

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037808.D
 Acq On : 7 Oct 2021 23:02
 Operator : SY/AP
 Sample : M4079-14
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P08

Manual Integrations
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 10/14/2021 1:19:27 PM

Quant Time: Oct 08 11:06:34 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1168763	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3617698	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3036242	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2110379	9.94	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	26039	0.139	ppbv	96
3) Chlorodifluoromethane	2.98	51	91396	0.407	ppbv #	91
4) Chloromethane	3.13	50	15058m	0.183	ppbv	
9) Propene	3.01	41	44081m	0.533	ppbv	
11) Trichlorofluoromethane	3.94	101	38885m	0.233	ppbv	
13) Ethanol	3.59	45	274551	40.629	ppbv	83
15) Acetone	3.86	43	469595	4.476	ppbv #	72
19) Isopropyl Alcohol	3.96	45	63155m	0.968	ppbv	
20) Methylene Chloride	4.33	84	213064m	4.019	ppbv	
26) Hexane	5.67	57	156863	1.082	ppbv #	44
29) Chloroform	5.74	83	312856	1.510	ppbv	95
34) 2-Butanone	5.24	43	41411m	0.284	ppbv	
35) Carbon Tetrachloride	7.00	117	6439m	0.031	ppbv	
36) Benzene	6.87	78	48196m	0.156	ppbv	
44) 2,2,4-Trimethylpentane	7.85	57	59758m	0.115	ppbv	
52) Tetrachloroethene	11.21	164	2582718	21.483	ppbv	96
53) Toluene	9.79	91	127612	0.373	ppbv	96
58) Ethyl Benzene	12.69	91	58798m	0.144	ppbv	
59) m/p-Xylene	12.95	91	196098m	0.560	ppbv	
60) o-Xylene	13.68	91	66373m	0.198	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	42359m	0.117	ppbv	

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

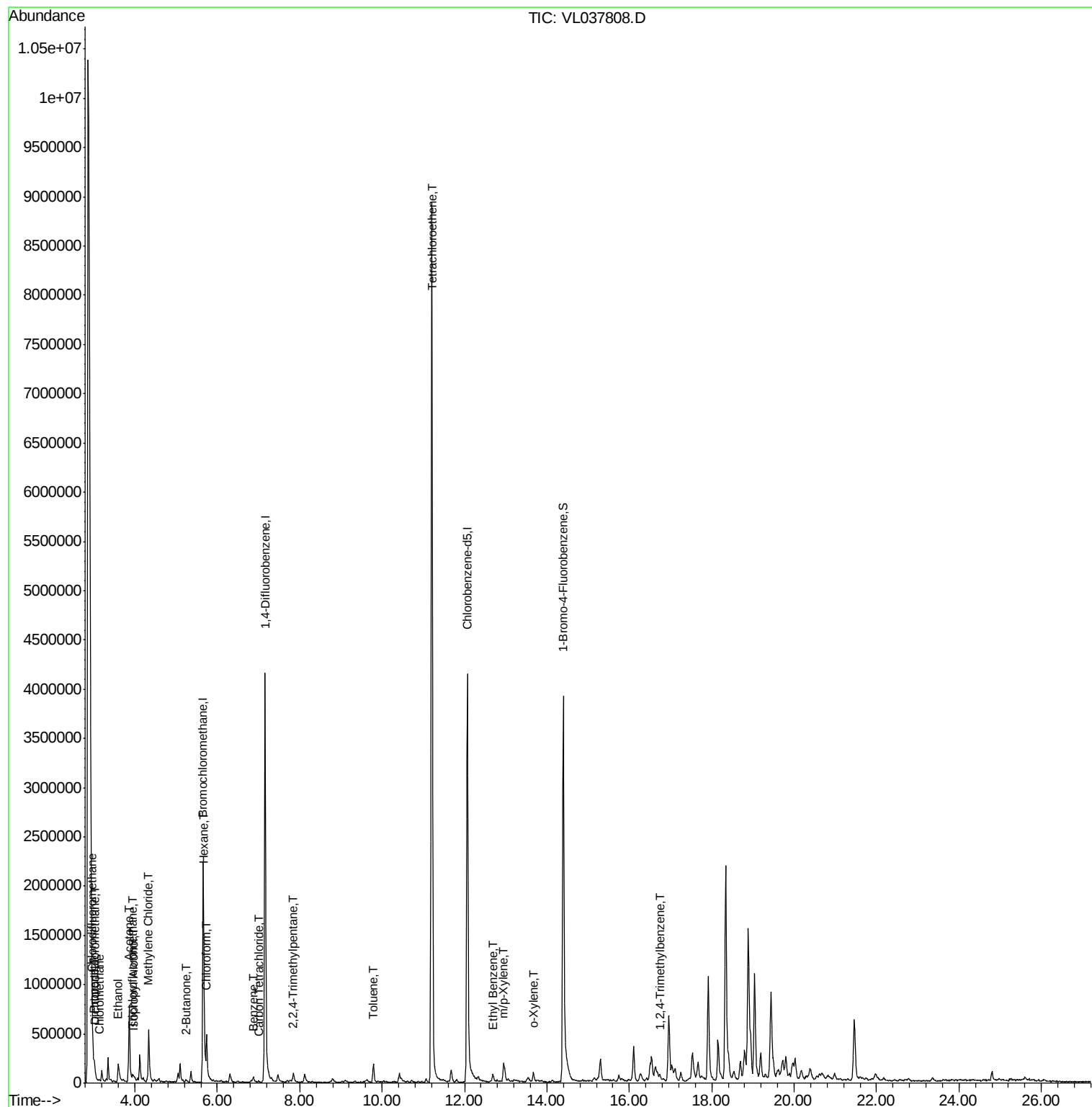
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
Data File : VL037808.D
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Operator : SY/AP
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

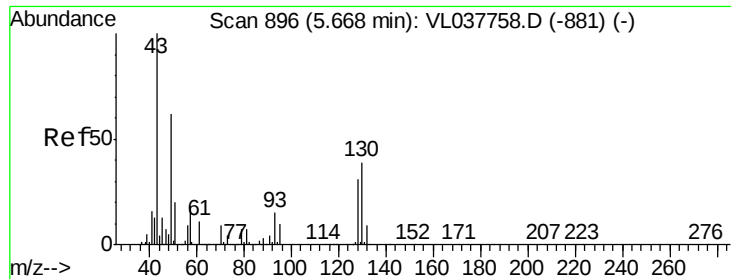
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Quant Time: Oct 08 11:06:34 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037808.D

Acq: 7 Oct 2021 23:02

Instrument :

MSVOA_L

ClientSampled :

C0P08

Tgt Ion: 49 Resp: 1168763

Ion Ratio Lower Upper

49 100

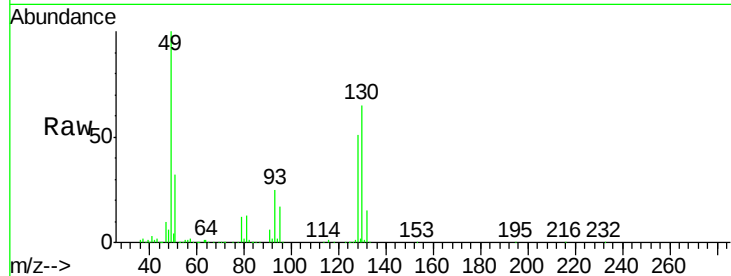
128 53.9 27.1 81.3

130 70.3 33.2 99.6

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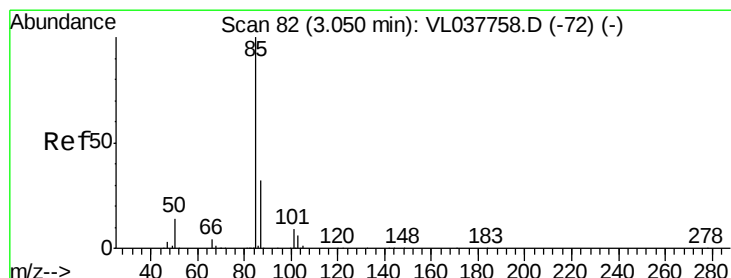
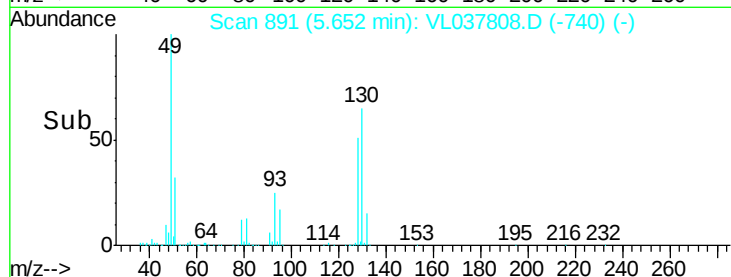
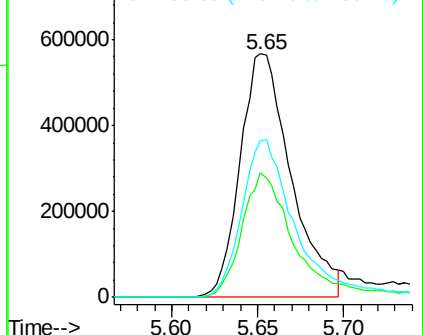
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.139 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037808.D

