

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022521\
 Data File : VL036382.D
 Acq On : 25 Feb 2021 15:39
 Operator : SY/AP
 Sample : M1463-13
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-10

Manual Integrations
 APPROVED

MMDadoda
 3/1/2021 10:02:33 AM

Quant Time: Feb 28 18:25:29 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	5.66	49	1651331	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.17	114	3662554	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.08	117	3363176	10.00	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2678199	9.68	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	3.04	85	35547	0.144	ppbv	98
3) Chlorodifluoromethane	2.98	51	67880m	0.331	ppbv	
4) Chloromethane	3.13	50	136447	1.377	ppbv	92
10) Heptane	8.11	43	477333	2.117	ppbv	99
11) Trichlorofluoromethane	3.94	101	55703m	0.231	ppbv	
13) Ethanol	3.62	45	7316800	509.221	ppbv	89
15) Acetone	3.84	43	3337199m	16.533	ppbv	
17) tert-Butyl alcohol	4.31	59	93479m	0.597	ppbv	
19) Isopropyl Alcohol	3.98	45	6805368	60.853	ppbv #	97
20) Methylene Chloride	4.34	84	116353	1.787	ppbv	92
26) Hexane	5.68	57	838242	5.235	ppbv #	45
27) Carbon Disulfide	4.54	76	108690	0.739	ppbv #	92
30) Cyclohexane	7.12	84	84229	0.633	ppbv	86
31) cis-1,2-Dichloroethene	5.54	61	16927m	0.107	ppbv	
34) 2-Butanone	5.24	43	211474	0.869	ppbv	98
35) Carbon Tetrachloride	7.00	117	20149m	0.082	ppbv	
36) Benzene	6.88	78	216610	0.696	ppbv #	91
38) Trichloroethene	7.83	130	6146m	0.055	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	2476199	4.377	ppbv #	90
52) Tetrachloroethene	11.22	164	16402m	0.144	ppbv	
53) Toluene	9.80	91	3584915	10.638	ppbv	98
58) Ethyl Benzene	12.70	91	936146	2.033	ppbv	97
59) m/p-Xylene	12.96	91	2487327	6.149	ppbv	96
60) o-Xylene	13.68	91	923157	2.387	ppbv	99
62) Isopropylbenzene	14.66	105	95005m	0.164	ppbv	
64) n-propylbenzene	15.55	120	74645m	0.523	ppbv	
70) n-Butylbenzene	18.54	91	88451m	0.149	ppbv	
72) 4-Ethyltoluene	15.83	105	278314	0.647	ppbv	96
73) 1,3,5-Trimethylbenzene	15.99	105	198076m	0.475	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	875368	2.055	ppbv #	73

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

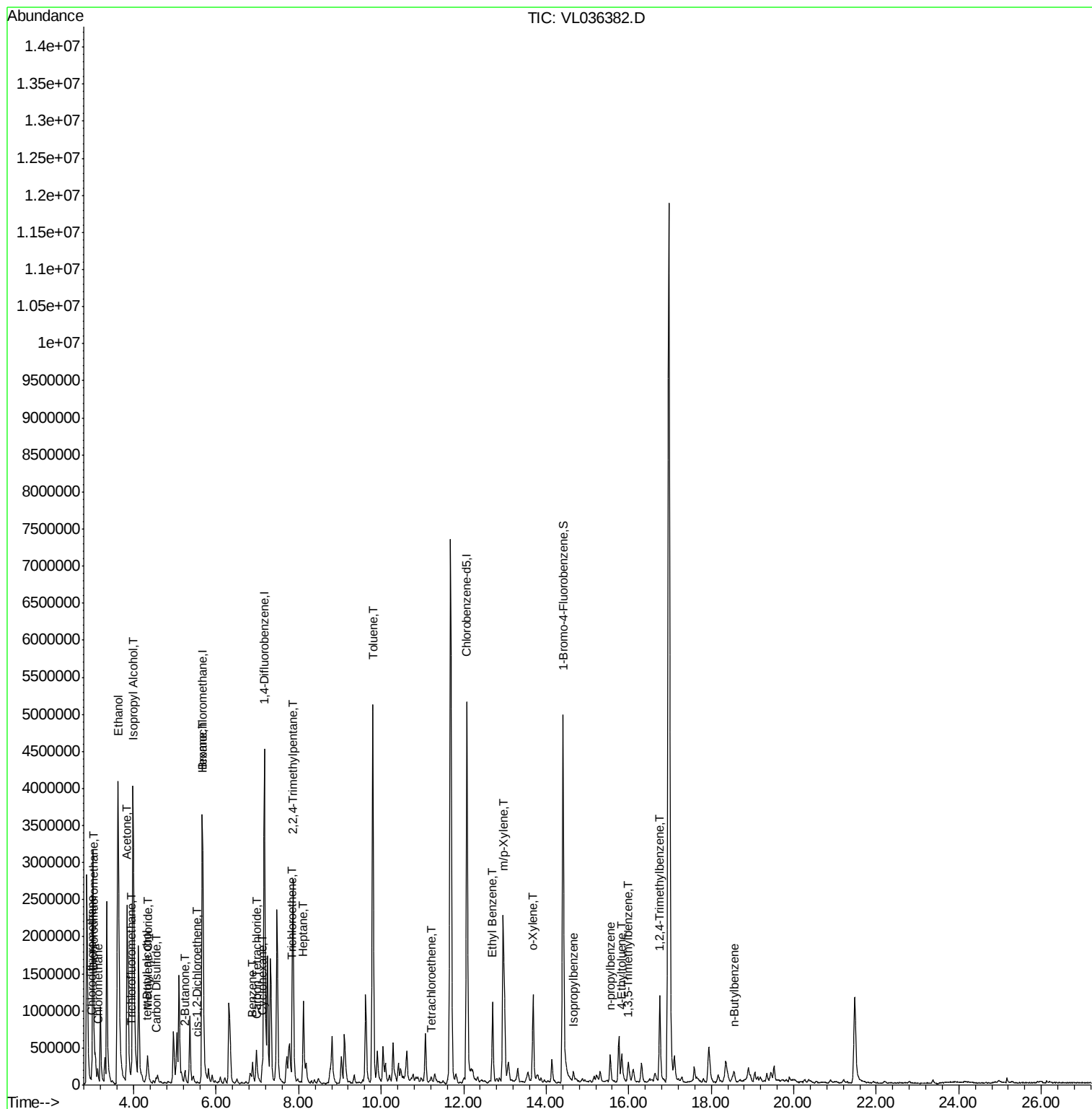
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022521\
Data File : VL036382.D
Acq On : 25 Feb 2021 15:39
Operator : SY/AP
Sample : M1463-13
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

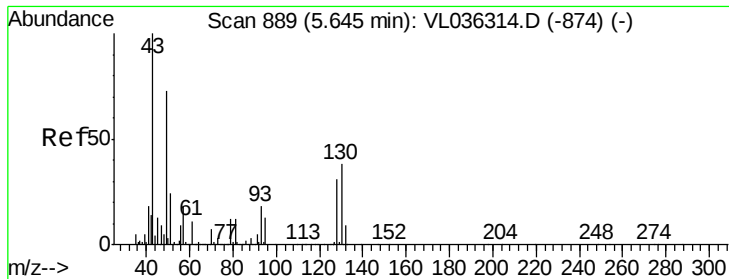
Instrument :
MSVOA_L
ClientSampleId :
NS-10

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3/1/2021 10:02:33 AM

Quant Time: Feb 28 18:25:29 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

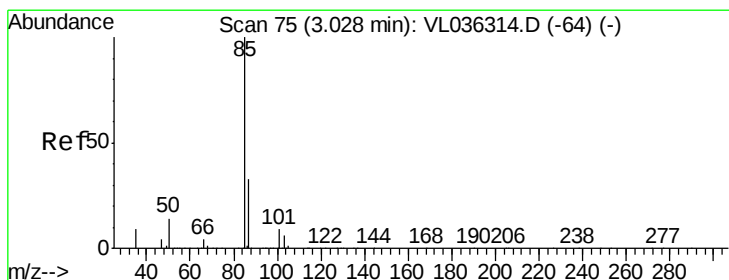
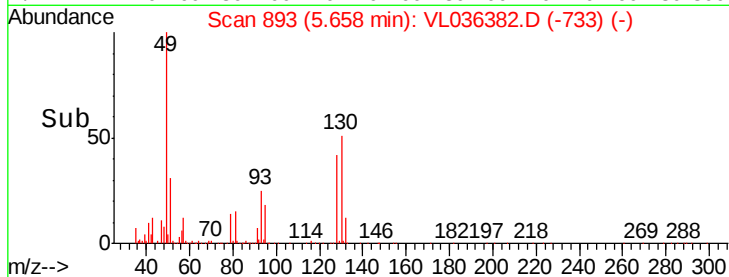
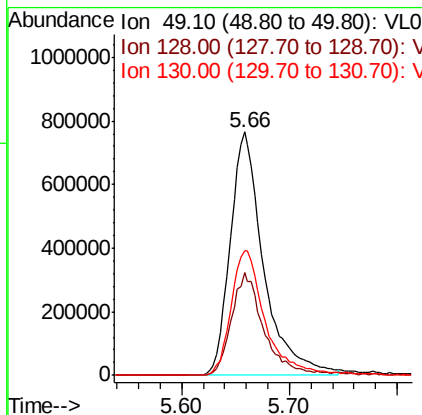
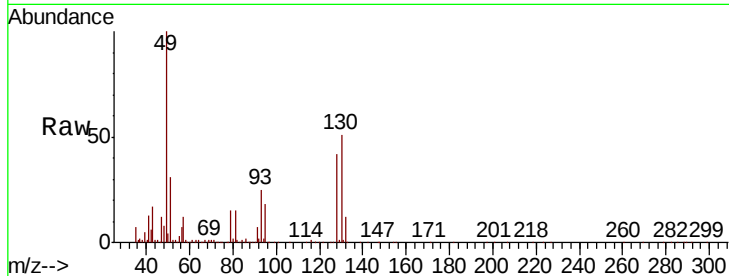
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. 0.01 min
 Lab File: VL036382.D
 Acq: 25 Feb 2021 15:39

Instrument :
 MSVOA_L
 ClientSampled :
 NS-10

Tot Ion	Ratio	Lower	Upper
49	100		
128	42.1	20.8	62.5
130	53.0	26.7	80.1

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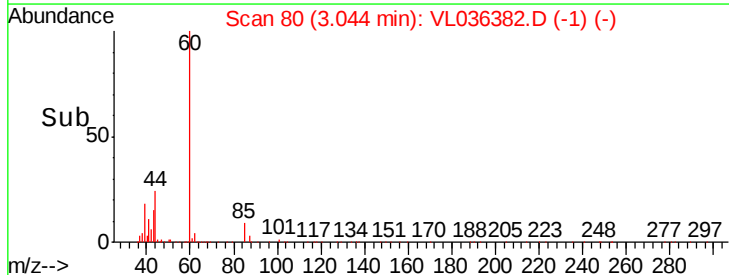
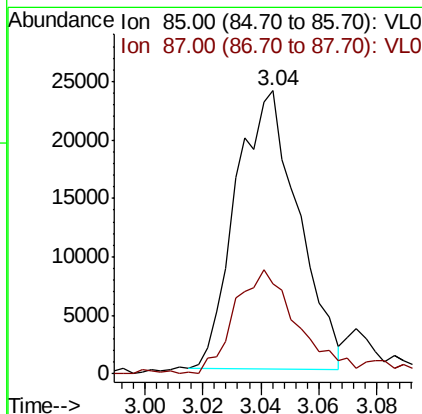
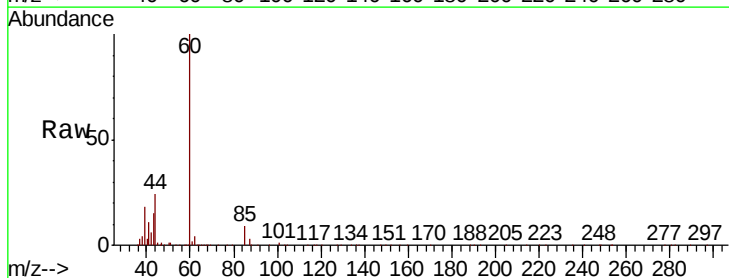
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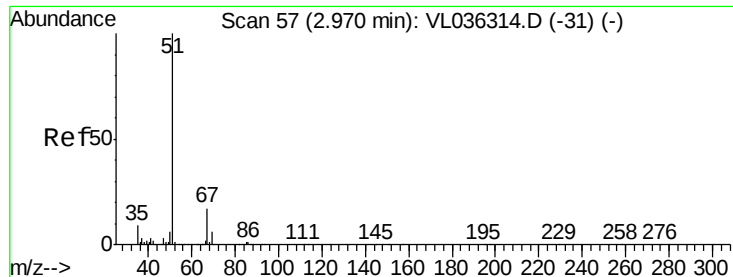


