

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
 Data File : VL037678.D
 Acq On : 27 Sep 2021 13:23
 Operator : SY/AP
 Sample : M3949-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-9B

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:04:53 AM

Quant Time: Sep 28 20:00:46 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1445910	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4286327	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3765208	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	2560761	9.41	ppbv	0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	40197	0.154	ppbv	91
4) Chloromethane	3.15	50	92717	0.920	ppbv	95
9) Propene	3.02	41	59667	0.620	ppbv #	79
11) Trichlorofluoromethane	3.96	101	44547m	0.212	ppbv	
13) Ethanol	3.60	45	3138455	333.520	ppbv	89
15) Acetone	3.85	43	2273754	15.135	ppbv	94
19) Isopropyl Alcohol	3.97	45	3408867	41.704	ppbv #	95
20) Methylene Chloride	4.35	84	419252	5.846	ppbv	96
26) Hexane	5.69	57	1411555	8.167	ppbv #	46
29) Chloroform	5.75	83	56912m	0.226	ppbv	
34) 2-Butanone	5.25	43	218541	1.255	ppbv #	83
35) Carbon Tetrachloride	7.02	117	13117	0.054	ppbv #	80
36) Benzene	6.89	78	54137m	0.151	ppbv	
38) Trichloroethene	7.83	130	31003m	0.208	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	61068m	0.102	ppbv	
52) Tetrachloroethene	11.23	164	73102m	0.533	ppbv	
53) Toluene	9.81	91	132877	0.334	ppbv	97
59) m/p-Xylene	12.96	91	82901m	0.190	ppbv	

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

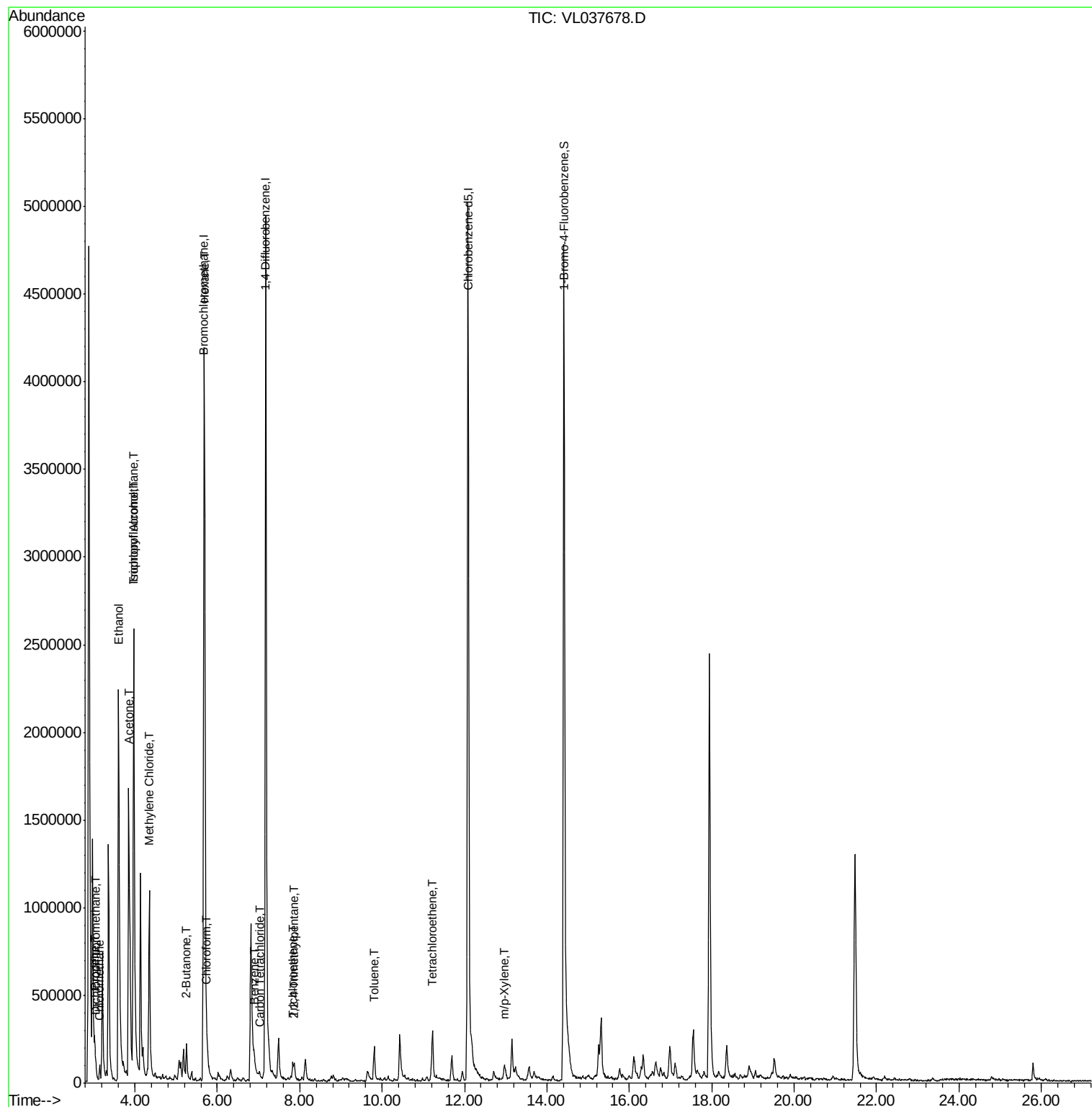
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
Data File : VL037678.D
Acq On : 27 Sep 2021 13:23
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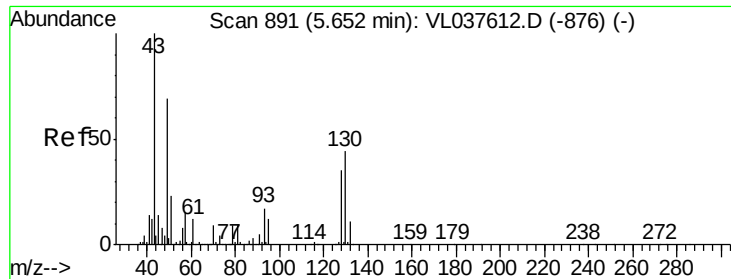
Instrument :
MSVOA_L
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Quant Time: Sep 28 20:00:46 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL037678.D

Acq: 27 Sep 2021 13:23

Instrument :

MSVOA_L

ClientSampled :

IA-9B

Tgt Ion: 49 Resp: 1445910

Ion Ratio Lower Upper

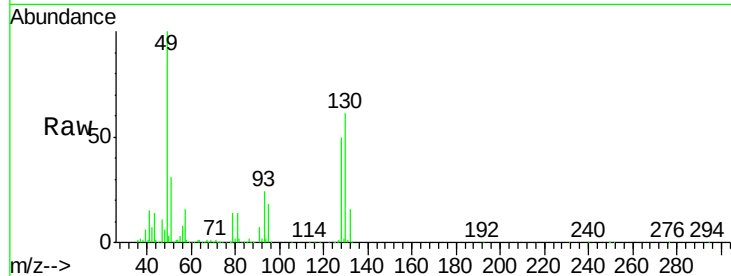
49 100

128 52.1 27.9 83.6

130 67.7 33.9 101.7

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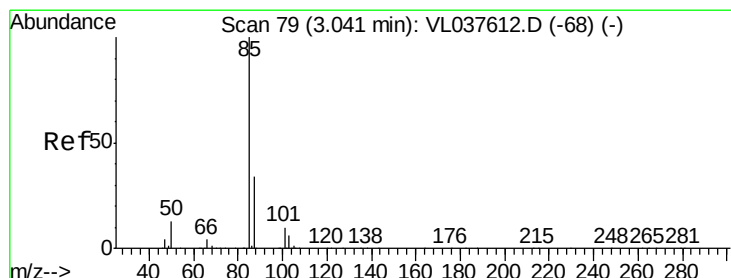
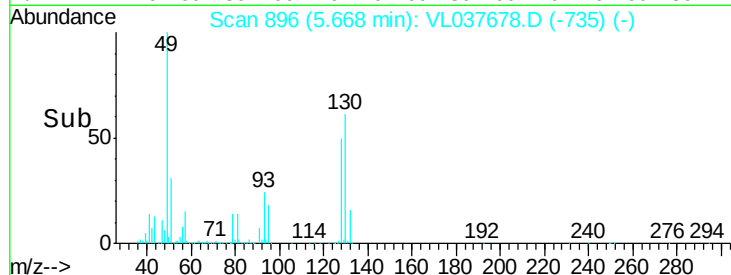
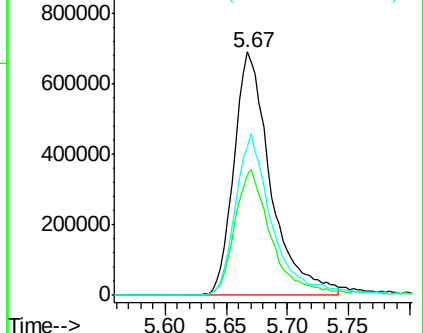
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.154 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL037678.D