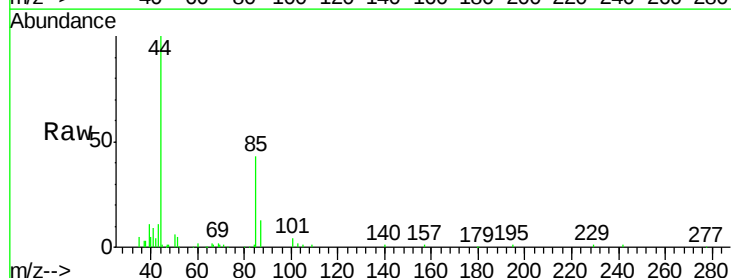
Acq: 7 Oct 2021 23:02

Tgt Ion: 85 Resp: 26039

Ion Ratio Lower Upper

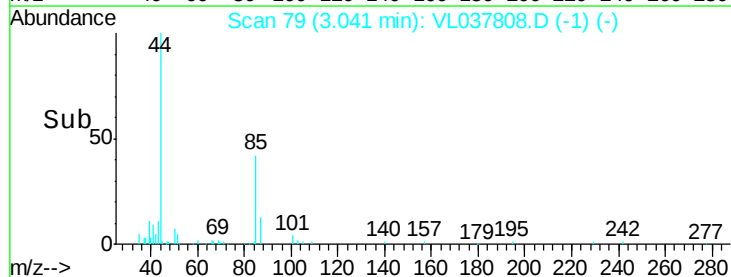
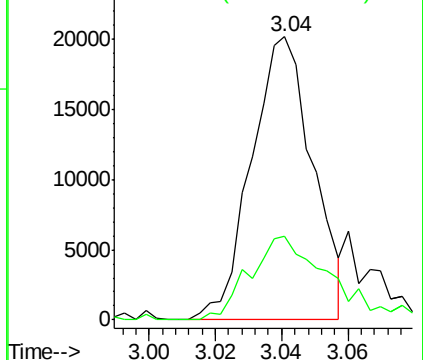
85 100

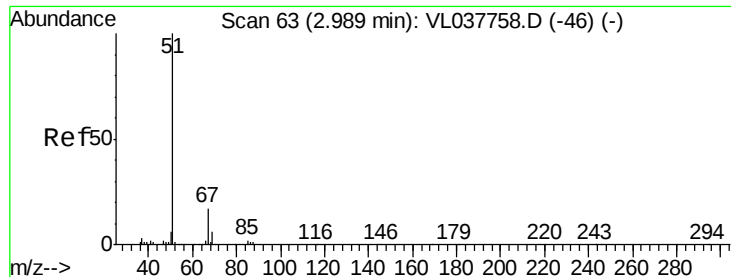
87 29.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.407 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL037808.D

Acq: 7 Oct 2021 23:02

Instrument :

MSVOA_L

ClientSampleId :

C0P08

Tgt Ion: 51 Resp: 91396

Ion Ratio Lower Upper

51 100

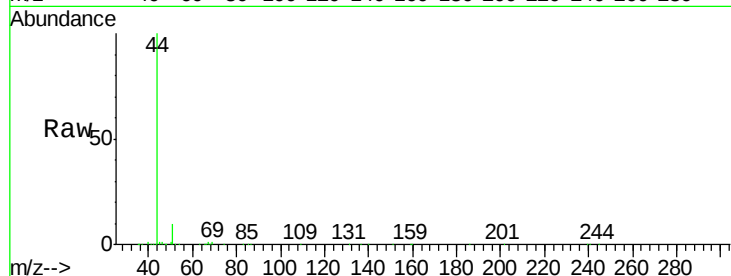
67 13.2 13.5 20.3#

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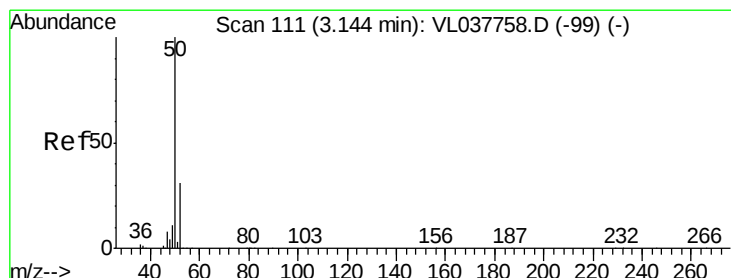
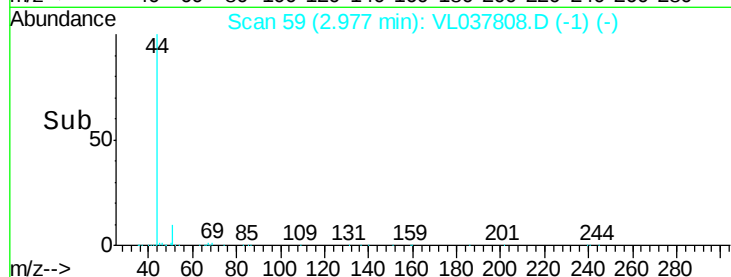
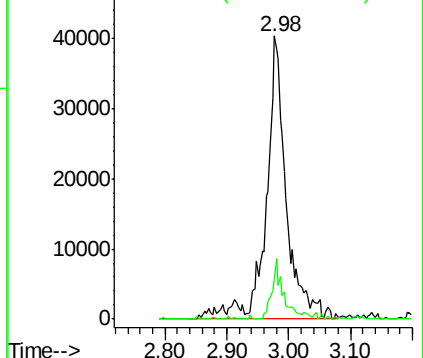
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.183 ppbv m

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037808.D

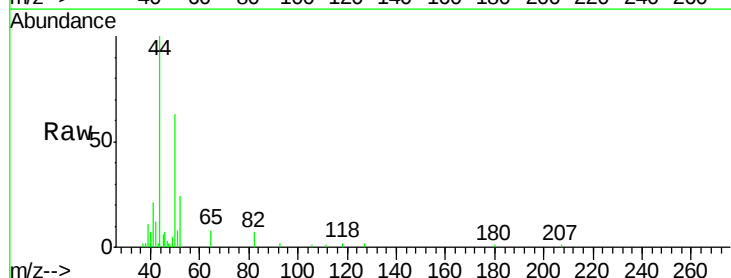
Acq: 7 Oct 2021 23:02

Tgt Ion: 50 Resp: 15058

Ion Ratio Lower Upper

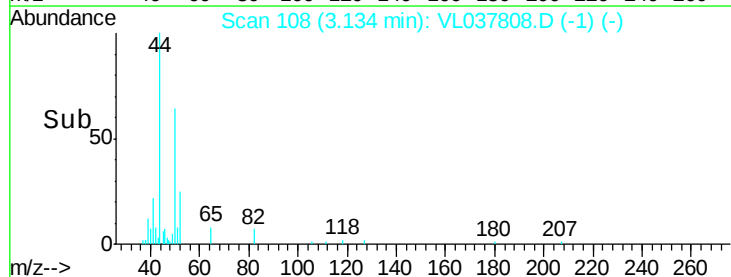
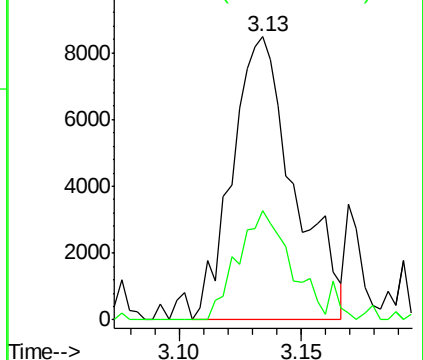
50 100

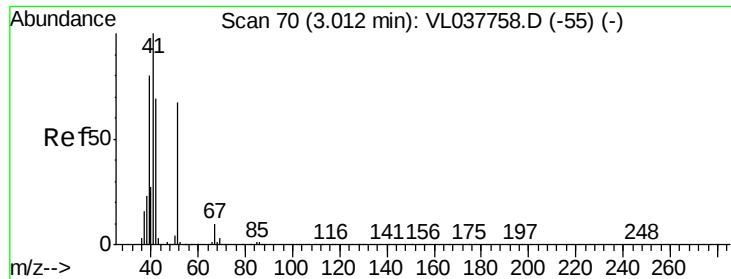
52 38.7 24.4 36.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.533 ppbv m

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037808.D

Acq: 7 Oct 2021 23:02

Instrument :

MSVOA_L

ClientSampleId :

