

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037781.D
 Acq On : 5 Oct 2021 19:59
 Operator : SY/AP
 Sample : M4012-10
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P01

Manual Integrations
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 10/11/2021 7:36:26 PM

Quant Time: Oct 06 06:12:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	1236678	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3546370	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3127970	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2200485	10.06	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	25621	0.130	ppbv	98
4) Chloromethane	3.13	50	59787	0.687	ppbv	97
9) Propene	3.00	41	28467	0.326	ppbv	91
10) Heptane	8.10	43	83812m	0.422	ppbv	
11) Trichlorofluoromethane	3.93	101	36324m	0.206	ppbv	
13) Ethanol	3.59	45	290382	40.612	ppbv	85
15) Acetone	3.83	43	1327752	11.960	ppbv #	79
19) Isopropyl Alcohol	3.95	45	551858	7.990	ppbv #	1
20) Methylene Chloride	4.33	84	1934699	34.491	ppbv	97
26) Hexane	5.67	57	695468	4.534	ppbv #	45
27) Carbon Disulfide	4.54	76	327176	2.407	ppbv	99
29) Chloroform	5.73	83	145804	0.665	ppbv	96
30) Cyclohexane	7.11	84	40242m	0.309	ppbv	
32) 1,1,1-Trichloroethane	6.48	97	75410	0.363	ppbv	91
34) 2-Butanone	5.23	43	228819	1.598	ppbv #	83
36) Benzene	6.87	78	126466	0.418	ppbv	95
50) 4-Methyl-2-Pentanone	8.73	43	52183m	0.280	ppbv	
52) Tetrachloroethene	11.20	164	5011386	42.524	ppbv	96
53) Toluene	9.78	91	228305	0.680	ppbv	98
58) Ethyl Benzene	12.69	91	135470	0.323	ppbv	92
59) m/p-Xylene	12.95	91	309329m	0.858	ppbv	
60) o-Xylene	13.66	91	126757m	0.367	ppbv	
73) 1,3,5-Trimethylbenzene	15.97	105	37726	0.106	ppbv #	74
74) 1,2,4-Trimethylbenzene	16.74	105	161391m	0.431	ppbv	
75) 1,3-Dichlorobenzene	16.98	146	69468m	0.300	ppbv	
79) Naphthalene	22.16	128	50196m	0.219	ppbv	

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

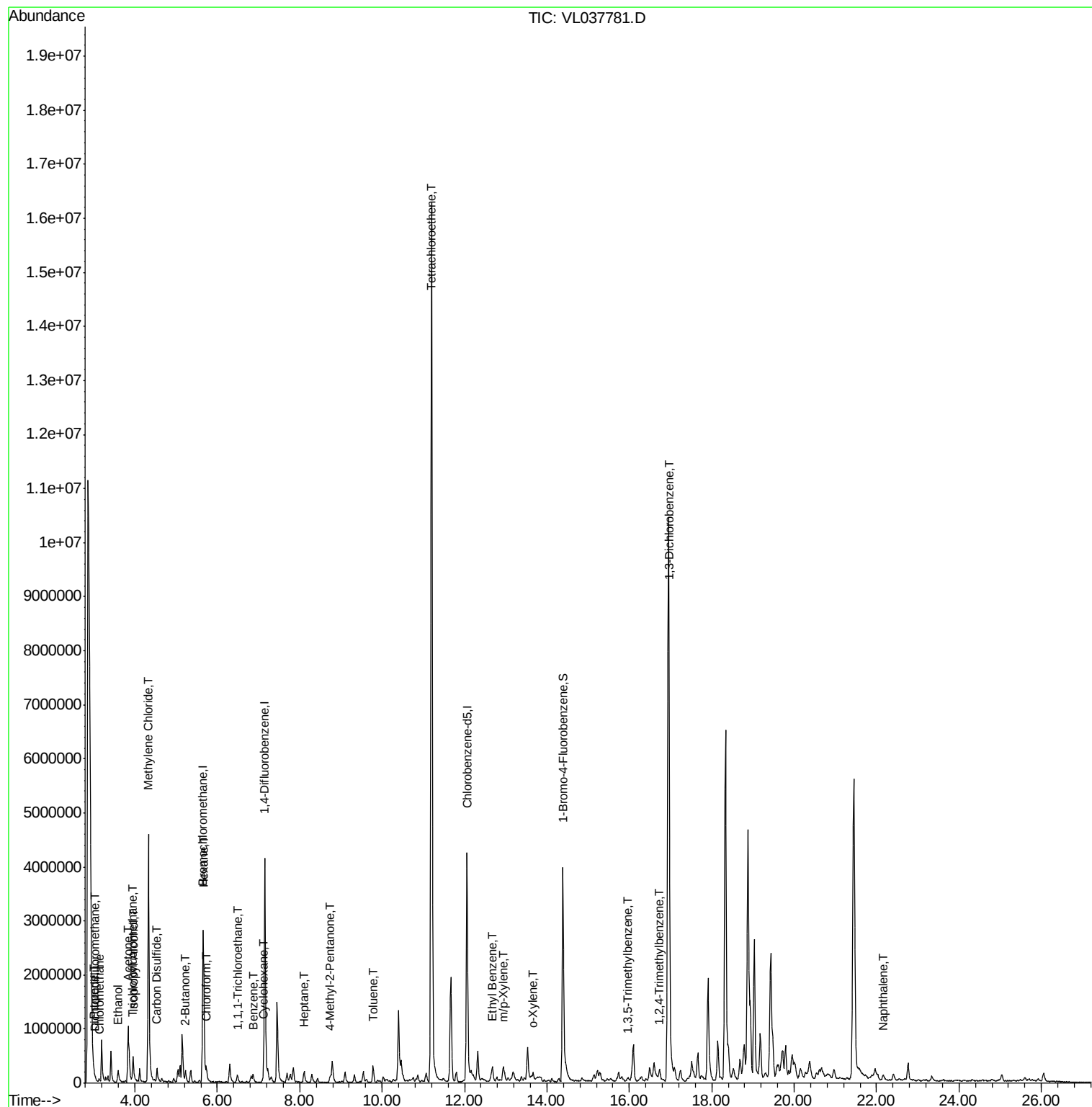
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037781.D
Acq On : 5 Oct 2021 19:59
Operator : SY/AP
Sample : M4012-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