#2

Dichlorodifluoromethane
 Concen: 0.144 ppbv
 RT: 3.04 min Scan# 80
 Delta R.T. 0.02 min
 Lab File: VL036382.D
 Acq: 25 Feb 2021 15:39

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.5	39.7





#3

Chlorodifluoromethane

Concen: 0.331 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

Instrument :

MSVOA_L

ClientSampled :

NS-10

Tot Ion: 51 Resp: 67880

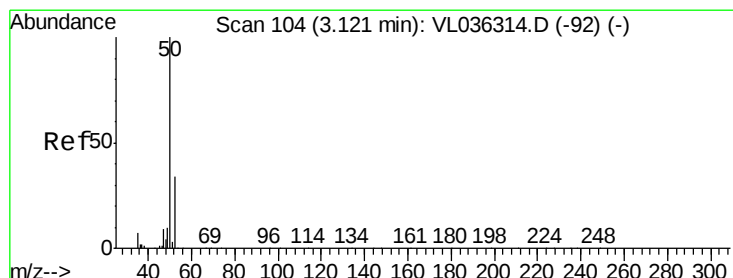
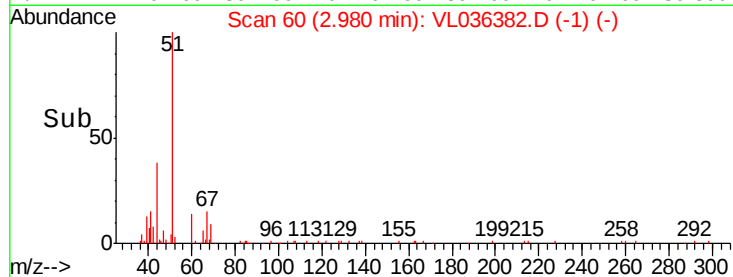
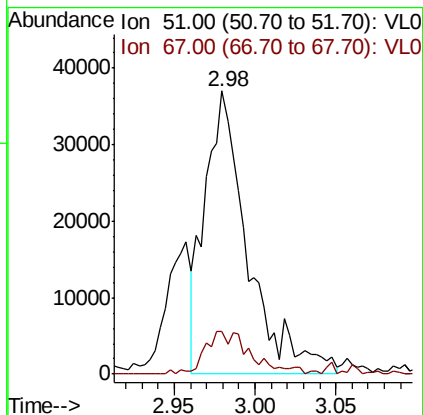
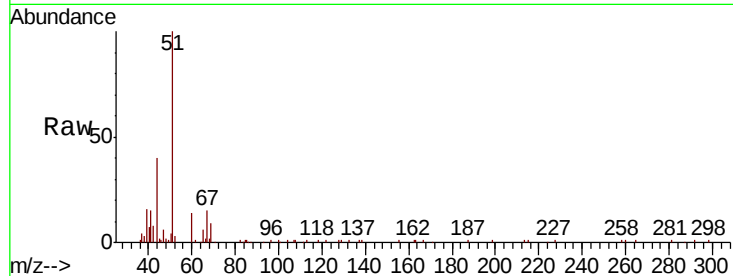
Ion Ratio Lower Upper

51 100

67 15.9 14.7 22.1

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#4

Chloromethane

Concen: 1.377 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.01 min

Lab File: VL036382.D

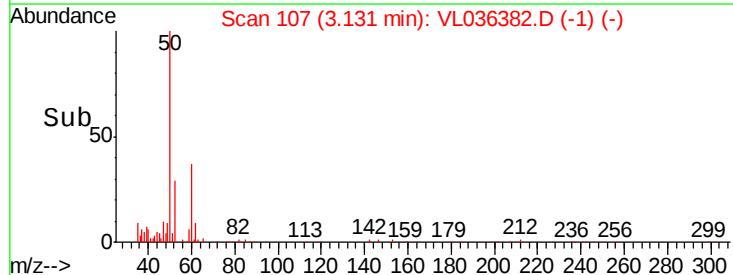
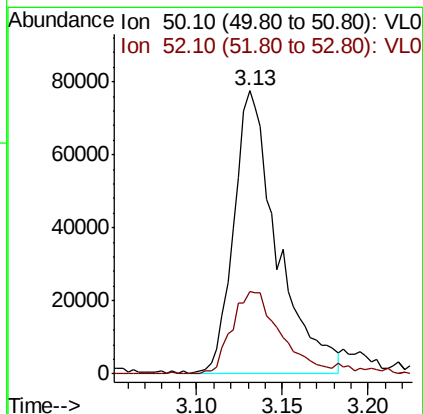
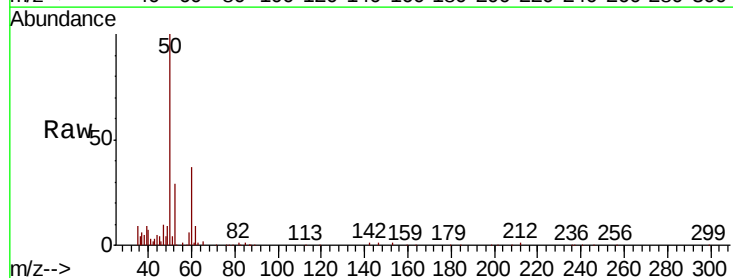
Acq: 25 Feb 2021 15:39

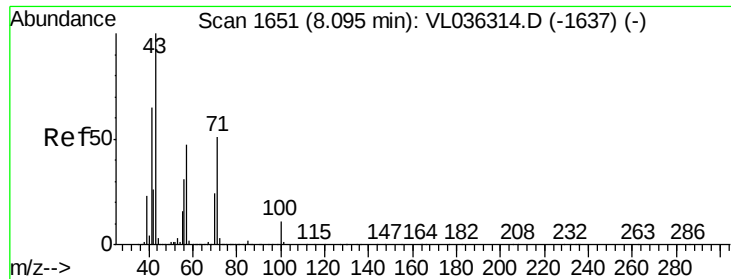
Tgt Ion: 50 Resp: 136447

Ion Ratio Lower Upper

50 100

52 29.0 27.0 40.4





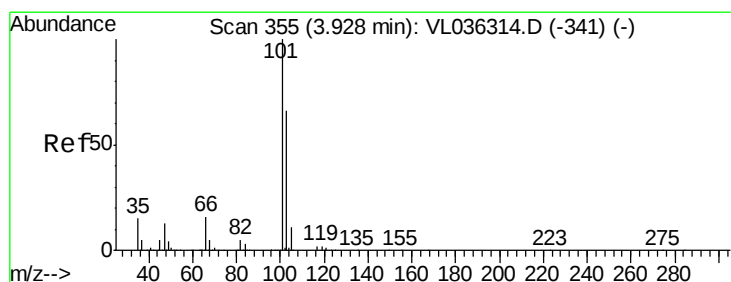
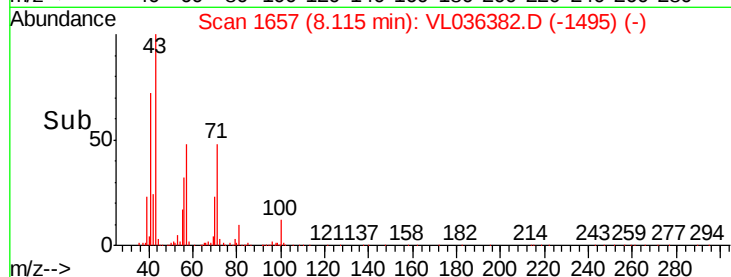
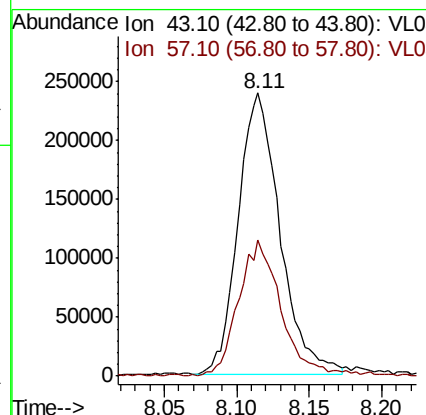
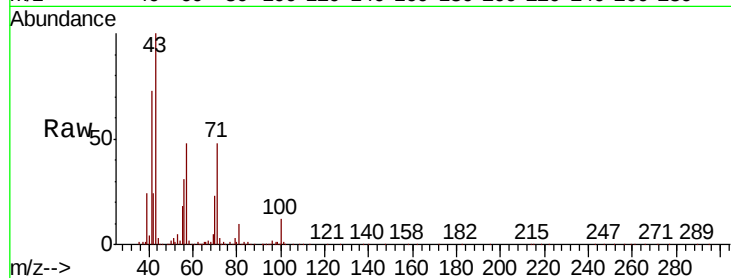
#10
Heptane
Concen: 2.117 ppbv
RT: 8.11 min Scan# 1657
Delta R.T. 0.02 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :
NS-10

Tot Ion: 43 Resp: 477333
Ion Ratio Lower Upper
43 100
57 49.9 39.4 59.2

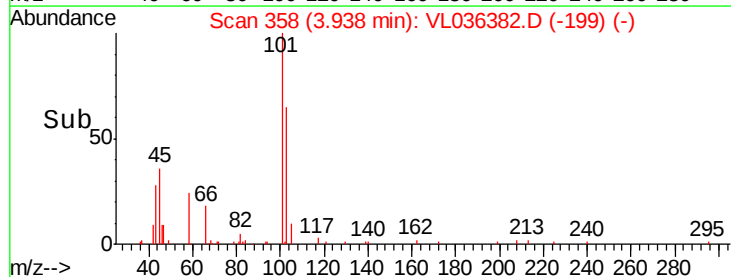
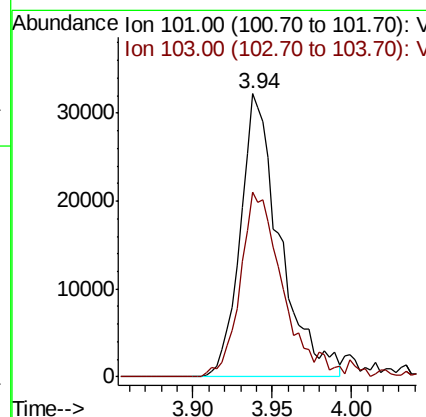
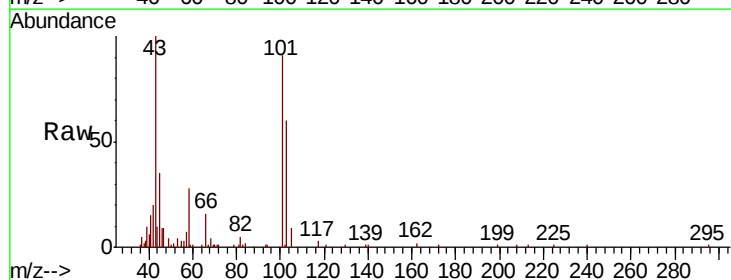
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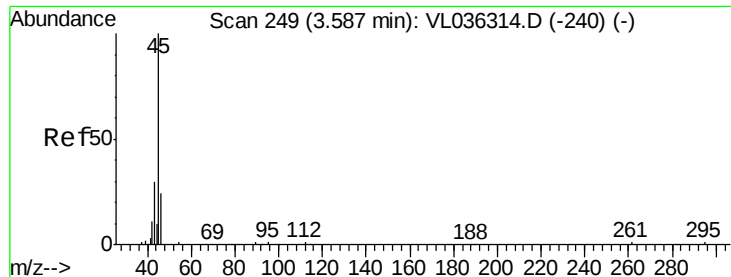
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#11
Trichlorofluoromethane
Concen: 0.231 ppbv m
RT: 3.94 min Scan# 358
Delta R.T. 0.01 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Tgt Ion: 101 Resp: 55703
Ion Ratio Lower Upper
101 100
103 65.2 52.9 79.3