C0P08

Tgt Ion: 41 Resp: 44081

Ion Ratio Lower Upper

41 100

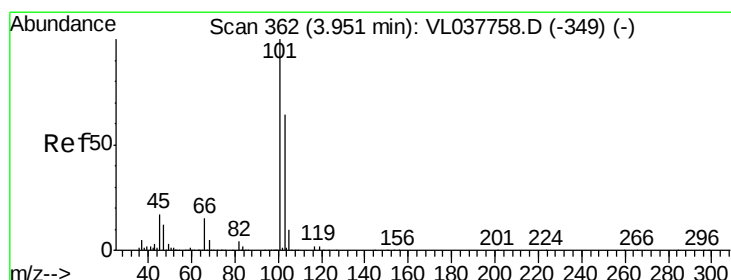
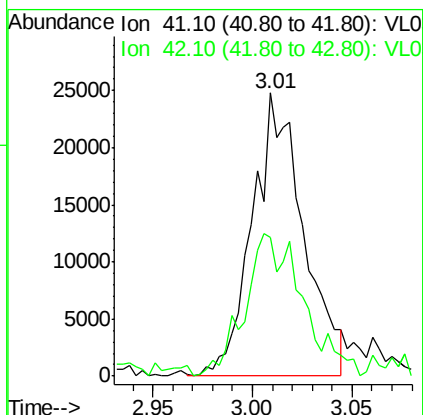
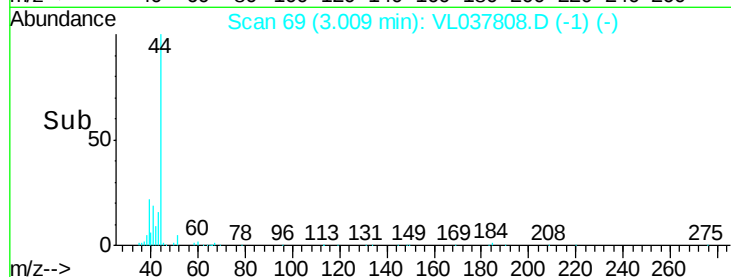
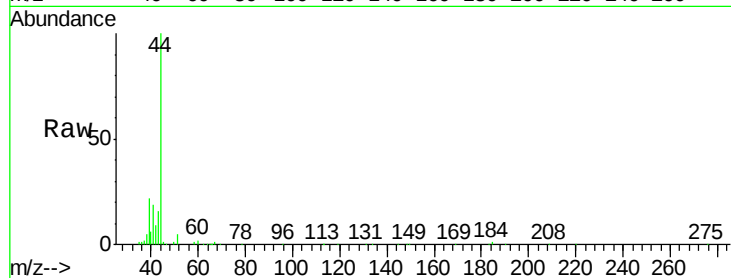
42 2.9 54.2 81.2#

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#11

Trichlorofluoromethane

Concen: 0.233 ppbv m

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL037808.D

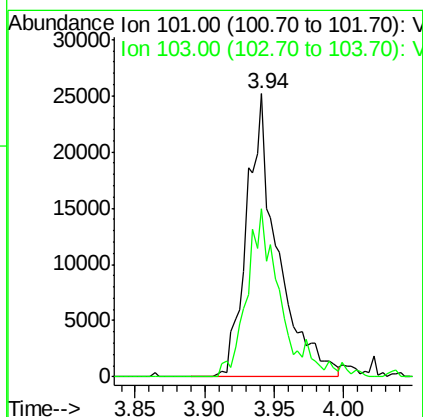
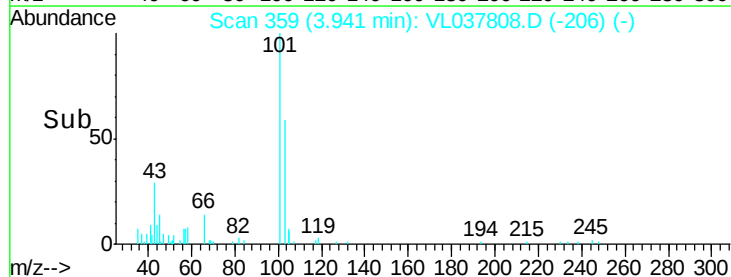
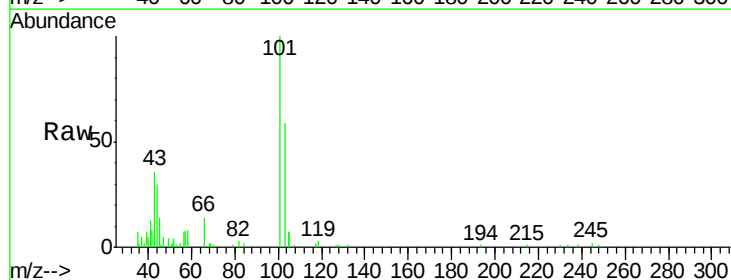
Acq: 7 Oct 2021 23:02

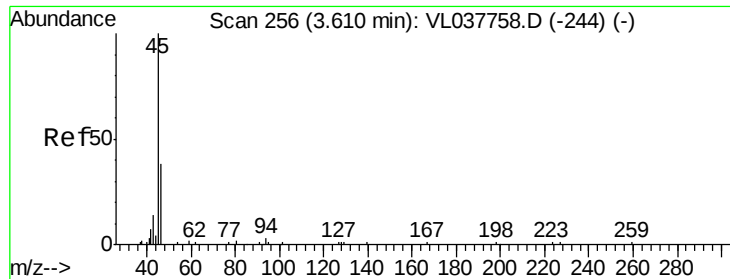
Tgt Ion: 101 Resp: 38885

Ion Ratio Lower Upper

101 100

103 59.2 51.5 77.3





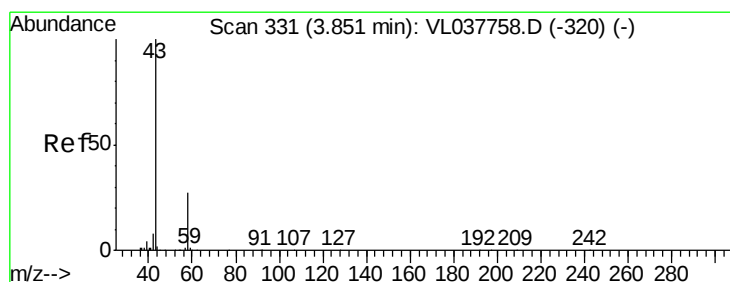
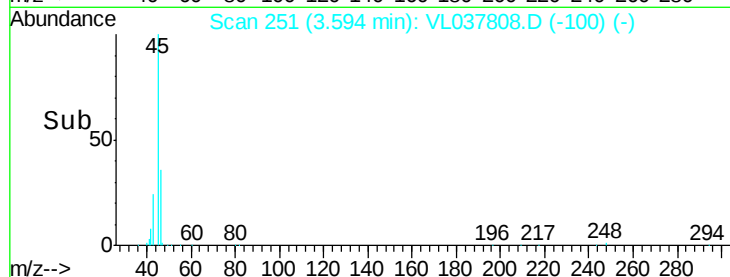
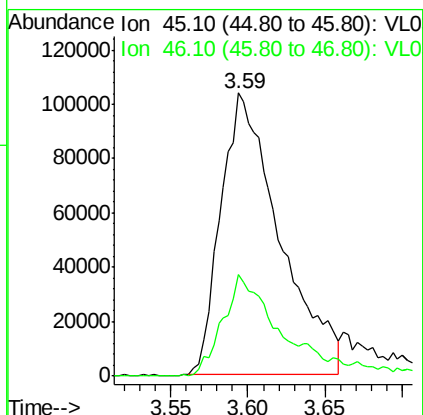
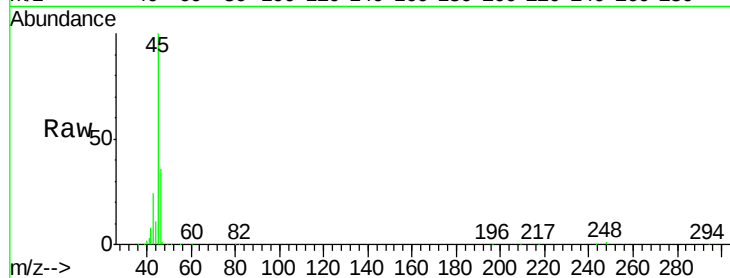
#13
Ethanol
Concen: 40.629 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.02 min
Lab File: VL037808.D
Acq: 7 Oct 2021 23:02

Instrument :
MSVOA_L
ClientSampled :
C0P08

Tgt Ion: 45 Resp: 274551
Ion Ratio Lower Upper
45 100
46 38.7 20.2 81.0

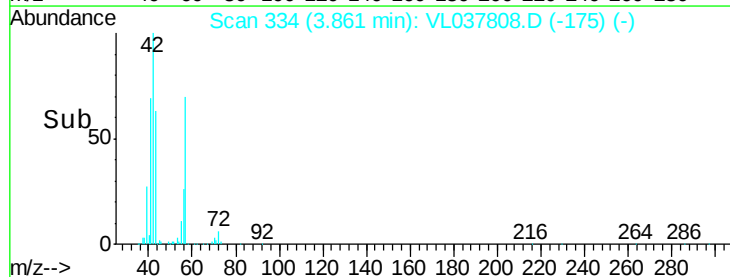
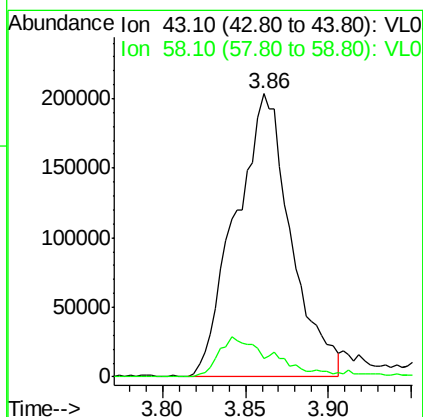
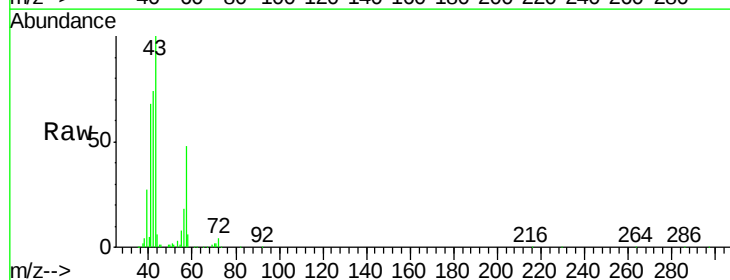
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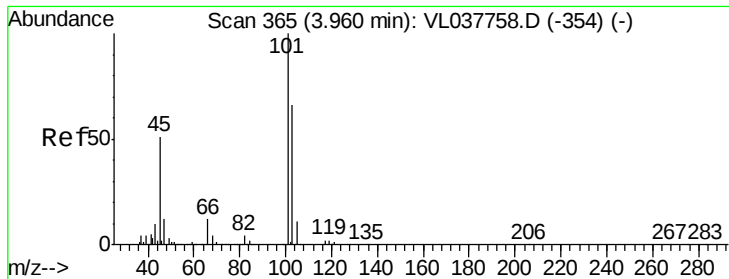
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#15
Acetone
Concen: 4.476 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL037808.D
Acq: 7 Oct 2021 23:02