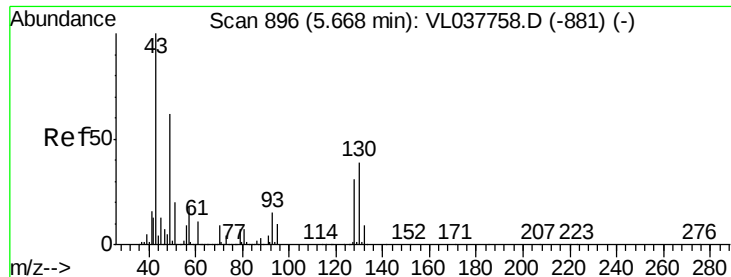
Instrument :
MSVOA_L
ClientSampleId :
C0P01

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Quant Time: Oct 06 06:12:29 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# 889

Delta R.T. -0.02 min

Lab File: VL037781.D

Acq: 5 Oct 2021 19:59

Instrument :

MSVOA_L

ClientSampled :

C0P01

Tgt Ion: 49 Resp: 1236678

Ion Ratio Lower Upper

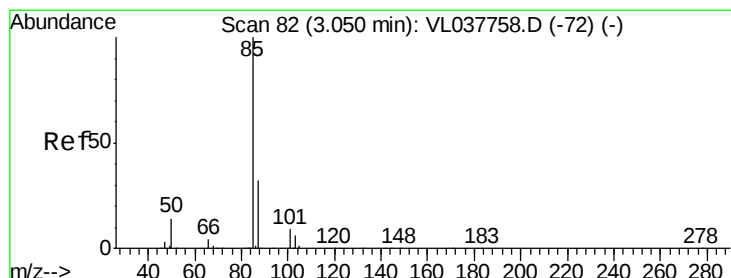
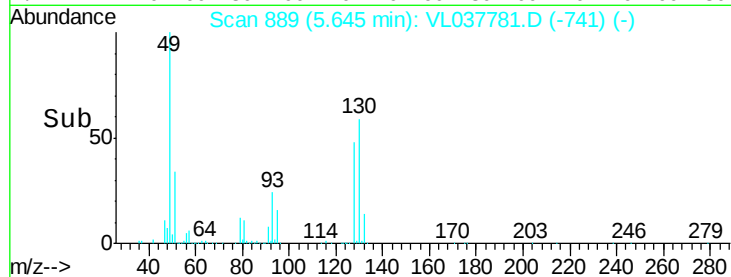
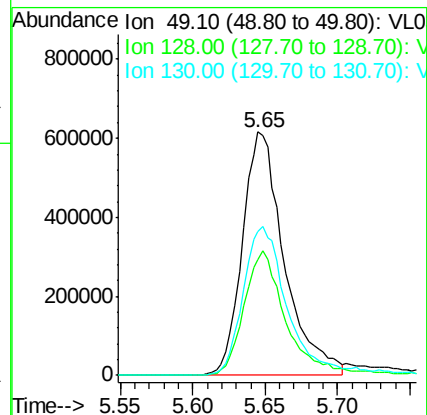
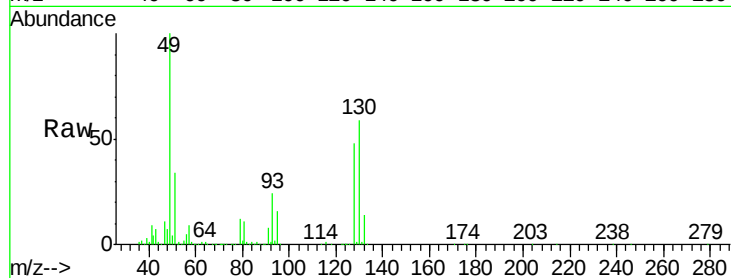
49 100

