

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092920\
 Data File : VL035727.D
 Acq On : 29 Sep 2020 16:45
 Operator : SY/AP
 Sample : L4174-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1A

Manual Integrations
 APPROVED

MMDadoda
 9/30/2020 5:32:14 PM

Quant Time: Sep 30 02:56:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1060544	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	3967688	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	3865605	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2949348	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	57200	0.329	ppbv	94
3) Chlorodifluoromethane	2.99	51	38647m	0.339	ppbv	
4) Chloromethane	3.14	50	35804	0.584	ppbv	97
9) Propene	3.02	41	26808	0.647	ppbv #	82
11) Trichlorofluoromethane	3.96	101	64571	0.260	ppbv	91
13) Ethanol	3.61	45	536860	52.551	ppbv	99
15) Acetone	3.85	43	783776	6.868	ppbv	99
19) Isopropyl Alcohol	3.98	45	135911	2.189	ppbv #	90
20) Methylene Chloride	4.35	84	1005197	11.992	ppbv	97
26) Hexane	5.70	57	684742	6.085	ppbv #	55
34) 2-Butanone	5.27	43	39178	0.299	ppbv	98
35) Carbon Tetrachloride	7.03	117	15108m	0.073	ppbv	
36) Benzene	6.91	78	34532	0.134	ppbv	97
37) 1,2-Dichloroethane	6.32	62	14374	0.107	ppbv	98
44) 2,2,4-Trimethylpentane	7.89	57	43136	0.116	ppbv #	77
52) Tetrachloroethene	11.25	164	21584m	0.174	ppbv	
53) Toluene	9.83	91	204839	0.672	ppbv	97
59) m/p-Xylene	13.00	91	35518m	0.105	ppbv	

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

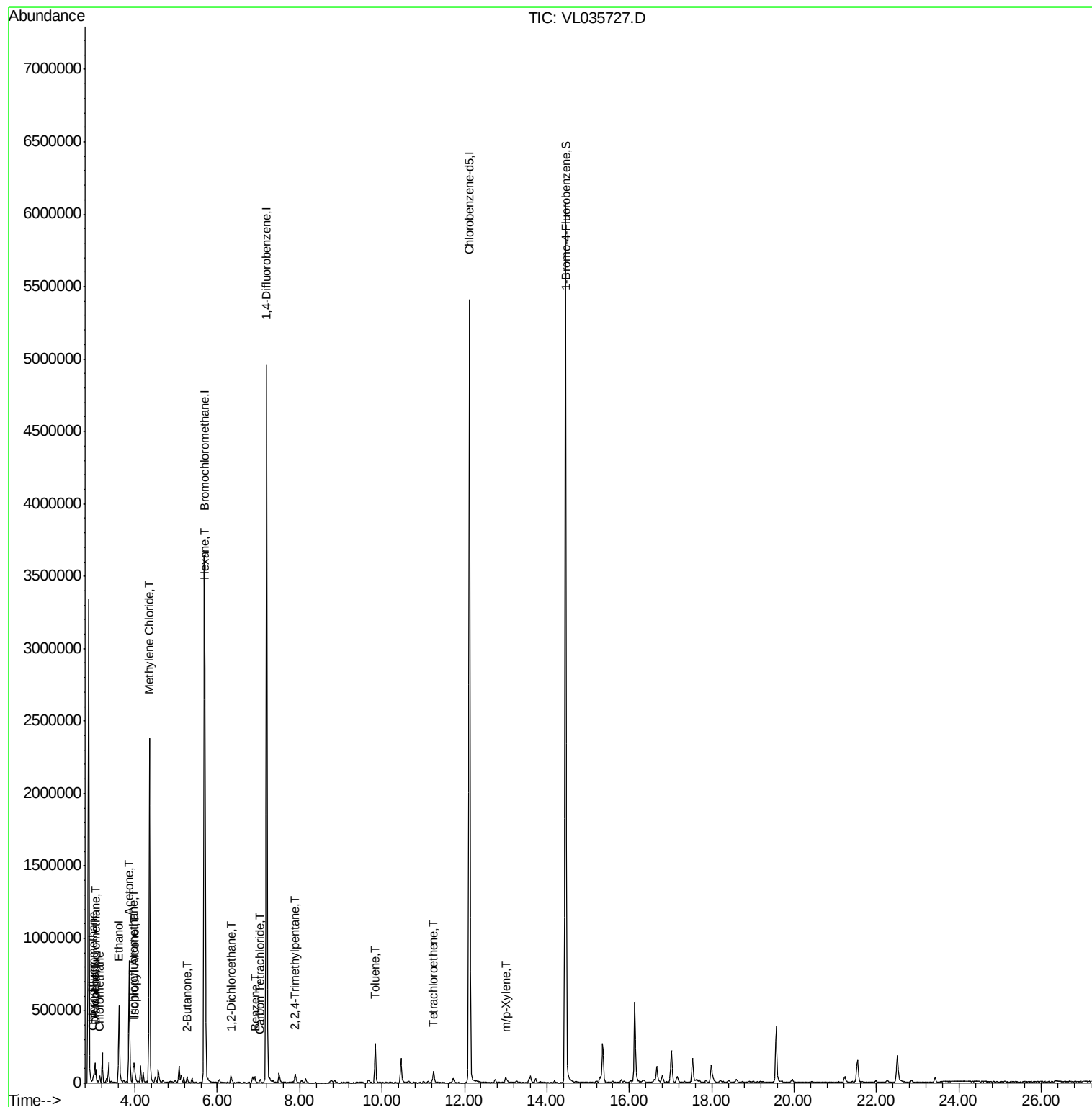
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092920\
Data File : VL035727.D
Acq On : 29 Sep 2020 16:45
Operator : SY/AP
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MSVOA_L
ClientSampleId :
IA1A

Manual Integrations
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Quant Time: Sep 30 02:56:27 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

Instrument :

MSVOA_L

ClientSampled :

IA1A

Tot Ion: 49 Resp: 1060544

Ion Ratio Lower Upper

49 100

128 84.4 43.1 129.4

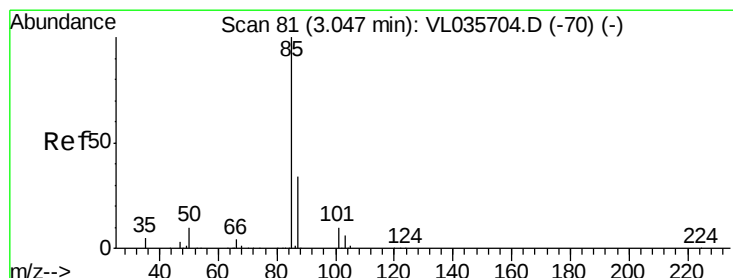
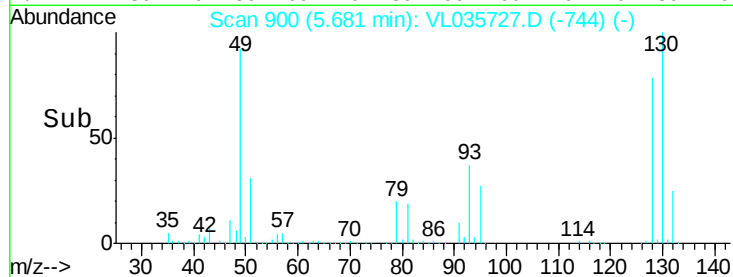
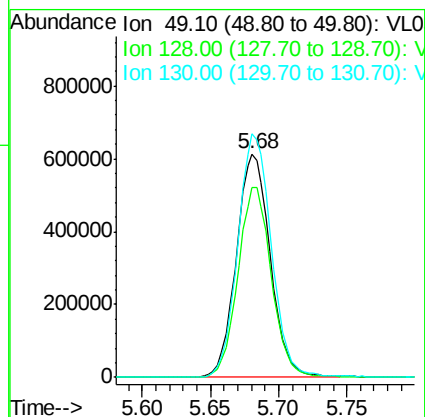
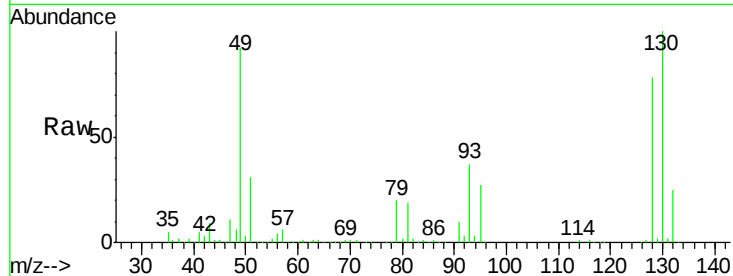
130 108.2 54.9 164.7