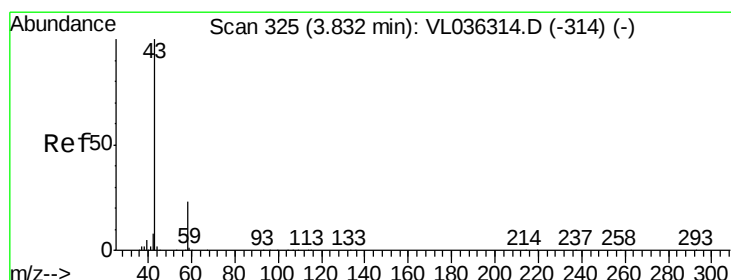
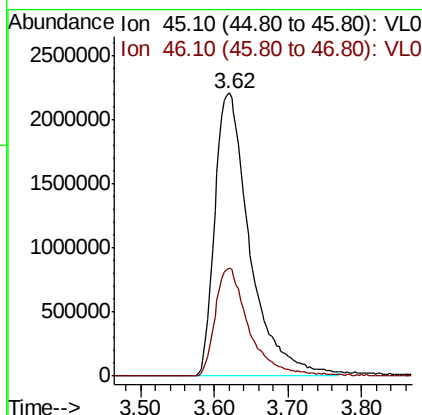
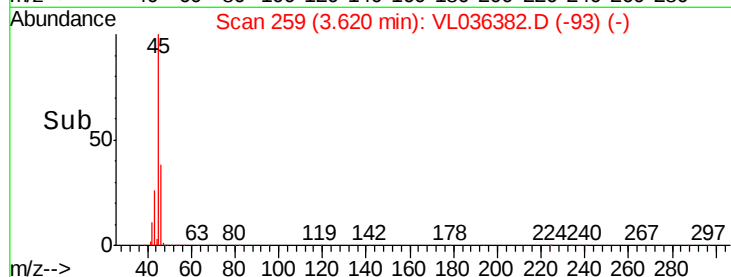
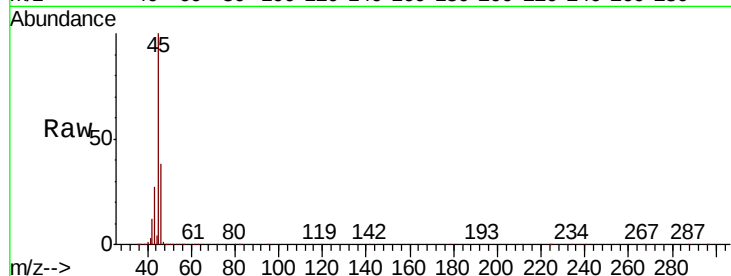
#13
Ethanol
Concen: 509.221 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.03 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :
NS-10

Tot Ion: 45 Resp: 7316800
Ion Ratio Lower Upper
45 100
46 37.0 17.7 70.7

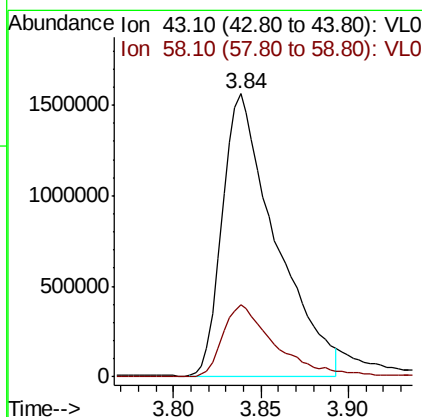
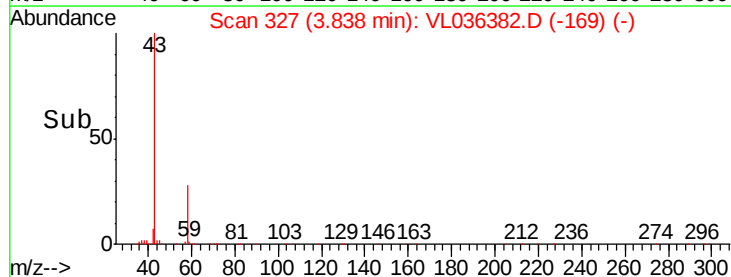
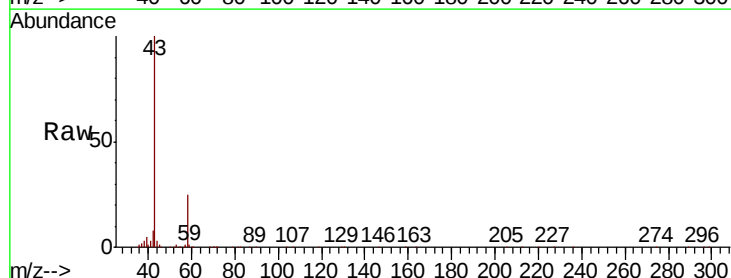
Manual Integrations
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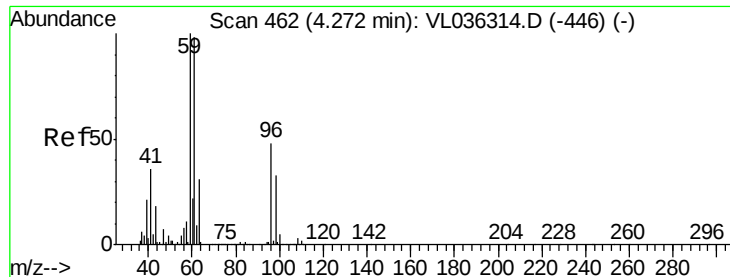
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#15
Acetone
Concen: 16.533 ppbv m
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Tgt Ion: 43 Resp: 3337199
Ion Ratio Lower Upper
43 100
58 25.5 20.3 30.5





#17

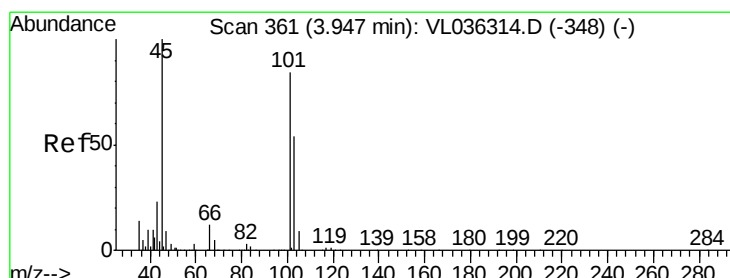
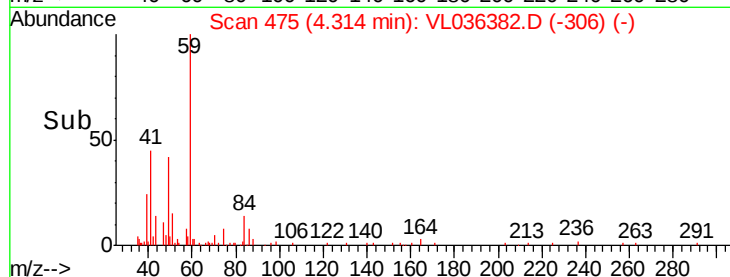
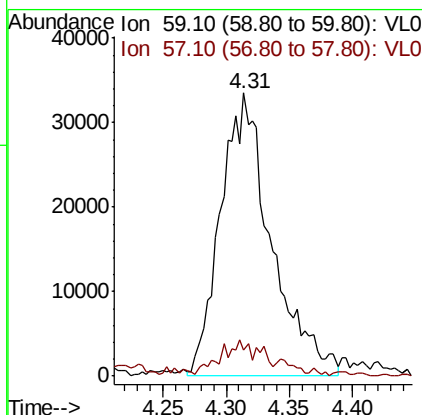
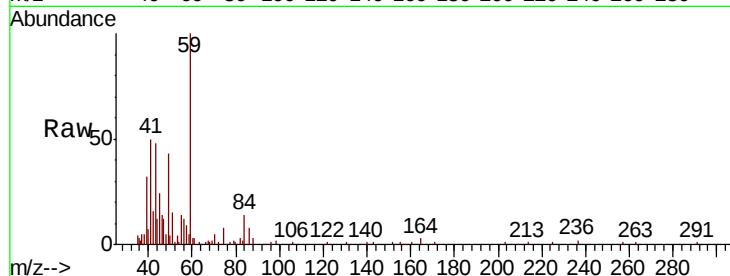
tert-Butyl alcohol
Concen: 0.597 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.04 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Instrument :
MSVOA_L
ClientSampled :
NS-10

Tot Ion	59	57	Ratio	Lower	Upper
93479	100	0.0		9.0	13.4#

Manual Integrations
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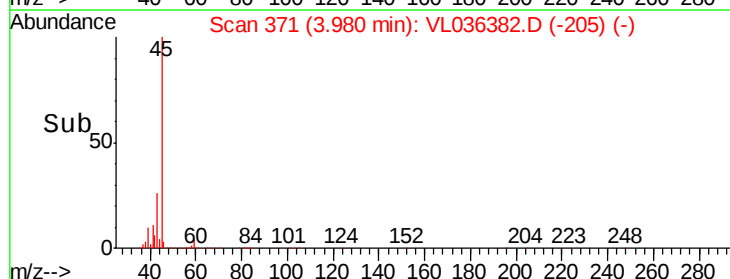
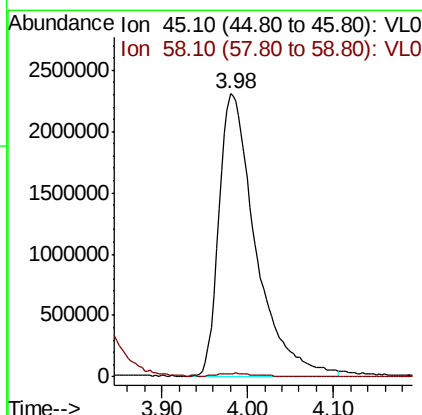
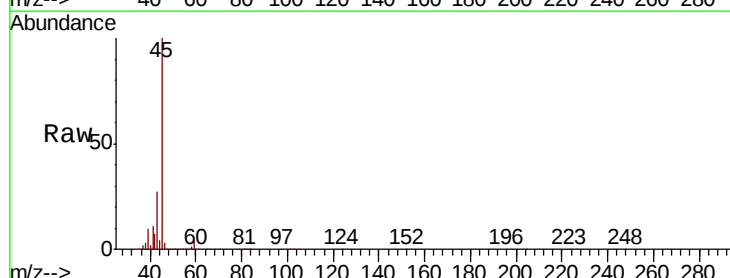
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3/1/2021 10:02:33 AM

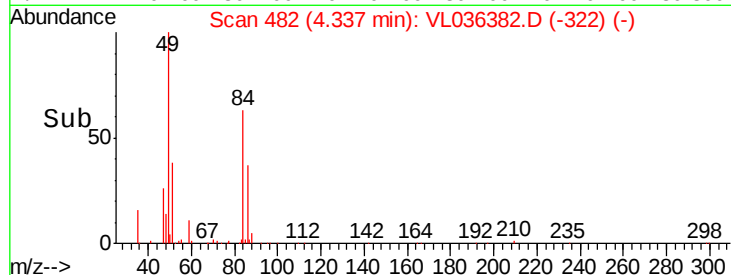
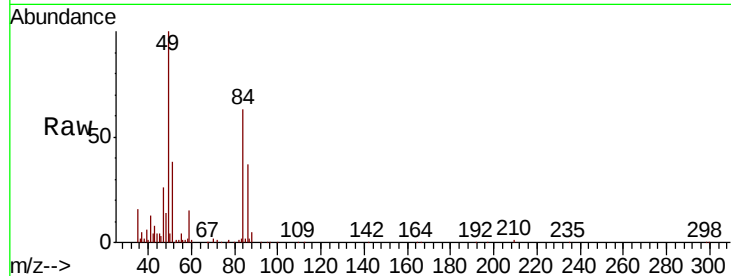
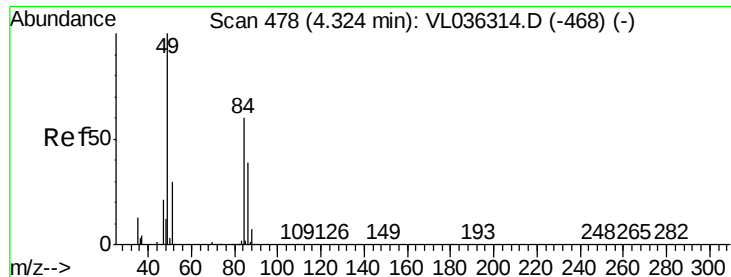


#19

Isopropyl Alcohol
Concen: 60.853 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.03 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Tgt Ion	45	58	Ratio	Lower	Upper
6805368	100	1.4		1.9	2.9#