128 52.4 27.1 81.3

130 67.2 33.2 99.6

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#2

Dichlorodifluoromethane

Concen: 0.130 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL037781.D

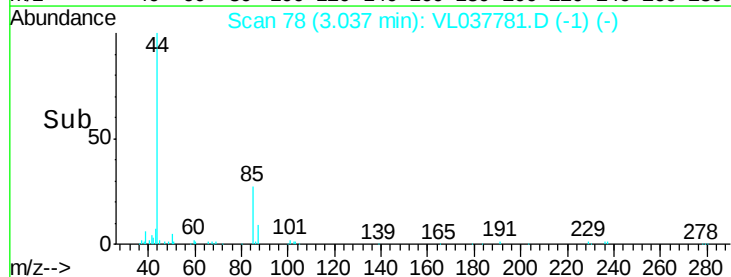
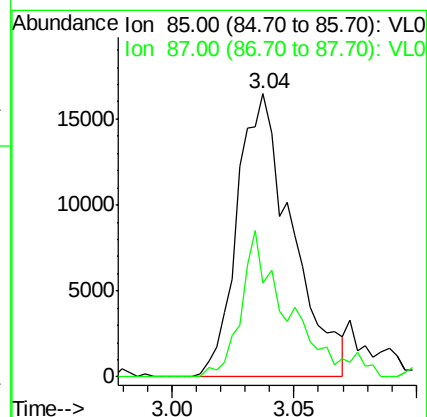
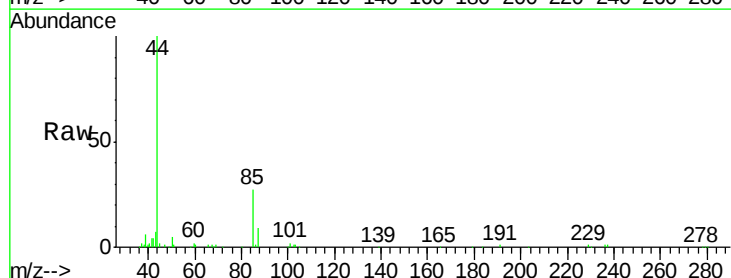
Acq: 5 Oct 2021 19:59

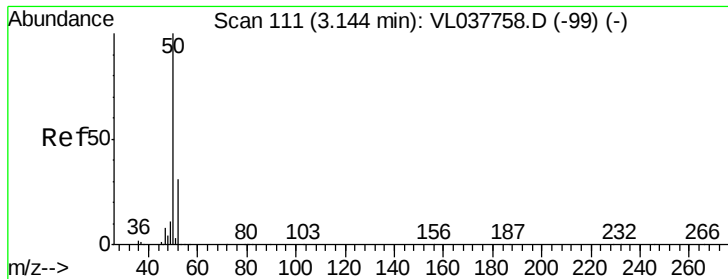
Tgt Ion: 85 Resp: 25621

Ion Ratio Lower Upper

85 100

87 33.0 25.7 38.5





#4

Chloromethane

Concen: 0.687 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL037781.D

Acq: 5 Oct 2021 19:59

Instrument :

MSVOA_L

ClientSampleId :