Tgt Ion: 43 Resp: 469595
Ion Ratio Lower Upper
43 100
58 13.6 23.0 34.6#





#19

Isopropyl Alcohol

Concen: 0.968 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL037808.D

Acq: 7 Oct 2021 23:02

Instrument :

MSVOA_L

ClientSampleId :

C0P08

Tgt Ion: 45 Resp: 63155
Ion Ratio Lower Upper

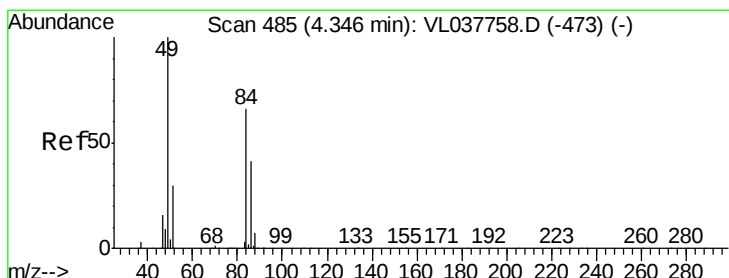
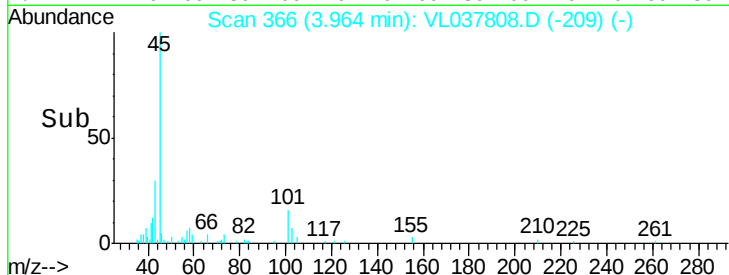
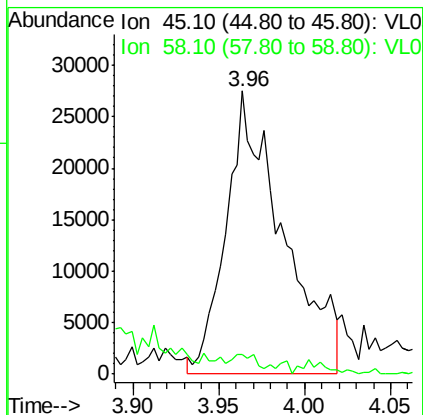
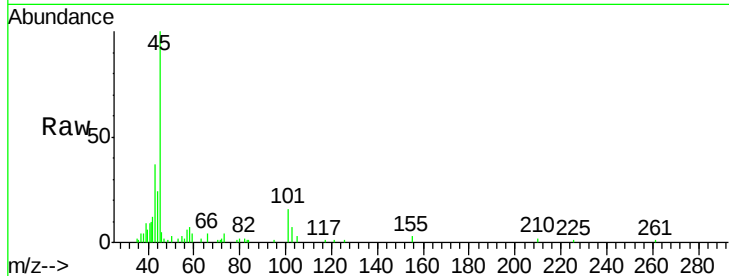
45 100

58 17.2 1.1 1.7#

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#20

Methylene Chloride

Concen: 4.019 ppbv m

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL037808.D

Acq: 7 Oct 2021 23:02

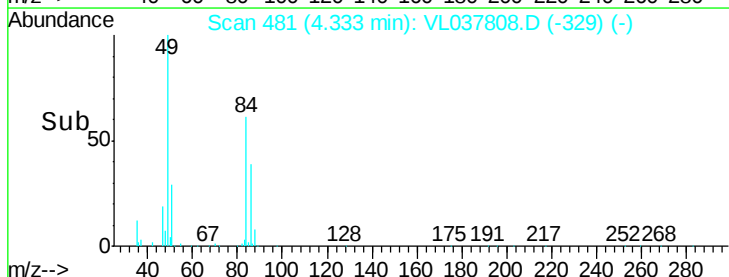
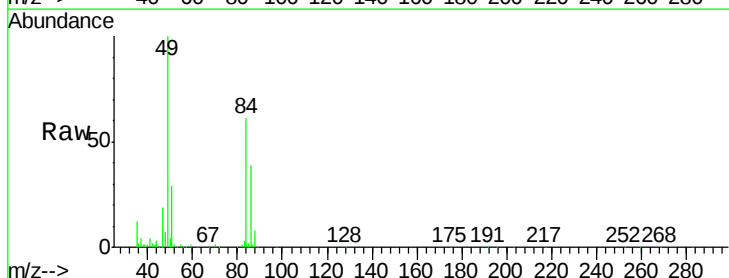
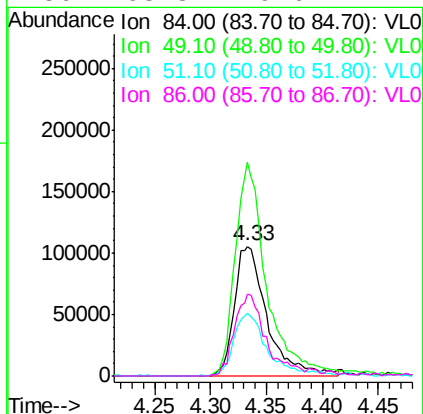
Tgt Ion: 84 Resp: 213064
Ion Ratio Lower Upper

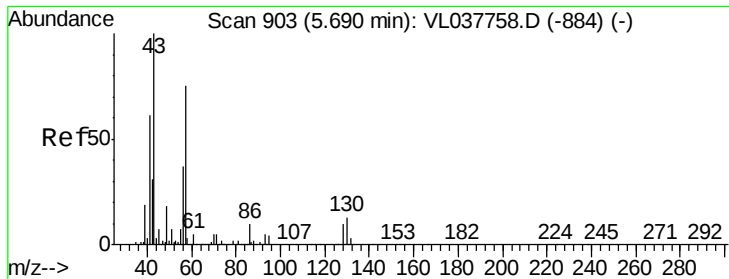
84 100

49 165.1 120.7 181.1

51 48.3 36.2 54.4

86 63.8 49.6 74.4





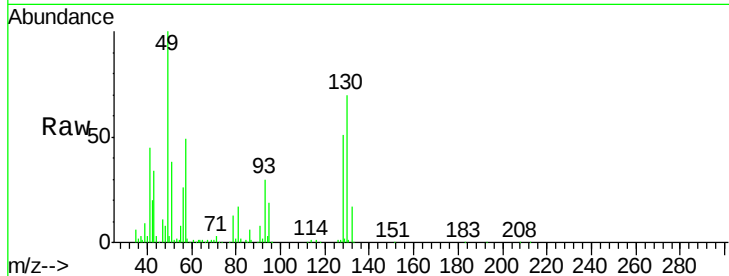
#26
Hexane
Concen: 1.082 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL037808.D
Acq: 7 Oct 2021 23:02

Instrument :
MSVOA_L
ClientSampleId :
C0P08

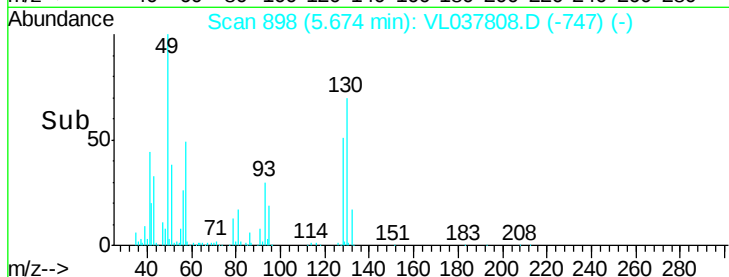
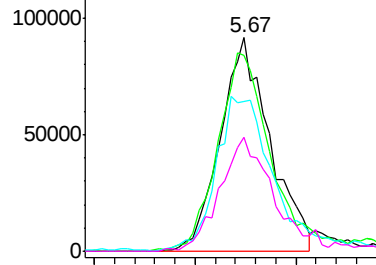
Tgt Ion	Ratio	Lower	Upper
57	100		
41	106.4	69.6	104.4#
43	85.4	171.4	257.0#
56	61.6	42.0	63.0

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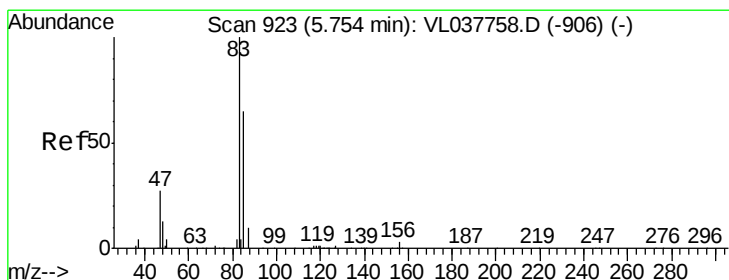
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Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