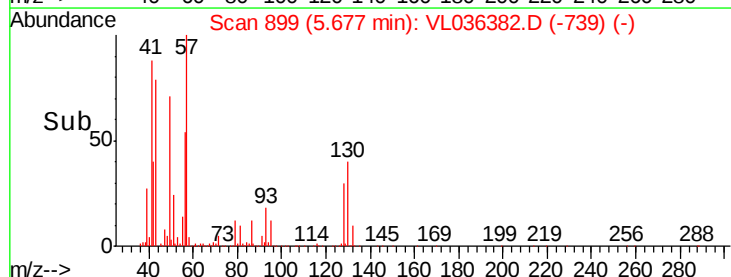
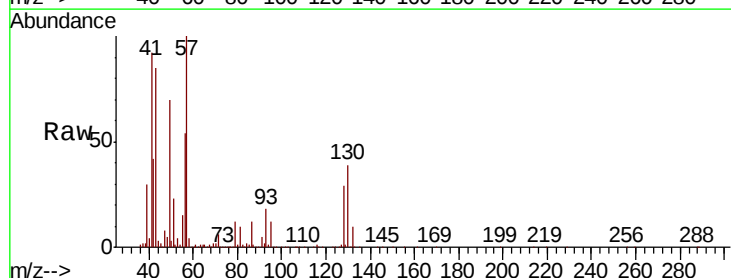
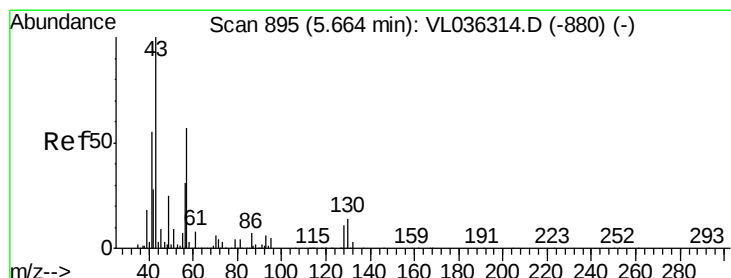
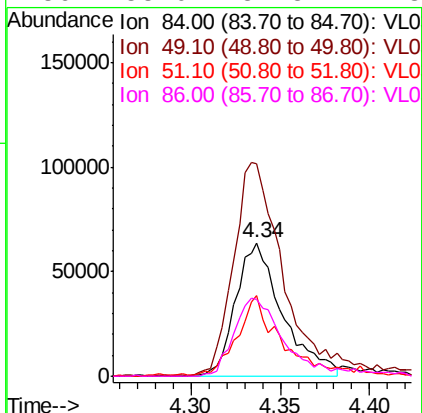
#20
Methvlene Chloride
Concen: 1.787 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.01 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	158.4	133.8	200.8		
51	58.9	41.4	62.0		
86	58.0	51.5	77.3		

Instrument :
MSVOA_L
ClientSampleId :
NS-10

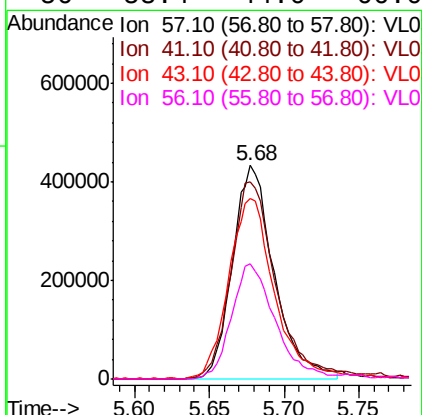
Manual Integrations
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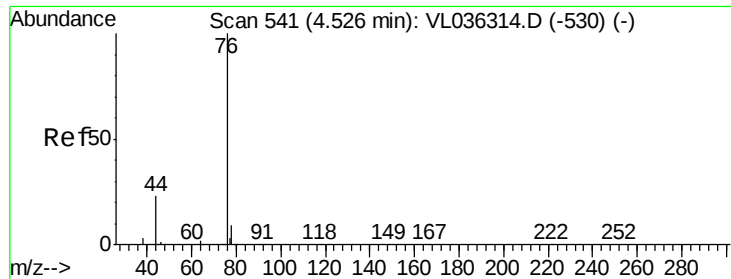
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3/1/2021 10:02:33 AM



#26
Hexane
Concen: 5.235 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	101.8	81.7	122.5		
43	93.6	199.1	298.7#		
56	58.4	44.0	66.0		





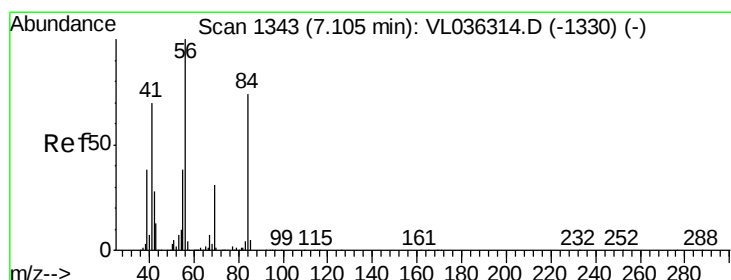
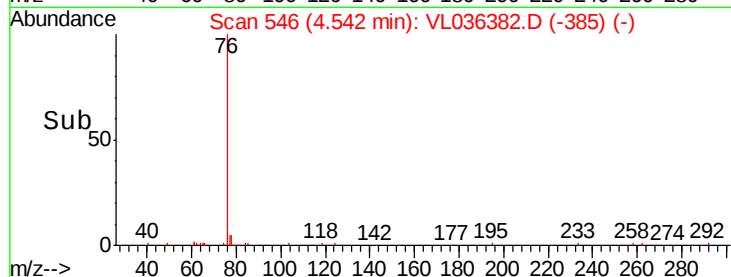
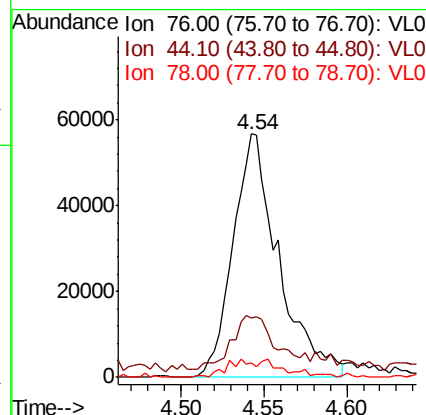
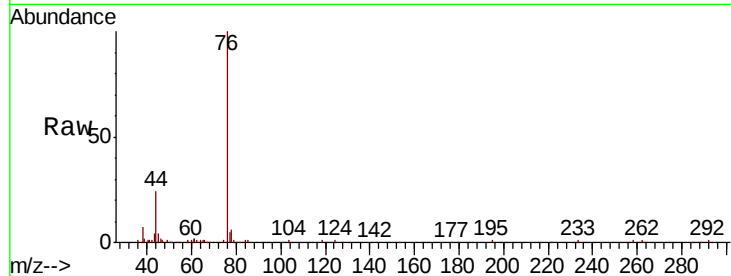
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Carbon Disulfide
Concen: 0.739 ppbv
RT: 4.54 min Scan# 546
Delta R.T. 0.02 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :
NS-10

Tot Ion	Ratio	Lower	Upper
76	100		
44	28.3	18.4	27.6#
78	9.0	8.0	12.0

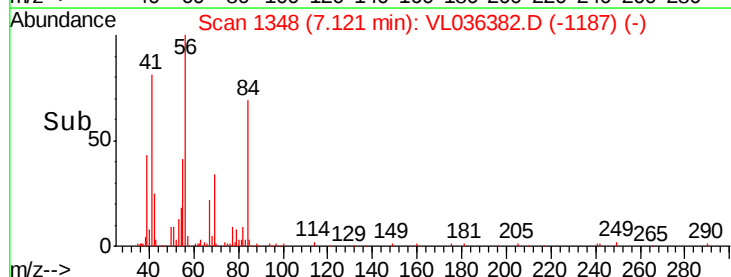
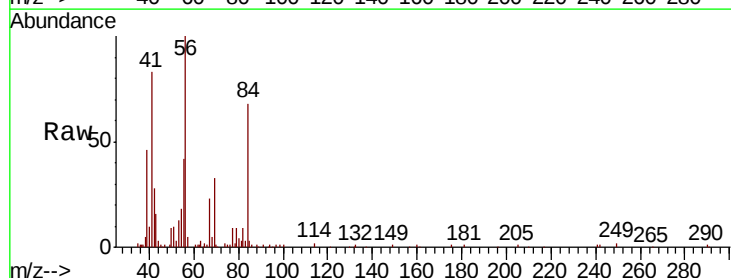
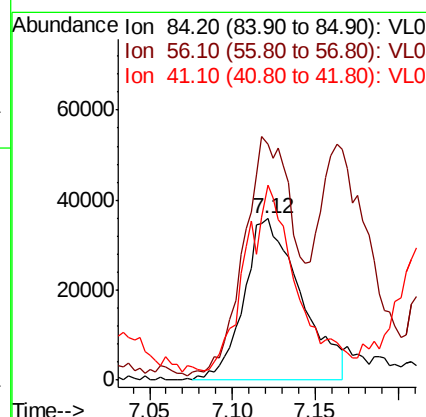
Manual Integrations
APPROVED

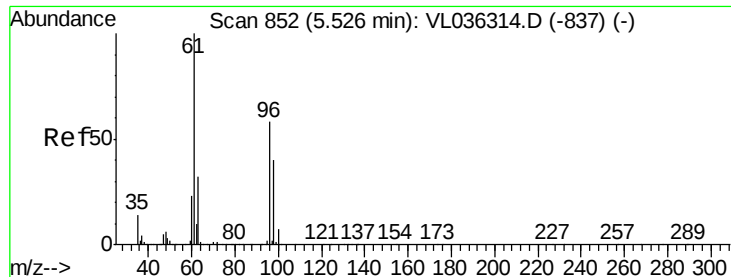
MMDadoda
3/1/2021 10:02:33 AM



#30
Cyclohexane
Concen: 0.633 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. 0.02 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Tgt Ion	Ratio	Lower	Upper
84	100		
56	124.8	120.2	180.4
41	103.6	79.7	119.5





#31

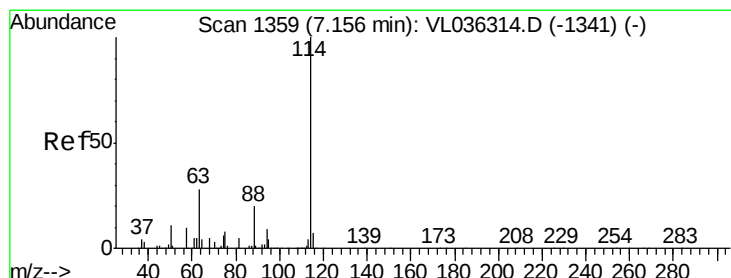
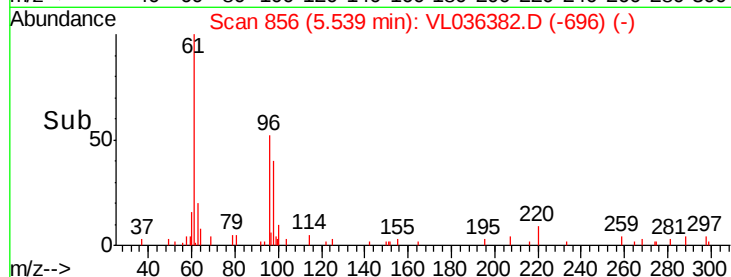
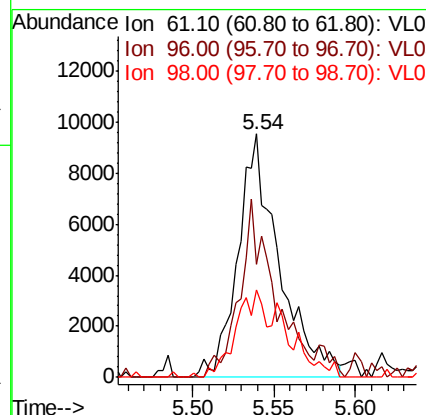
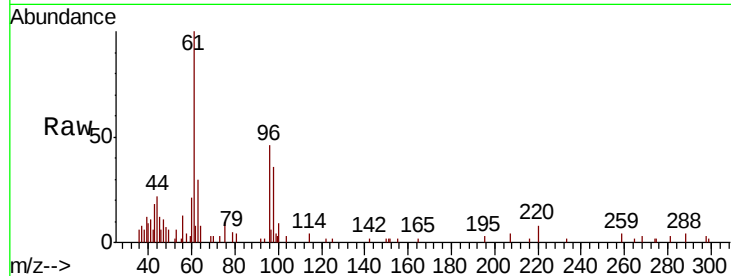
cis-1,2-Dichloroethene
 Concen: 0.107 ppbv m
 RT: 5.54 min Scan# 856
 Delta R.T. 0.01 min
 Lab File: VL036382.D
 Acq: 25 Feb 2021 15:39

Instrument :
 MSVOA_L
 ClientSampled :
 NS-10

Tot Ion	Ratio	Lower	Upper
61	100		
96	46.4	46.0	69.0
98	35.7	31.9	47.9

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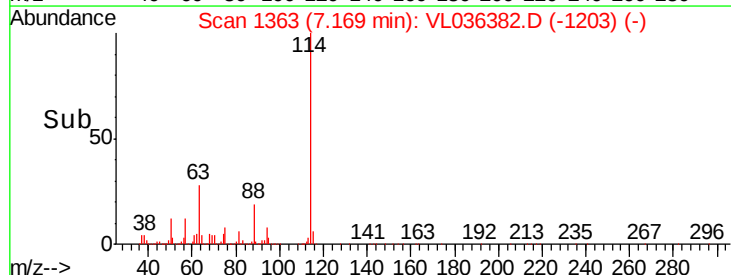
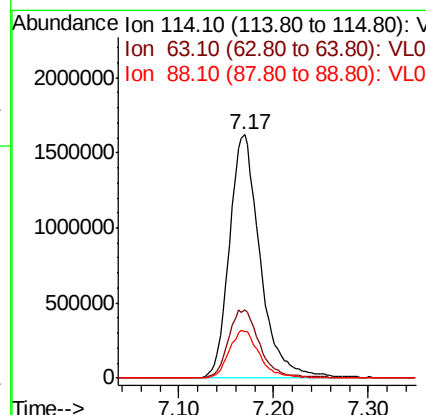
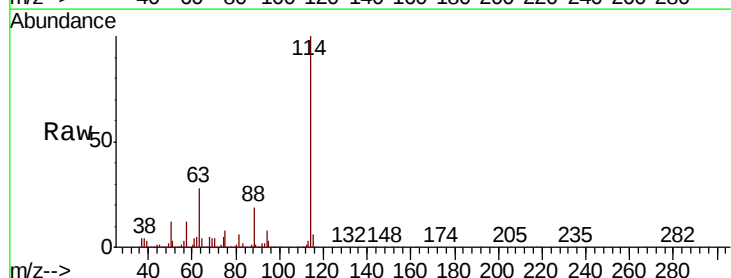
MMDadoda
 3/1/2021 10:02:33 AM