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.329 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL035727.D

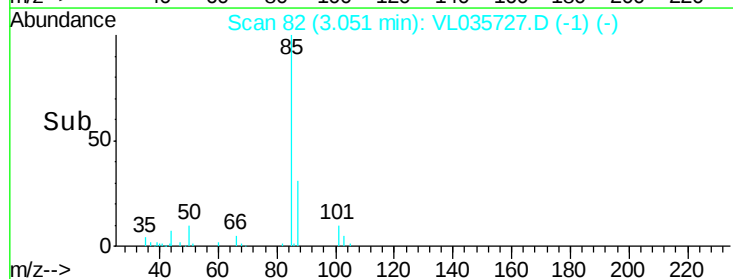
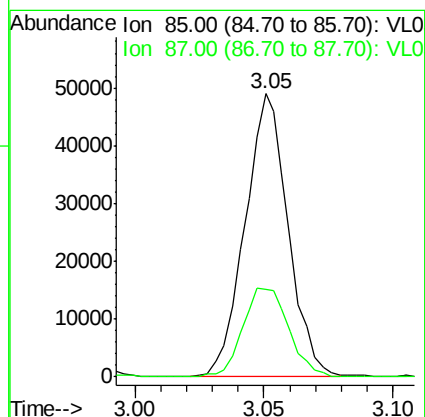
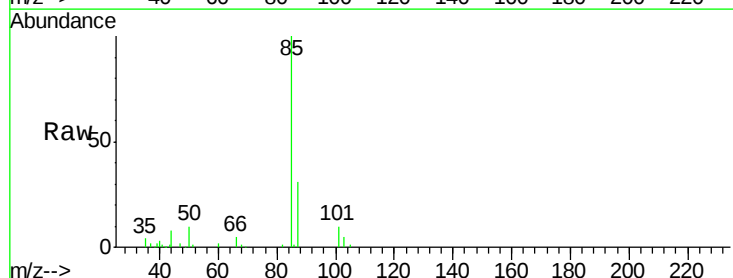
Acq: 29 Sep 2020 16:45

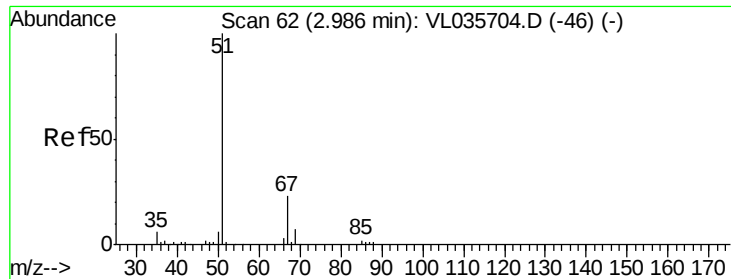
Tgt Ion: 85 Resp: 57200

Ion Ratio Lower Upper

85 100

87 30.7 27.3 40.9





#3

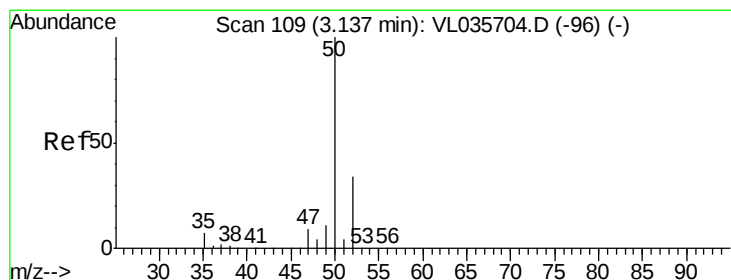
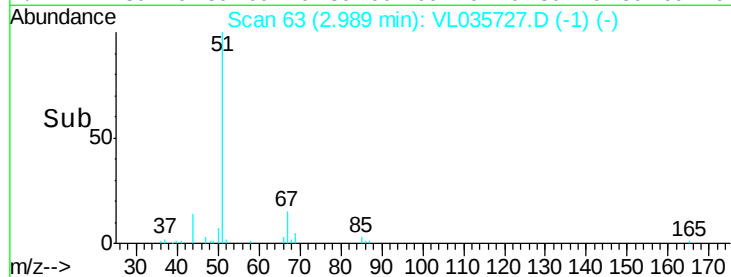
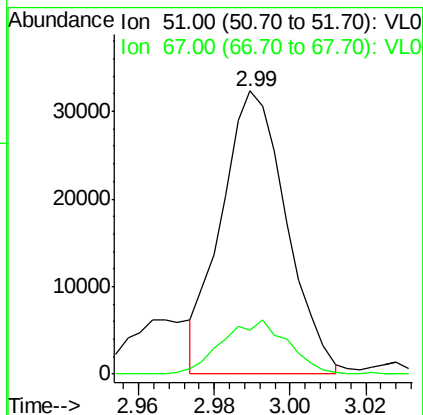
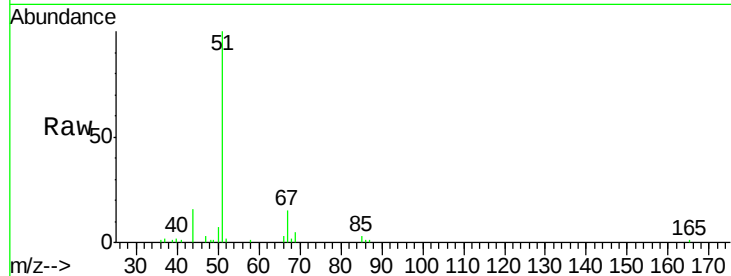
Chlorodifluoromethane
Concen: 0.339 ppbv
RT: 2.99 min Scan# 63
Delta R.T. 0.00 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tot Ion	51	Resp	38647
Ion	Ratio	Lower	Upper
51	100		
67	19.5	17.8	26.8

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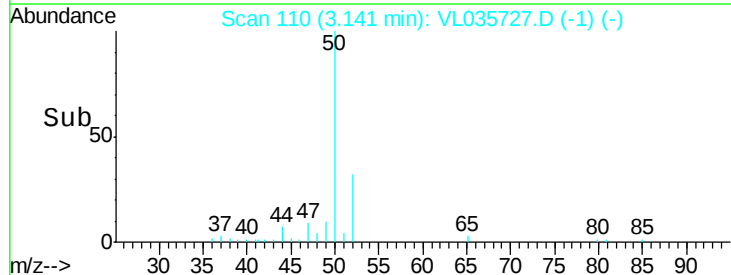
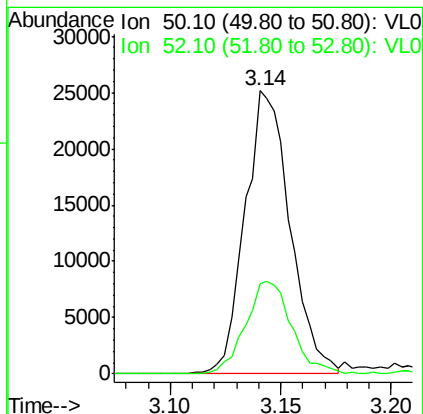
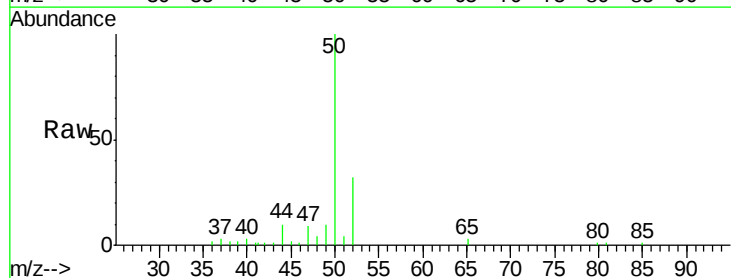
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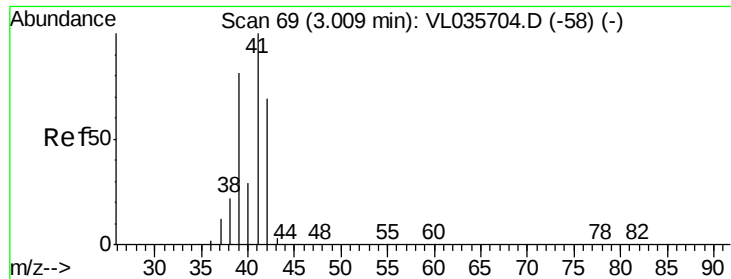