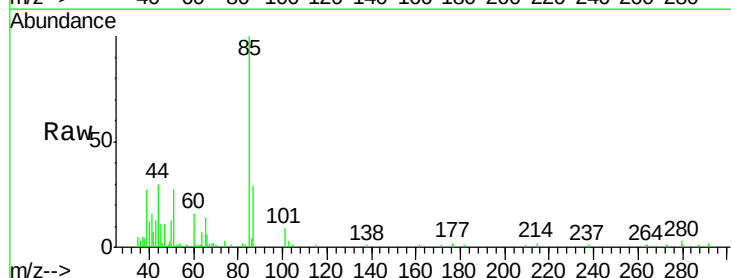
Acq: 27 Sep 2021 13:23

Tgt Ion: 85 Resp: 40197

Ion Ratio Lower Upper

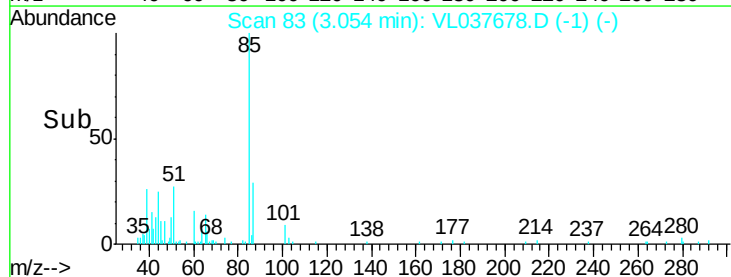
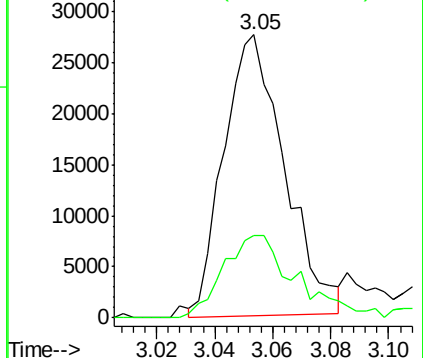
85 100

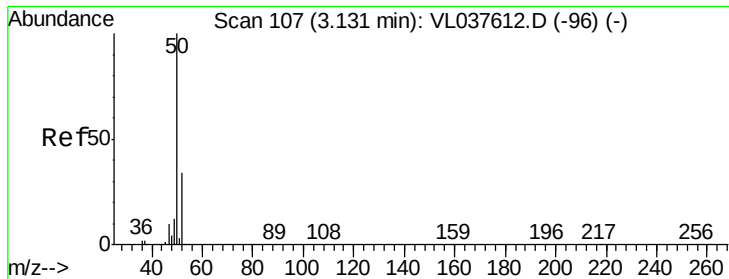
87 28.4 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.920 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.02 min

Lab File: VL037678.D

Acq: 27 Sep 2021 13:23

Instrument :

MSVOA_L

ClientSampled :

IA-9B

Tgt Ion: 50 Resp: 92717

Ion Ratio Lower Upper

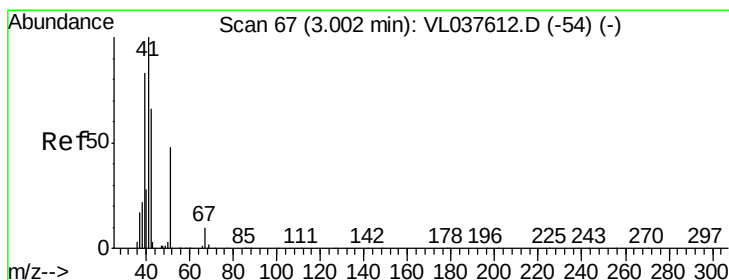
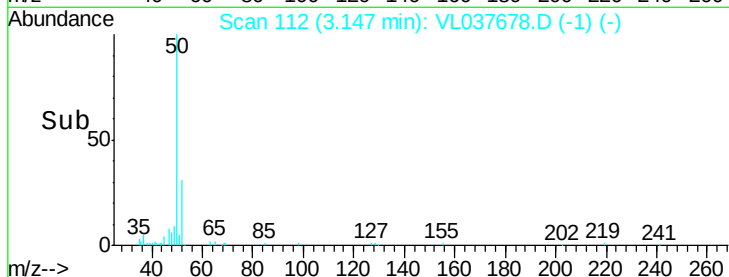
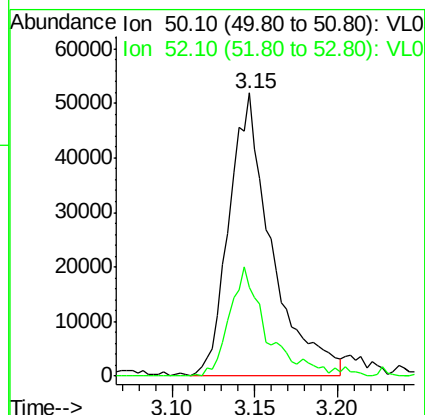
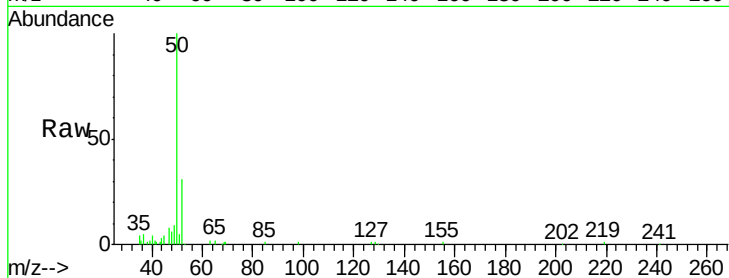
50 100

52 31.2 27.1 40.7

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#9

Propene

Concen: 0.620 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL037678.D

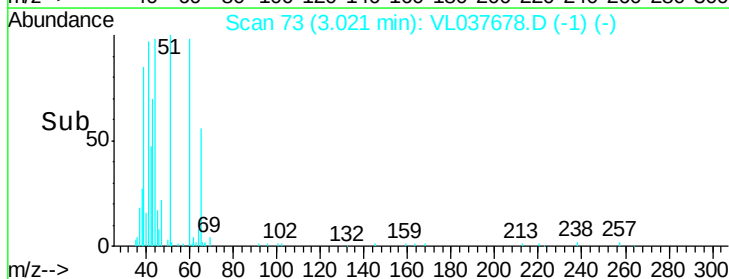
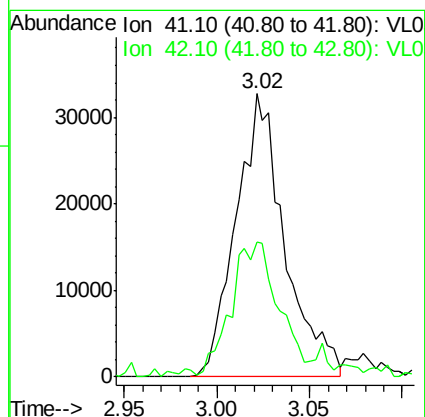
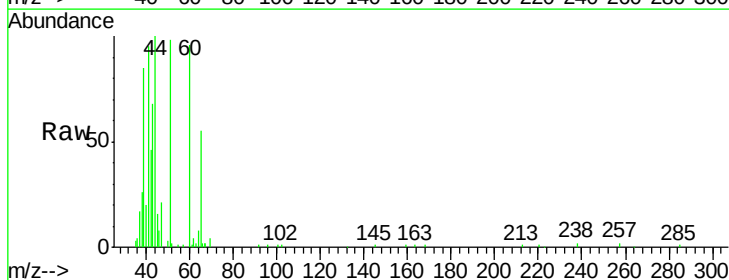
Acq: 27 Sep 2021 13:23