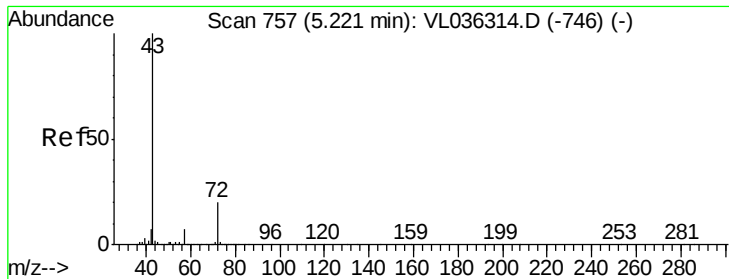


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VL036382.D
 Acq: 25 Feb 2021 15:39

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.1	24.1	36.1
88	19.6	16.0	24.0





#34

2-Butanone

Concen: 0.869 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.02 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

Instrument :

MSVOA_L

ClientSampleId :

NS-10

Tot Ion: 43 Resp: 211474

Ion Ratio Lower Upper

43 100

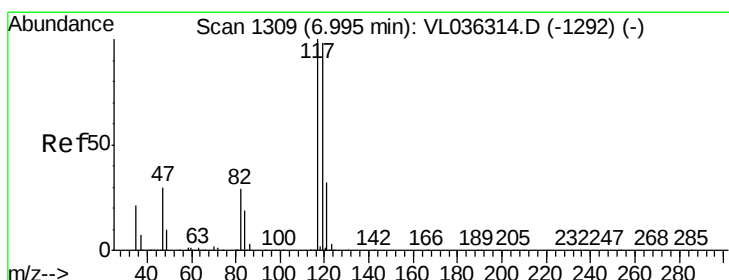
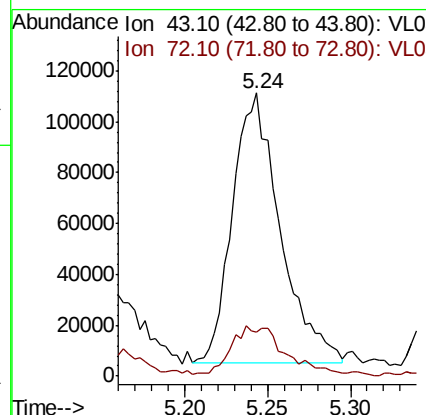
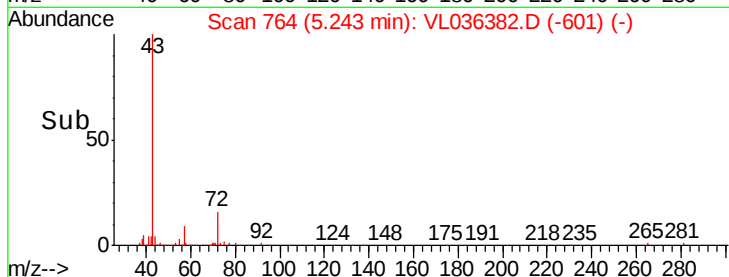
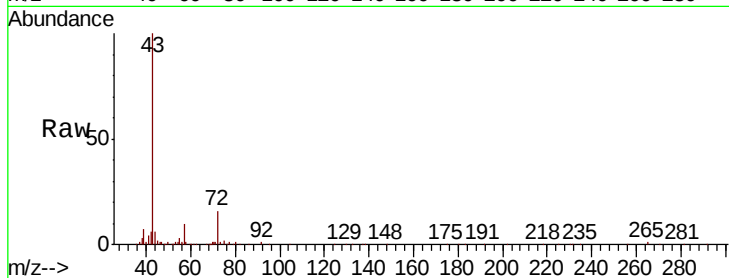
72 21.7 16.7 25.1

Manual Integrations

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3/1/2021 10:02:33 AM



#35

Carbon Tetrachloride

Concen: 0.082 ppbv m

RT: 7.00 min Scan# 1311

Delta R.T. 0.01 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

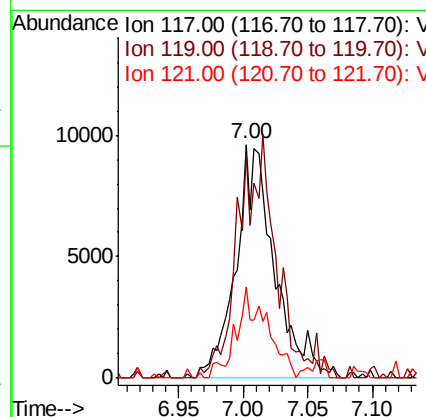
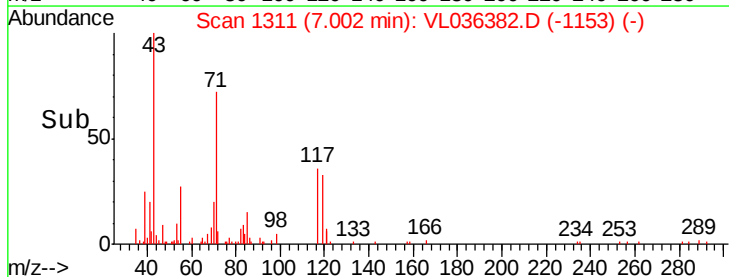
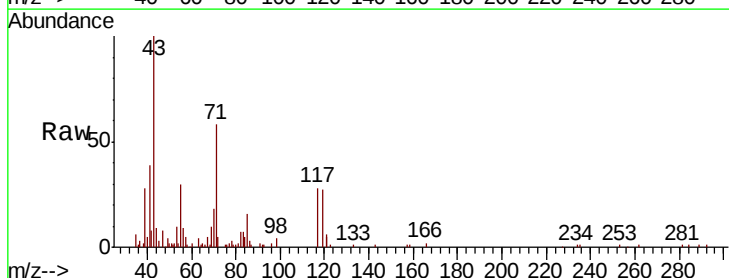
Tgt Ion: 117 Resp: 20149

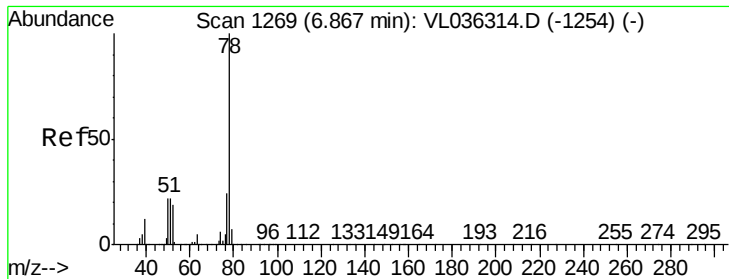
Ion Ratio Lower Upper

117 100

119 95.4 78.1 117.1

121 19.8 25.8 38.8#





#36

Benzene

Concen: 0.696 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

Instrument :

MSVOA_L

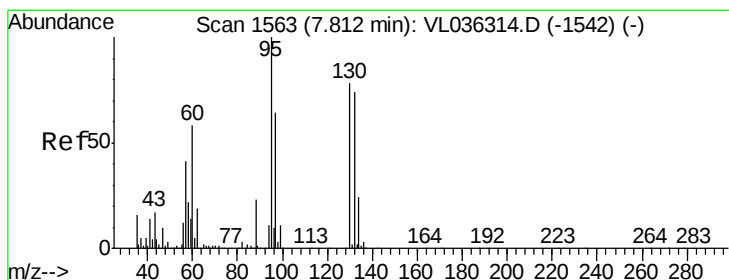
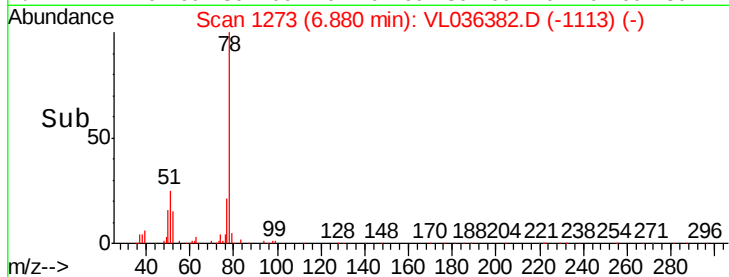
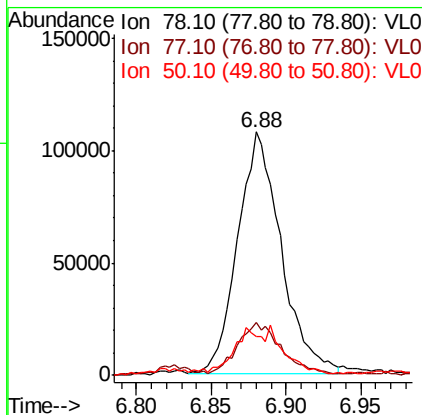
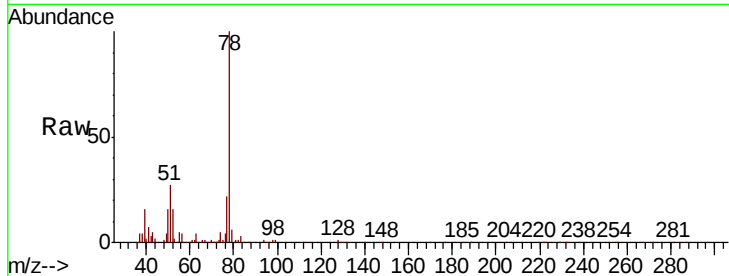
ClientSampled :

NS-10

Tot Ion:	78	Resp:	216610
Ion Ratio	Lower	Upper	
78	100		
77	21.3	18.9	28.3
50	14.8	17.3	25.9#

Manual Integrations
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#38

Trichloroethene

Concen: 0.055 ppbv m

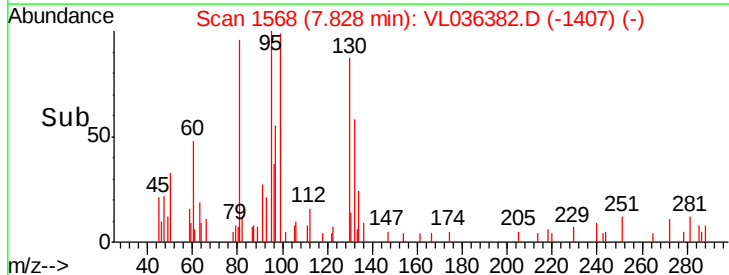
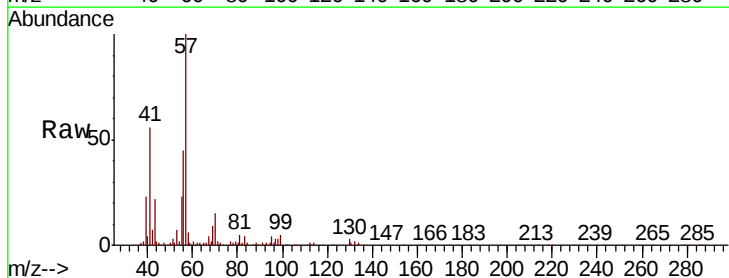
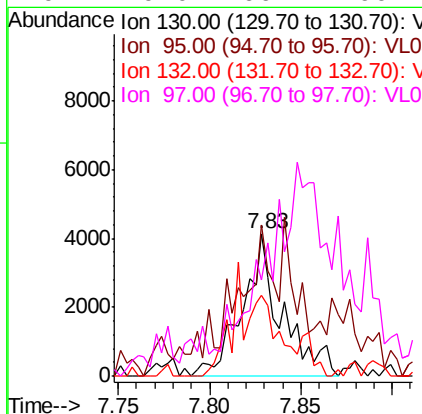
RT: 7.83 min Scan# 1568

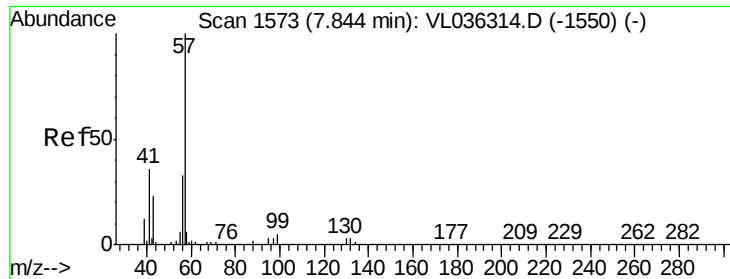
Delta R.T. 0.02 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