C0P01

Tgt Ion: 50 Resp: 59787

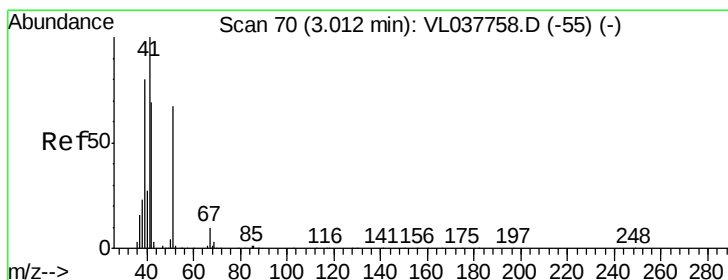
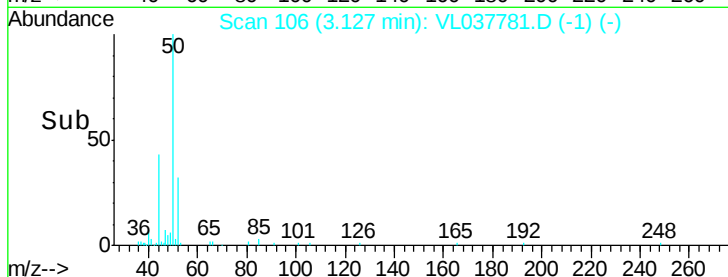
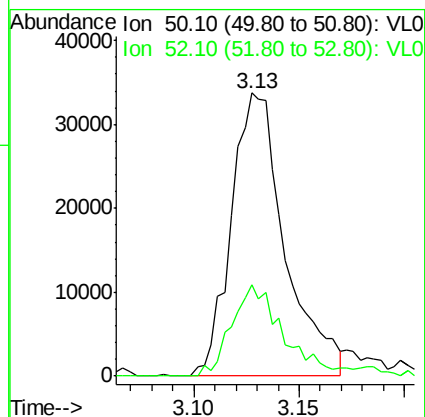
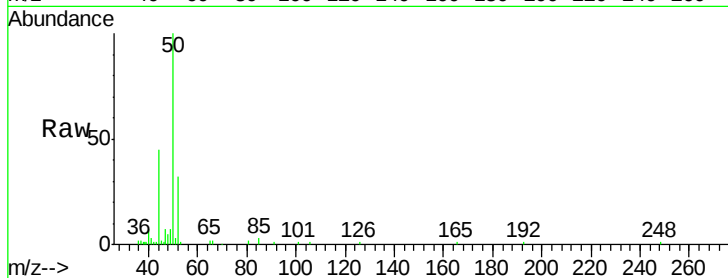
Ion Ratio Lower Upper

50 100

52 32.3 24.4 36.6

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#9

Propene

Concen: 0.326 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037781.D

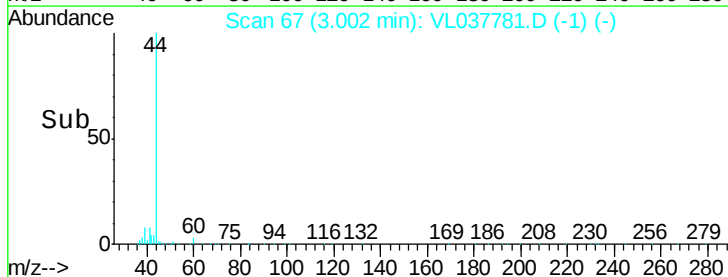
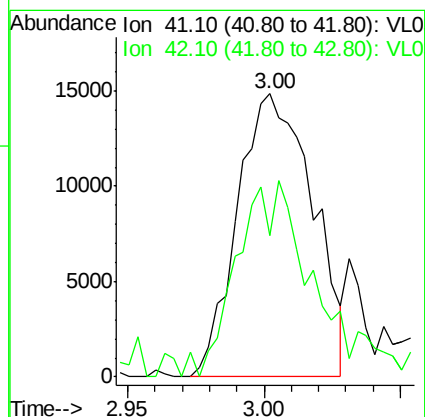
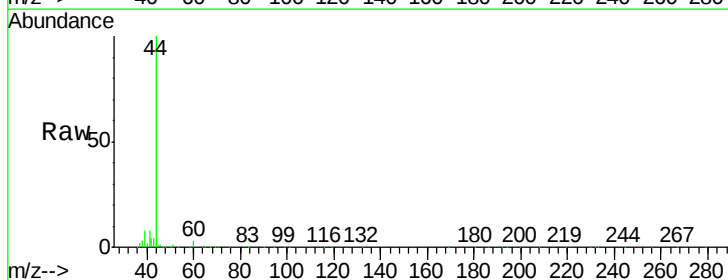
Acq: 5 Oct 2021 19:59