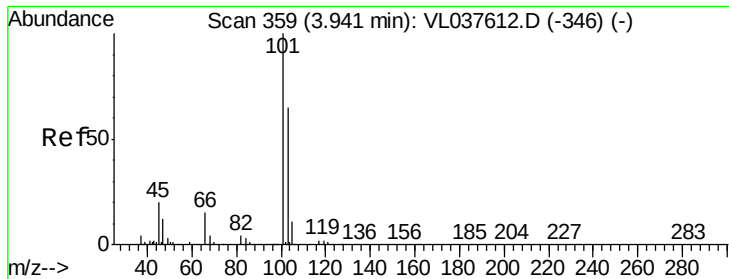
Tgt Ion: 41 Resp: 59667

Ion Ratio Lower Upper

41 100

42 54.0 57.2 85.8#





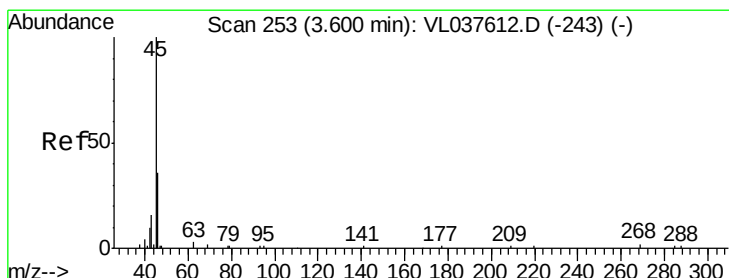
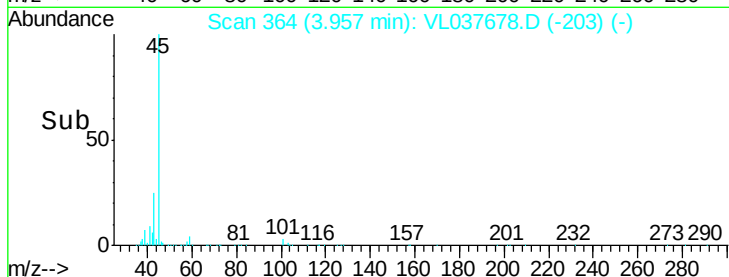
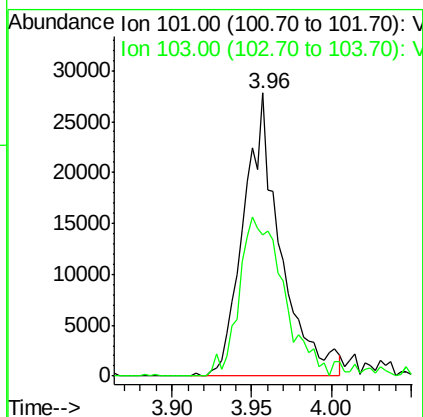
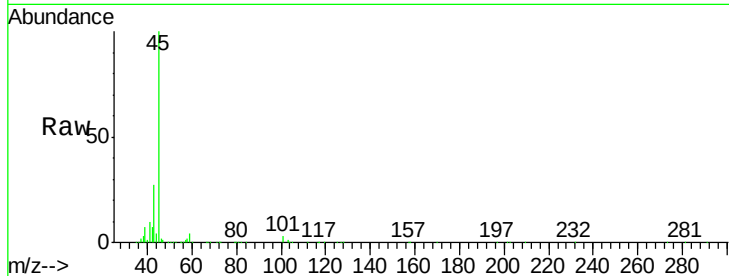
#11
 Trichlorofluoromethane
 Concen: 0.212 ppbv m
 RT: 3.96 min Scan# 364
 Delta R.T. 0.02 min
 Lab File: VL037678.D
 Acq: 27 Sep 2021 13:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-9B

Tgt Ion: 101 Resp: 44547
 Ion Ratio Lower Upper
 101 100
 103 49.9 51.9 77.9#

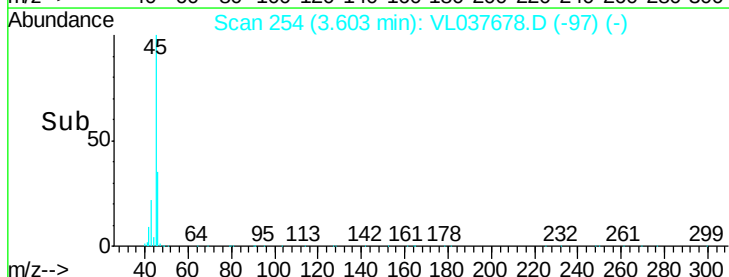
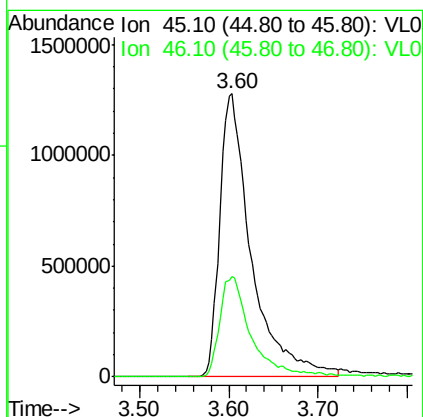
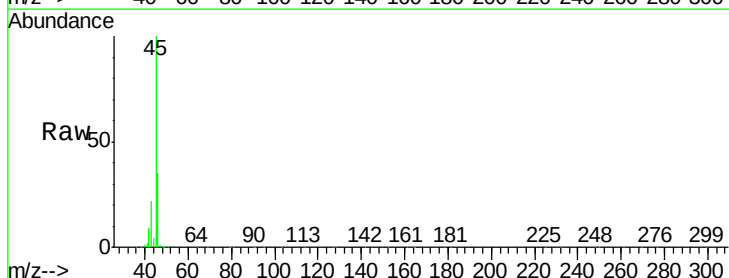
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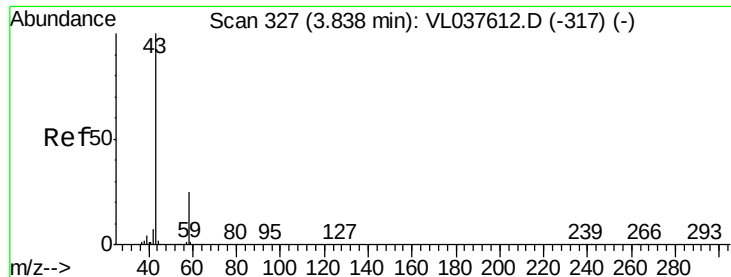
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#13
 Ethanol
 Concen: 333.520 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. 0.00 min
 Lab File: VL037678.D
 Acq: 27 Sep 2021 13:23

Tgt Ion: 45 Resp: 3138455
 Ion Ratio Lower Upper
 45 100
 46 35.9 17.2 68.8





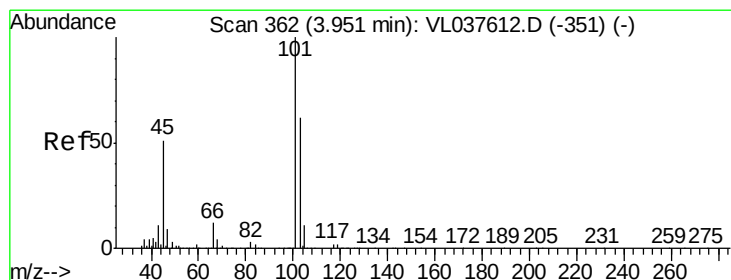
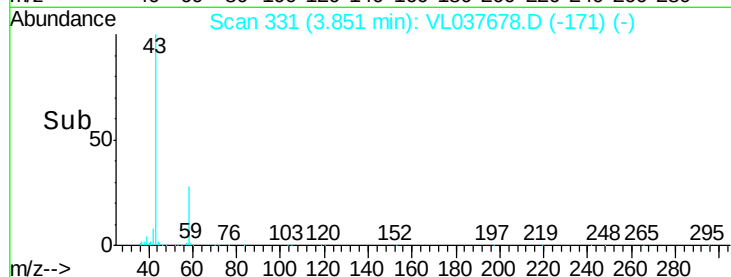
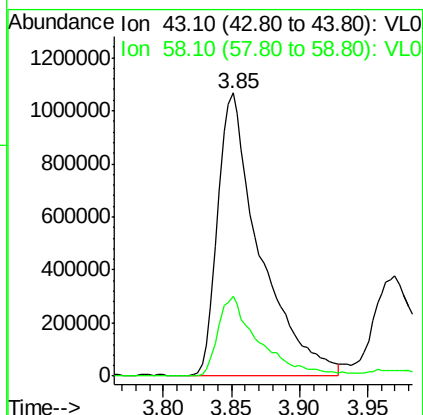
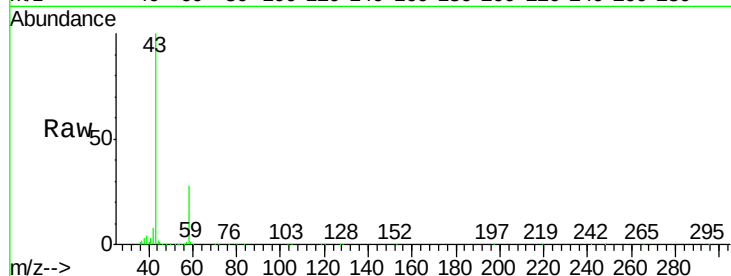
#15
Acetone
Concen: 15.135 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
IA-9B