#4

Chloromethane
Concen: 0.584 ppbv
RT: 3.14 min Scan# 110
Delta R.T. 0.00 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Tgt Ion	50	Resp	35804
Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.8	40.2





#9

Propene

Concen: 0.647 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

Instrument :

MSVOA_L

ClientSampleId :

IA1A

Tot Ion: 41 Resp: 26808

Ion Ratio Lower Upper

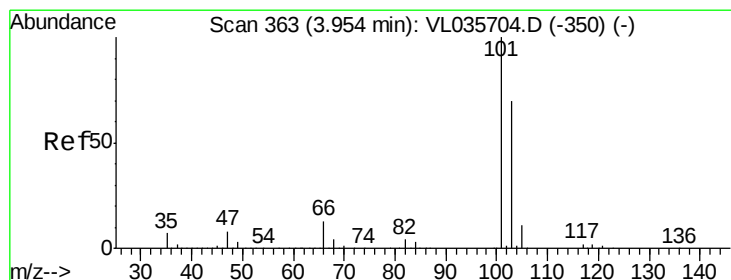
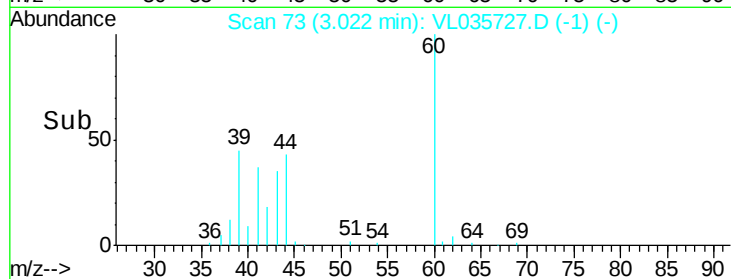
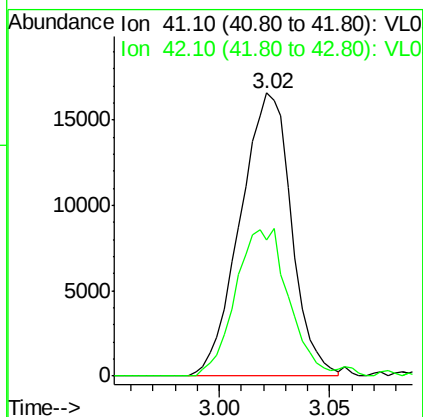
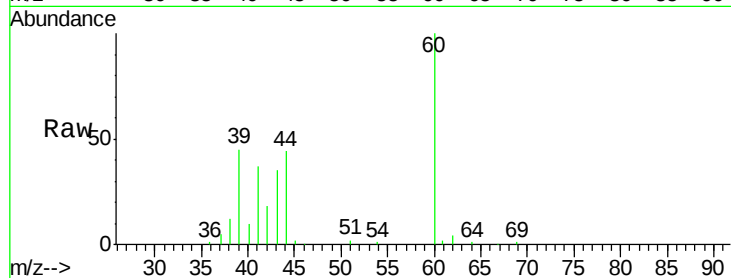
41 100

42 55.6 56.2 84.4#

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#11

Trichlorofluoromethane

Concen: 0.260 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL035727.D

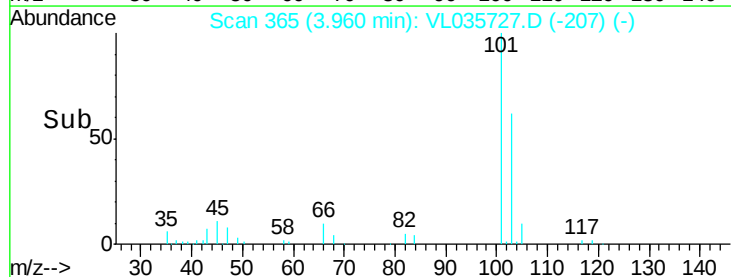
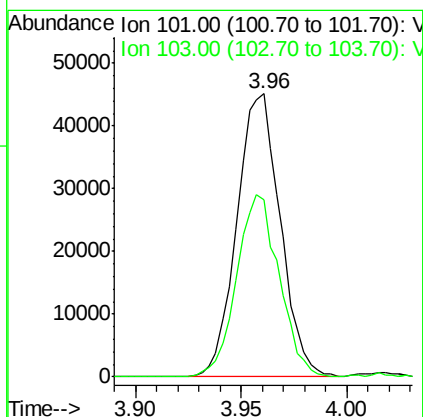
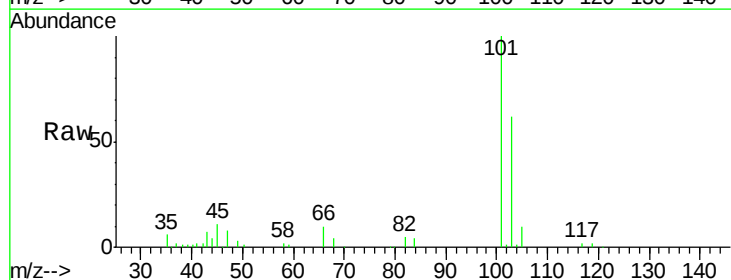
Acq: 29 Sep 2020 16:45

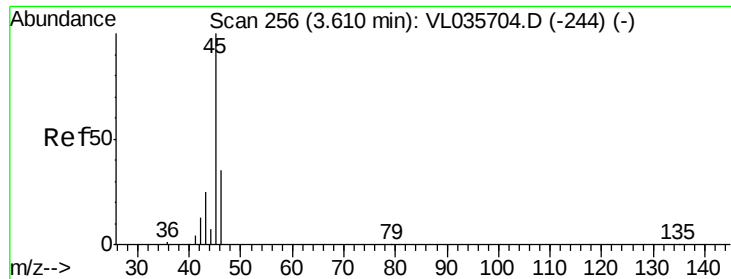
Tgt Ion: 101 Resp: 64571

Ion Ratio Lower Upper

101 100

103 62.4 55.6 83.4





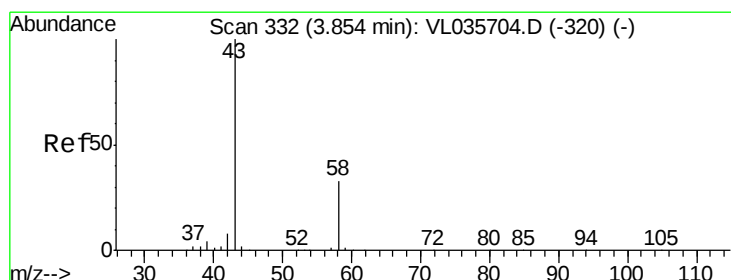
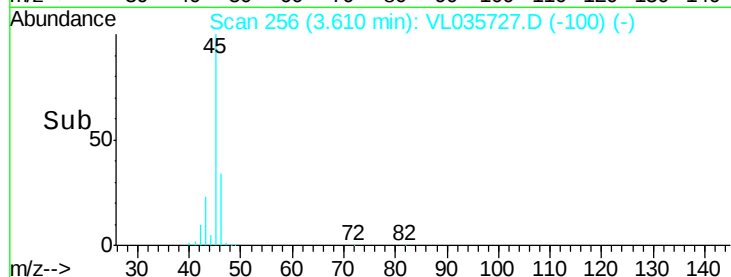
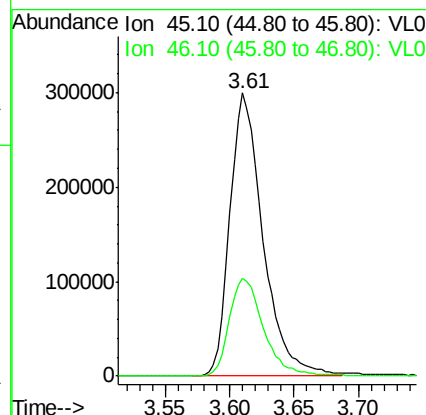
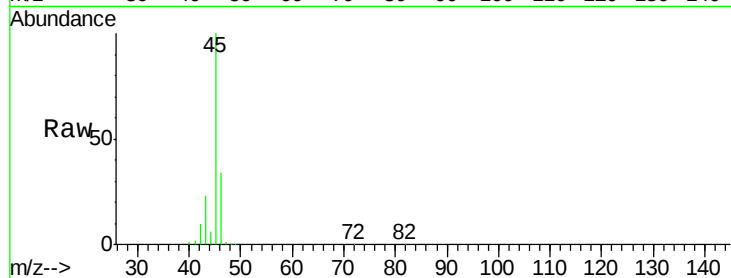
#13
Ethanol
Concen: 52.551 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tot Ion	45	46	Ratio	100	36.1	Resp	536860	Lower	14.7	Upper	58.7
Ion	45	46	Ratio	100	36.1	Resp	536860	Lower	14.7	Upper	58.7