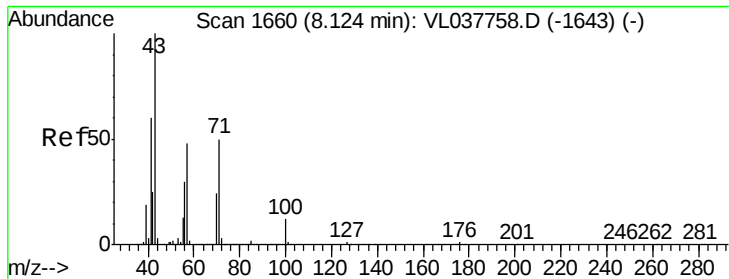
Tgt Ion: 41 Resp: 28467

Ion Ratio Lower Upper

41 100

42 75.3 54.2 81.2





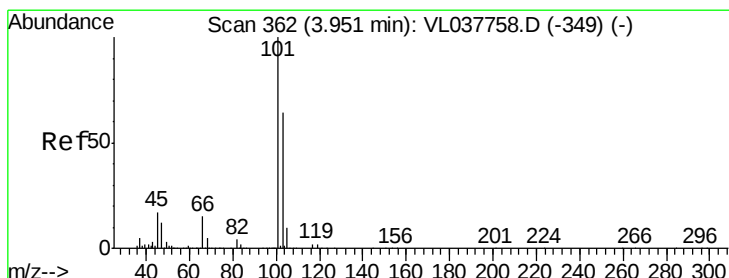
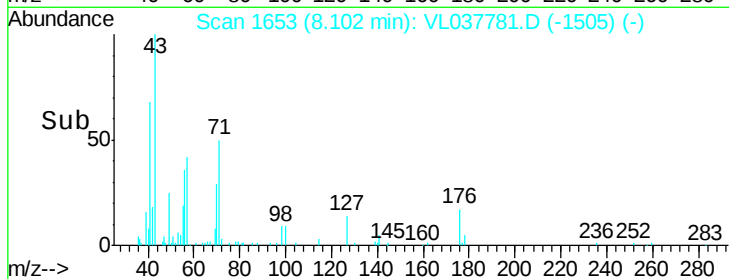
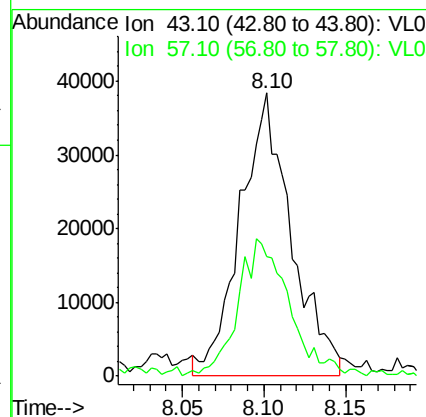
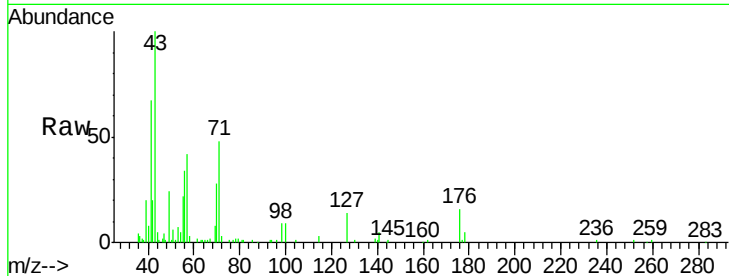
#10
 Heptane
 Concen: 0.422 ppbv m
 RT: 8.10 min Scan# 1653
 Delta R.T. -0.02 min
 Lab File: VL037781.D
 Acq: 5 Oct 2021 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P01

Tgt Ion: 43 Resp: 83812
 Ion Ratio Lower Upper
 43 100
 57 49.0 40.0 60.0

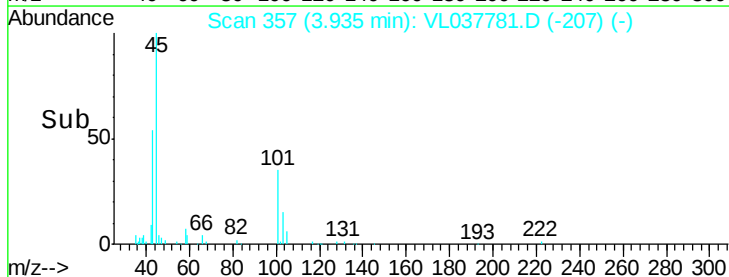
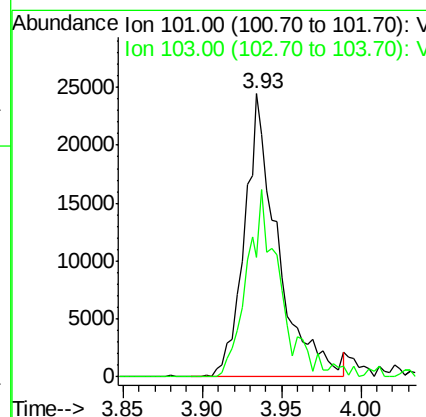
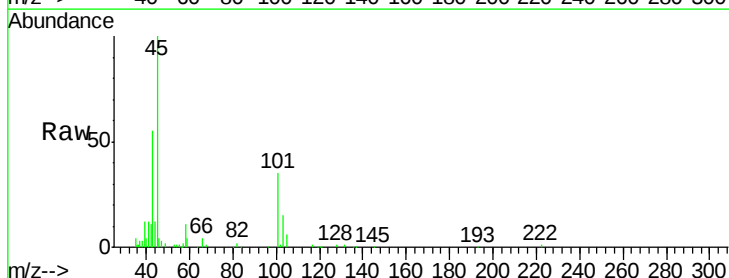
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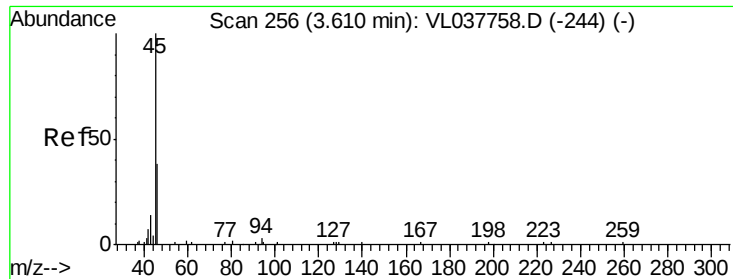
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#11
 Trichlorofluoromethane
 Concen: 0.206 ppbv m
 RT: 3.93 min Scan# 357
 Delta R.T. -0.02 min
 Lab File: VL037781.D
 Acq: 5 Oct 2021 19:59