Tgt Ion: 43 Resp: 2273754
Ion Ratio Lower Upper
43 100
58 27.9 24.9 37.3

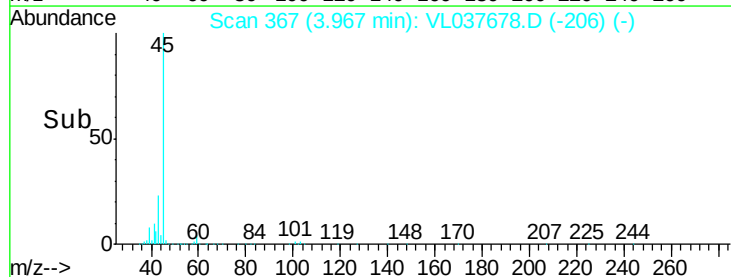
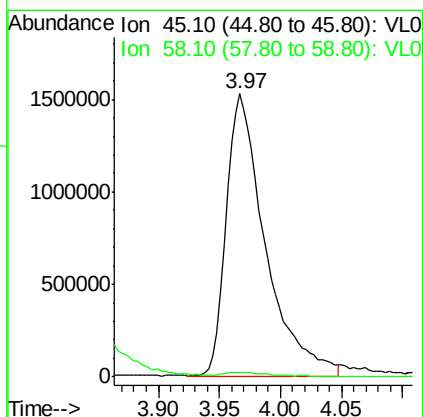
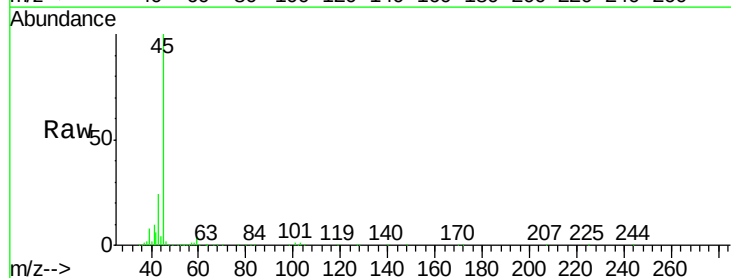
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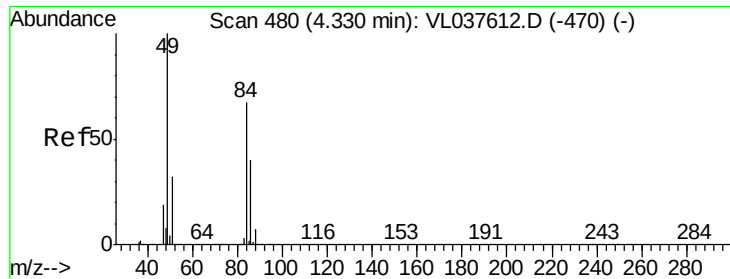
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#19
Isopropyl Alcohol
Concen: 41.704 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.02 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Tgt Ion: 45 Resp: 3408867
Ion Ratio Lower Upper
45 100
58 2.0 2.9 4.3#





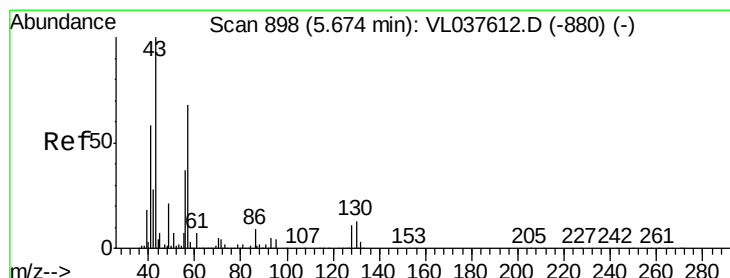
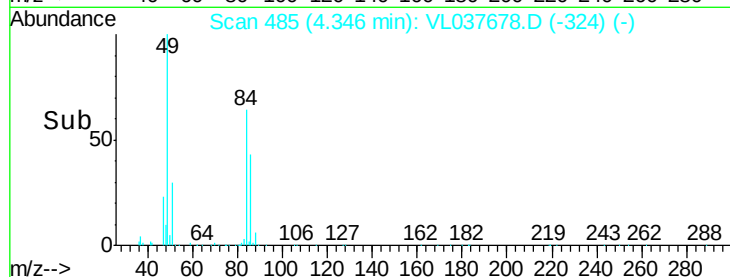
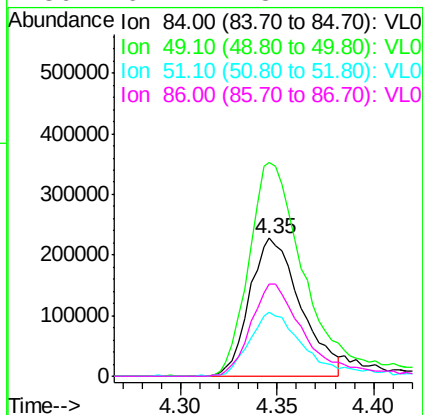
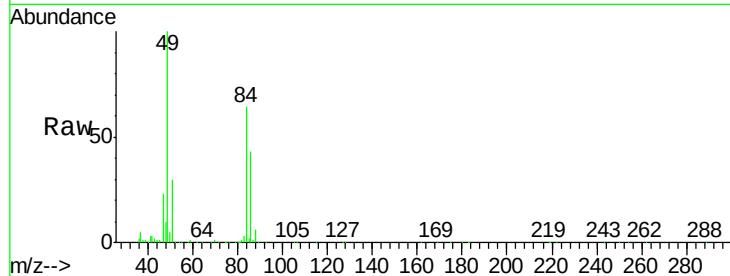
#20
Methylene Chloride
Concen: 5.846 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.02 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Instrument :
MSVOA_L
ClientSampled :
IA-9B

Tgt Ion	Ratio	Lower	Upper
84	100		
49	154.7	120.0	180.0
51	46.8	38.0	57.0
86	67.2	48.2	72.2

