

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036607.D
 Acq On : 31 Mar 2021 18:29
 Operator : SY/AP
 Sample : M1808-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AASG1

Manual Integrations
 APPROVED

MMDadoda
 4/2/2021 6:52:48 PM

Quant Time: Apr 02 15:18:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1498836	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3566396	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3113106	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2417617	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	47371	0.194	ppbv	96
3) Chlorodifluoromethane	2.99	51	66464	0.237	ppbv	92
4) Chloromethane	3.14	50	50522m	0.511	ppbv	
9) Propene	3.02	41	82362m	0.923	ppbv	
10) Heptane	8.13	43	25411m	0.112	ppbv	
11) Trichlorofluoromethane	3.95	101	48836m	0.196	ppbv	
13) Ethanol	3.61	45	1275435	119.972	ppbv	93
15) Acetone	3.86	43	830976m	5.633	ppbv	
19) Isopropyl Alcohol	3.99	45	87082m	1.073	ppbv	
20) Methylene Chloride	4.35	84	2842949	41.161	ppbv	95
26) Hexane	5.69	57	3239770	19.906	ppbv #	46
30) Cyclohexane	7.18	84	33378m	0.253	ppbv	
34) 2-Butanone	5.26	43	53928	0.310	ppbv #	78
35) Carbon Tetrachloride	7.03	117	17146m	0.063	ppbv	
36) Benzene	6.90	78	52063m	0.158	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	61555m	0.106	ppbv	
53) Toluene	9.82	91	246257m	0.703	ppbv	
59) m/p-Xylene	12.98	91	75107m	0.190	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	57444m	0.137	ppbv	

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

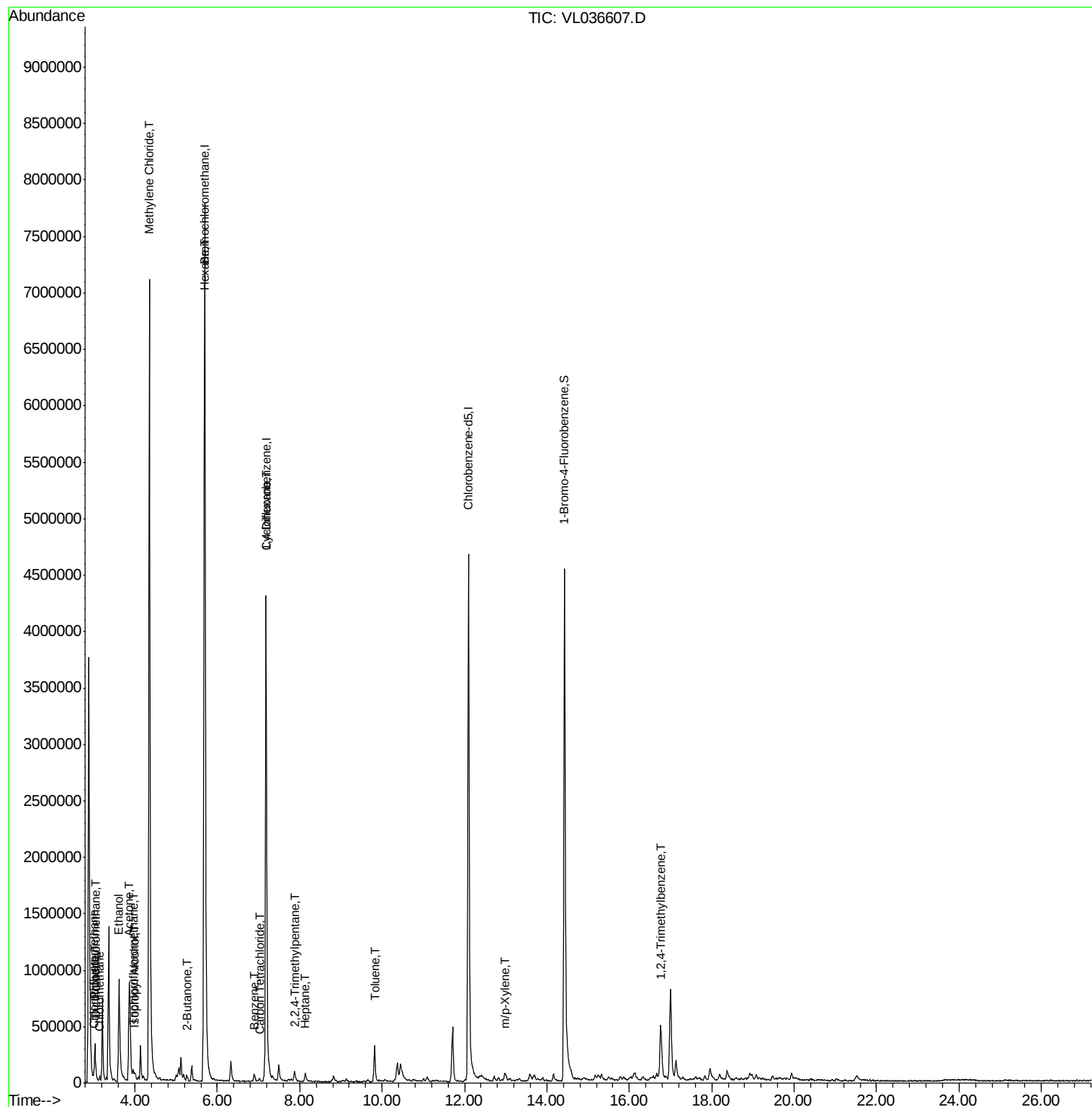
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033121\
Data File : VL036607.D
Acq On : 31 Mar 2021 18:29
Operator : SY/AP
Sample : M1808-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

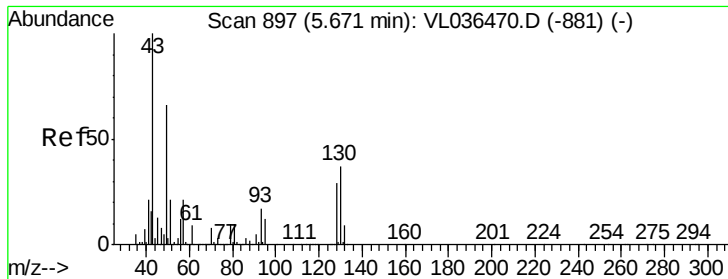
Instrument :
MSVOA_L
ClientSampleId :
AASG1

Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:48 PM

Quant Time: Apr 02 15:18:31 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

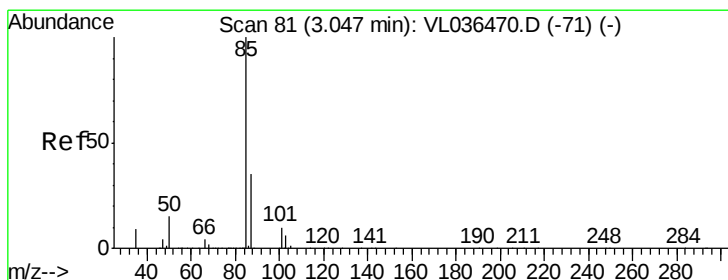
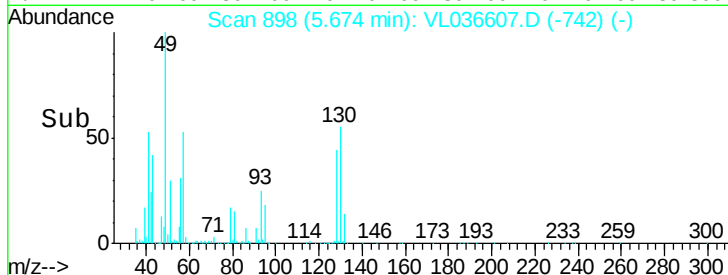
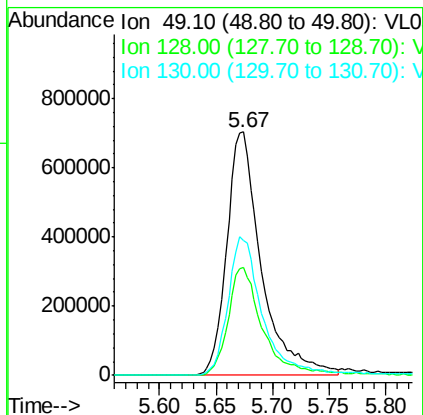
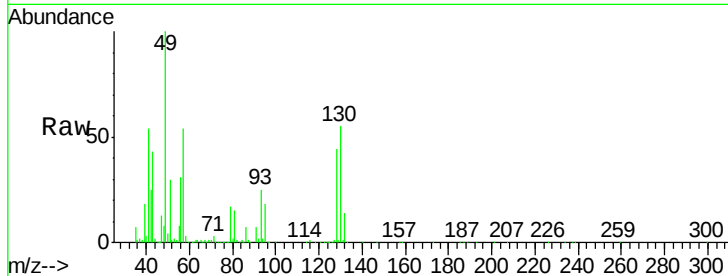
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Instrument :
MSVOA_L
ClientSampleId :
AASG1