Tgt Ion: 101 Resp: 36324
 Ion Ratio Lower Upper
 101 100
 103 42.2 51.5 77.3#





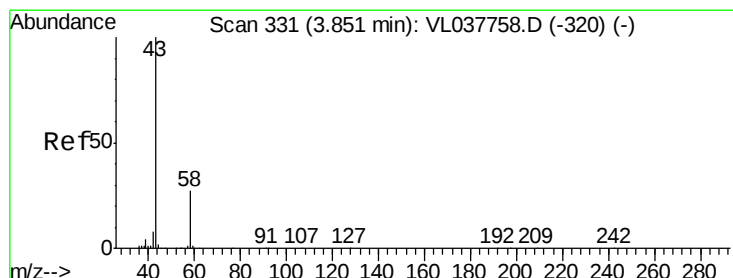
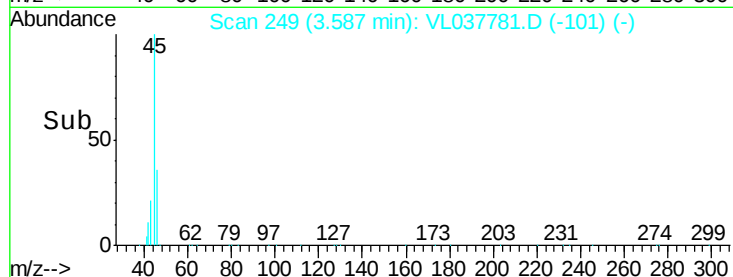
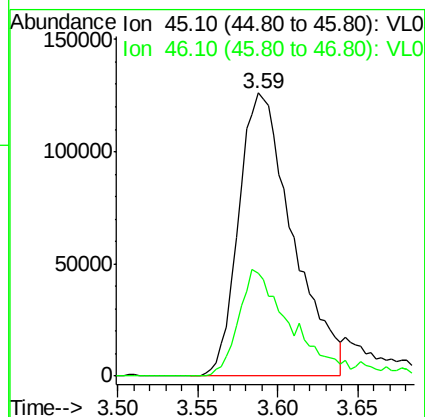
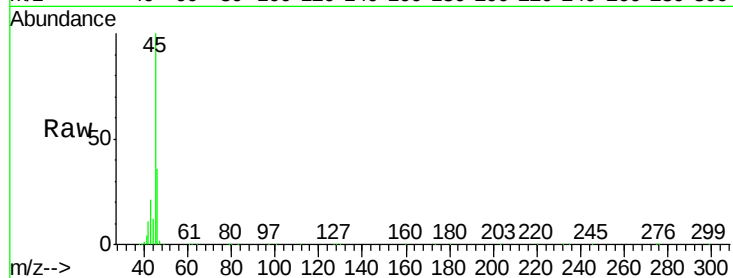
#13
Ethanol
Concen: 40.612 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Instrument :
MSVOA_L
ClientSampled :
C0P01