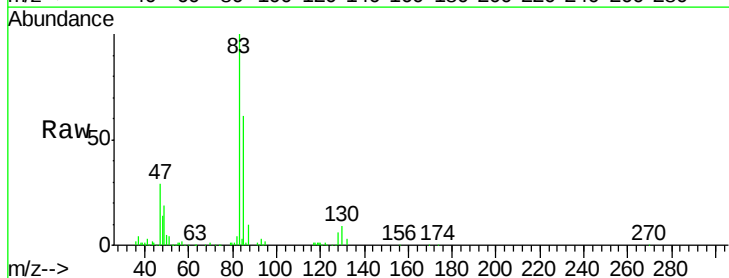


Time-->

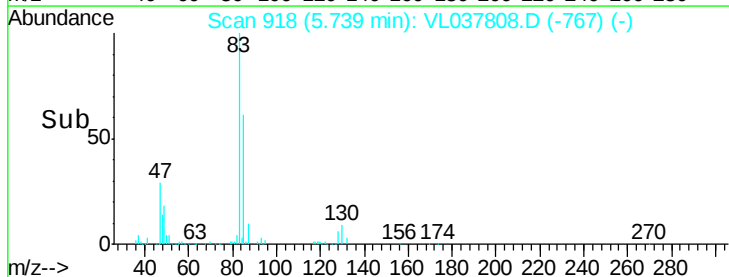
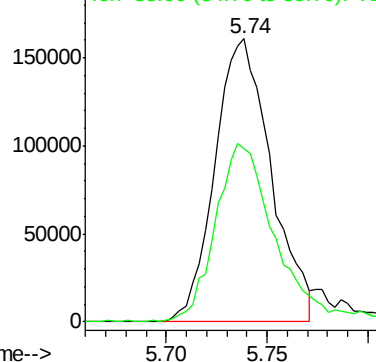


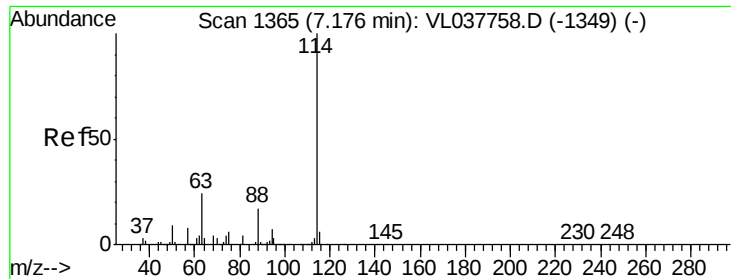
#29
Chloroform
Concen: 1.510 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.02 min
Lab File: VL037808.D
Acq: 7 Oct 2021 23:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.9	51.8	77.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





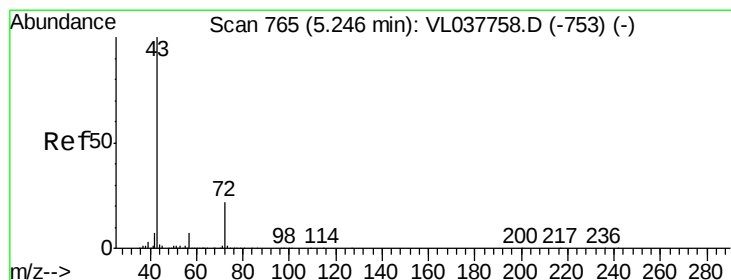
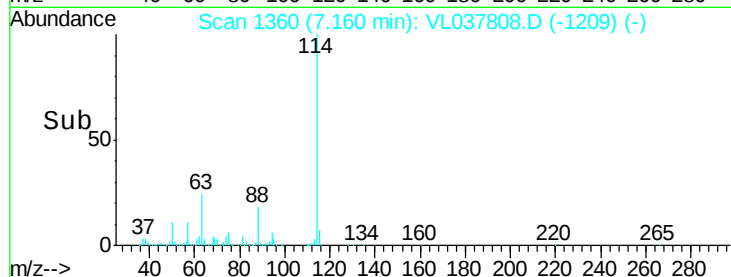
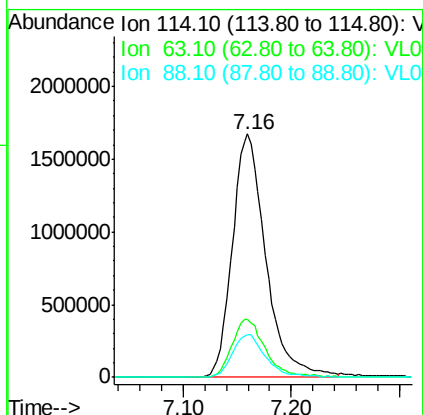
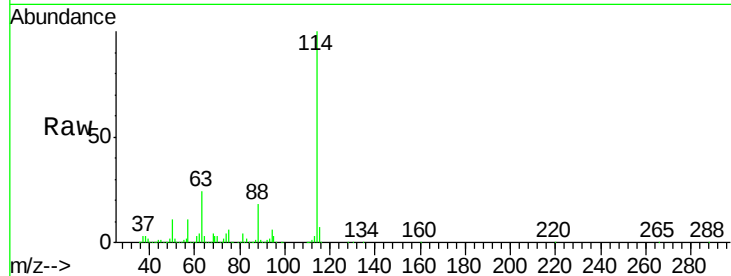
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.02 min
 Lab File: VL037808.D
 Acq: 7 Oct 2021 23:02

Instrument :
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 ClientSampled :
 C0P08

Tgt Ion: 114 Resp: 3617698
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.4 29.2
 88 17.9 14.4 21.6

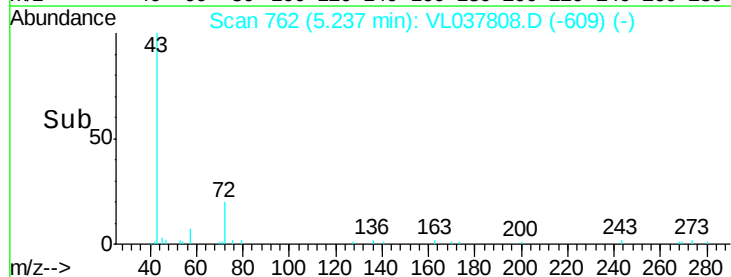
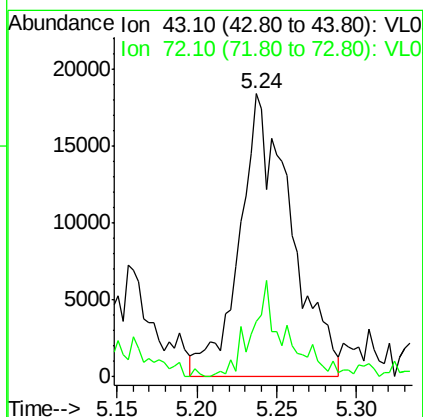
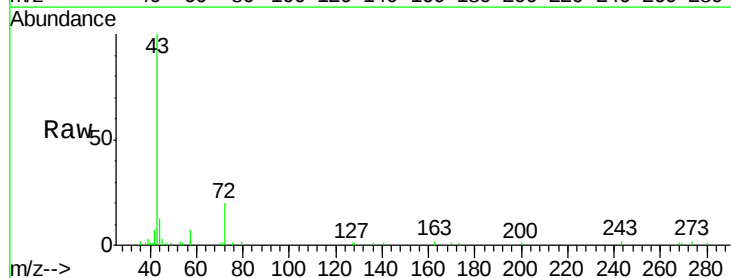
Manual Integrations
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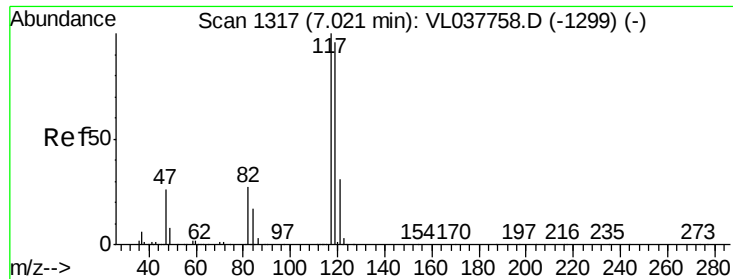
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#34
 2-Butanone
 Concen: 0.284 ppbv m
 RT: 5.24 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VL037808.D
 Acq: 7 Oct 2021 23:02