Tot Ion: 49 Resp: 1498836
Ion Ratio Lower Upper
49 100
128 45.2 23.5 70.6
130 58.3 29.1 87.4

Manual Integrations
APPROVED

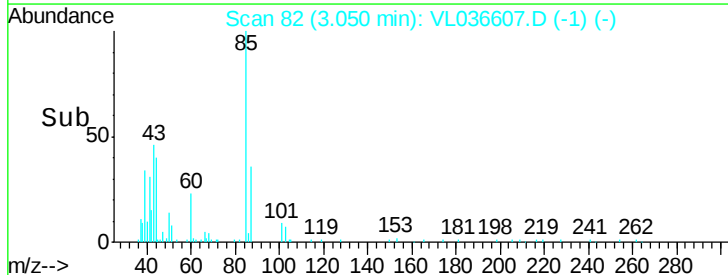
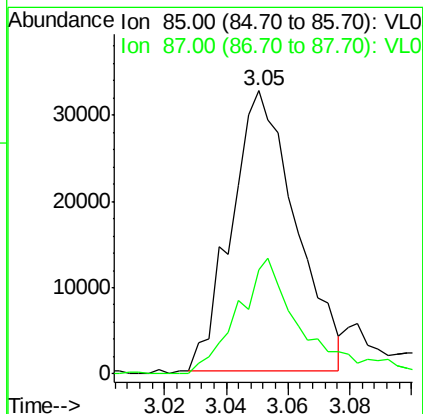
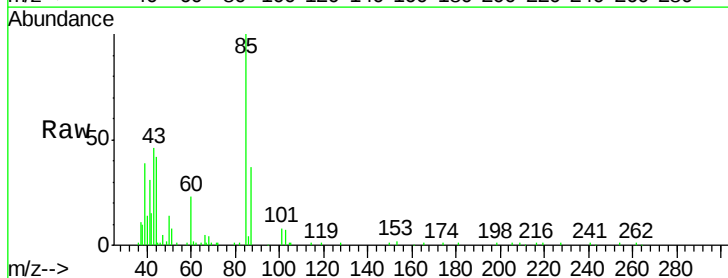
MMDadoda
4/2/2021 6:52:48 PM



#2

Dichlorodifluoromethane
Concen: 0.194 ppbv
RT: 3.05 min Scan# 82
Delta R.T. 0.00 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion: 85 Resp: 47371
Ion Ratio Lower Upper
85 100
87 37.0 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.237 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

ClientSampleId :

AASG1

Tot Ion: 51 Resp: 66464

Ion Ratio Lower Upper

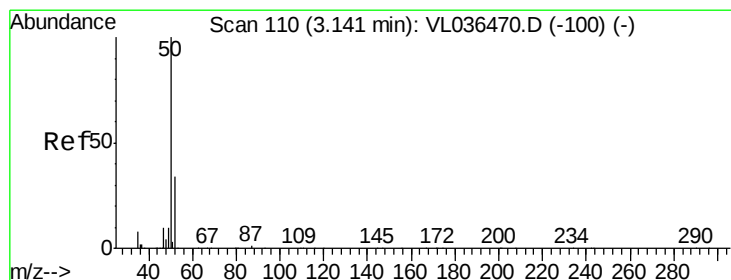
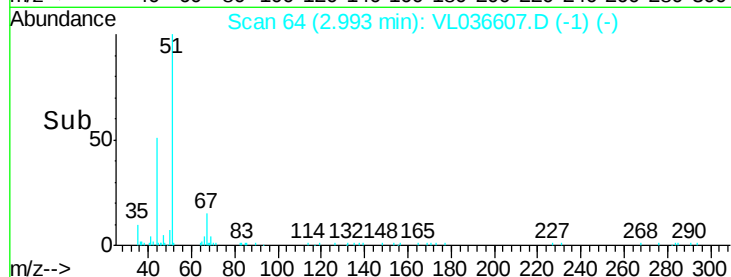
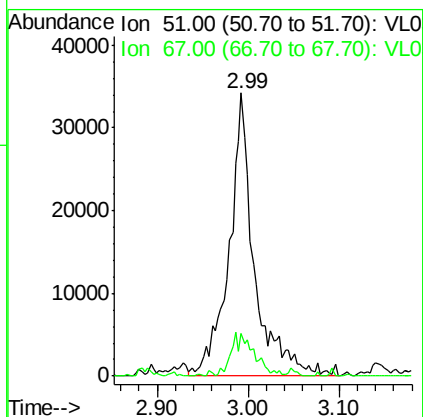
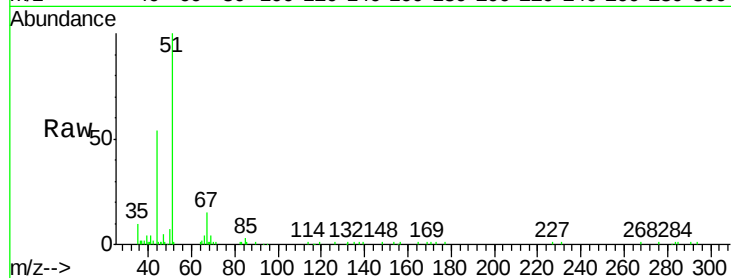
51 100

67 14.9 14.7 22.1

Manual Integrations
APPROVED

MMDadoda

4/2/2021 6:52:48 PM



#4

Chloromethane

Concen: 0.511 ppbv m

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036607.D

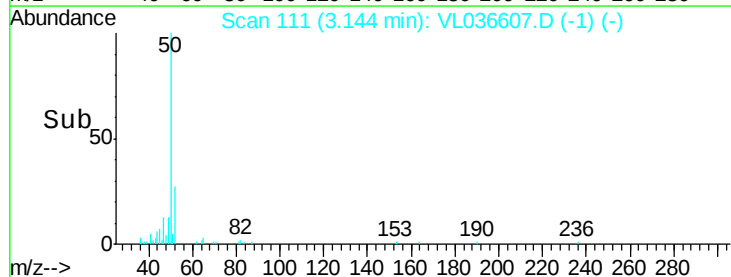
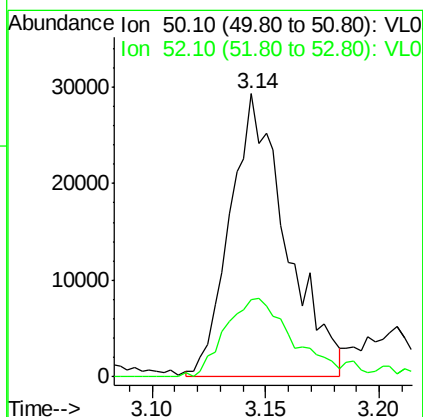
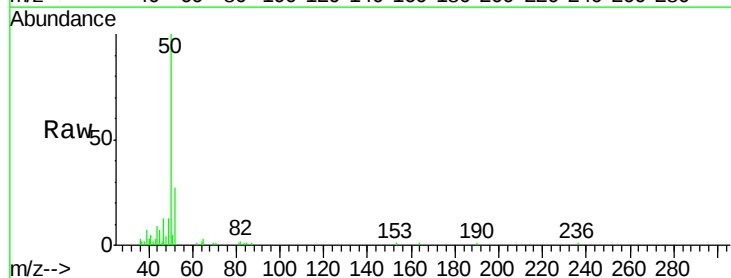
Acq: 31 Mar 2021 18:29

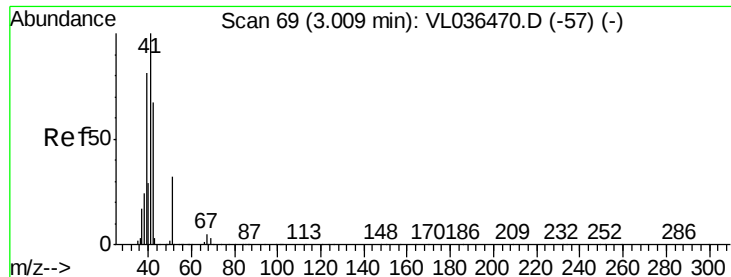
Tgt Ion: 50 Resp: 50522

Ion Ratio Lower Upper

50 100

52 27.2 27.0 40.6





#9

Propene

Concen: 0.923 ppbv m

RT: 3.02 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

ClientSampleId :