Tgt Ion: 45 Resp: 290382
Ion Ratio Lower Upper
45 100
46 40.2 20.2 81.0

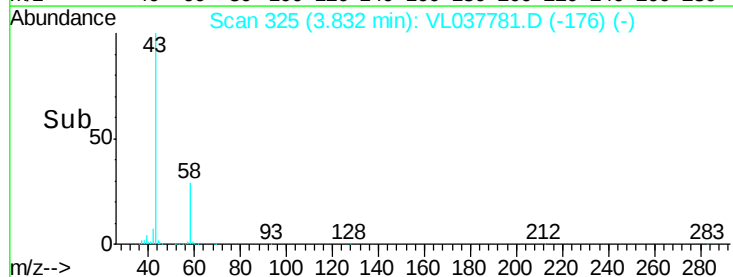
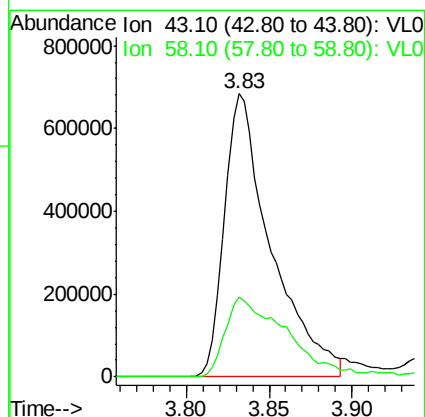
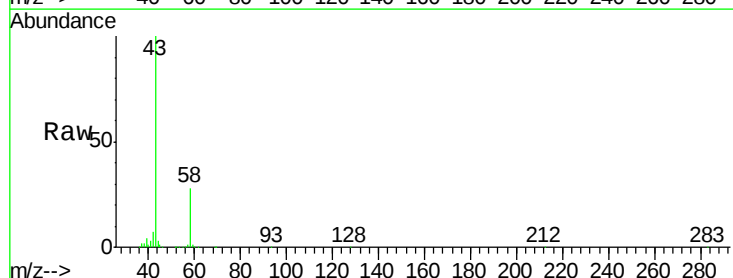
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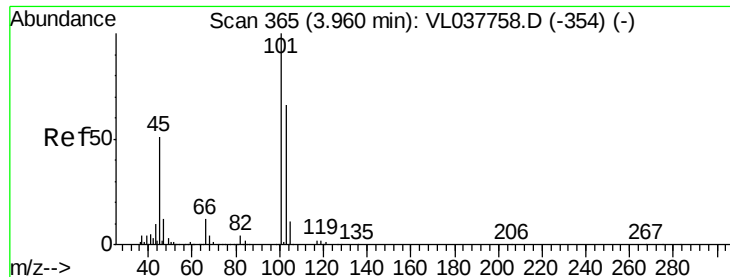
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#15
Acetone
Concen: 11.960 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Tgt Ion: 43 Resp: 1327752
Ion Ratio Lower Upper
43 100
58 40.2 23.0 34.6#





#19

Isopropyl Alcohol

Concen: 7.990 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL037781.D

Acq: 5 Oct 2021 19:59

Instrument :

MSVOA_L

ClientSampled :

C0P01

Tgt Ion: 45 Resp: 551858

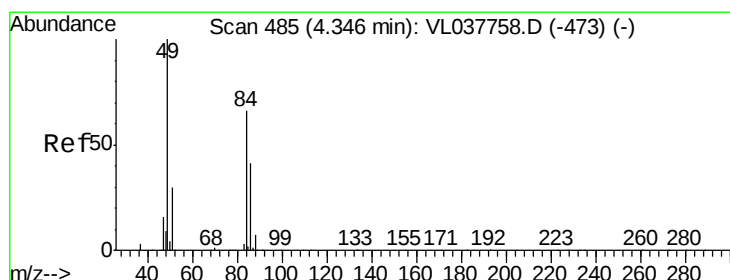
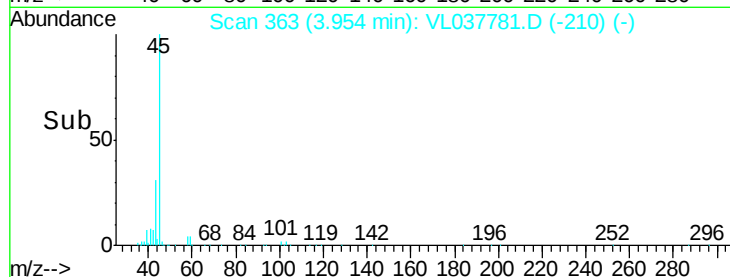
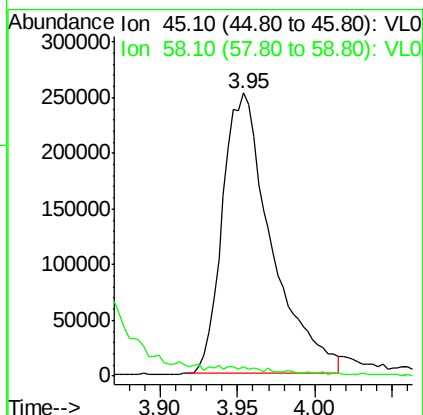
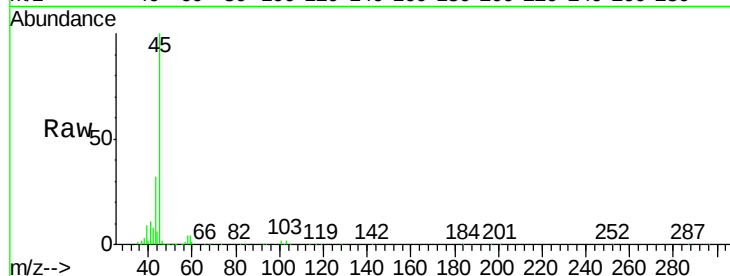
Ion Ratio Lower Upper