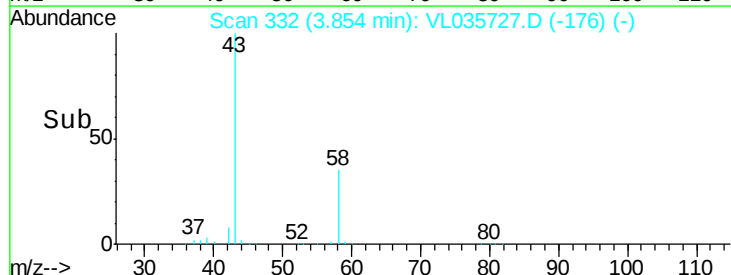
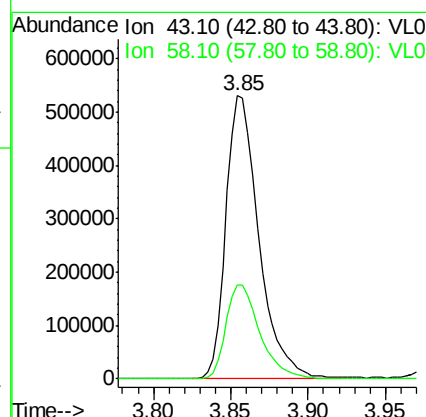
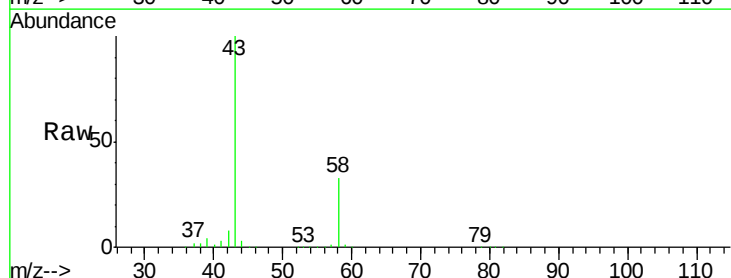
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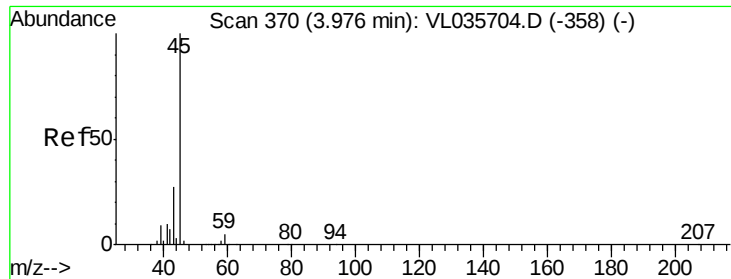
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#15
Acetone
Concen: 6.868 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Tgt Ion	43	58	Ratio	100	34.5	Resp	783776	Lower	27.3	Upper	40.9
Ion	43	58	Ratio	100	34.5	Resp	783776	Lower	27.3	Upper	40.9





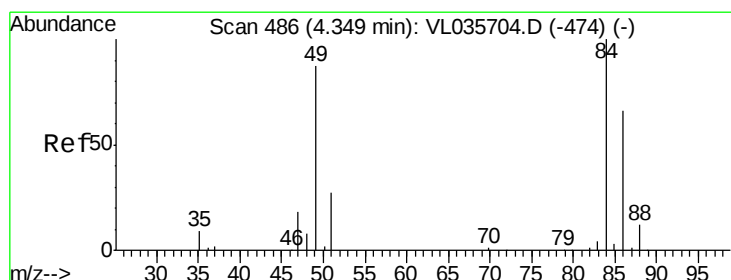
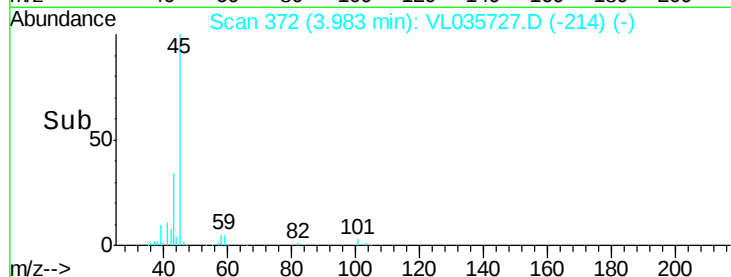
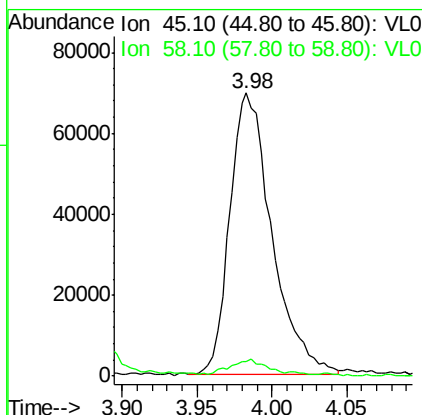
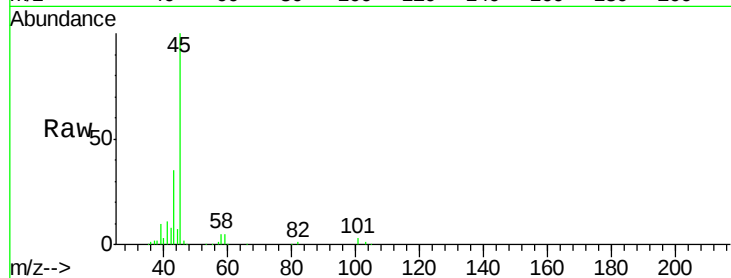
#19
Isopropyl Alcohol
Concen: 2.189 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tot Ion	Ratio	Lower	Upper
45	100		
58	6.7	2.8	4.2#