AASG1

Tot Ion: 41 Resp: 82362

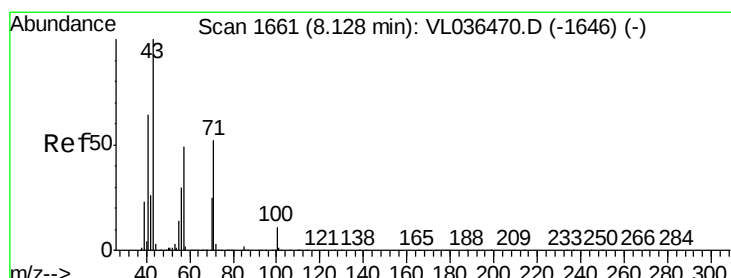
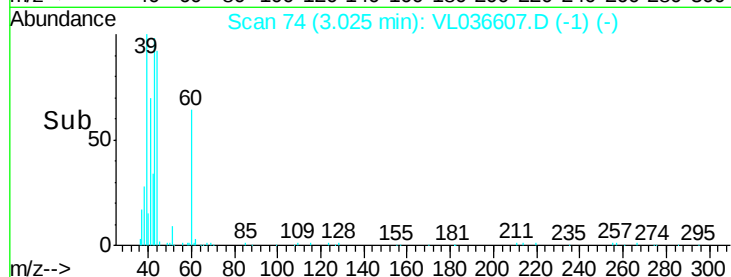
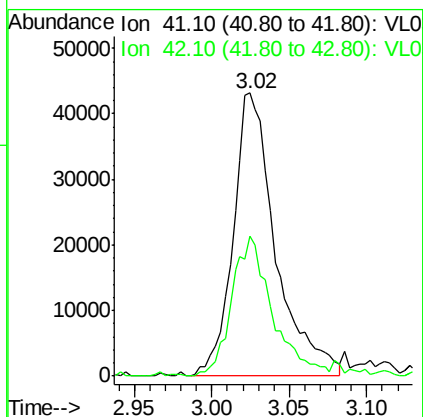
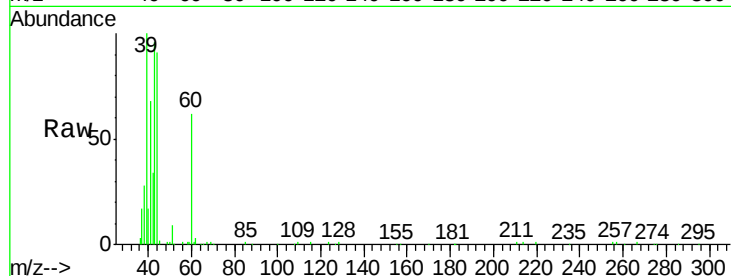
Ion Ratio Lower Upper

41 100

42 208.8 57.0 85.4#

Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:48 PM



#10

Heptane

Concen: 0.112 ppbv m

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL036607.D

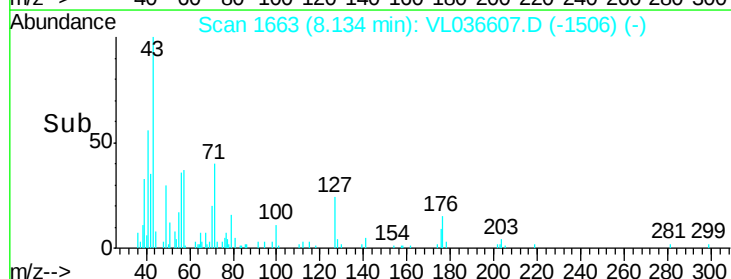
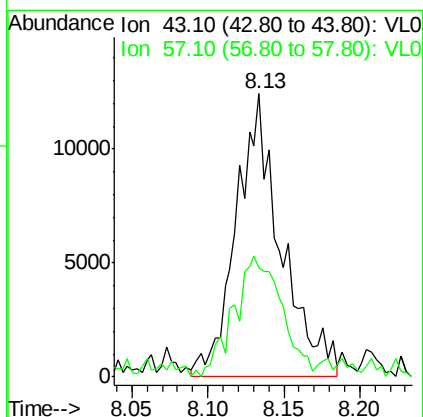
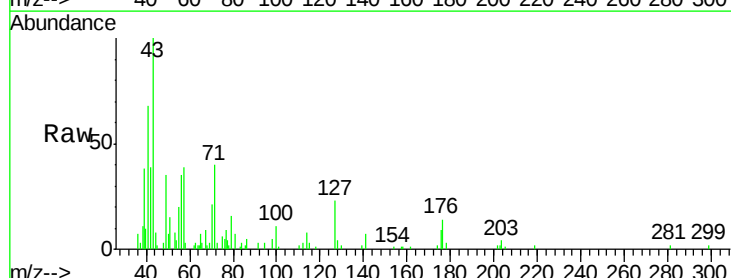
Acq: 31 Mar 2021 18:29

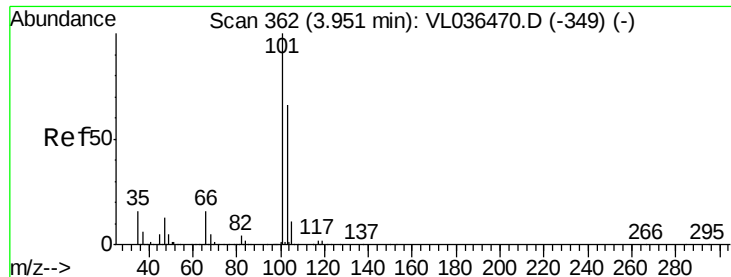
Tgt Ion: 43 Resp: 25411

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#





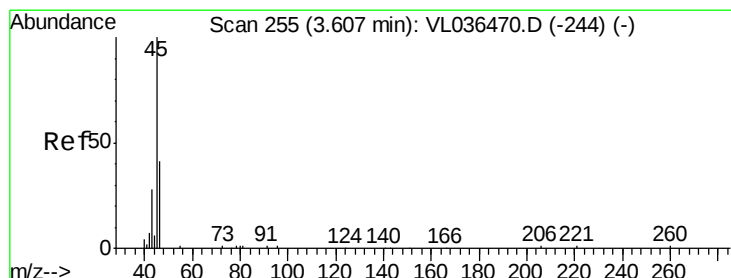
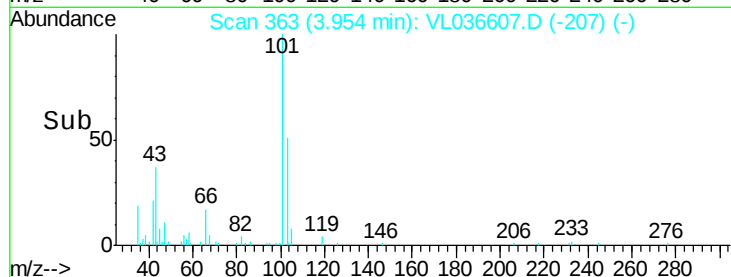
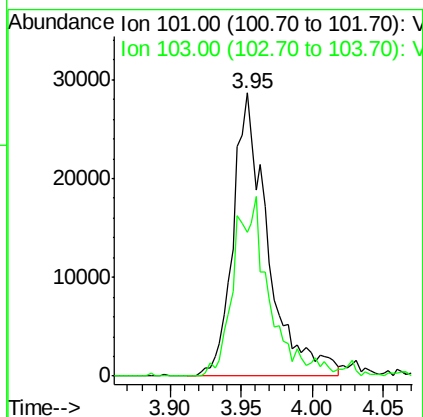
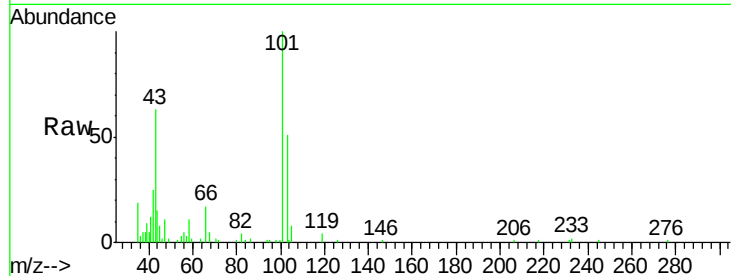
#11
Trichlorofluoromethane
Concen: 0.196 ppbv m
RT: 3.95 min Scan# 363
Delta R.T. 0.00 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Instrument :
MSVOA_L
ClientSampleId :
AASG1