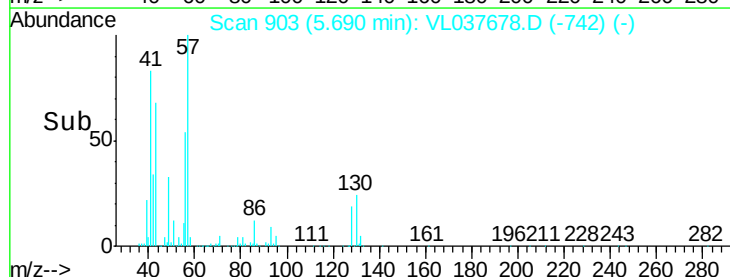
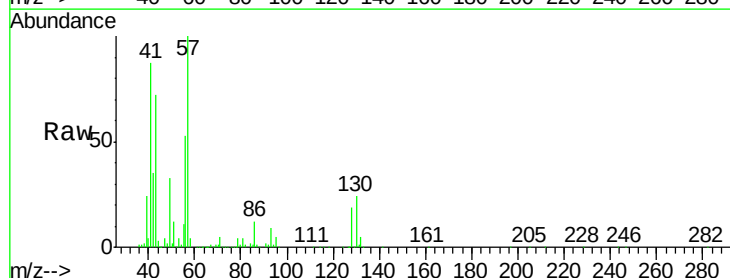
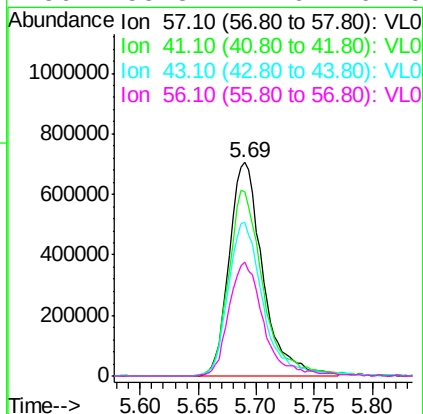
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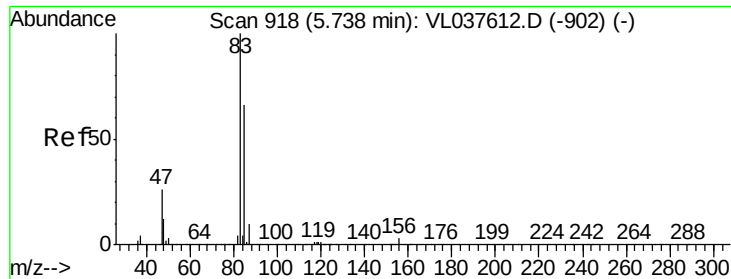
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#26
Hexane
Concen: 8.167 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.02 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.9	106.3
43	74.6	170.4	255.6#
56	55.3	42.6	64.0





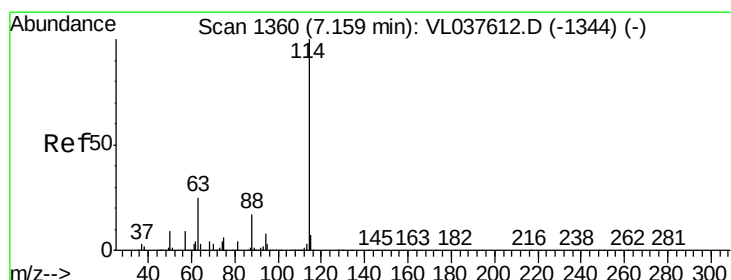
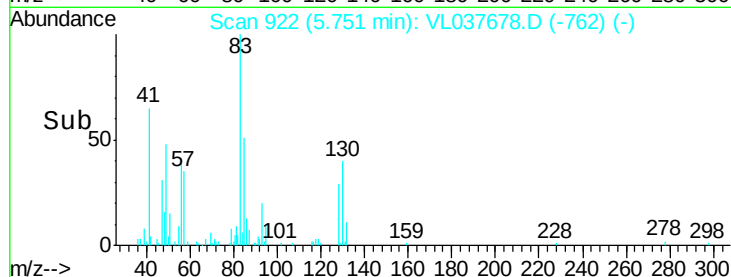
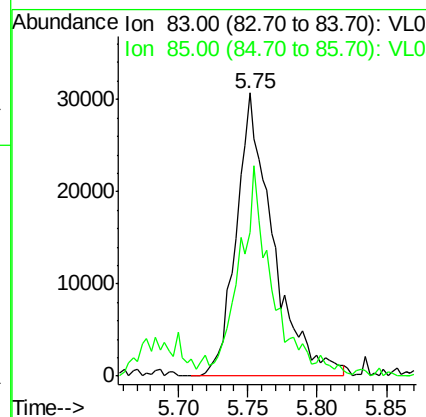
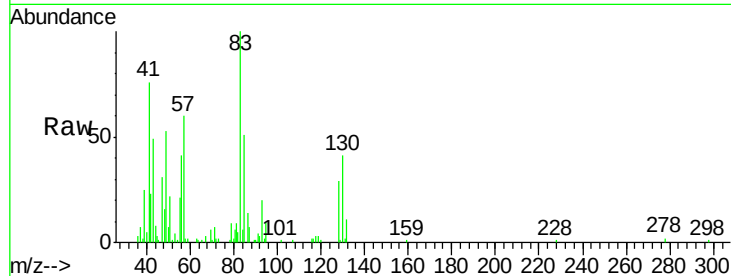
#29
Chloroform
Concen: 0.226 ppbv m
RT: 5.75 min Scan# 922
Delta R.T. 0.01 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
IA-9B

Tgt Ion: 83 Resp: 56912
Ion Ratio Lower Upper
83 100
85 50.8 52.6 79.0#

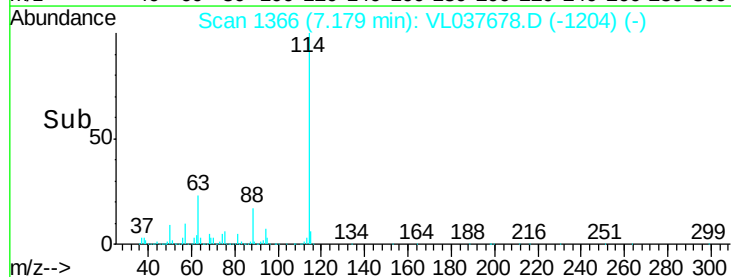
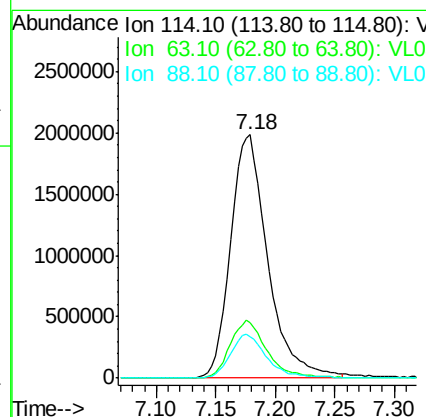
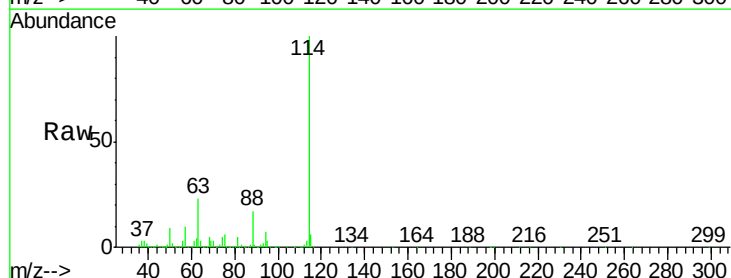
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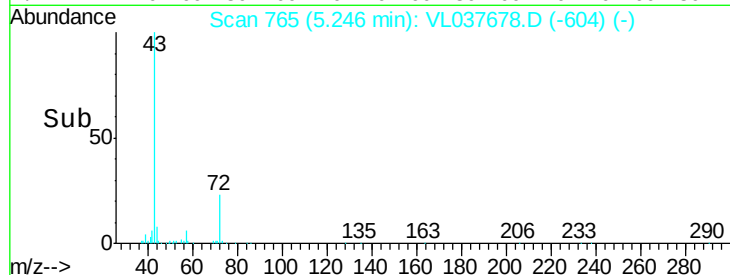
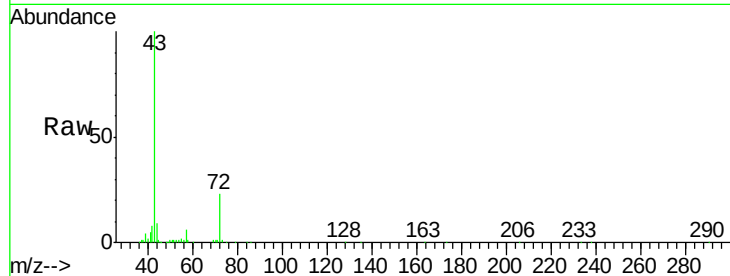
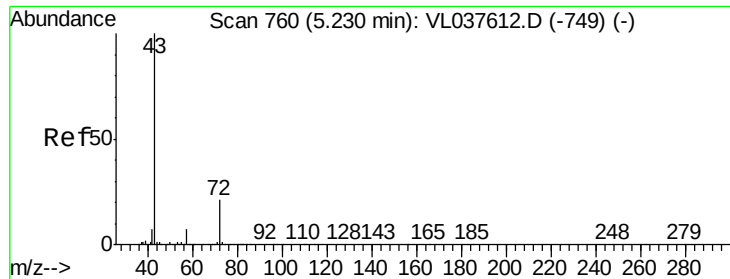
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.02 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Tgt Ion: 114 Resp: 4286327
Ion Ratio Lower Upper
114 100
63 23.9 19.6 29.4
88 18.0 14.2 21.4