Tgt Ion:	130	Resp:	6146
Ion Ratio	Lower	Upper	
130	100		
95	123.4	102.8	154.2
132	66.3	75.7	113.5#
97	79.0	66.2	99.2





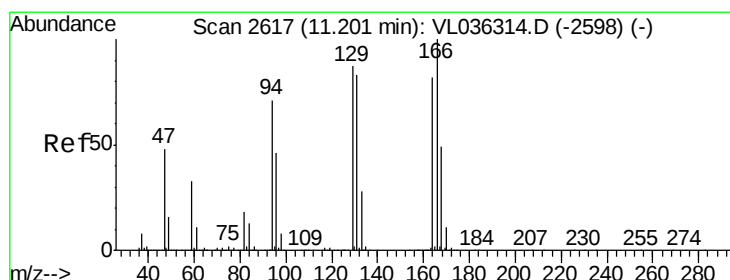
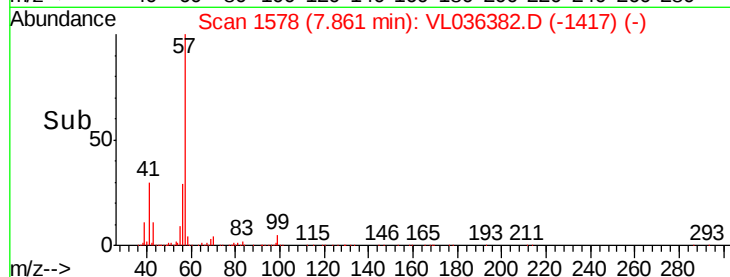
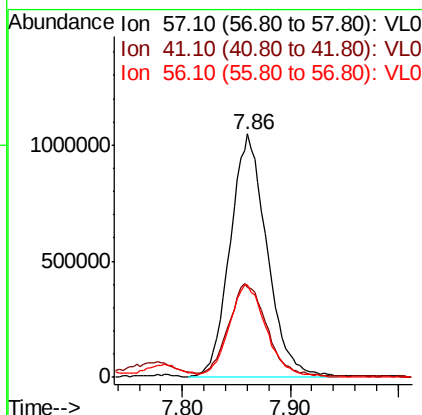
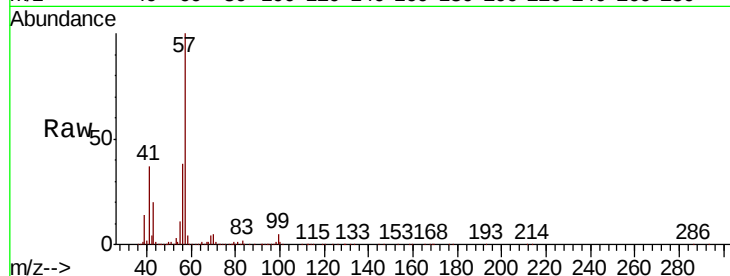
#44
2,2,4-Trimethylpentane
Concen: 4.377 ppbv
RT: 7.86 min Scan# 1578
Delta R.T. 0.02 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :
NS-10

Tot Ion	Ratio	Lower	Upper
57	100		
41	41.0	28.8	43.2
56	38.8	25.8	38.6#

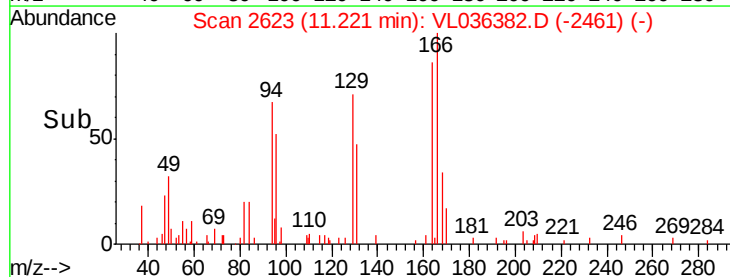
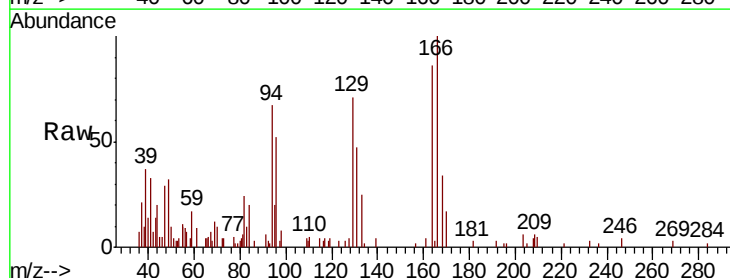
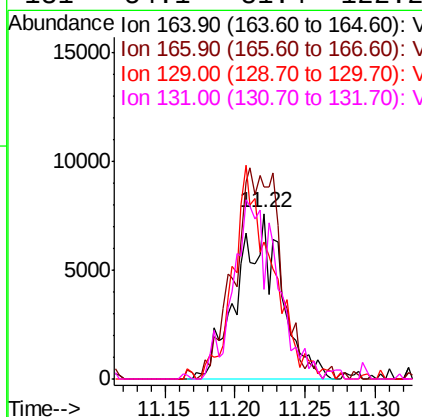
Manual Integrations
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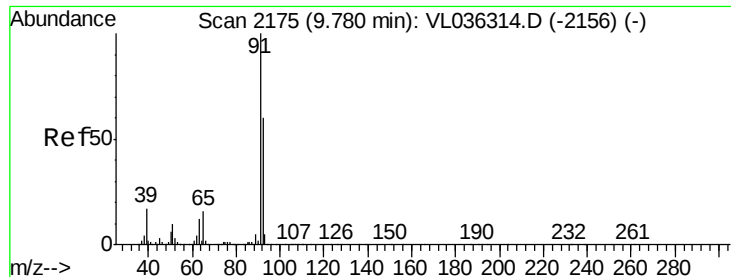
MMDadoda
3/1/2021 10:02:33 AM



#52
Tetrachloroethene
Concen: 0.144 ppbv m
RT: 11.22 min Scan# 2623
Delta R.T. 0.02 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	116.3	97.8	146.8
129	83.1	84.9	127.3#
131	54.1	81.4	122.2#





#53

Toluene

Concen: 10.638 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.02 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

Instrument :

MSVOA_L

ClientSampleId :

NS-10

Tot Ion: 91 Resp: 3584915

Ion Ratio Lower Upper

91 100

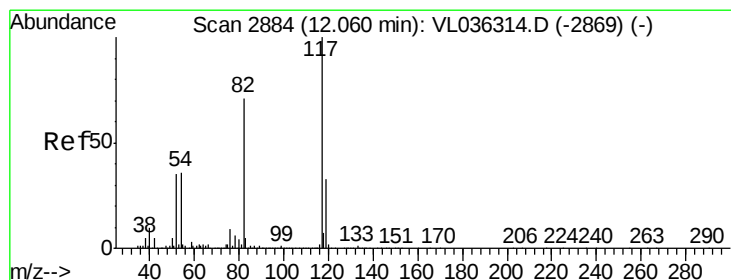
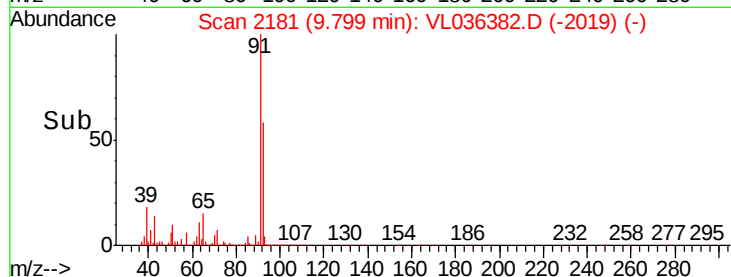
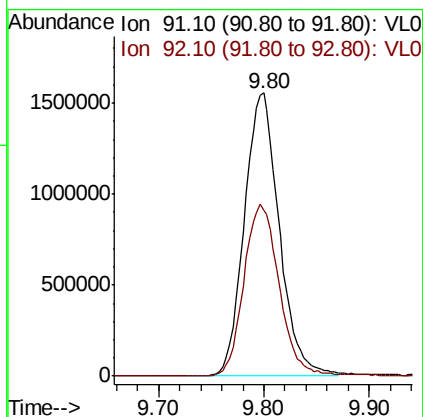
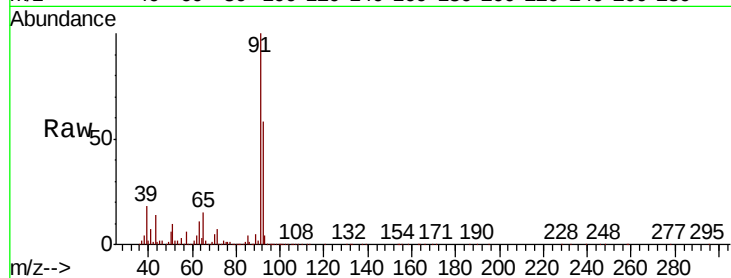
92 62.1 48.6 72.8

Manual Integrations

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3/1/2021 10:02:33 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. 0.02 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

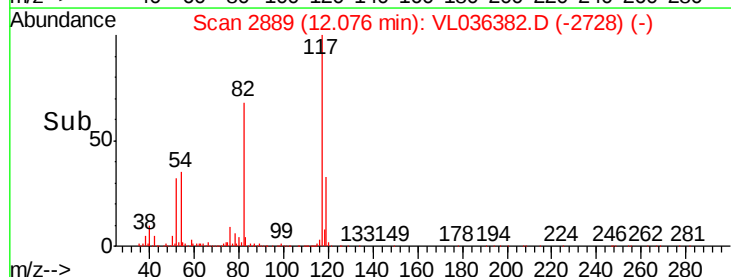
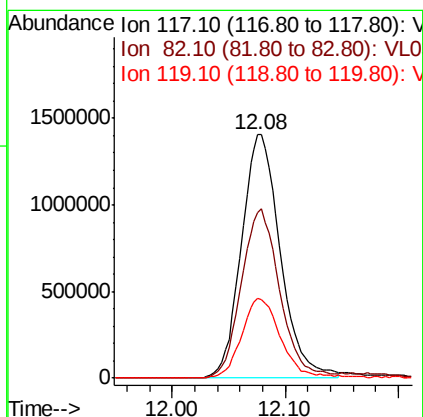
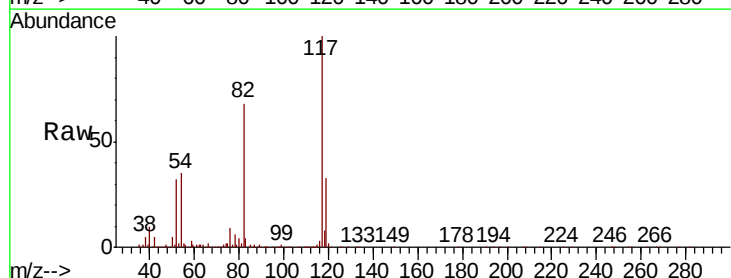
Tgt Ion: 117 Resp: 3363176

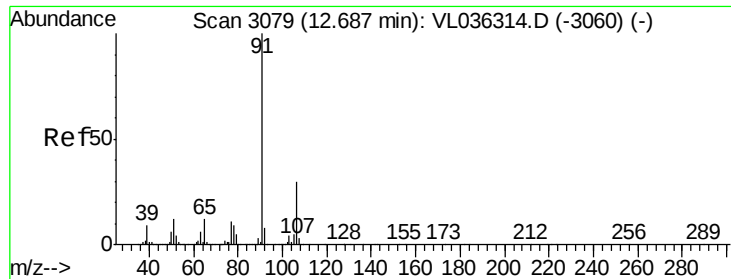
Ion Ratio Lower Upper

117 100

82 71.8 59.1 88.7

119 34.0 46.3 69.5#





#58

Ethyl Benzene

Concen: 2.033 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. 0.01 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

Instrument :

MSVOA_L

ClientSampled :