Tot Ion:101 Resp: 48836
Ion Ratio Lower Upper
101 100
103 51.1 52.5 78.7#

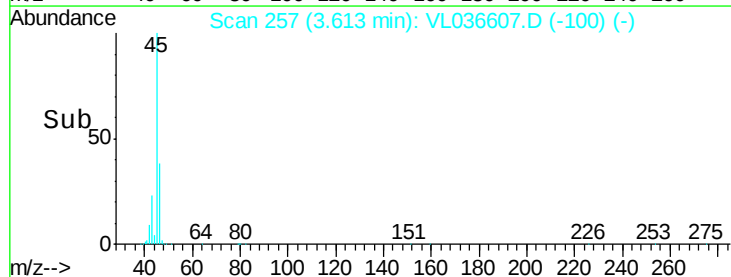
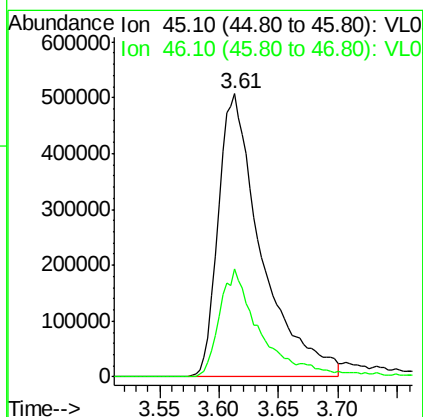
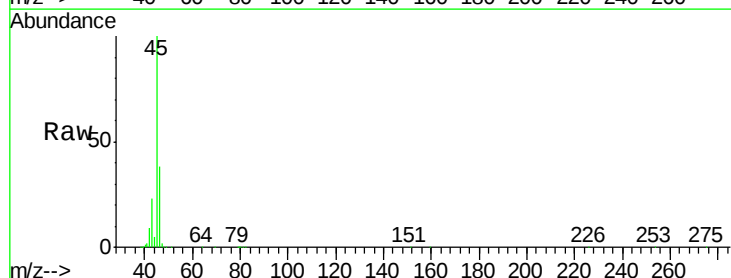
Manual Integrations
APPROVED

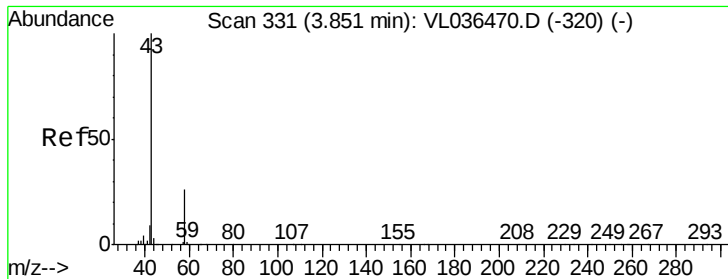
MMDadoda
4/2/2021 6:52:48 PM



#13
Ethanol
Concen: 119.972 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion: 45 Resp: 1275435
Ion Ratio Lower Upper
45 100
46 36.9 16.6 66.2





#15

Acetone

Concen: 5.633 ppbv m

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

ClientSampleId :

AASG1

Tot Ion: 43 Resp: 830976

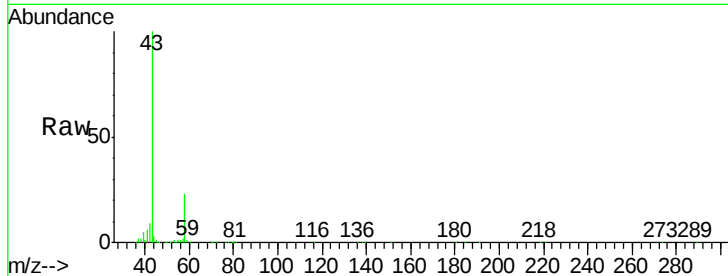
Ion Ratio Lower Upper

43 100

58 39.0 21.2 31.8#

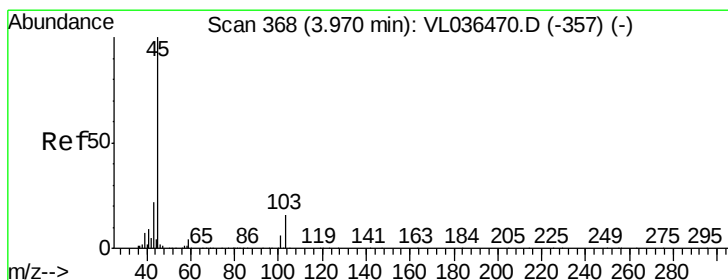
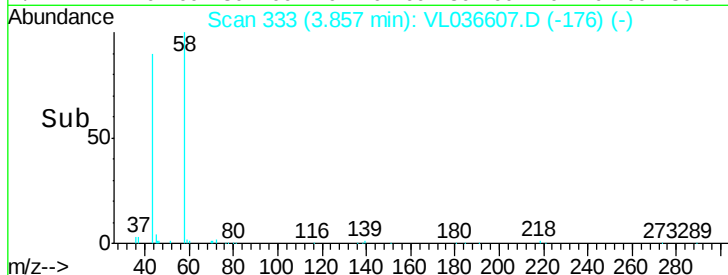
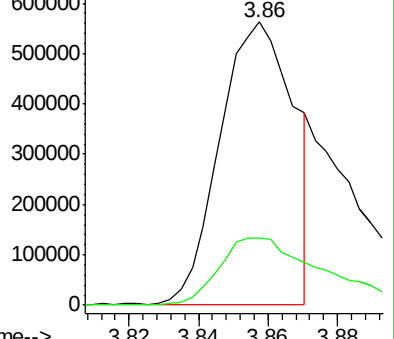
Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:48 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 1.073 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036607.D

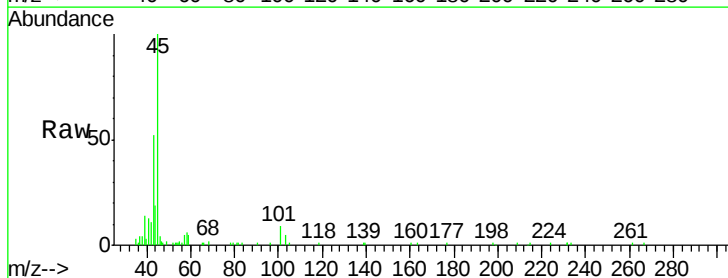
Acq: 31 Mar 2021 18:29

Tgt Ion: 45 Resp: 87082

Ion Ratio Lower Upper

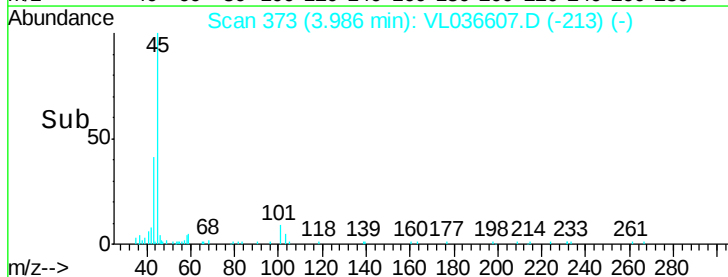
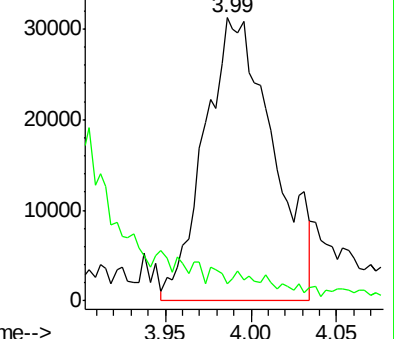
45 100

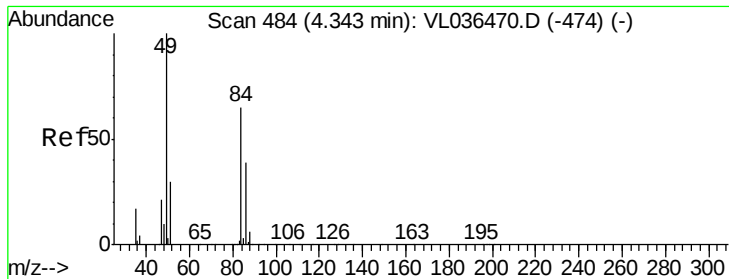
58 0.0 2.9 4.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20
Methvlene Chloride
Concen: 41.161 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