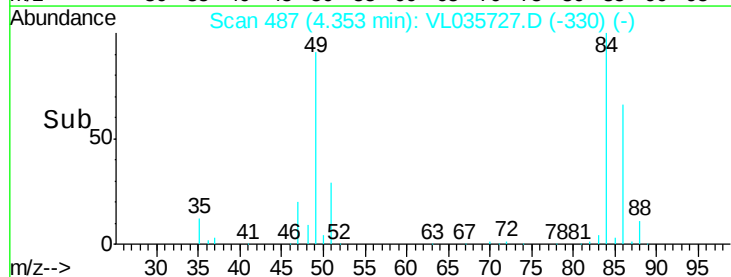
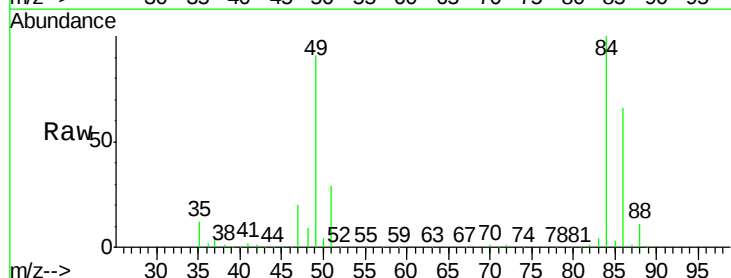
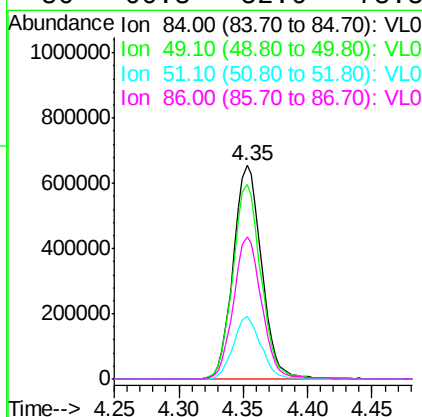
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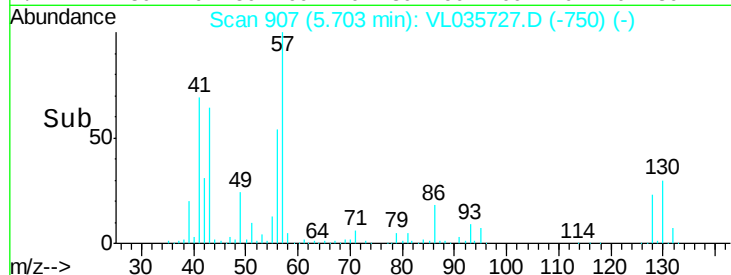
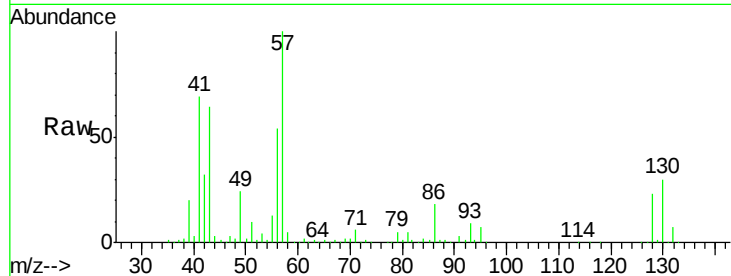
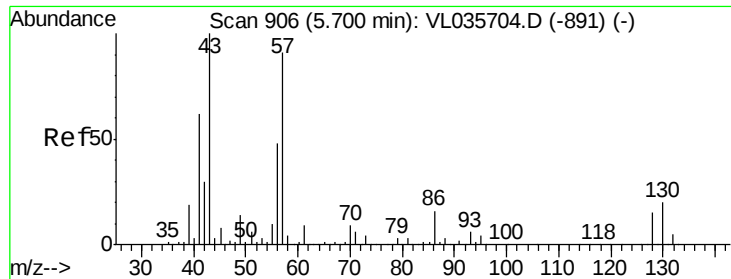
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#20
Methylene Chloride
Concen: 11.992 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.00 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Tgt Ion	Ratio	Lower	Upper
84	100		
49	90.9	69.8	104.6
51	29.1	21.8	32.8
86	66.3	52.6	78.8





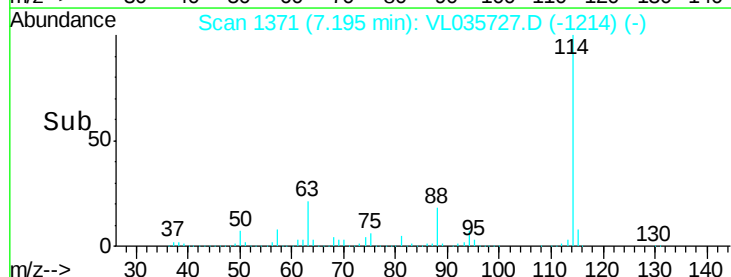
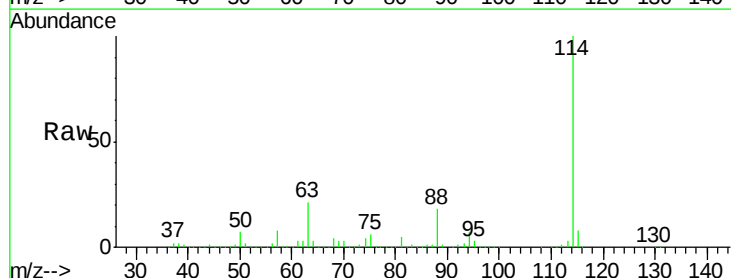
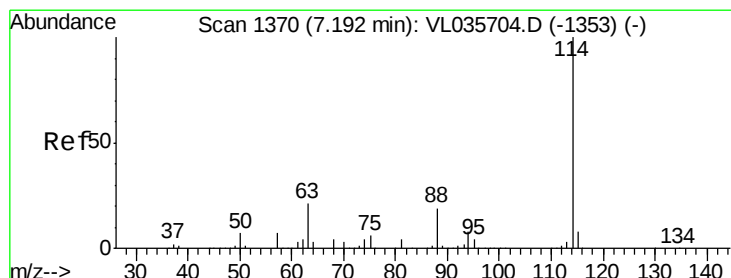
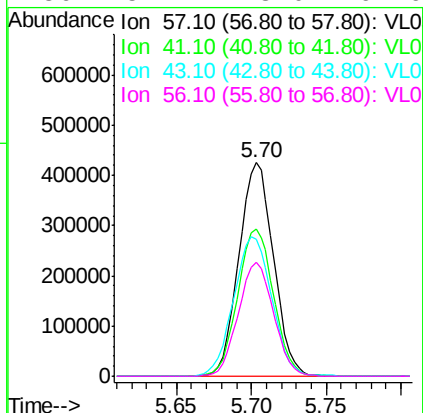
#26
Hexane
Concen: 6.085 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Tot Ion	Ratio	Lower	Upper
57	100		
41	71.4	57.9	86.9
43	72.4	143.8	215.6#
56	54.7	43.0	64.6

Instrument :
MSVOA_L
ClientSampled :
IA1A

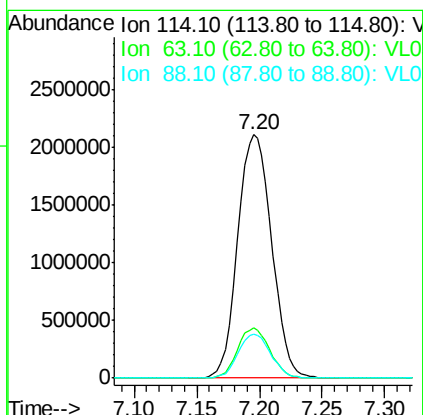
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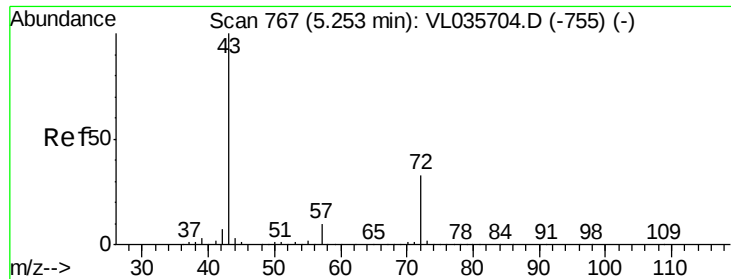
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.8	16.1	24.1
88	17.4	14.1	21.1





#34

2-Butanone

Concen: 0.299 ppbv

RT: 5.27 min Scan# 771

Delta R.T. 0.01 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

Instrument :

MSVOA_L

ClientSampleId :

IA1A

Tot Ion: 43 Resp: 39178

Ion Ratio Lower Upper

43 100

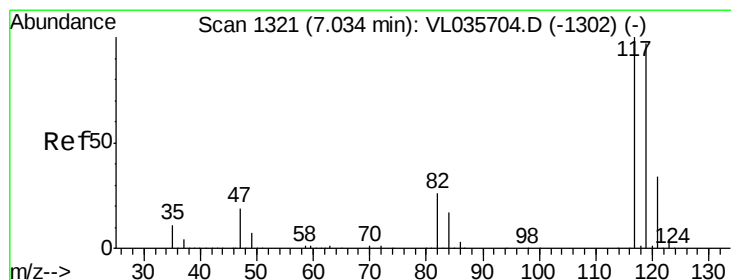
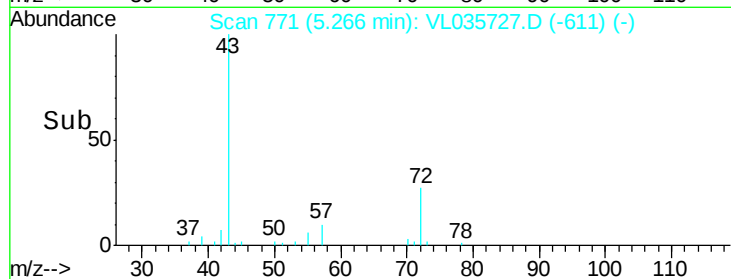
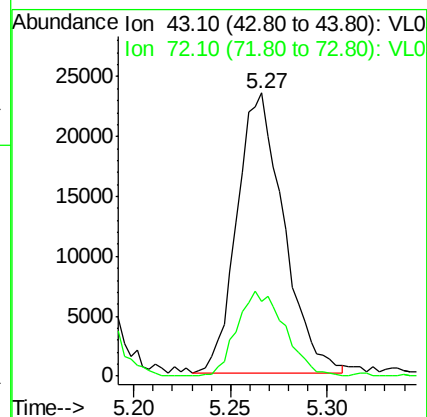
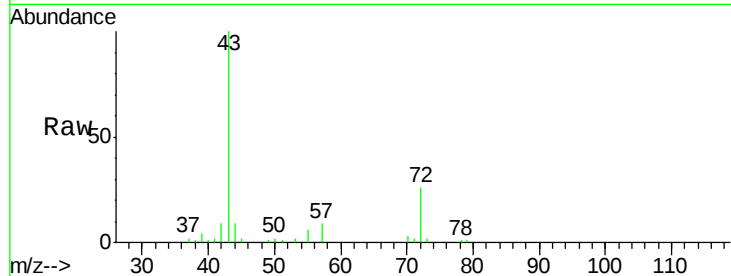
72 31.4 26.1 39.1