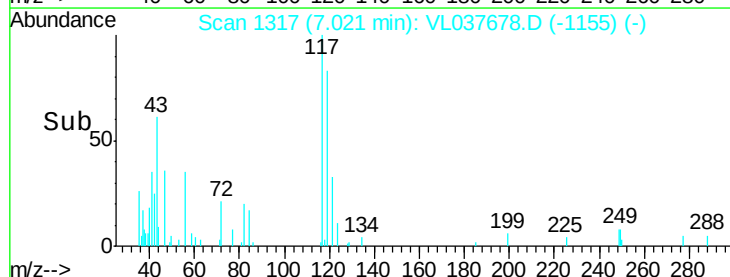
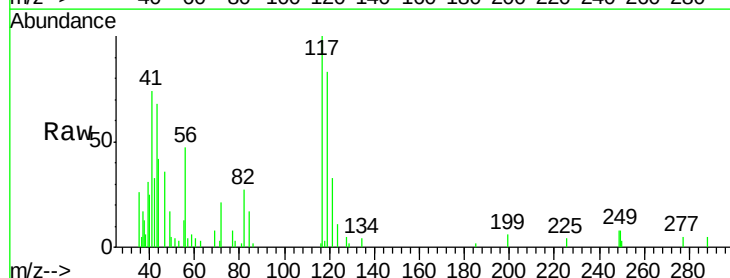
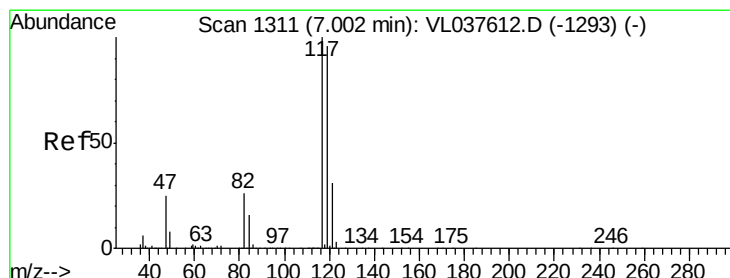
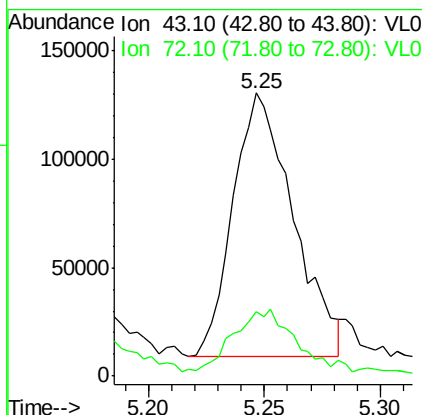
#34
2-Butanone
Concen: 1.255 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.02 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Tgt Ion: 43 Resp: 218541
Ion Ratio Lower Upper
43 100
72 31.4 18.4 27.6#

Instrument :
MSVOA_L
ClientSampleId :
IA-9B

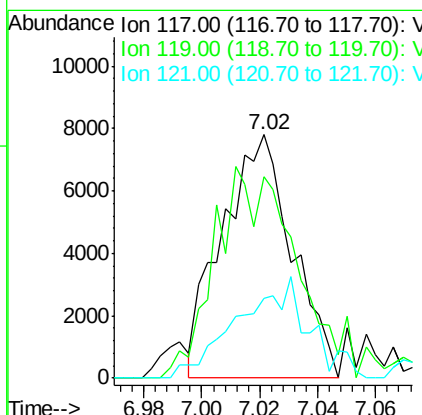
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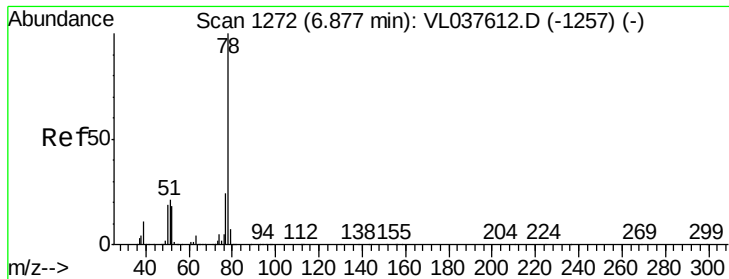
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#35
Carbon Tetrachloride
Concen: 0.054 ppbv
RT: 7.02 min Scan# 1317
Delta R.T. 0.02 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Tgt Ion: 117 Resp: 13117
Ion Ratio Lower Upper
117 100
119 74.1 77.0 115.6#
121 23.3 24.5 36.7#





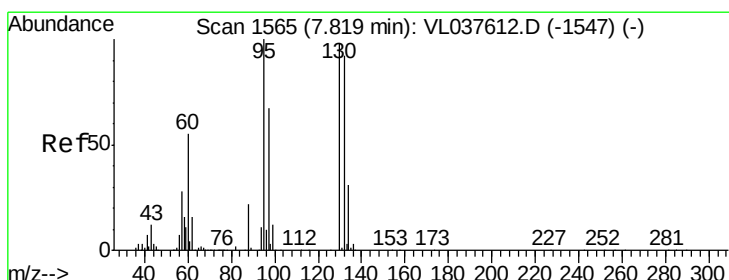
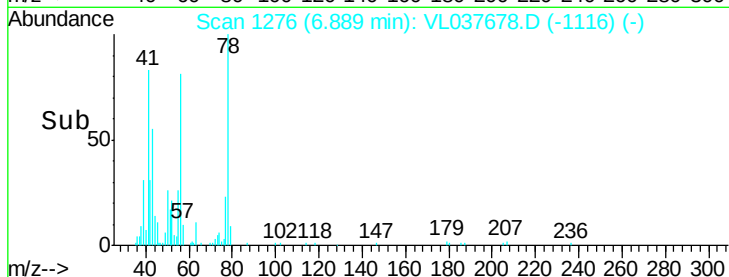
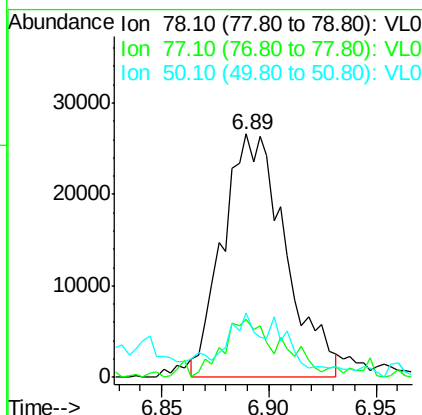
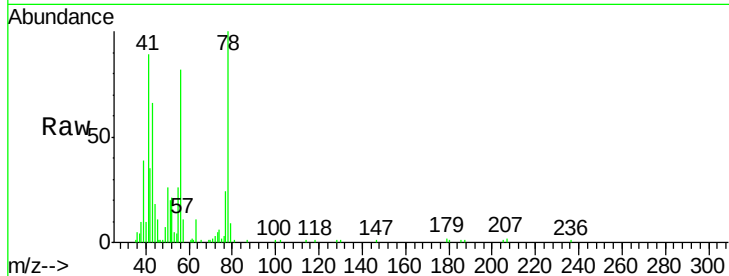
#36
Benzene
Concen: 0.151 ppbv m
RT: 6.89 min Scan# 1276
Delta R.T. 0.01 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
IA-9B