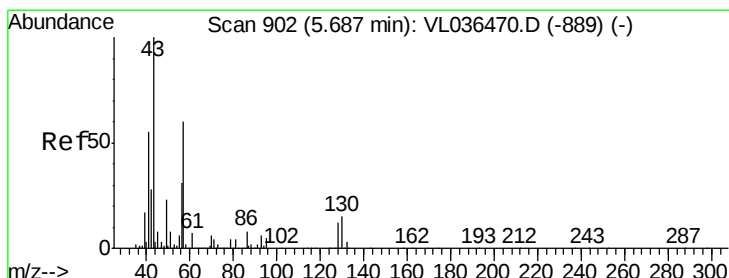
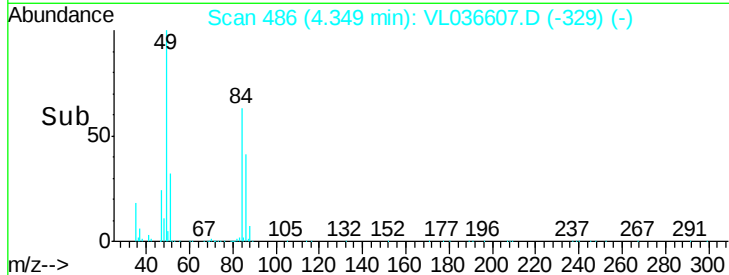
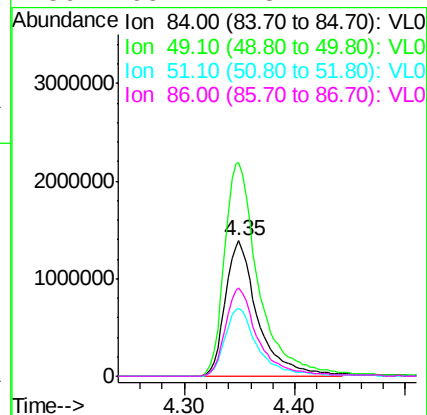
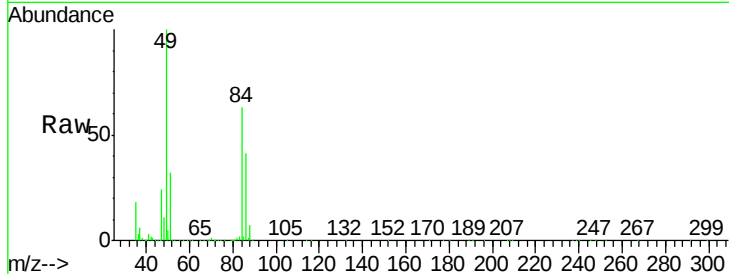
Instrument :
MSVOA_L
ClientSampleId :
AASG1

Tot Ion: 84 Resp: 2842949

Ion	Ratio	Lower	Upper
84	100		
49	158.1	122.9	184.3
51	50.2	36.9	55.3
86	65.1	48.2	72.4

Manual Integrations
APPROVED

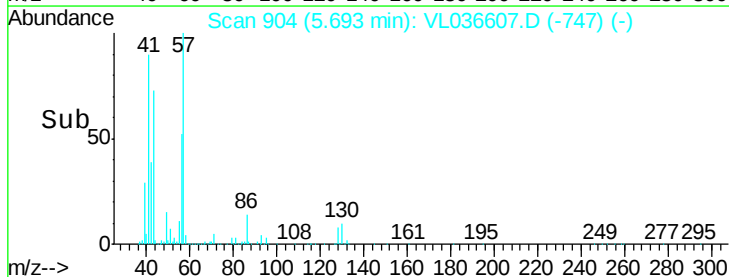
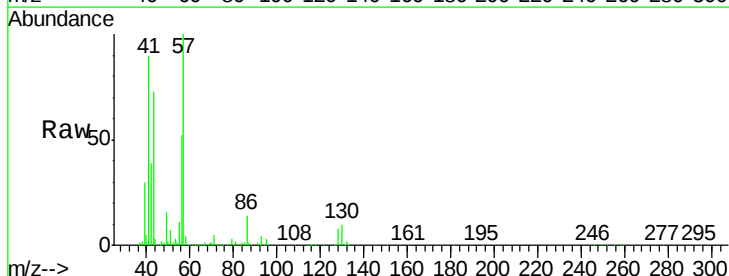
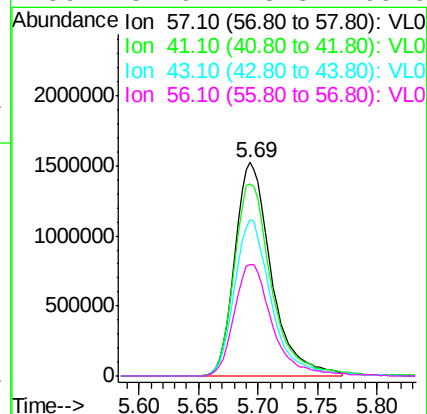
MMDadoda
4/2/2021 6:52:48 PM

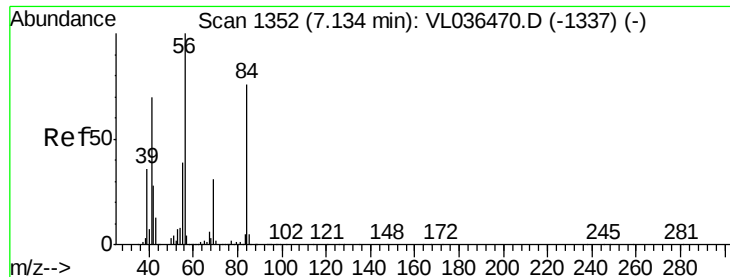


#26
Hexane
Concen: 19.906 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion: 57 Resp: 3239770

Ion	Ratio	Lower	Upper
57	100		
41	93.7	77.2	115.8
43	74.3	173.8	260.6#
56	54.9	43.8	65.6





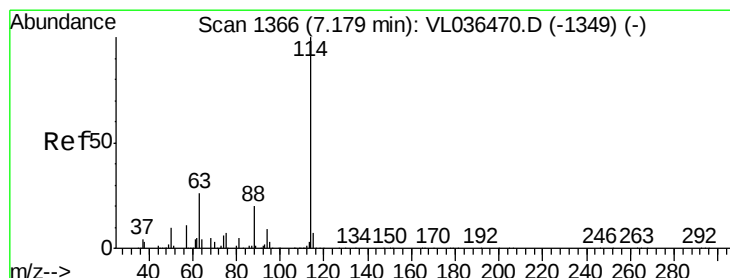
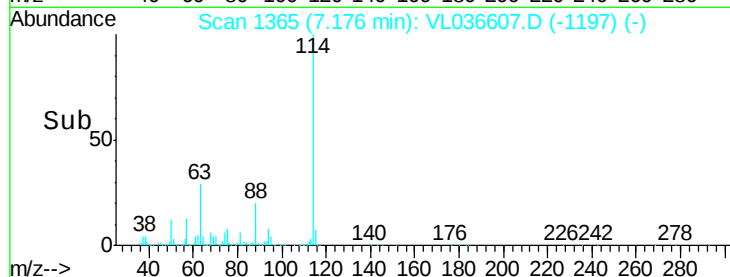
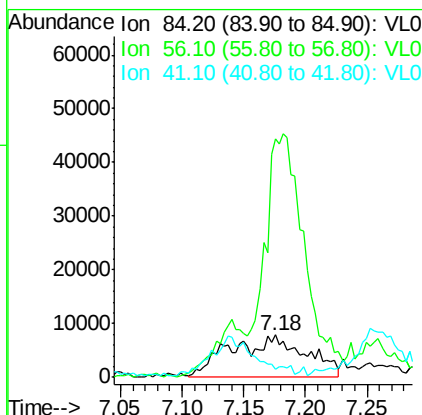
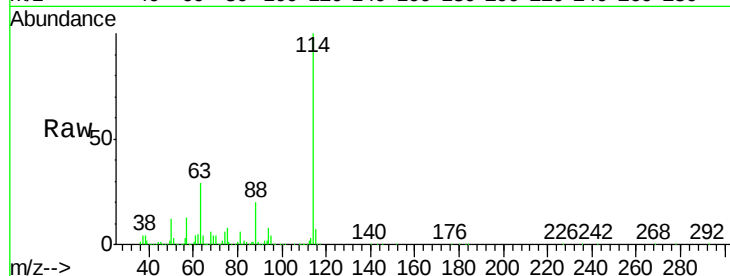
#30
Cvclohexane
Concen: 0.253 ppbv m
RT: 7.18 min Scan# 1365
Delta R.T. 0.04 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Instrument :
MSVOA_L
ClientSampleId :
AASG1

