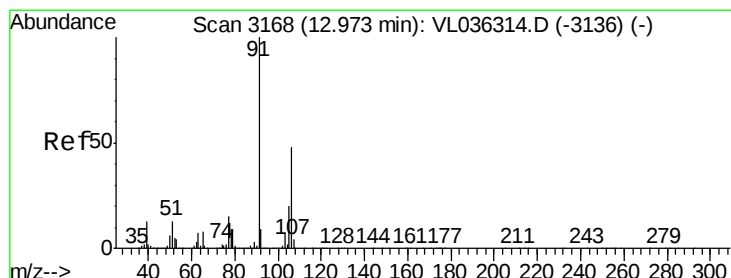
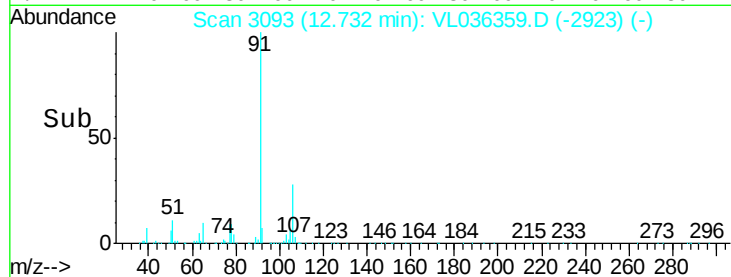
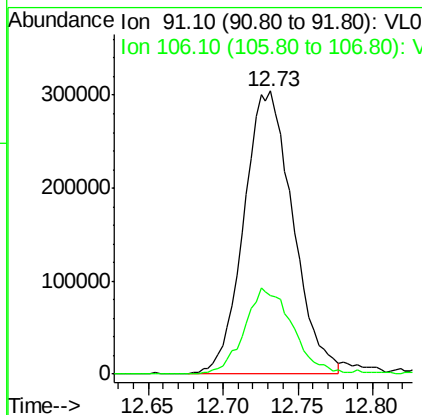
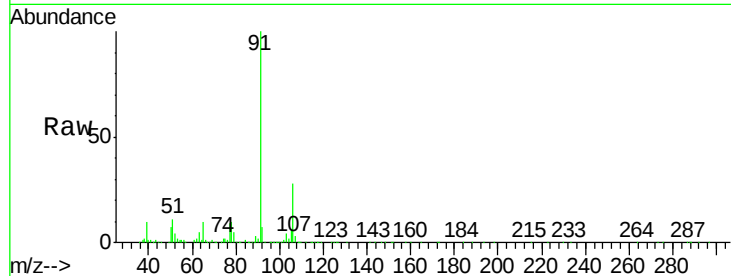
#58
Ethyl Benzene
Concen: 1.432 ppbv
RT: 12.73 min Scan# 3093
Delta R.T. 0.05 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Instrument :
MSVOA_L
ClientSampled :
NS-11