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4
50	26.5	14.8	22.2#

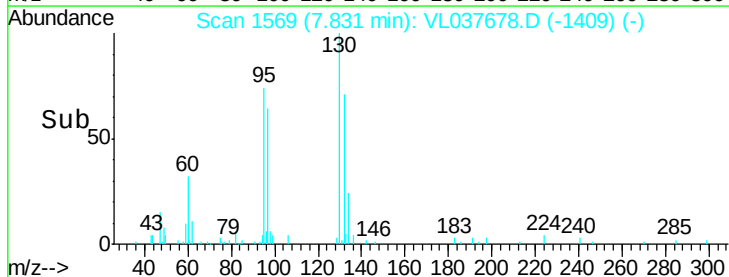
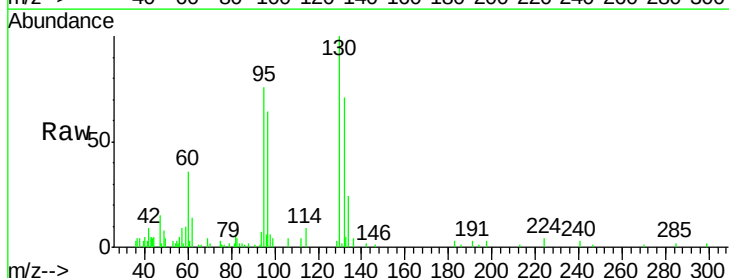
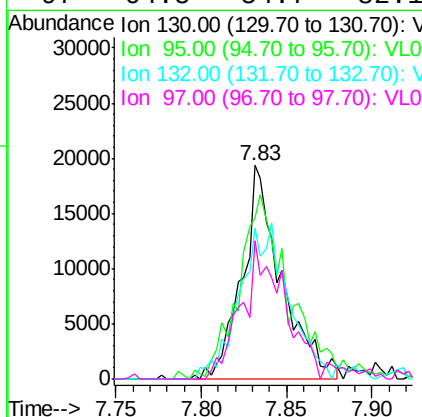
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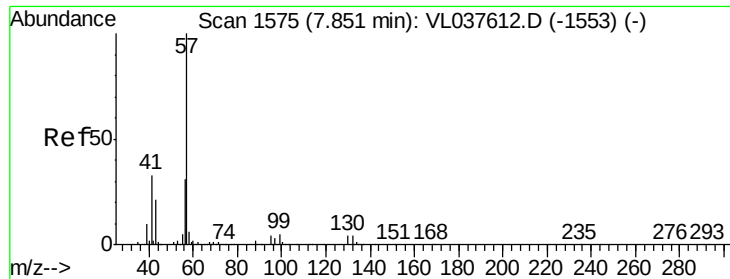
MMDadoda
10/1/2021 11:04:53 AM



#38
Trichloroethene
Concen: 0.208 ppbv m
RT: 7.83 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	75.5	81.8	122.6#
132	70.6	75.3	112.9#
97	64.5	54.7	82.1





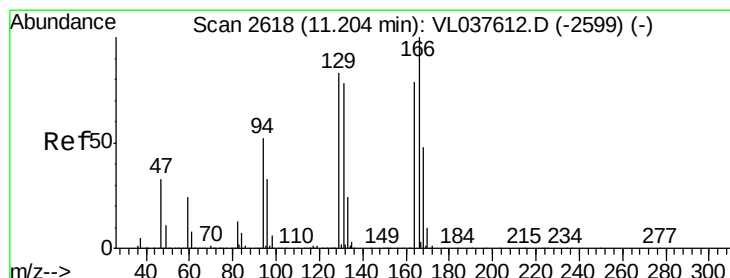
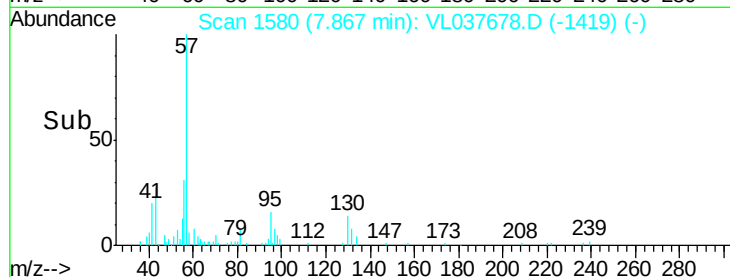
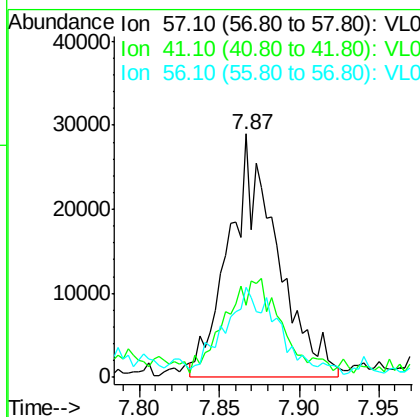
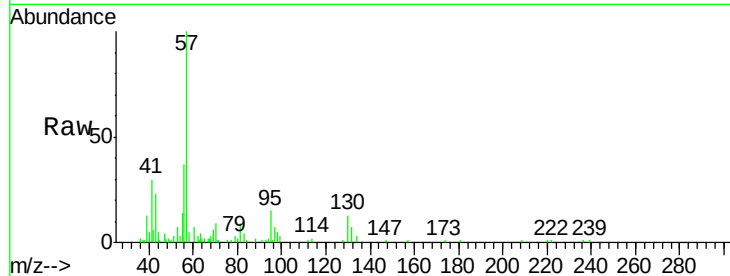
#44
 2,2,4-Trimethylpentane
 Concen: 0.102 ppbv m
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VL037678.D
 Acq: 27 Sep 2021 13:23

Instrument :
 MSVOA_L
 ClientSampled :
 IA-9B

Tgt Ion	Ratio	Lower	Upper
57	100		
41	40.8	26.1	39.1#
56	0.0	25.7	38.5#

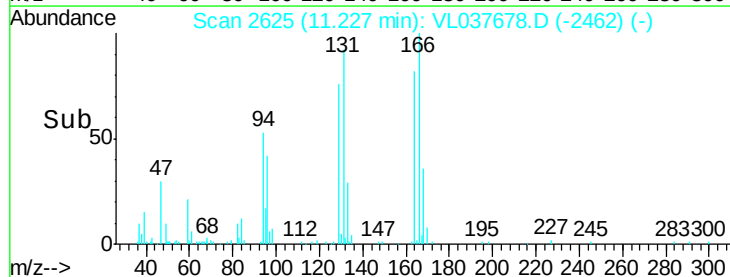
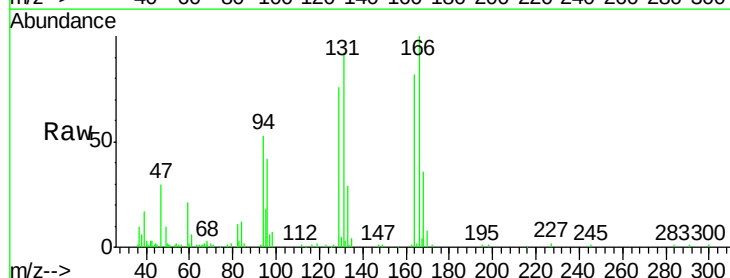
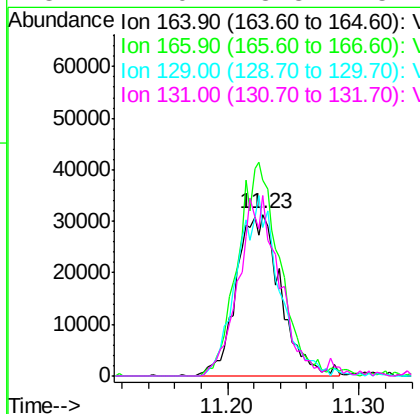
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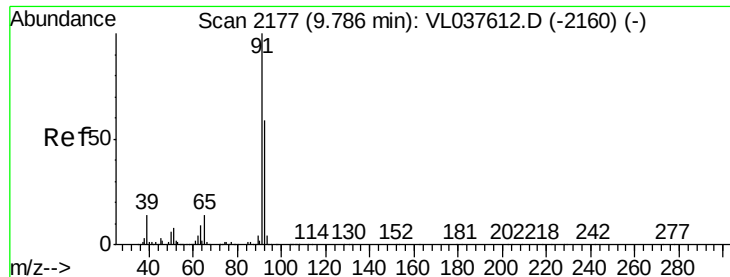
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#52
 Tetrachloroethene
 Concen: 0.533 ppbv m
 RT: 11.23 min Scan# 2625
 Delta R.T. 0.02 min
 Lab File: VL037678.D
 Acq: 27 Sep 2021 13:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.2	101.2	151.8
129	91.7	84.0	126.0
131	112.0	78.8	118.2





#53

Toluene

Concen: 0.334 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.02 min

Lab File: VL037678.D

Acq: 27 Sep 2021 13:23

Instrument :

MSVOA_L

ClientSampled :