Manual Integrations

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9/30/2020 5:32:14 PM



#35

Carbon Tetrachloride

Concen: 0.073 ppbv m

RT: 7.03 min Scan# 1321

Delta R.T. 0.00 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

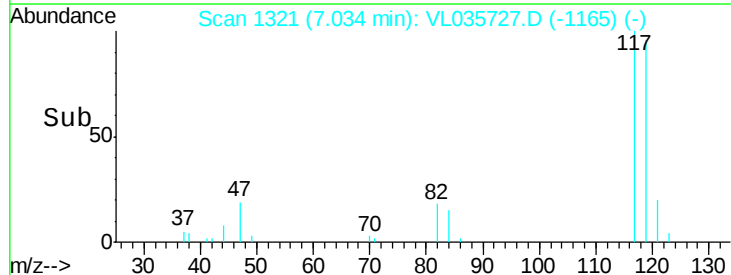
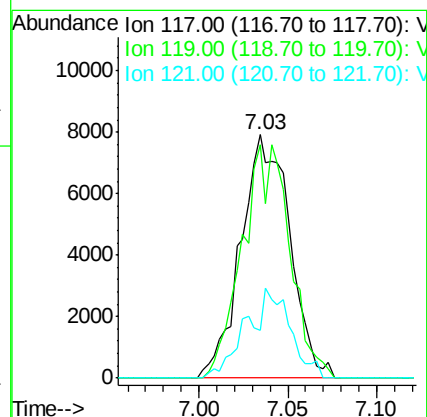
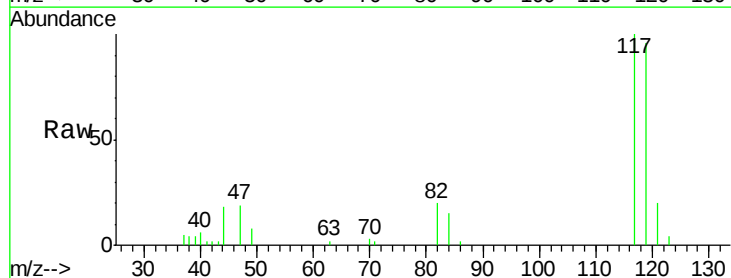
Tgt Ion: 117 Resp: 15108

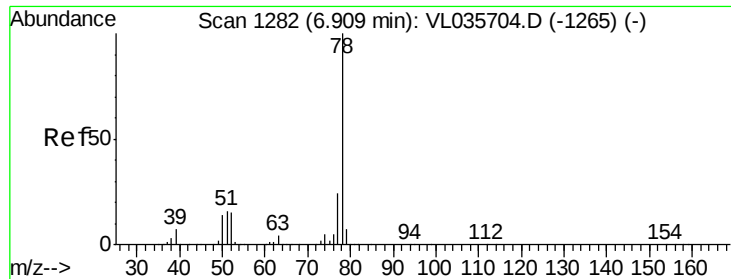
Ion Ratio Lower Upper

117 100

119 96.0 77.7 116.5

121 19.8 26.9 40.3#





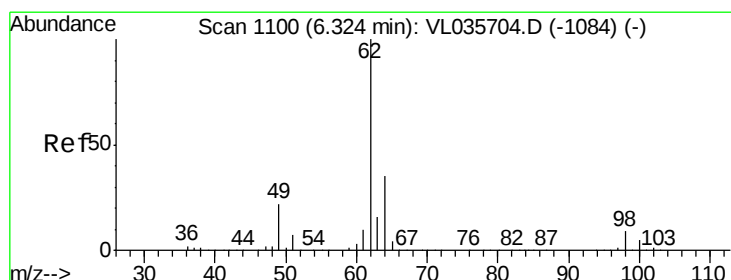
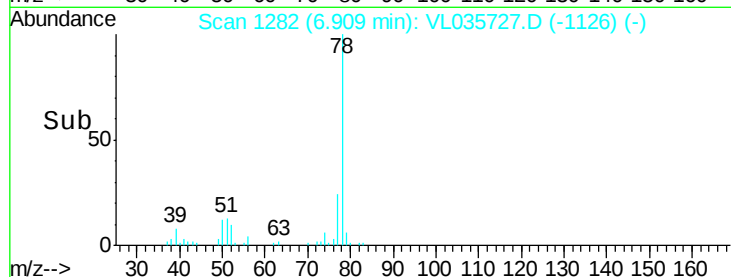
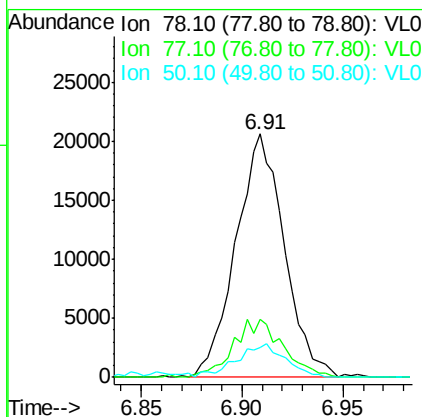
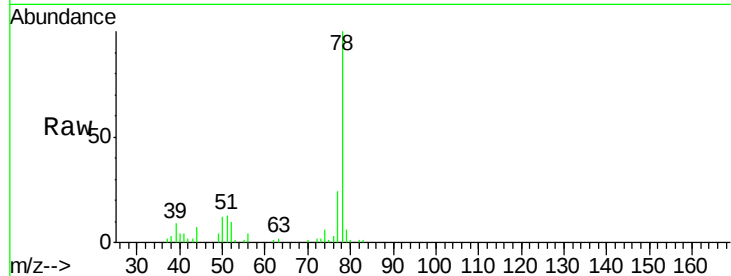
#36
Benzene
Concen: 0.134 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9
50	12.2	11.6	17.4

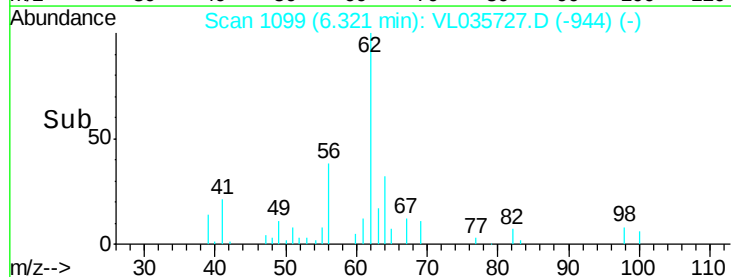
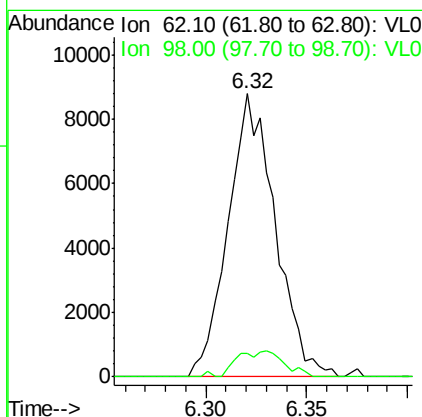
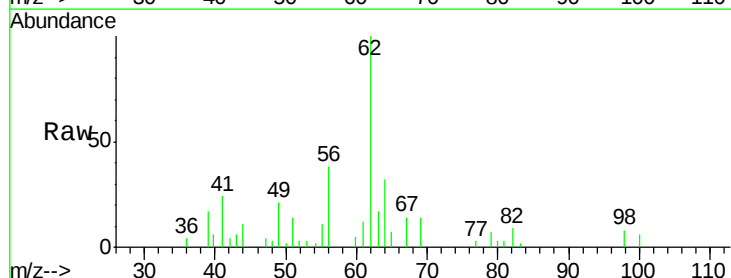
Manual Integrations
APPROVED