Tot Ion: 91 Resp: 692027
Ion Ratio Lower Upper
91 100
106 27.8 23.8 35.6

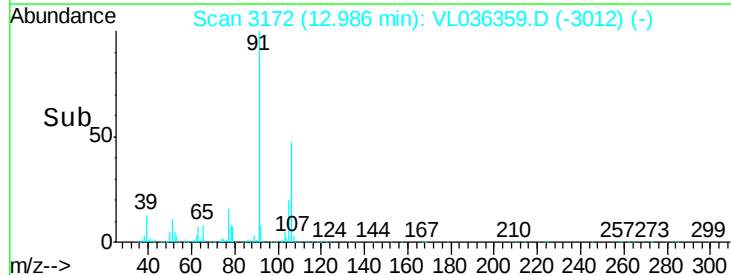
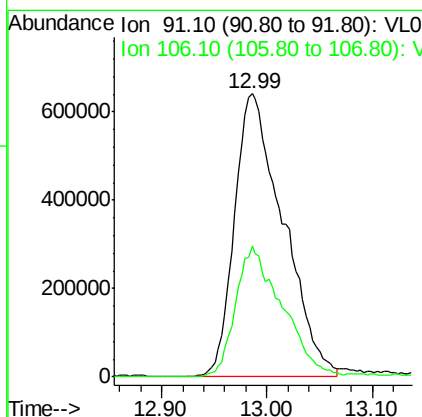
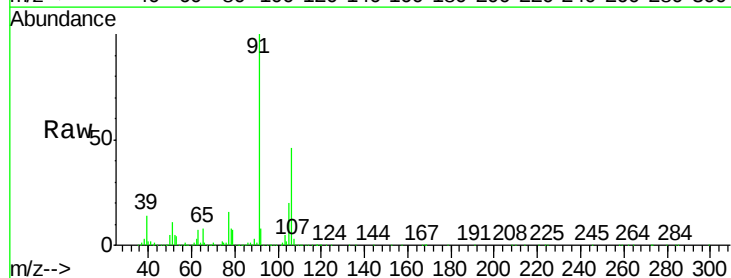
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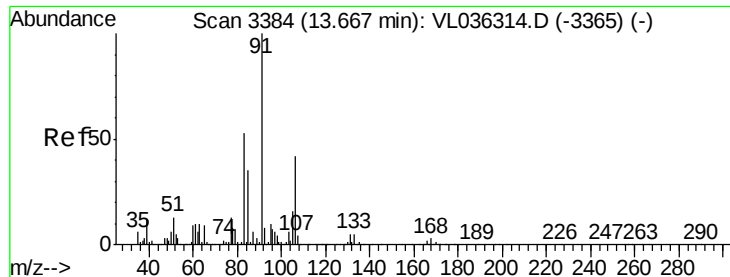
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#59
m/p-Xylene
Concen: 4.831 ppbv m
RT: 12.99 min Scan# 3172
Delta R.T. 0.01 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Tgt Ion: 91 Resp: 2050791
Ion Ratio Lower Upper
91 100
106 45.4 34.2 51.2





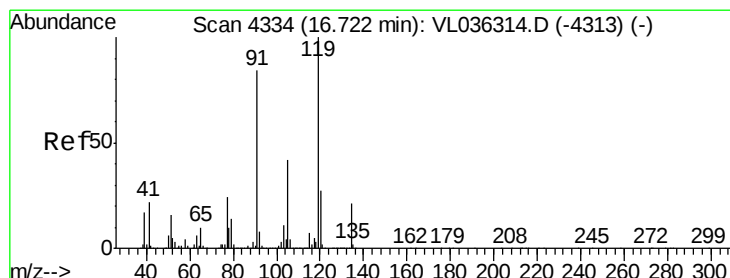
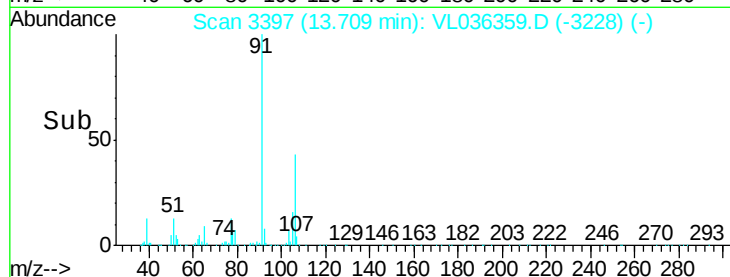
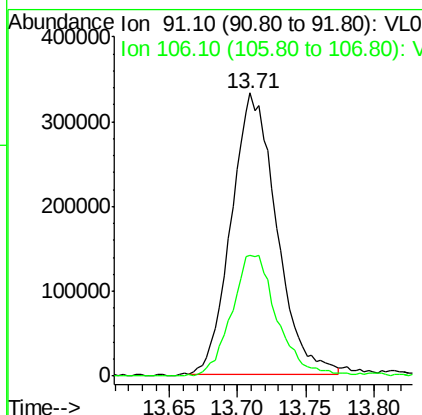
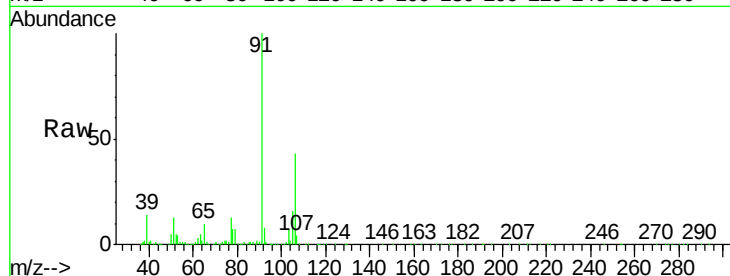
#60
o-Xylene
Concen: 1.878 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. 0.04 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Instrument :
MSVOA_L
ClientSampled :
NS-11