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	59.0	75.3	112.9#

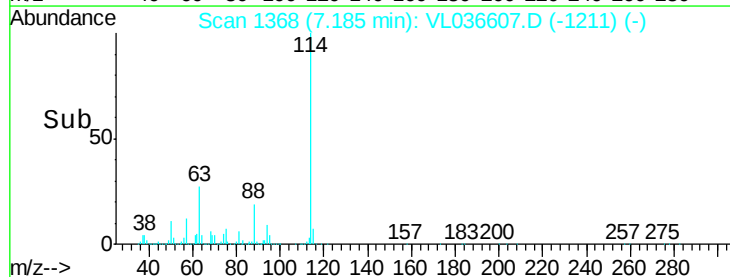
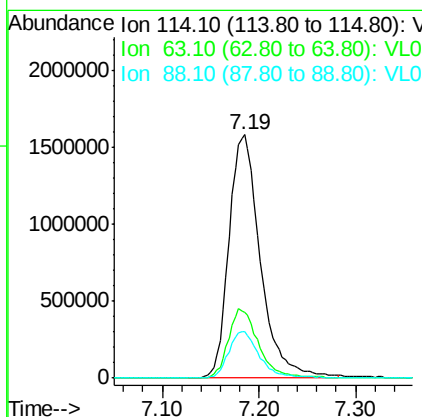
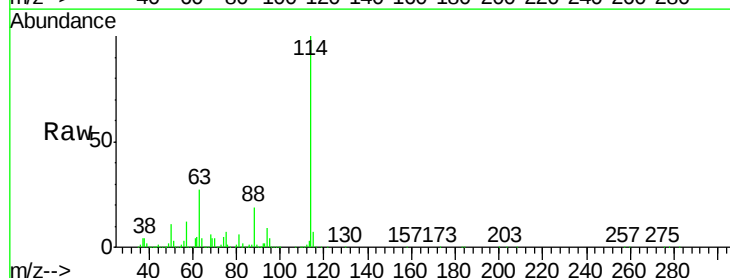
Manual Integrations
APPROVED

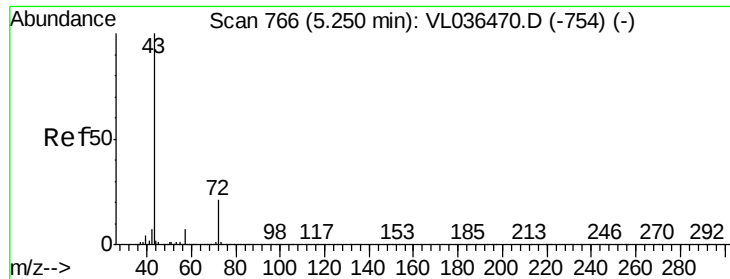
MMDadoda
4/2/2021 6:52:48 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	18.9	15.4	23.0





#34

2-Butanone

Concen: 0.310 ppbv

RT: 5.26 min Scan# 769

Delta R.T. 0.01 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

ClientSampleId :

AASG1

Tot Ion: 43 Resp: 53928

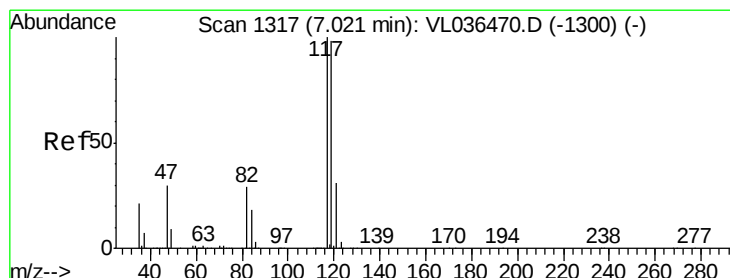
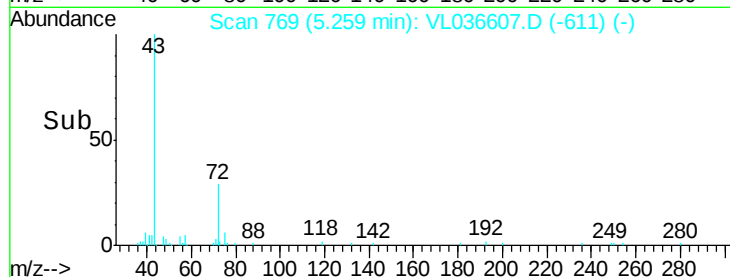
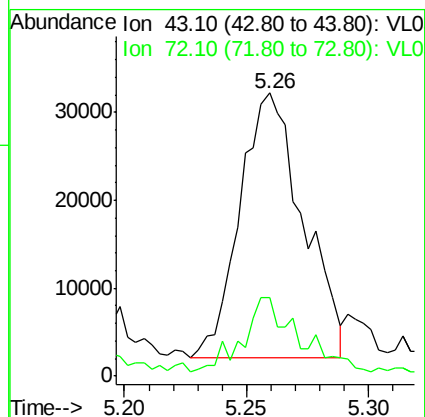
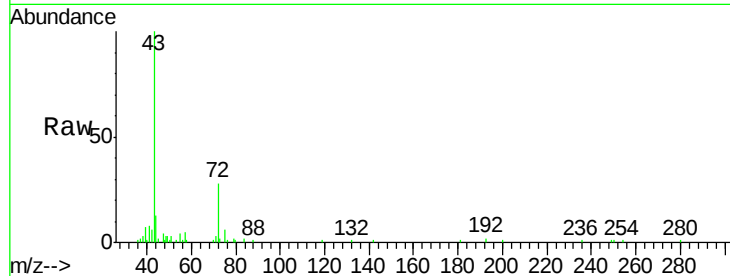
Ion Ratio Lower Upper

43 100

72 31.7 17.0 25.6#

Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:48 PM



#35

Carbon Tetrachloride

Concen: 0.063 ppbv m

RT: 7.03 min Scan# 1319

Delta R.T. 0.01 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

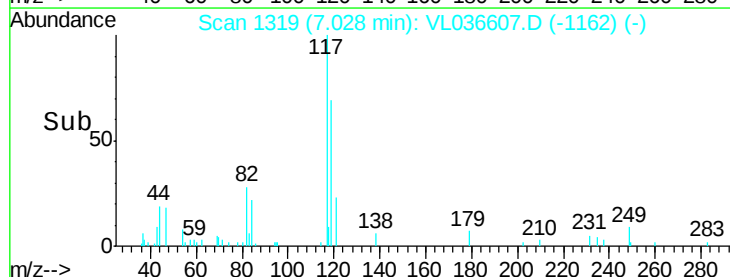
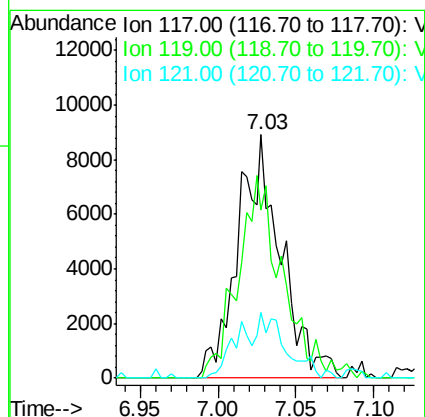
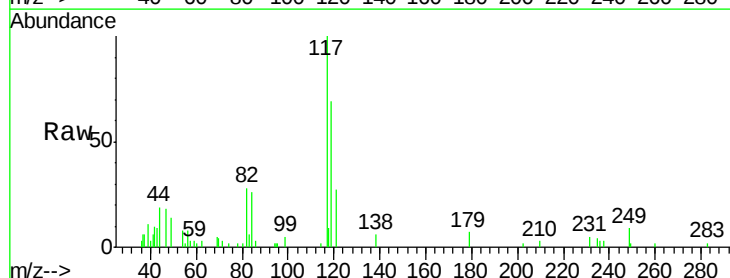
Tgt Ion: 117 Resp: 17146