Tgt Ion: 43 Resp: 41411
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#





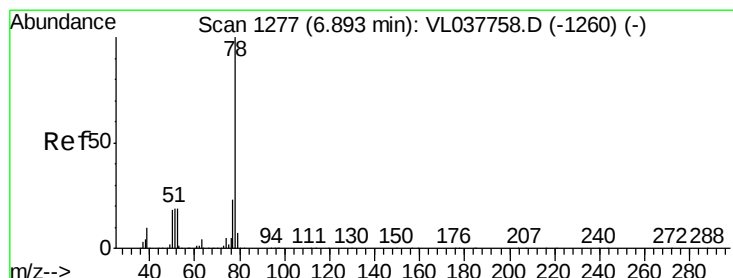
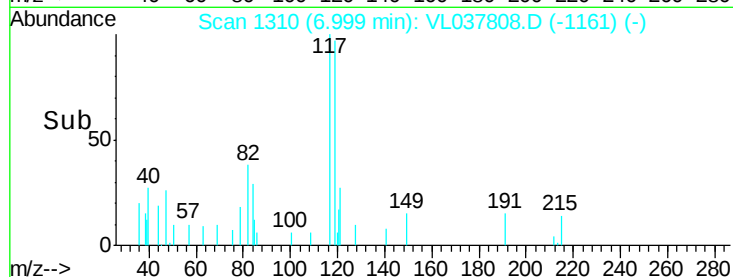
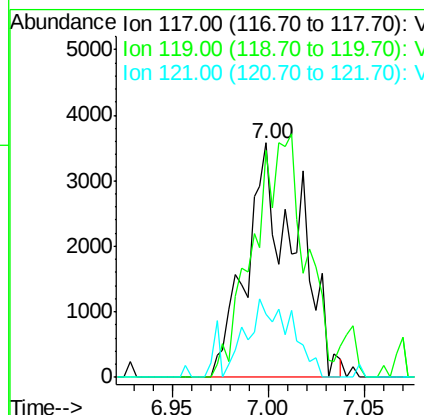
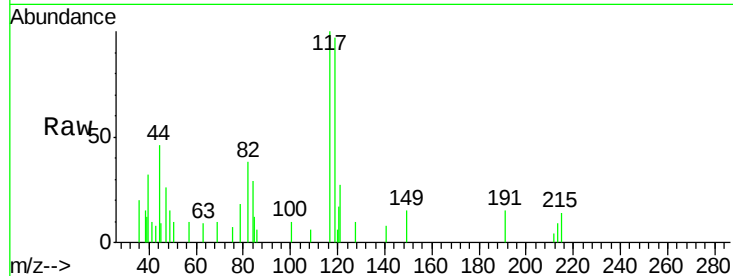
#35
Carbon Tetrachloride
Concen: 0.031 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.02 min
Lab File: VL037808.D
Acq: 7 Oct 2021 23:02

Instrument :
MSVOA_L
ClientSampled :
C0P08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.5	114.7
121	27.2	24.9	37.3

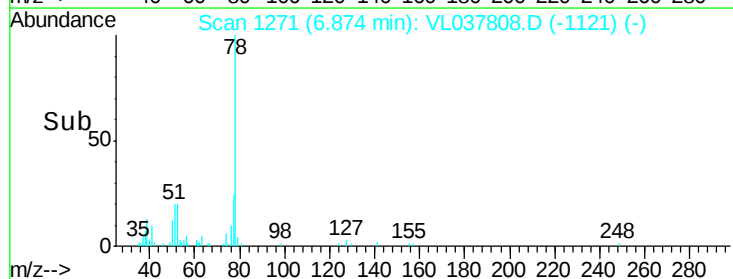
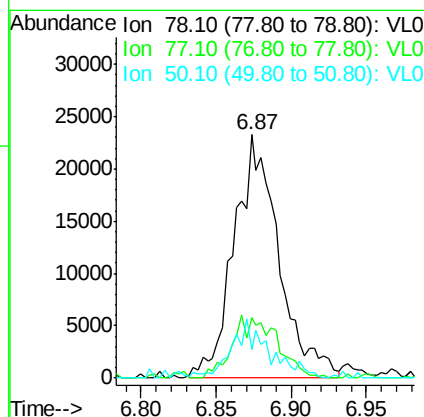
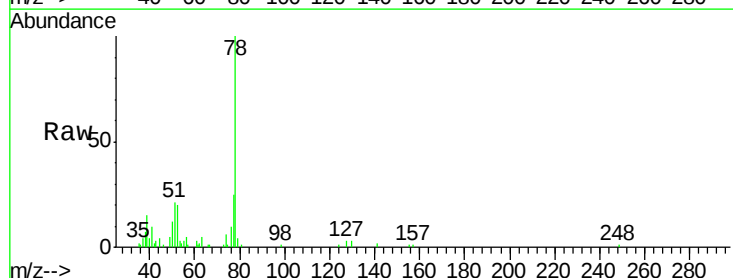
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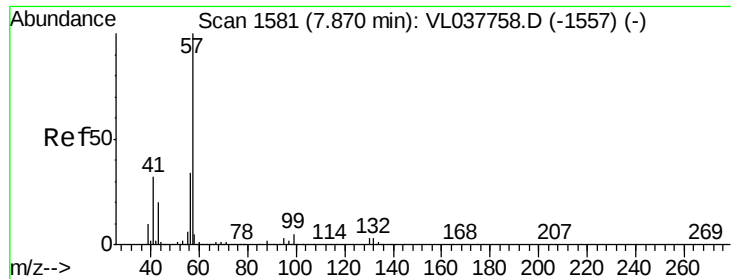
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#36
Benzene
Concen: 0.156 ppbv m
RT: 6.87 min Scan# 1271
Delta R.T. -0.02 min
Lab File: VL037808.D
Acq: 7 Oct 2021 23:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.8	28.2
50	11.6	14.7	22.1#





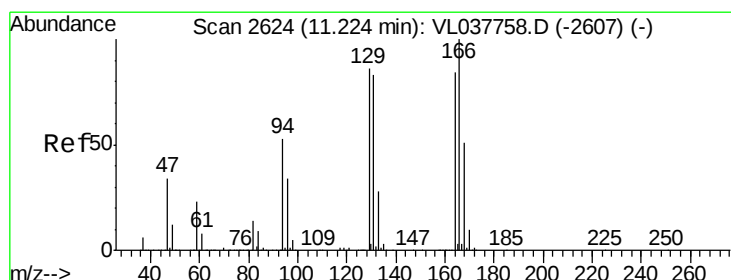
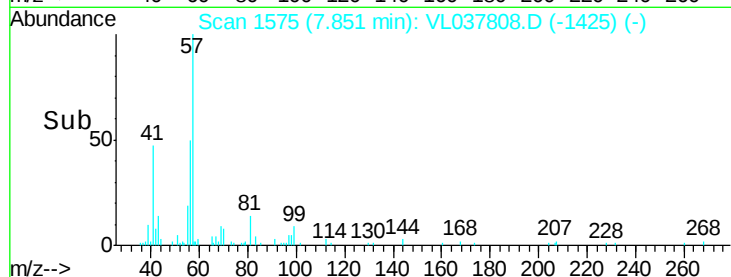
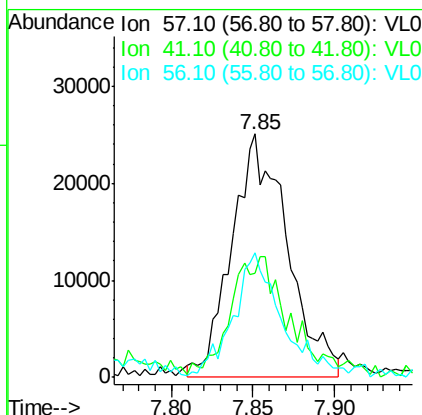
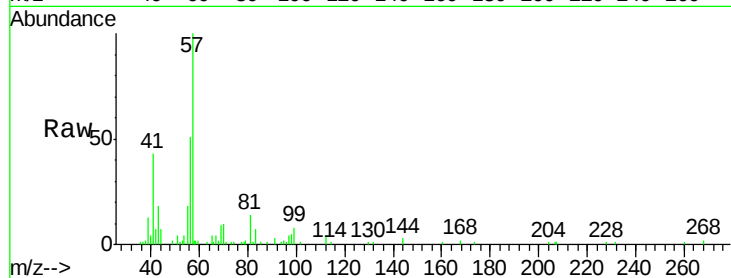
#44
 2,2,4-Trimethylpentane
 Concen: 0.115 ppbv m
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.02 min
 Lab File: VL037808.D
 Acq: 7 Oct 2021 23:02

Instrument :
 MSVOA_L
 ClientSampled :
 C0P08

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	25.6	38.4#
56	46.9	25.5	38.3#

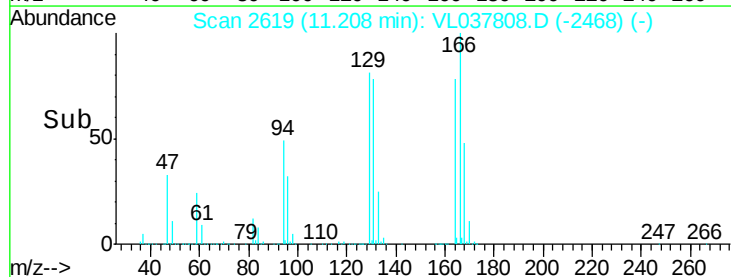
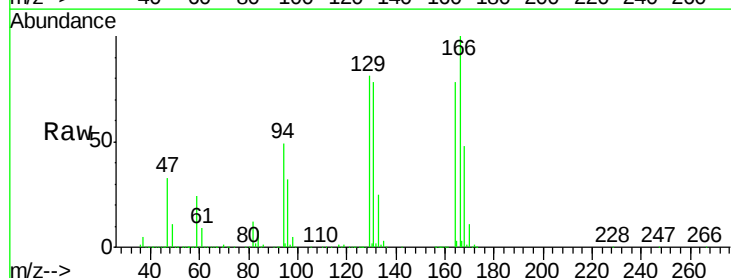
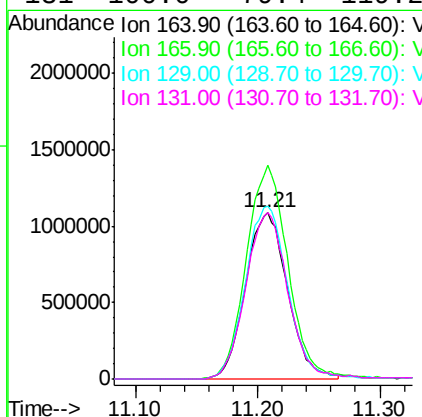
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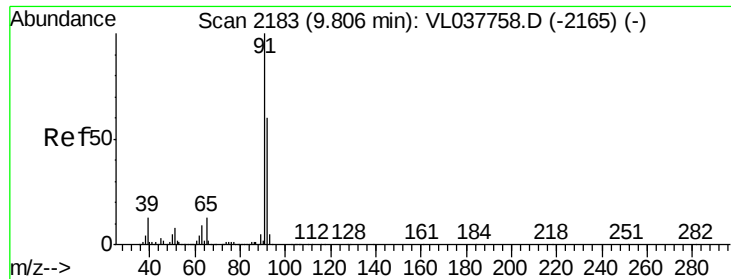
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#52
 Tetrachloroethene
 Concen: 21.483 ppbv
 RT: 11.21 min Scan# 2619
 Delta R.T. -0.02 min
 Lab File: VL037808.D
 Acq: 7 Oct 2021 23:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.5	95.4	143.2
129	104.0	82.2	123.4
131	100.0	79.4	119.2