Tot Ion	Ratio	Lower	Upper
91	100		
106	43.8	22.0	66.0

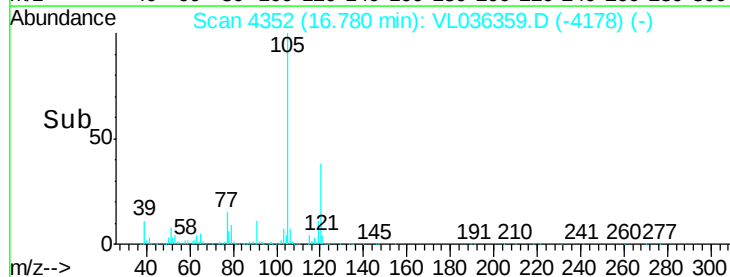
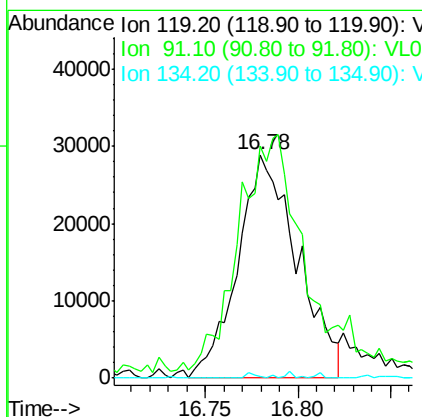
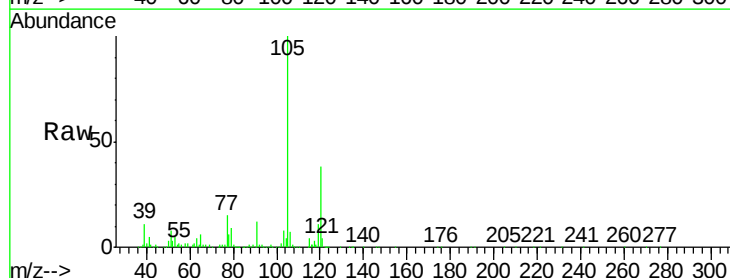
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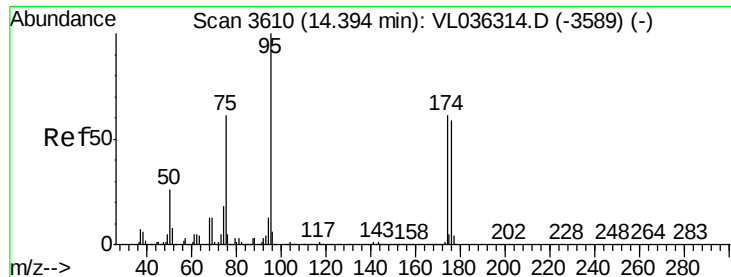
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#65
tert-Butylbenzene
Concen: 0.125 ppbv
RT: 16.78 min Scan# 4352
Delta R.T. 0.06 min
Lab File: VL036359.D
Acq: 24 Feb 2021 20:42