NS-10

Tot Ion: 91 Resp: 936146

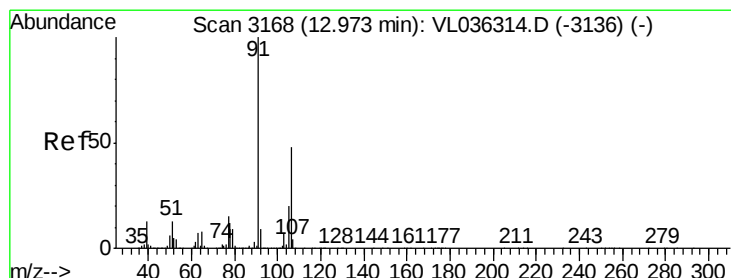
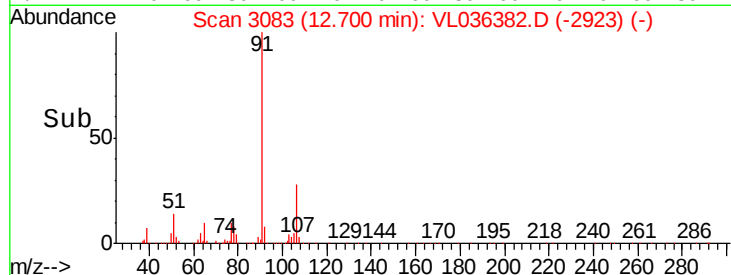
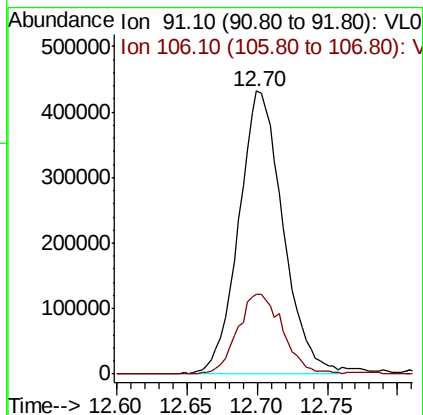
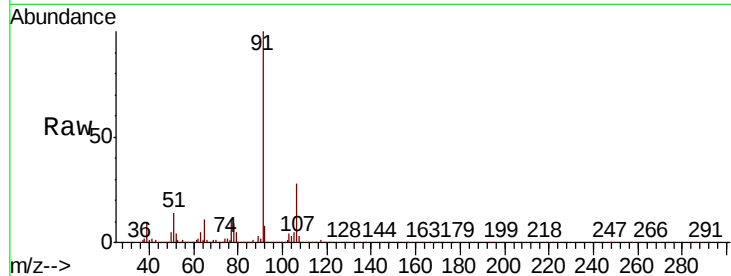
Ion Ratio Lower Upper

91 100

106 28.2 23.8 35.6

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#59

m/p-Xylene

Concen: 6.149 ppbv

RT: 12.96 min Scan# 3163

Delta R.T. -0.02 min

Lab File: VL036382.D

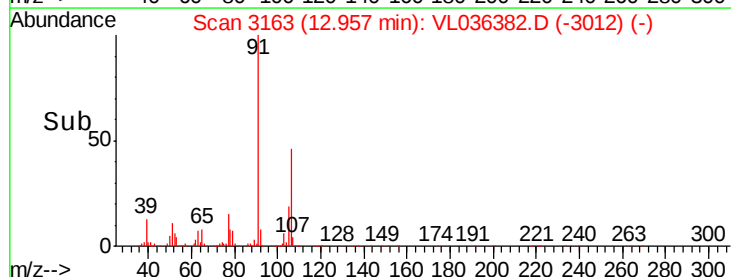
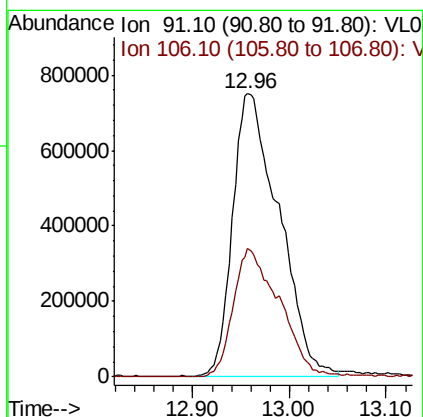
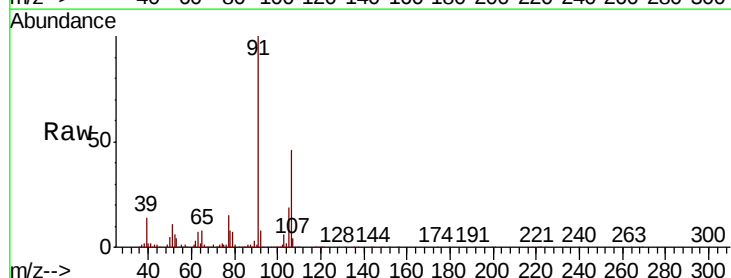
Acq: 25 Feb 2021 15:39

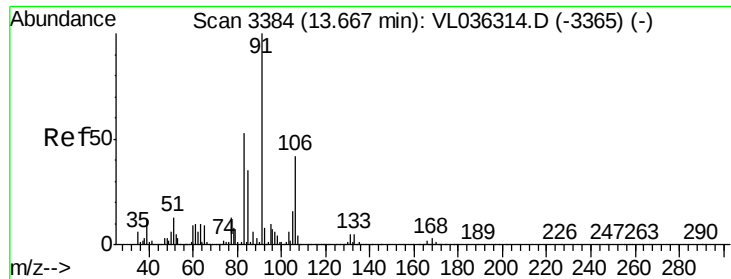
Tgt Ion: 91 Resp: 2487327

Ion Ratio Lower Upper

91 100

106 45.5 34.2 51.2





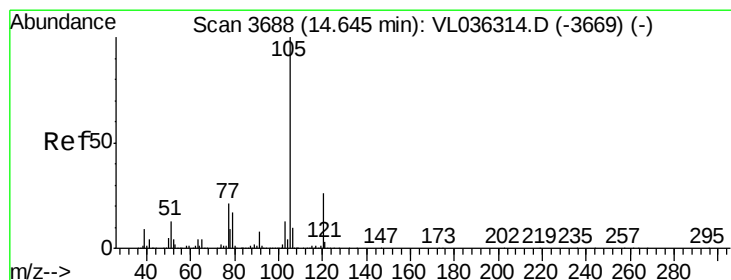
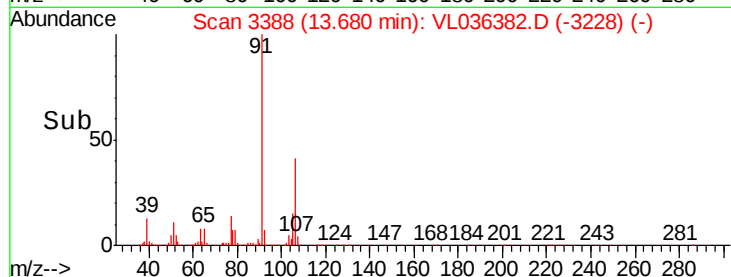
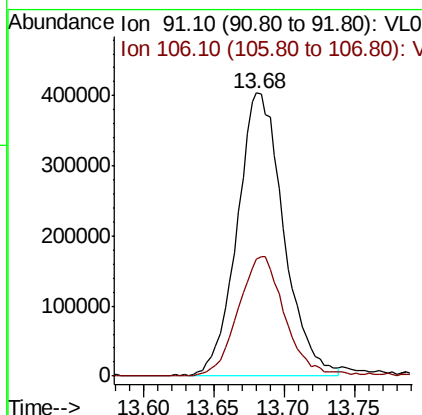
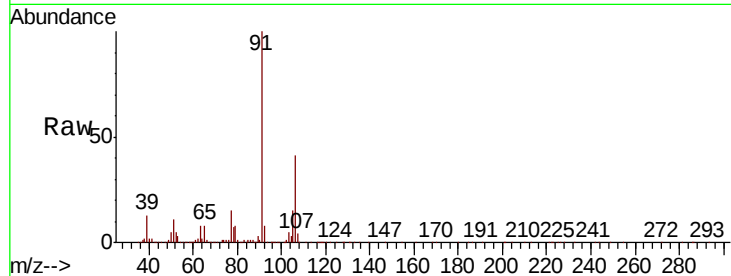
#60
o-Xylene
Concen: 2.387 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. 0.01 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :
NS-10

Tot Ion	Ratio	Lower	Upper
91	100		
106	43.3	22.0	66.0

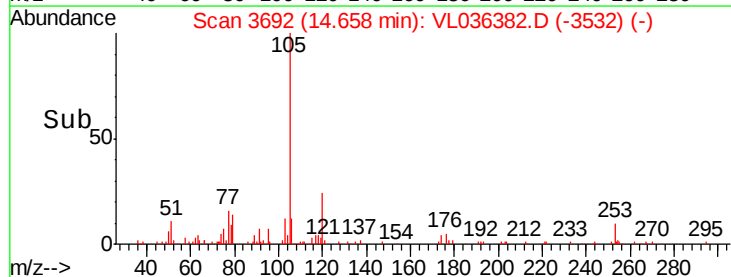
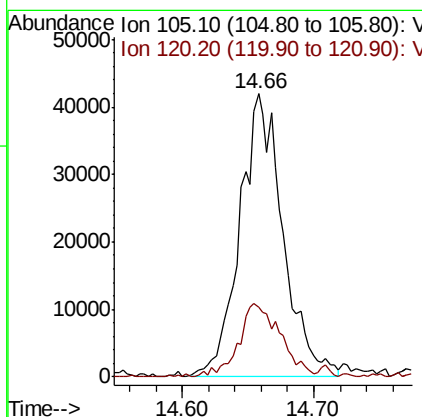
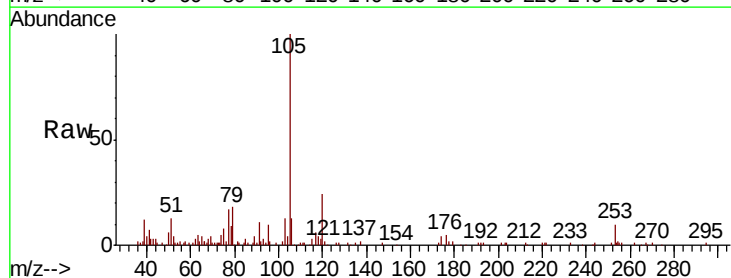
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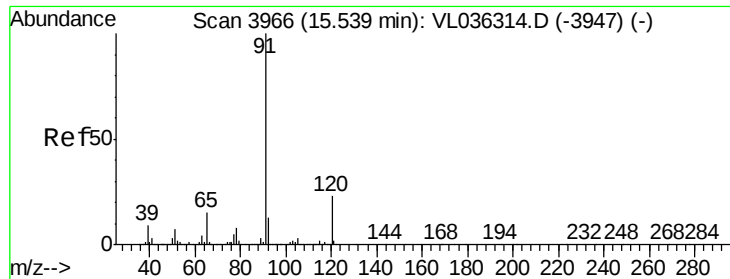
MMDadoda
3/1/2021 10:02:33 AM



#62
Isopropylbenzene
Concen: 0.164 ppbv m
RT: 14.66 min Scan# 3692
Delta R.T. 0.01 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.6	30.8





#64

n-propylbenzene

Concen: 0.523 ppbv m

RT: 15.55 min Scan# 3970

Delta R.T. 0.01 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

Instrument :

MSVOA_L

ClientSampled :

NS-10

Tot Ion:120 Resp: 74645

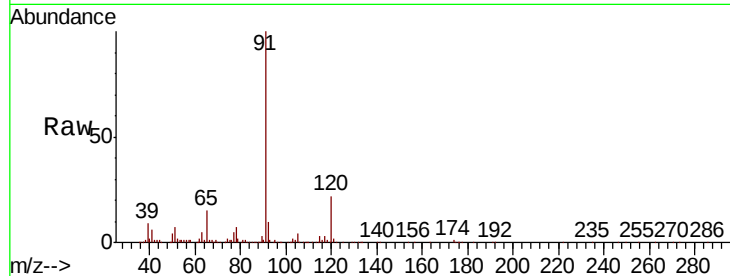
Ion Ratio Lower Upper

120 100

91 0.0 387.2 580.8#

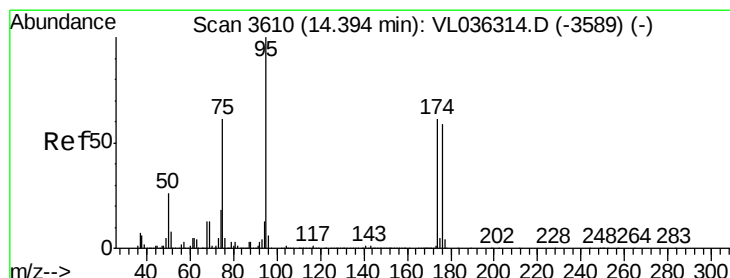
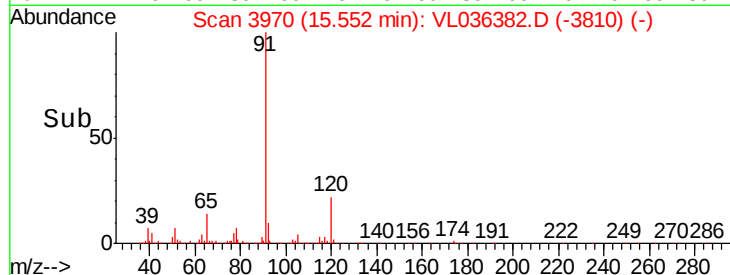
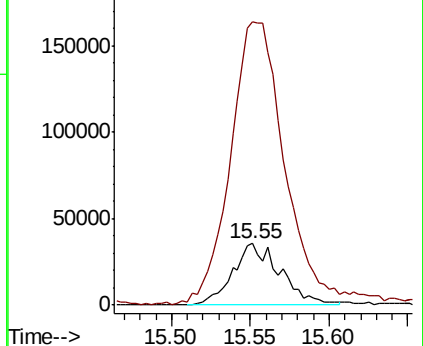
Manual Integrations
APPROVED