#53

Toluene

Concen: 0.373 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.02 min

Lab File: VL037808.D

Acq: 7 Oct 2021 23:02

Instrument :

MSVOA_L

ClientSampleId :

C0P08

Tgt Ion: 91 Resp: 127612

Ion Ratio Lower Upper

91 100

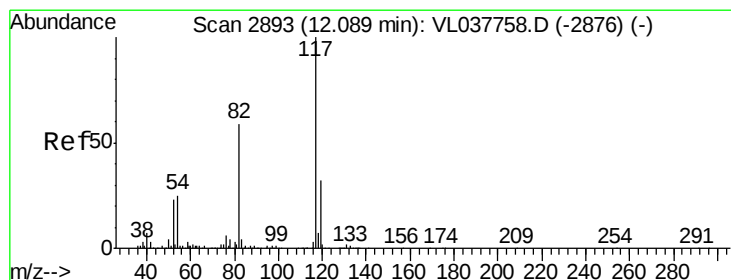
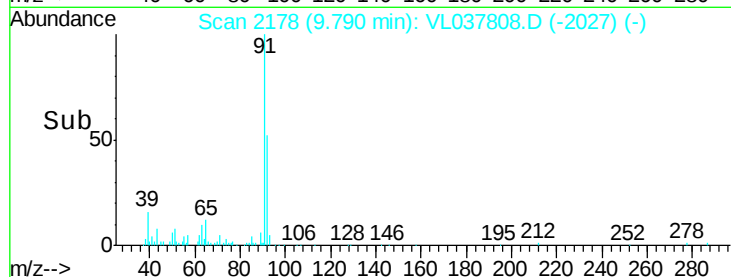
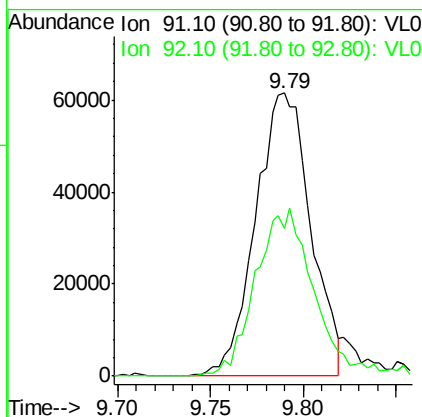
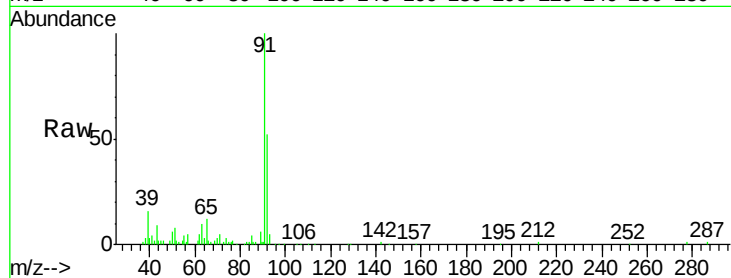
92 63.6 48.4 72.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.02 min

Lab File: VL037808.D

Acq: 7 Oct 2021 23:02

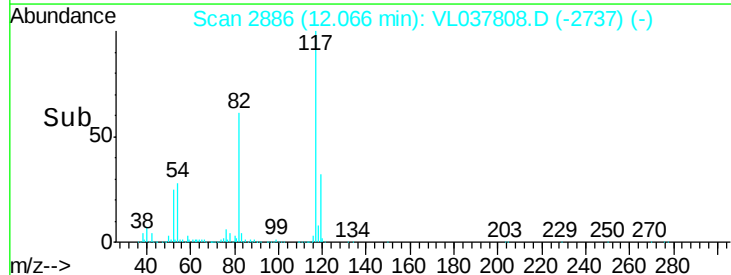
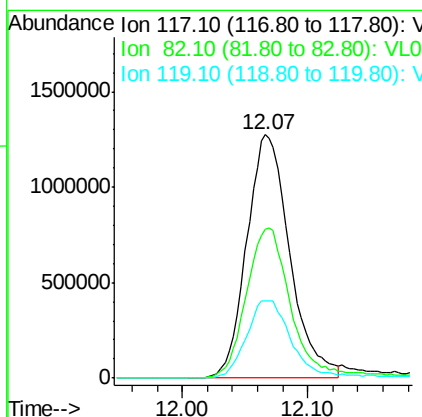
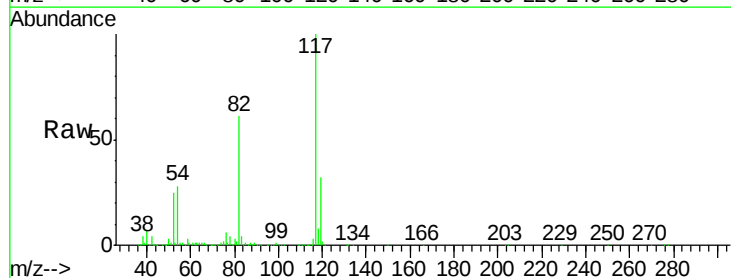
Tgt Ion: 117 Resp: 3036242

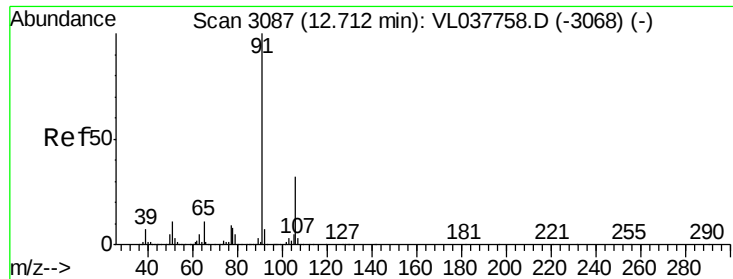
Ion Ratio Lower Upper

117 100

82 66.9 52.2 78.2

119 34.6 26.0 39.0





#58

Ethyl Benzene

Concen: 0.144 ppbv m

RT: 12.69 min Scan# 3080

Delta R.T. -0.02 min

Lab File: VL037808.D

Acq: 7 Oct 2021 23:02

Instrument :

MSVOA_L

ClientSampleId :

C0P08

Tgt Ion: 91 Resp: 58798

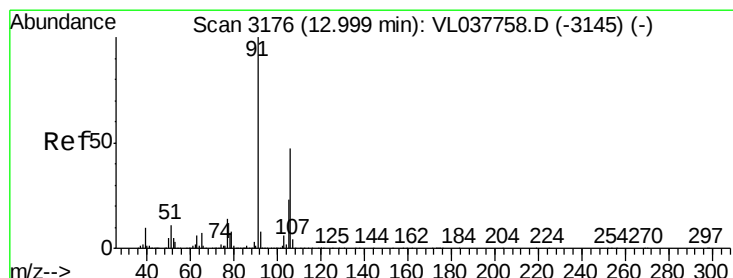
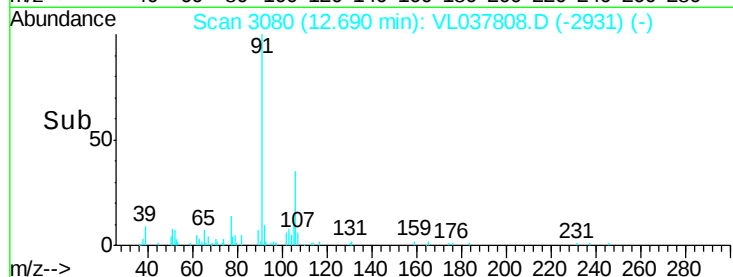
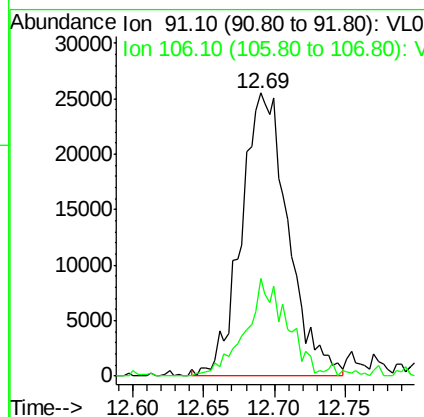
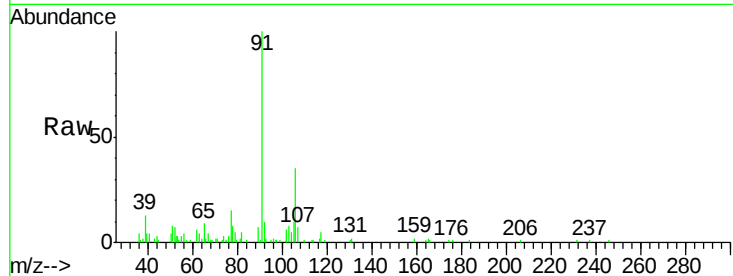
Ion Ratio Lower Upper