Tgt Ion	Ratio	Lower	Upper
119	100		
91	130.8	70.5	105.7#
134	0.8	15.8	23.8#





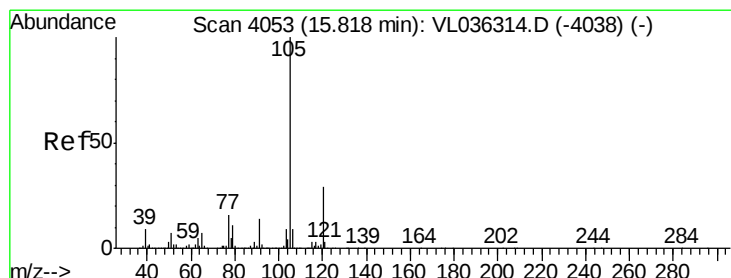
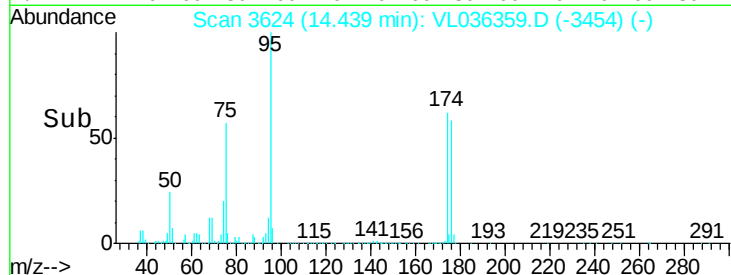
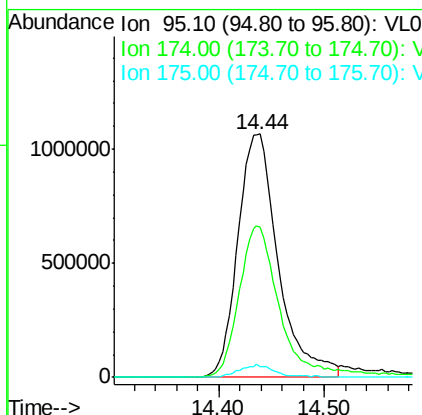
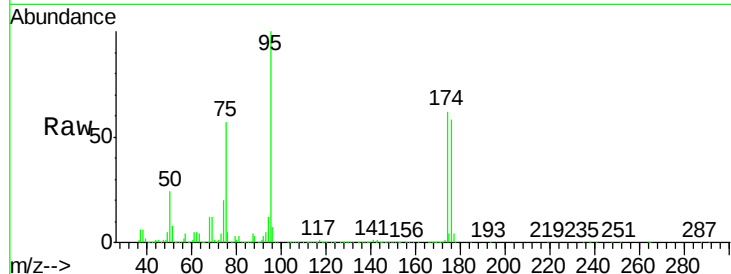
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.792 ppbv
 RT: 14.44 min Scan# 3624
 Delta R.T. 0.05 min
 Lab File: VL036359.D
 Acq: 24 Feb 2021 20:42

Instrument :
 MSVOA_L
 ClientSampled :
 NS-11

Tot Ion: 95 Resp: 2843640
 Ion Ratio Lower Upper
 95 100
 174 64.4 49.8 74.6
 175 4.8 3.7 5.5

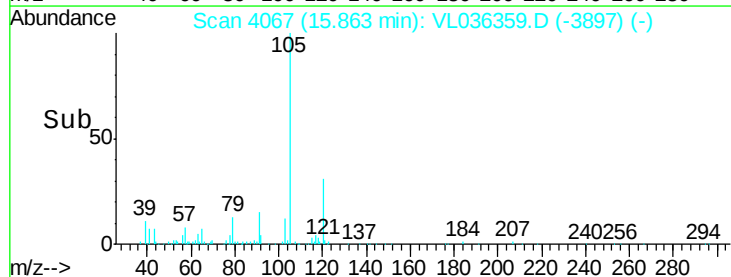
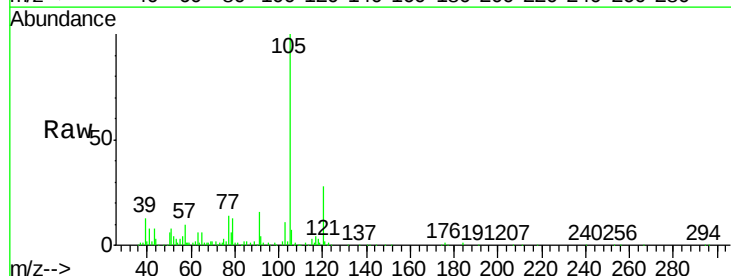
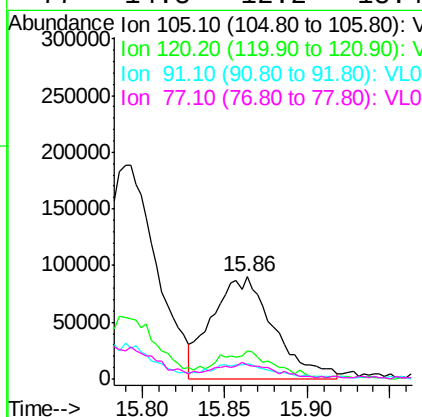
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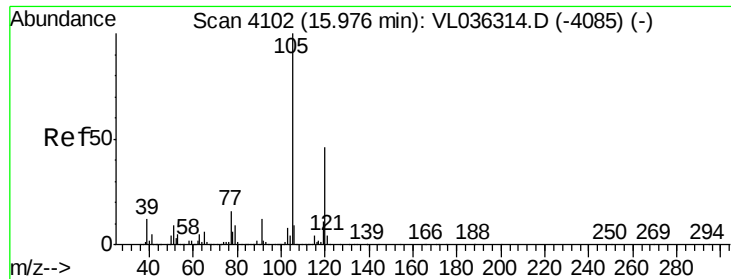
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#72
 4-Ethyltoluene
 Concen: 0.520 ppbv m
 RT: 15.86 min Scan# 4067
 Delta R.T. 0.05 min
 Lab File: VL036359.D
 Acq: 24 Feb 2021 20:42