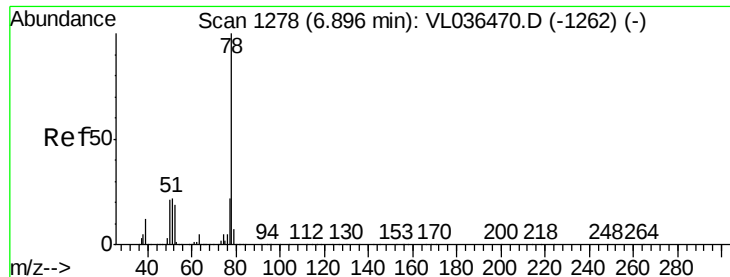
Ion Ratio Lower Upper

117 100

119 68.9 78.2 117.2#

121 27.0 24.5 36.7





#36

Benzene

Concen: 0.158 ppbv m

RT: 6.90 min Scan# 1280

Delta R.T. 0.01 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

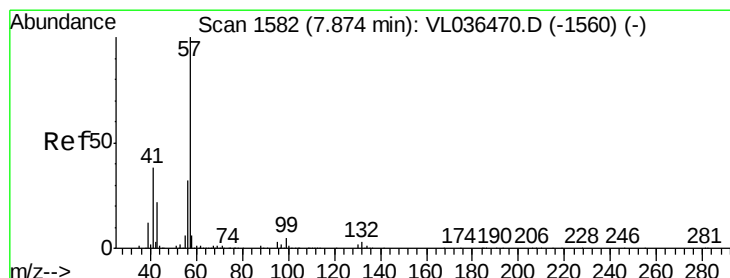
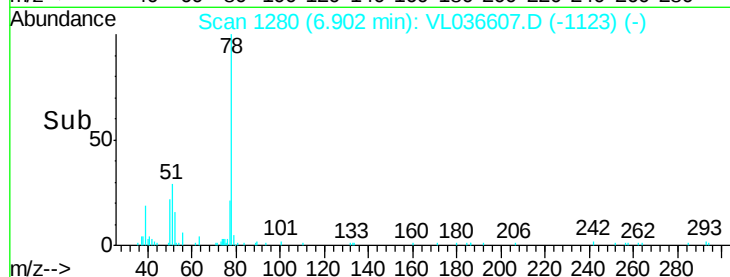
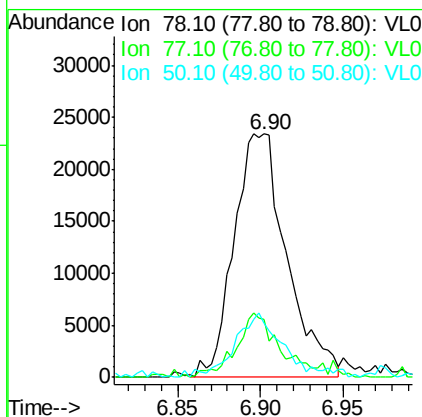
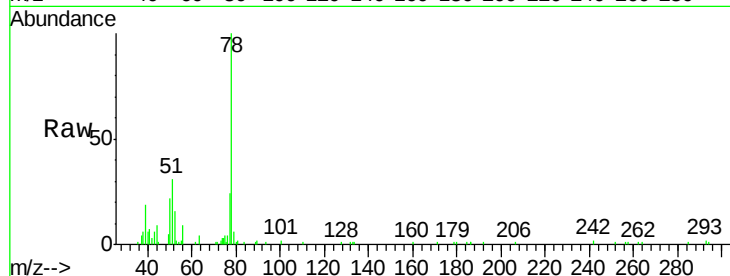
ClientSampleId :

AASG1

Tot Ion:	78	Resp:	52063
Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.0	27.0
50	22.1	16.5	24.7

Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:48 PM



#44

2,2,4-Trimethylpentane

Concen: 0.106 ppbv m

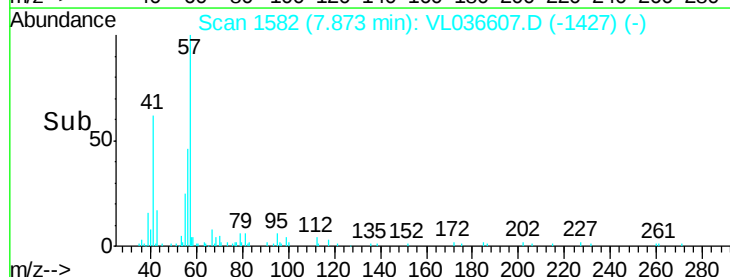
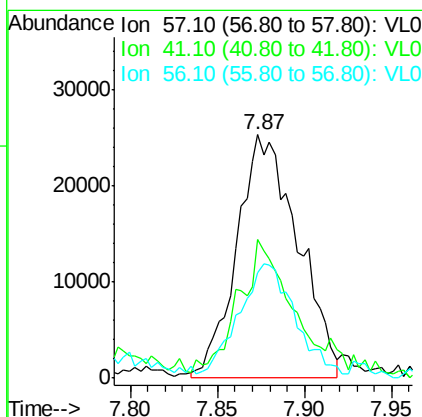
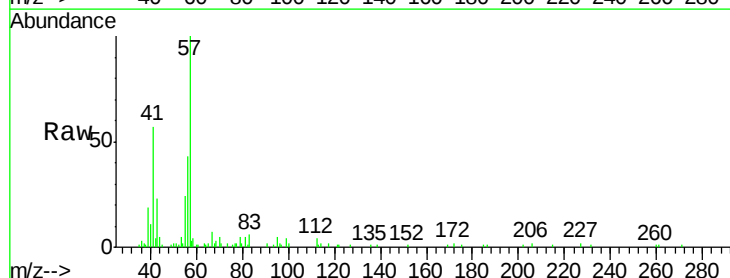
RT: 7.87 min Scan# 1582

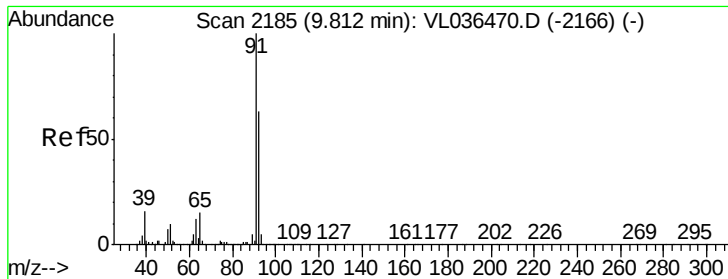
Delta R.T. -0.00 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Tgt Ion:	57	Resp:	61555
Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.8	43.2#
56	47.4	26.1	39.1#





#53

Toluene

Concen: 0.703 ppbv m

RT: 9.82 min Scan# 2187

Delta R.T. 0.01 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

ClientSampled :

AASG1

Tot Ion: 91 Resp: 246257

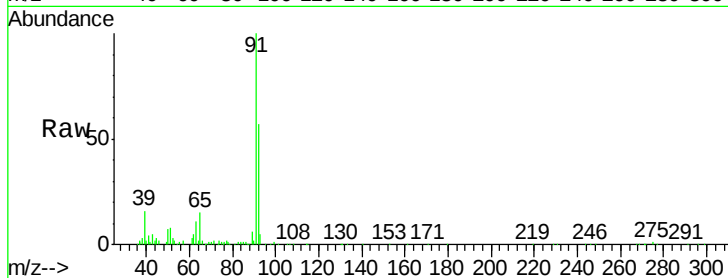
Ion Ratio Lower Upper

91 100

92 62.2 48.8 73.2

Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:48 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

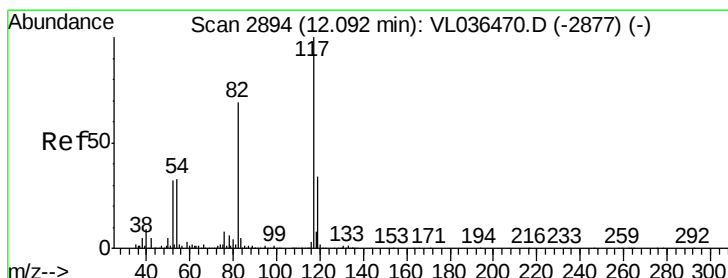
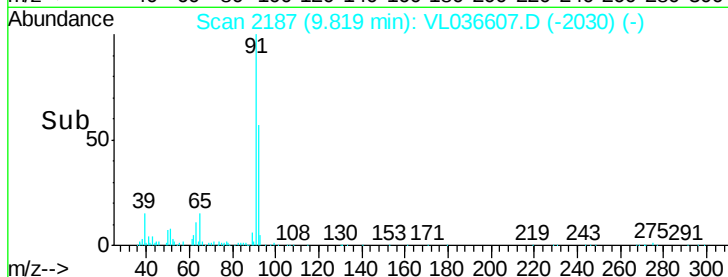
9.82