IA-9B

Tgt Ion: 91 Resp: 132877

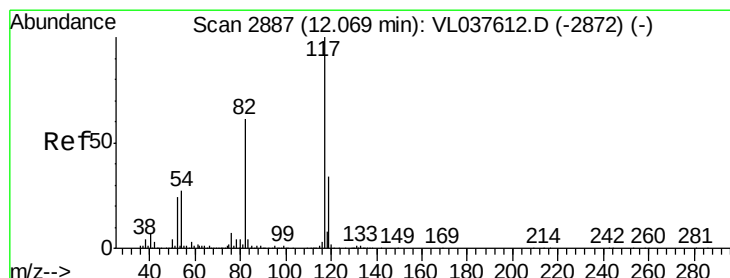
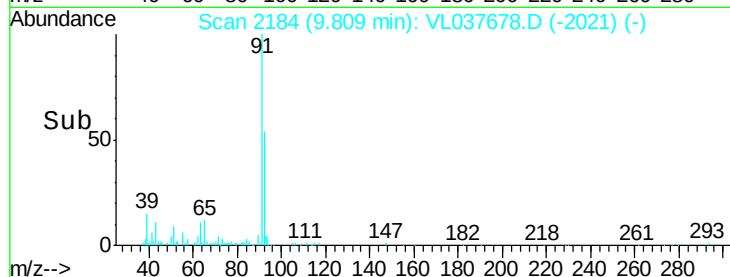
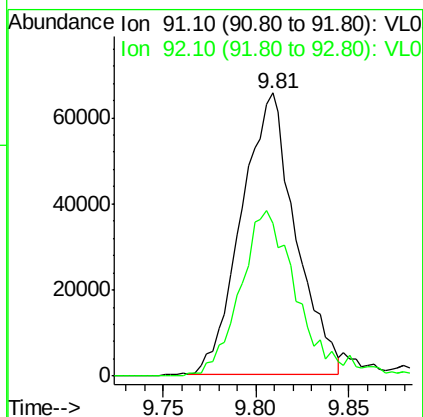
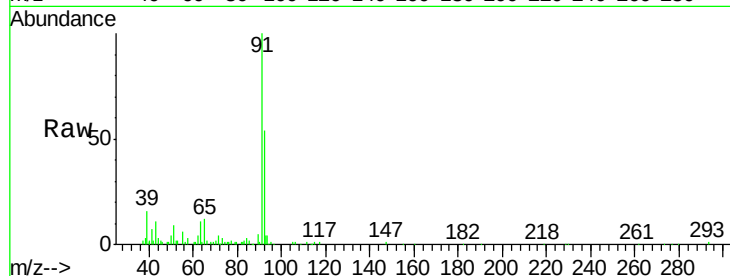
Ion Ratio Lower Upper

91 100

92 63.5 48.9 73.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.02 min

Lab File: VL037678.D

Acq: 27 Sep 2021 13:23

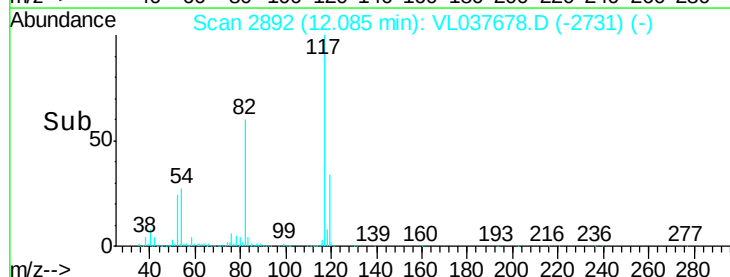
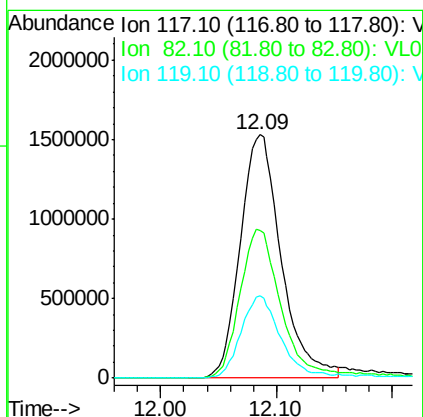
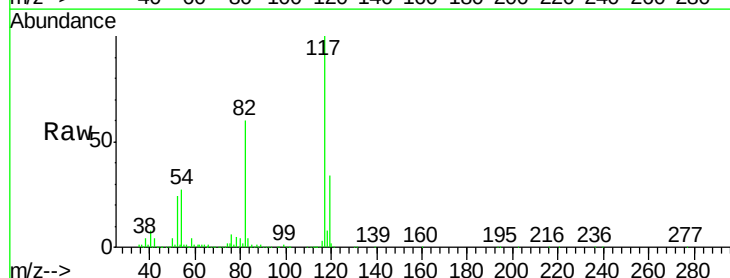
Tgt Ion: 117 Resp: 3765208

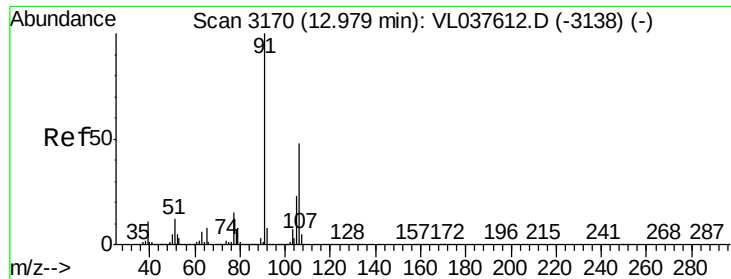
Ion Ratio Lower Upper

117 100

82 64.3 50.6 75.8

119 34.9 26.2 39.2





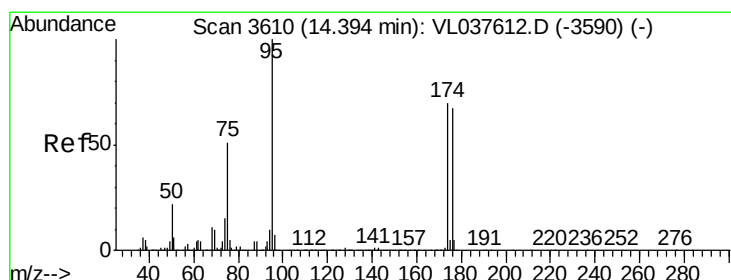
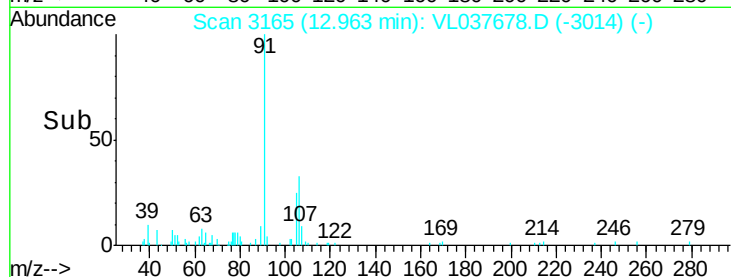
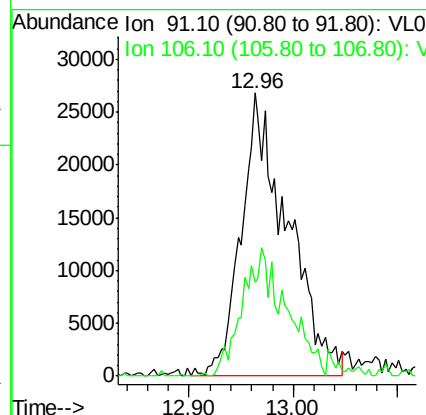
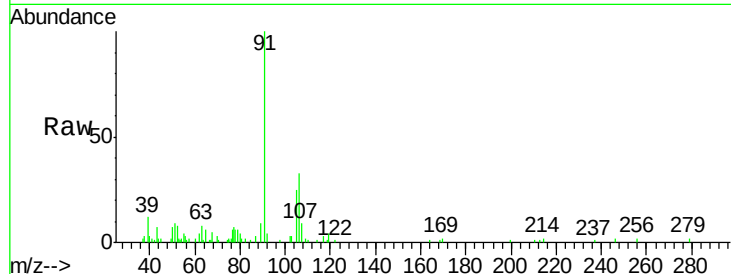
#59
m/p-Xylene
Concen: 0.190 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.02 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
IA-9B

Tgt Ion: 91 Resp: 82901
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.411 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.02 min
Lab File: VL037678.D
Acq: 27 Sep 2021 13:23

Tgt Ion: 95 Resp: 2560761
Ion Ratio Lower Upper
95 100
174 78.6 56.3 84.5
175 5.9 4.4 6.6