MMDadoda
3/1/2021 10:02:33 AM



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.679 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. 0.01 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

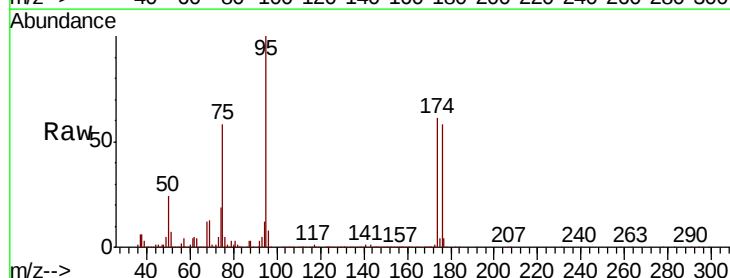
Tgt Ion: 95 Resp: 2678199

Ion Ratio Lower Upper

95 100

174 64.7 49.8 74.6

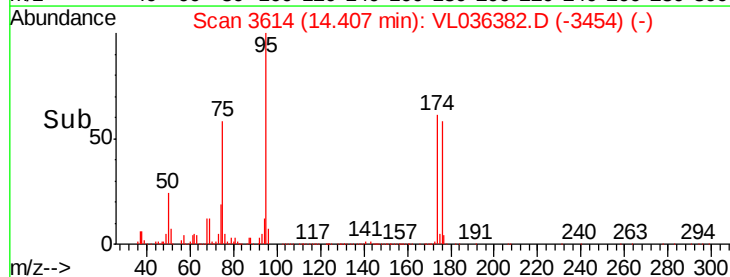
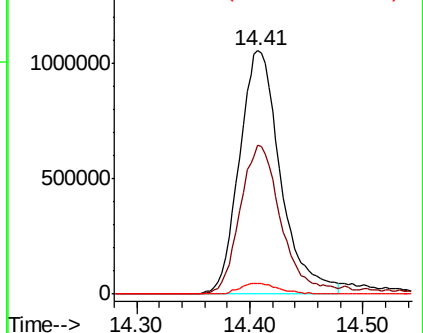
175 4.3 3.7 5.5

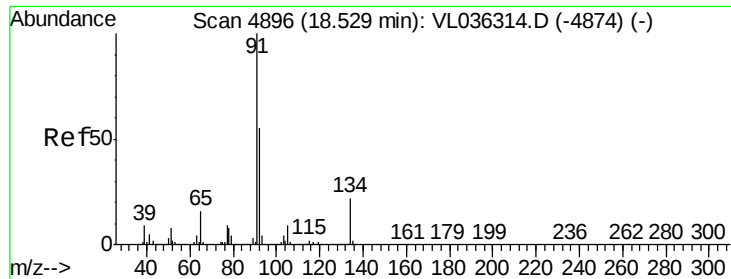


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





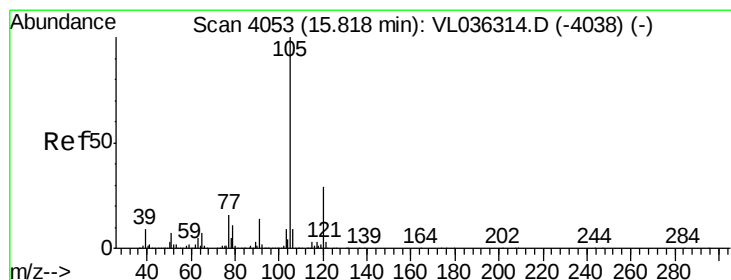
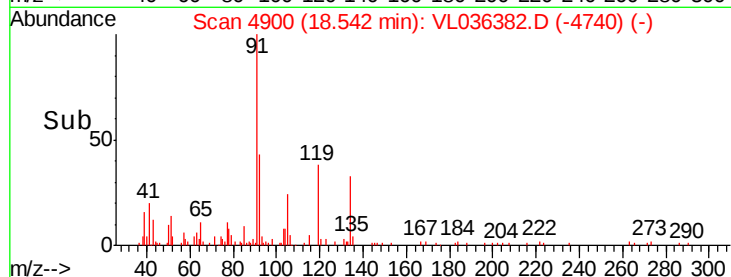
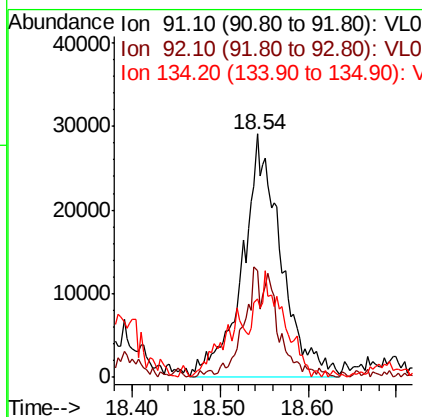
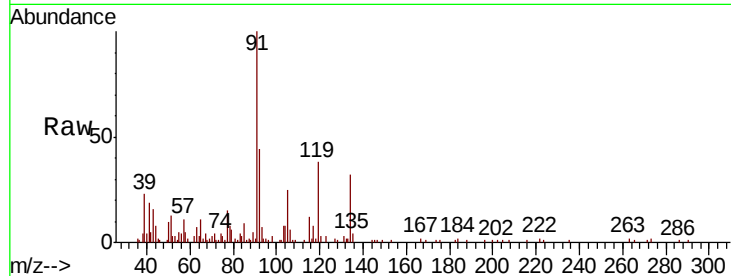
#70
n-Butylbenzene
Concen: 0.149 ppbv m
RT: 18.54 min Scan# 4900
Delta R.T. 0.01 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Instrument :
MSVOA_L
ClientSampled :
NS-10

Tot Ion	Ratio	Resp	Lower	Upper
91	100	88451		
92	0.0	43.7	65.5#	
134	49.4	17.4	26.0#	

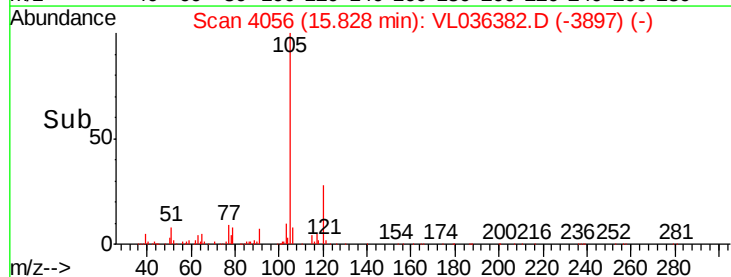
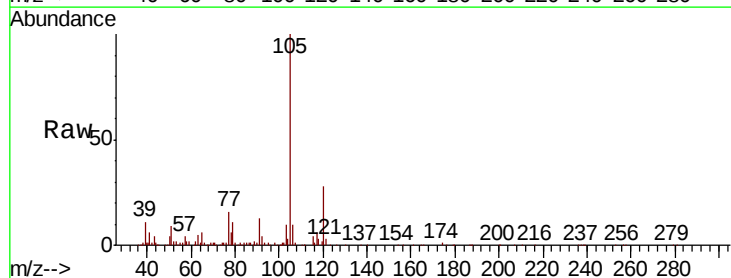
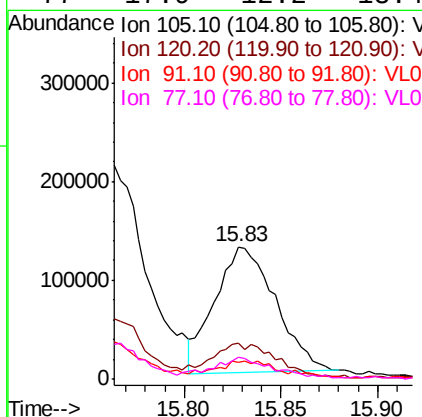
Manual Integrations
APPROVED

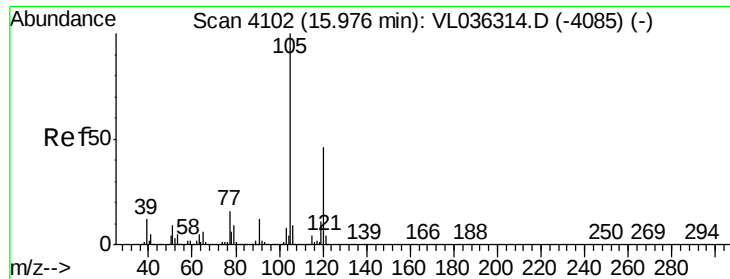
MMDadoda
3/1/2021 10:02:33 AM



#72
4-Ethyltoluene
Concen: 0.647 ppbv
RT: 15.83 min Scan# 4056
Delta R.T. 0.01 min
Lab File: VL036382.D
Acq: 25 Feb 2021 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	278314		
120	31.4	23.2	34.8	
91	14.0	11.0	16.4	
77	17.9	12.2	18.4	





#73

1,3,5-Trimethylbenzene

Concen: 0.475 ppbv m

RT: 15.99 min Scan# 4106

Delta R.T. 0.01 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

Instrument :

MSVOA_L

ClientSampleId :

NS-10

Tot Ion:105 Resp: 198076

Ion Ratio Lower Upper

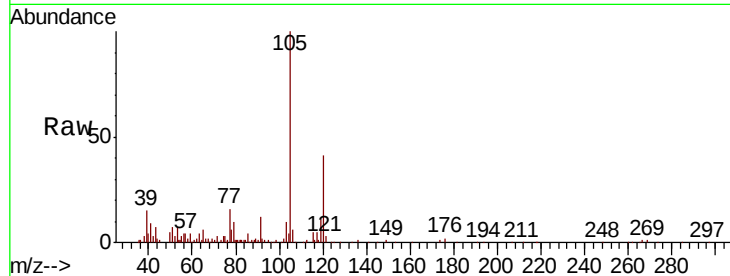
105 100

120 40.9 36.9 55.3

Manual Integrations
APPROVED

MMDadoda

3/1/2021 10:02:33 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.99

80000

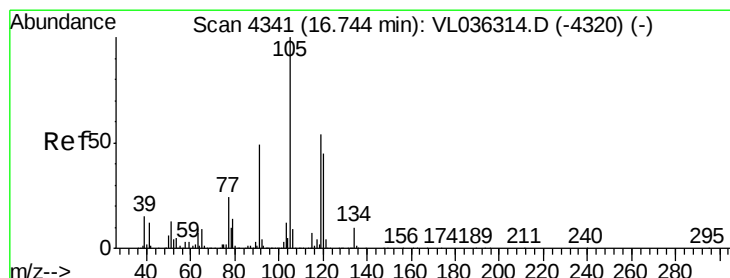
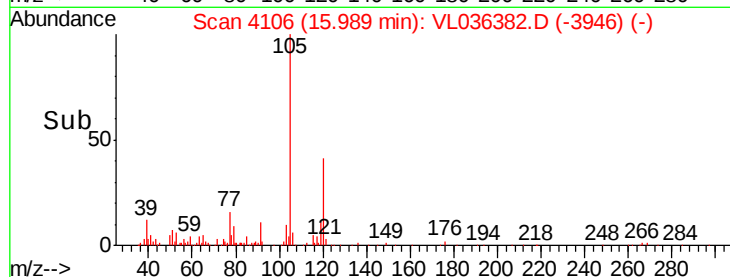
60000

40000

20000

0

Time--> 15.90 15.95 16.00 16.05



#74

1,2,4-Trimethylbenzene

Concen: 2.055 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. 0.01 min

Lab File: VL036382.D

Acq: 25 Feb 2021 15:39

Tgt Ion:105 Resp: 875368

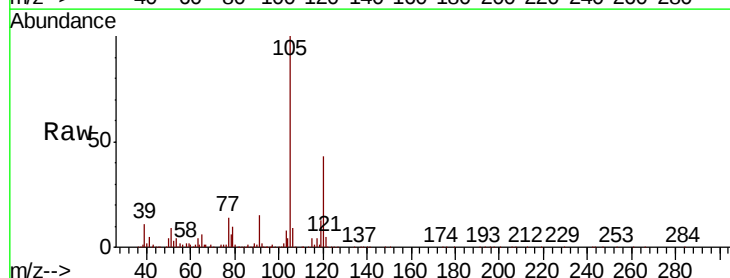
Ion Ratio Lower Upper

105 100

120 43.3 35.8 53.6

91 14.2 39.8 59.6#

77 14.1 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

600000

500000

400000

300000

200000

100000

0

Time--> 16.70 16.75 16.80