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

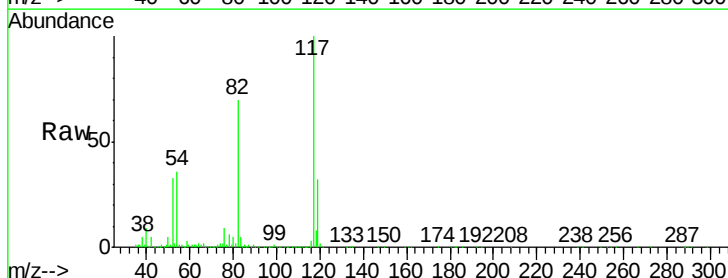
Tgt Ion: 117 Resp: 3113106

Ion Ratio Lower Upper

117 100

82 71.4 57.4 86.0

119 33.7 47.4 71.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

12.10

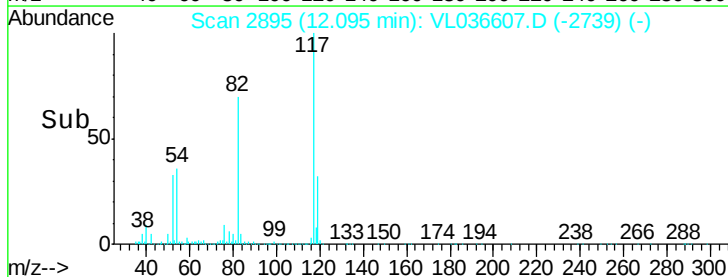
1500000

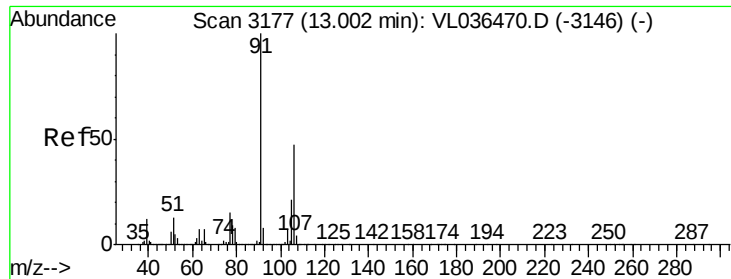
1000000

500000

0

Time-->





#59

m/p-Xylene

Concen: 0.190 ppbv m

RT: 12.98 min Scan# 3171

Delta R.T. -0.02 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

ClientSampled :

AASG1

Tot Ion: 91 Resp: 75107

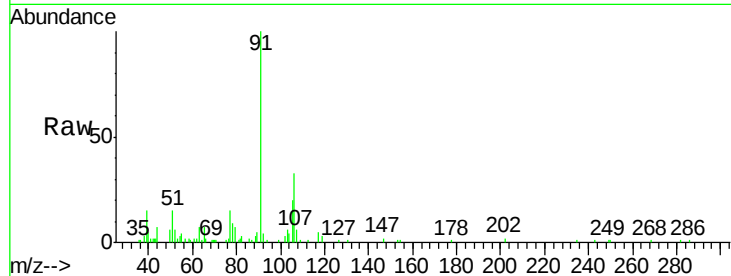
Ion Ratio Lower Upper

91 100

106 45.8 35.3 52.9

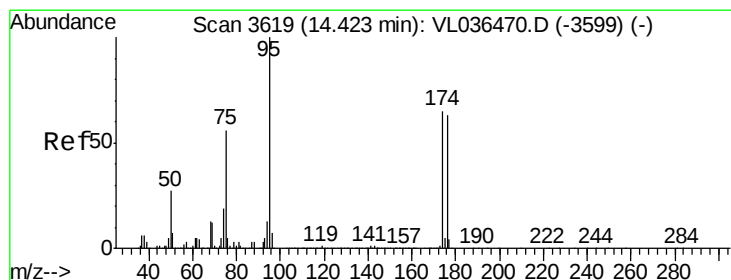
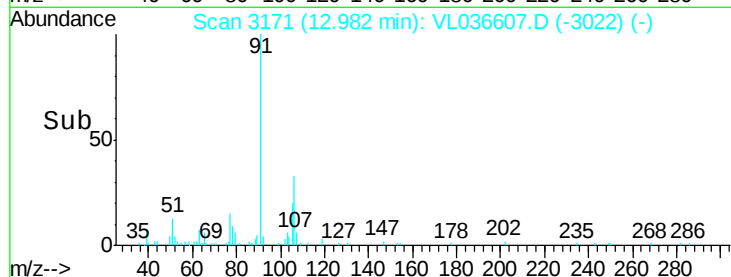
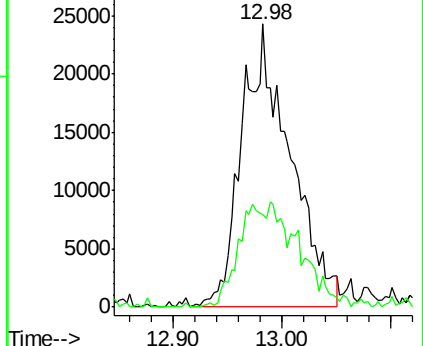
Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:52:48 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: 9.744 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

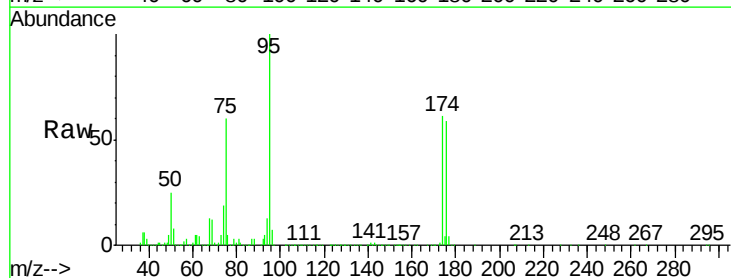
Tgt Ion: 95 Resp: 2417617

Ion Ratio Lower Upper

95 100

174 65.4 51.0 76.6

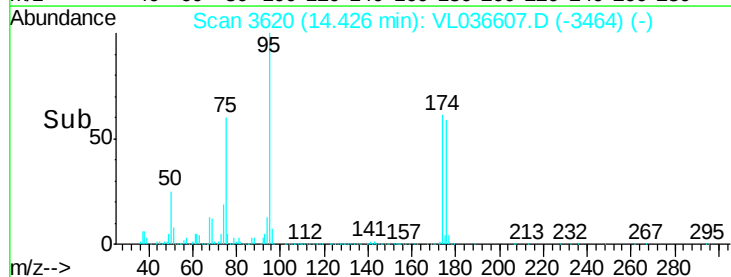
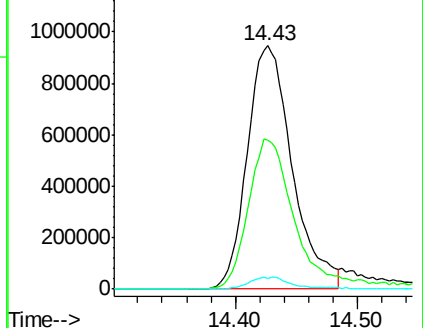
175 4.8 3.9 5.9

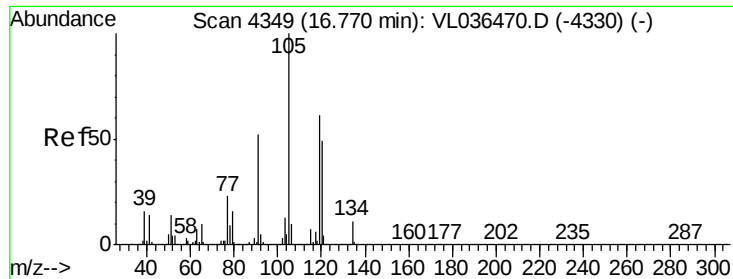


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.137 ppbv m
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.00 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 AASG1

Tot Ion:	105	Resp:	57444
Ion Ratio	Lower	Upper	
105	100		
120	40.4	39.2	58.8
91	13.3	42.6	64.0#
77	28.9	18.6	28.0#

Manual Integrations
 APPROVED

MMDadoda
 4/2/2021 6:52:48 PM