91 100

106 34.6 25.3 37.9

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#59

m/p-Xylene

Concen: 0.560 ppbv m

RT: 12.95 min Scan# 3160

Delta R.T. -0.05 min

Lab File: VL037808.D

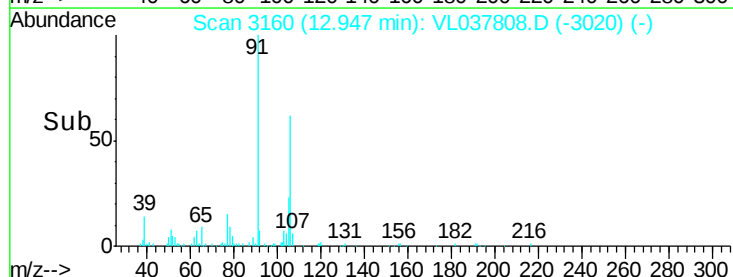
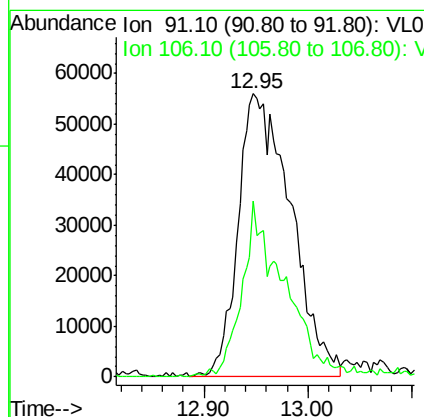
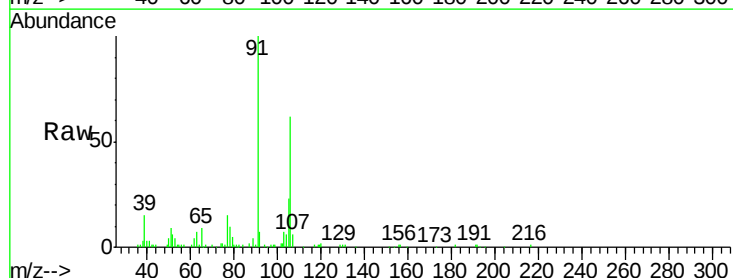
Acq: 7 Oct 2021 23:02

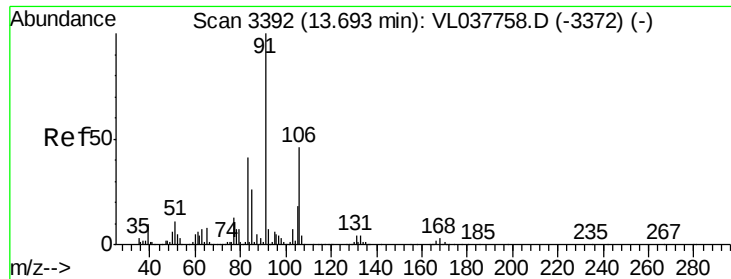
Tgt Ion: 91 Resp: 196098

Ion Ratio Lower Upper

91 100

106 0.0 36.7 55.1#





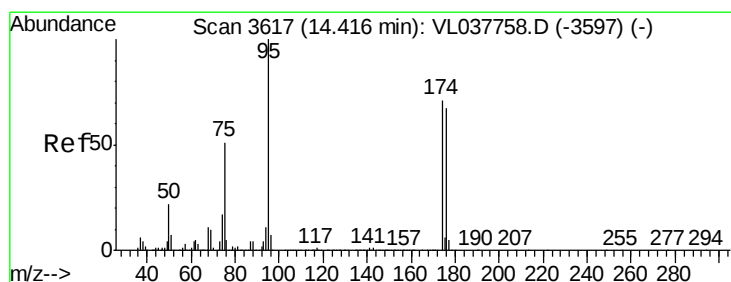
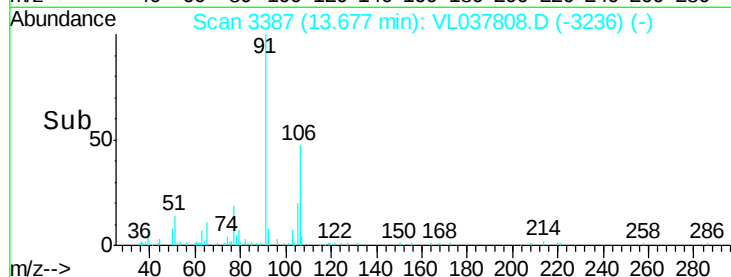
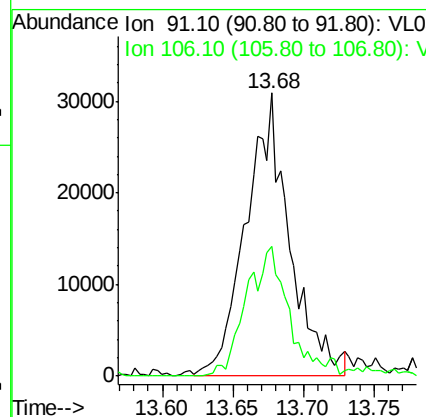
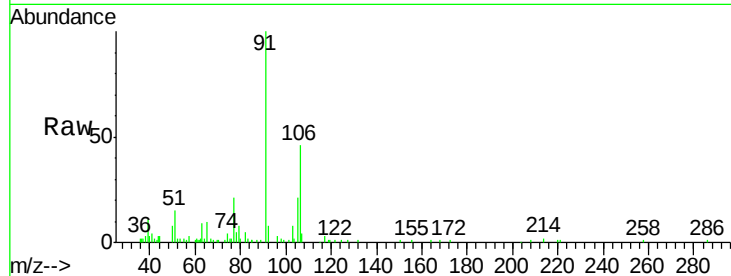
#60
o-Xylene
Concen: 0.198 ppbv m
RT: 13.68 min Scan# 3387
Delta R.T. -0.02 min
Lab File: VL037808.D
Acq: 7 Oct 2021 23:02

Instrument :
MSVOA_L
ClientSampleId :
C0P08

Tgt Ion: 91 Resp: 66373
Ion Ratio Lower Upper
91 100
106 0.0 23.5 70.5#

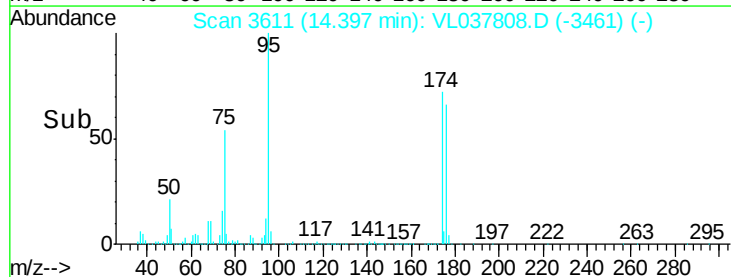
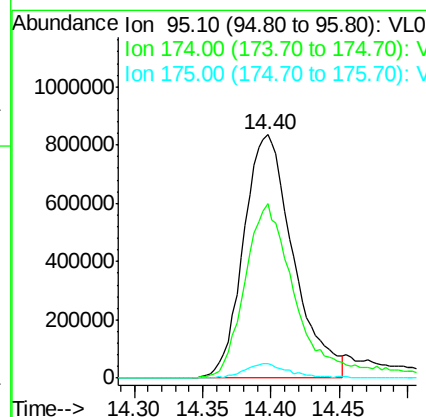
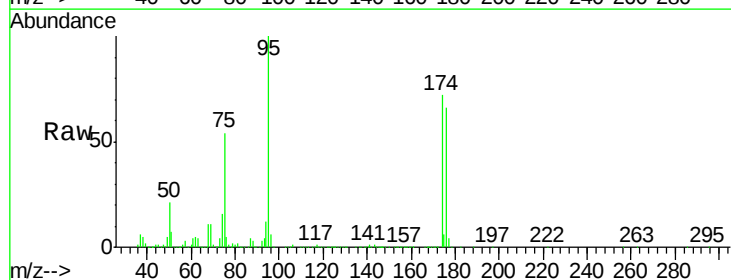
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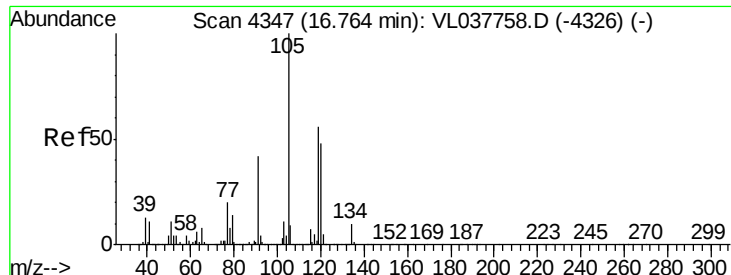
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.939 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.02 min
Lab File: VL037808.D
Acq: 7 Oct 2021 23:02

Tgt Ion: 95 Resp: 2110379
Ion Ratio Lower Upper
95 100
174 77.8 57.8 86.6
175 6.2 4.7 7.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.117 ppbv m
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.03 min
 Lab File: VL037808.D
 Acq: 7 Oct 2021 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	42359		
120	36.5		38.4	57.6#
91	9.6		34.2	51.2#
77	14.0		15.8	23.8#

Manual Integrations
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