Tgt Ion: 105 Resp: 234986
 Ion Ratio Lower Upper
 105 100
 120 25.5 23.2 34.8
 91 15.1 11.0 16.4
 77 14.8 12.2 18.4





#73

1,3,5-Trimethylbenzene

Concen: 0.439 ppbv m

RT: 16.02 min Scan# 4116

Delta R.T. 0.05 min

Lab File: VL036359.D

Acq: 24 Feb 2021 20:42

Instrument :

MSVOA_L

ClientSampleId :

NS-11

Tot Ion:105 Resp: 192292

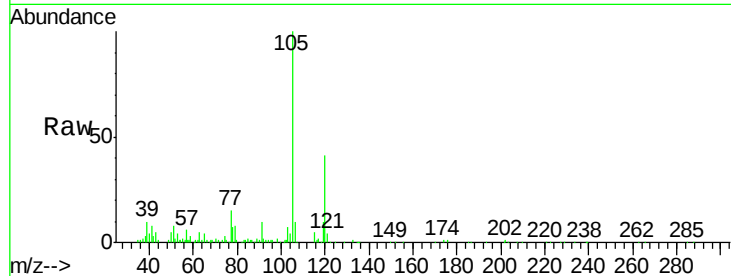
Ion Ratio Lower Upper

105 100

120 41.3 36.9 55.3

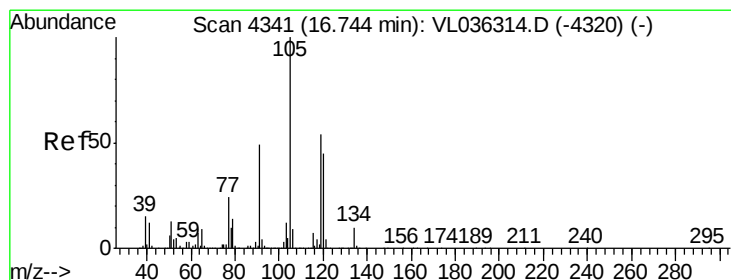
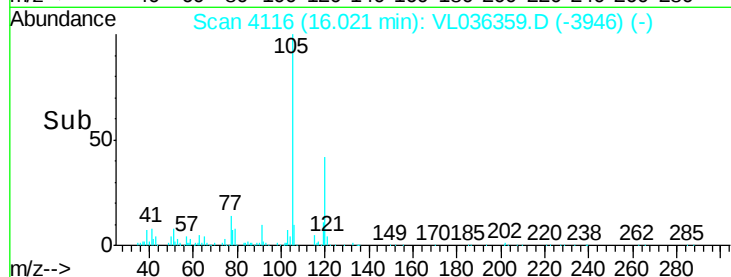
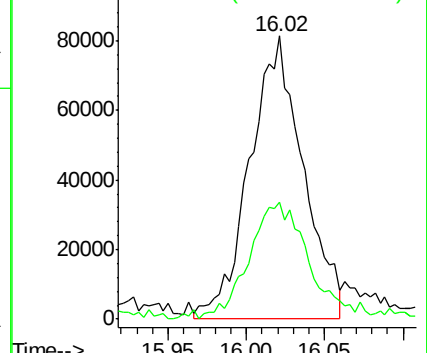
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.357 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. 0.04 min

Lab File: VL036359.D

Acq: 24 Feb 2021 20:42

Tgt Ion:105 Resp: 606458

Ion Ratio Lower Upper

105 100

120 37.8 35.8 53.6

91 11.4 39.8 59.6#

77 14.8 19.1 28.7#

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