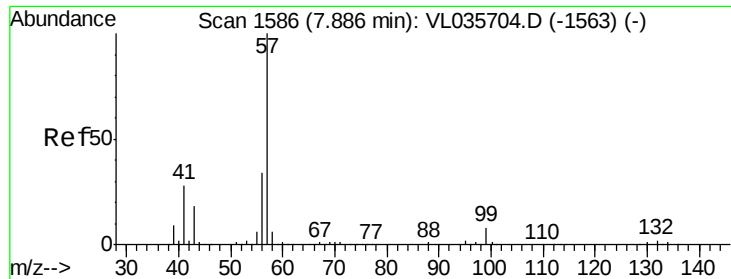
MMDadoda
9/30/2020 5:32:14 PM



#37
1,2-Dichloroethane
Concen: 0.107 ppbv
RT: 6.32 min Scan# 1099
Delta R.T. -0.00 min
Lab File: VL035727.D
Acq: 29 Sep 2020 16:45

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.3	6.9	10.3





#44

2,2,4-Trimethylpentane

Concen: 0.116 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. 0.01 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

Instrument :

MSVOA_L

ClientSampleId :

IA1A

Tot Ion: 57 Resp: 43136

Ion Ratio Lower Upper

57 100

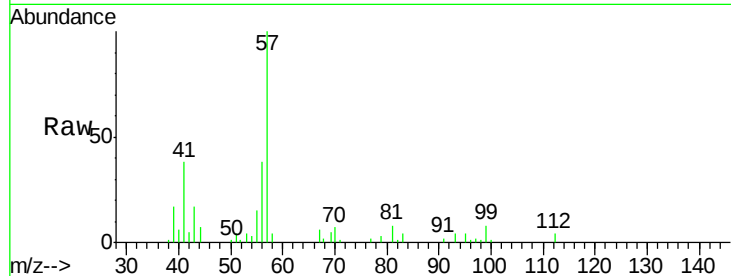
41 42.6 21.2 31.8#

56 41.9 25.8 38.8#

Manual Integrations
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9/30/2020 5:32:14 PM

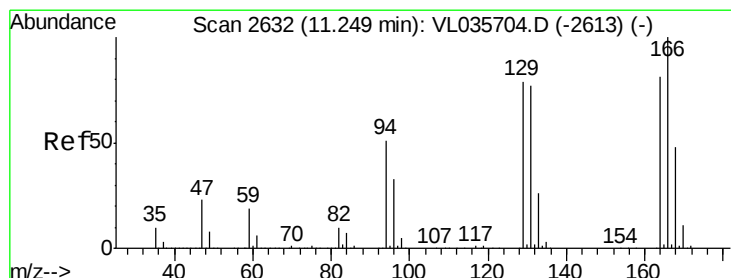
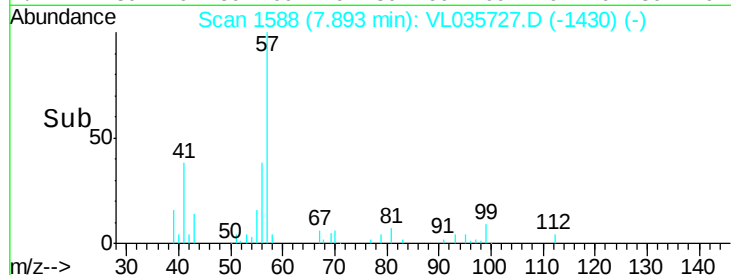
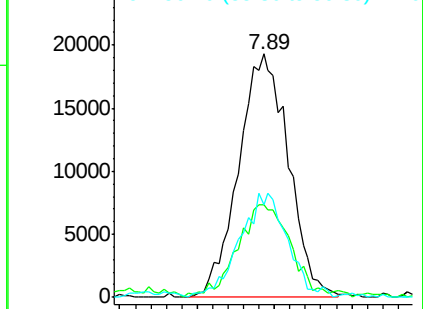


Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 0.174 ppbv m

RT: 11.25 min Scan# 2632

Delta R.T. 0.00 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

Tgt Ion:164 Resp: 21584

Ion Ratio Lower Upper

164 100

166 103.6 98.7 148.1

129 76.0 78.4 117.6#

131 87.2 76.2 114.2

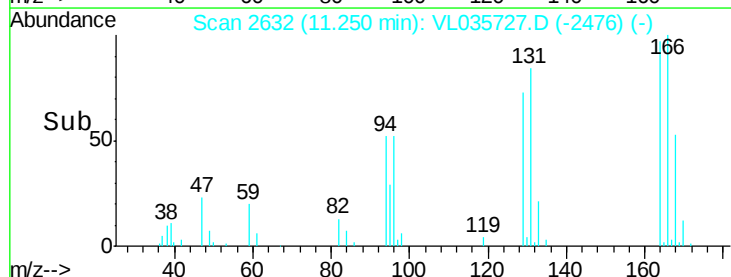
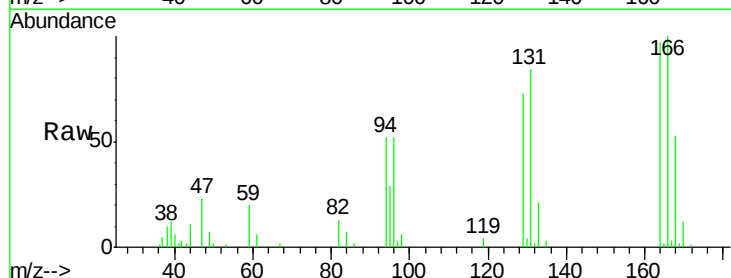
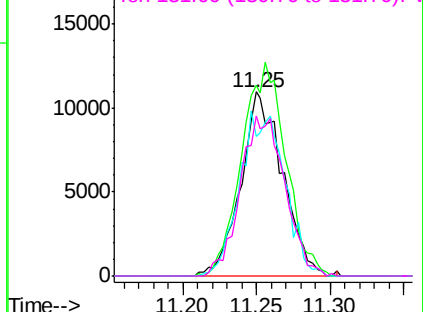
Abundance

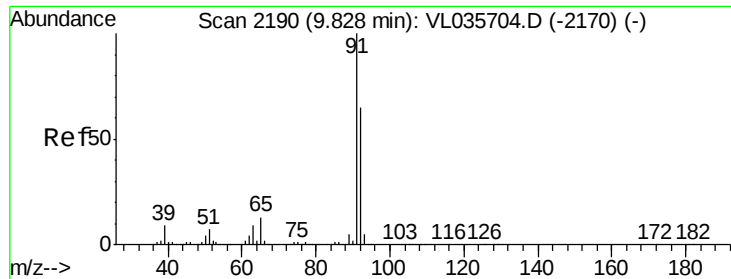
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.672 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.01 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

Instrument :

MSVOA_L

ClientSampleId :

IA1A

Tot Ion: 91 Resp: 204839

Ion Ratio Lower Upper

91 100

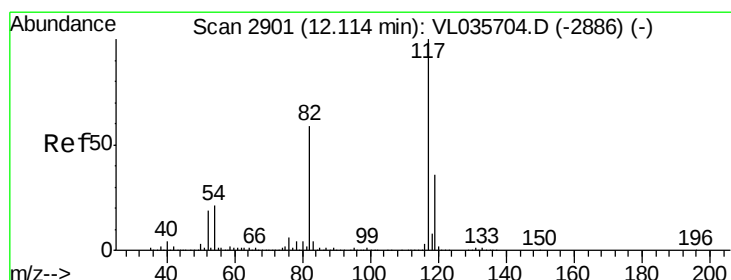
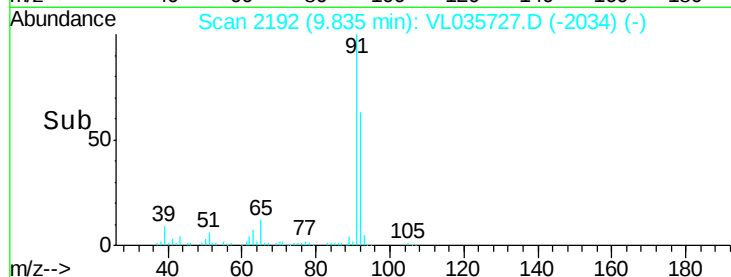
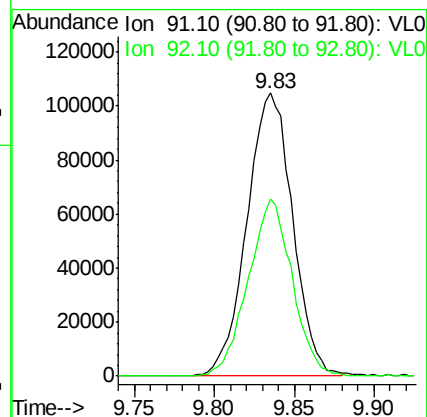
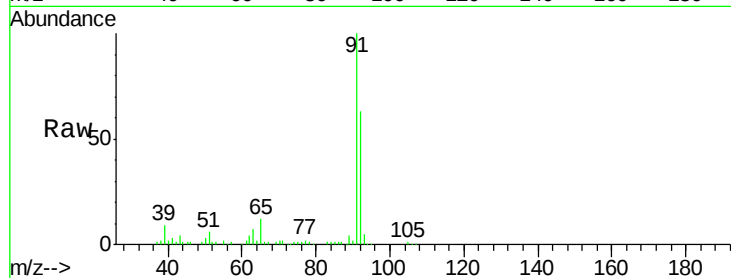
92 60.5 50.0 75.0

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. 0.00 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

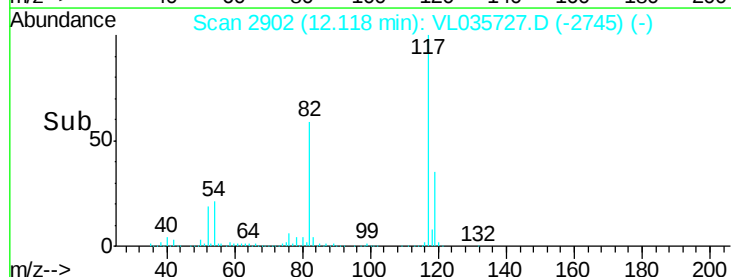
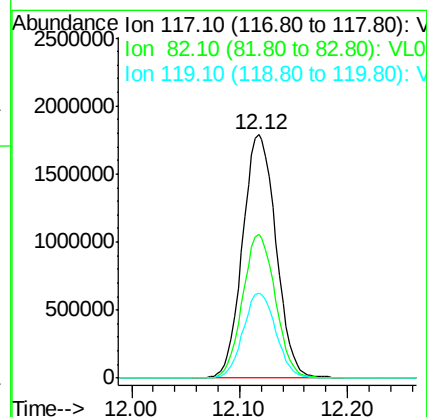
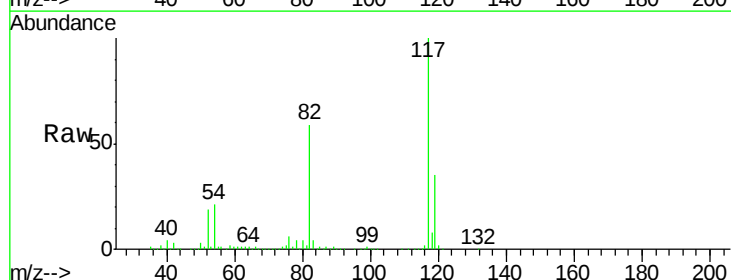
Tgt Ion: 117 Resp: 3865605

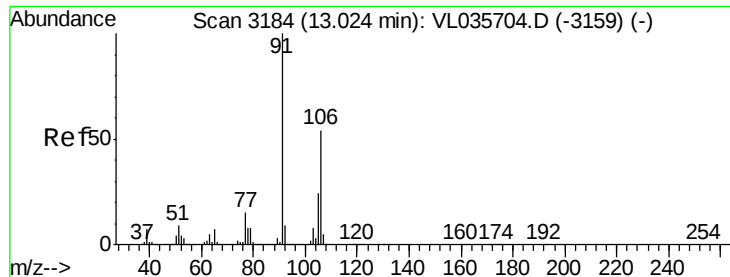
Ion Ratio Lower Upper

117 100

82 58.1 46.1 69.1

119 34.3 28.0 42.0





#59

m/p-Xylene

Concen: 0.105 ppbv m

RT: 13.00 min Scan# 3176

Delta R.T. -0.03 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

Instrument :

MSVOA_L

ClientSampled :

IA1A

Tot Ion: 91 Resp: 35518

Ion Ratio Lower Upper

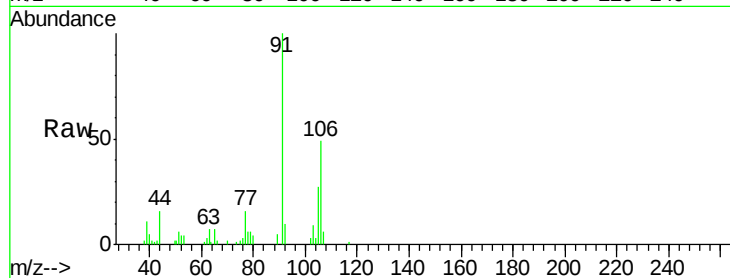
91 100

106 0.0 41.4 62.0#

Manual Integrations
APPROVED

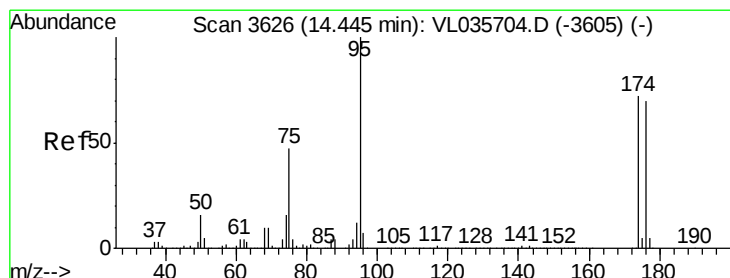
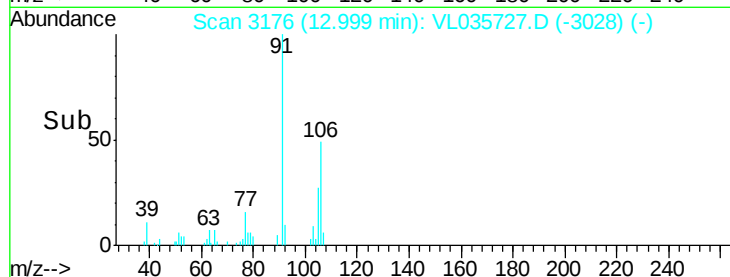
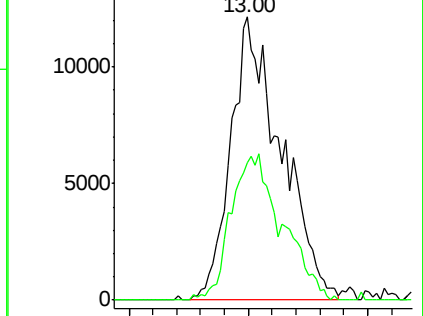
MMDadoda

9/30/2020 5:32:14 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.182 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL035727.D

Acq: 29 Sep 2020 16:45

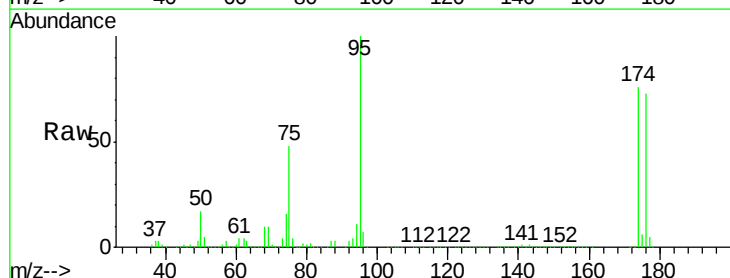
Tgt Ion: 95 Resp: 2949348

Ion Ratio Lower Upper

95 100

174 77.5 59.6 89.4

175 5.5 4.2 6.4



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