45 100

58 91.0 1.1 1.7#

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#20

Methylene Chloride

Concen: 34.491 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL037781.D

Acq: 5 Oct 2021 19:59

Tgt Ion: 84 Resp: 1934699

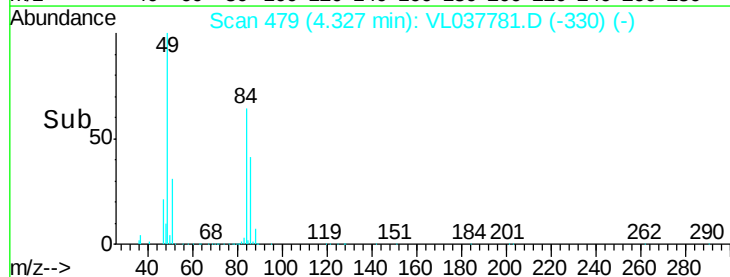
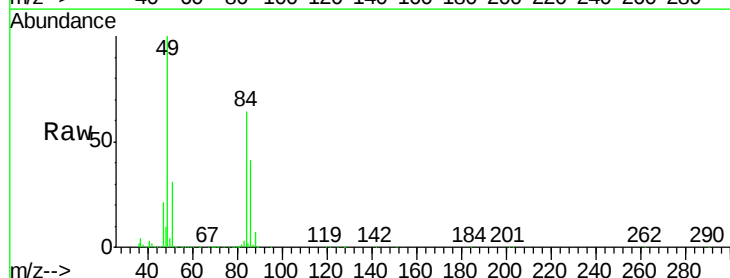
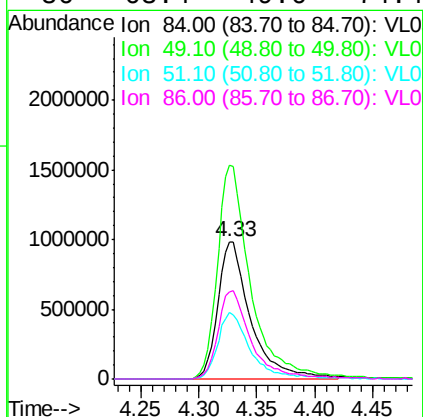
Ion Ratio Lower Upper

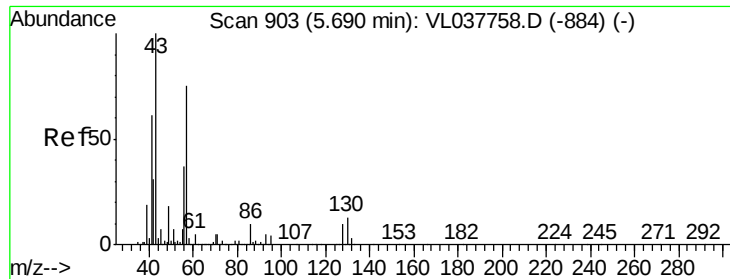
84 100

49 155.1 120.7 181.1

51 48.0 36.2 54.4

86 63.4 49.6 74.4





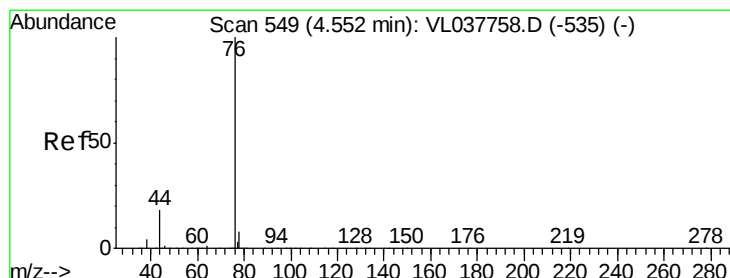
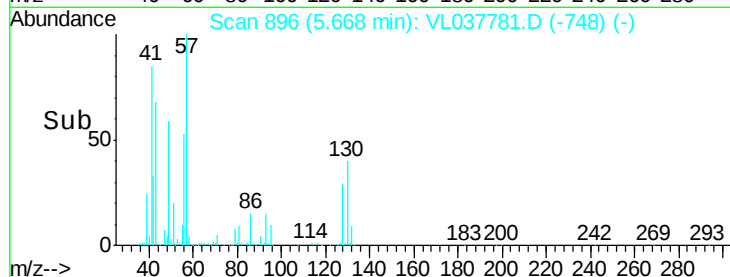
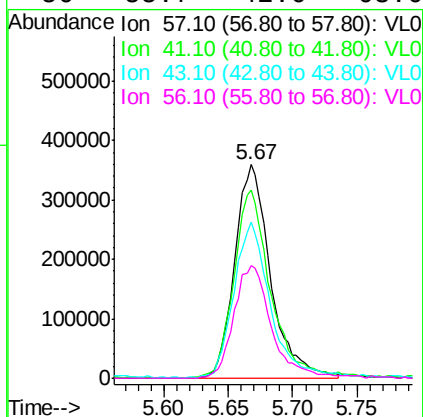
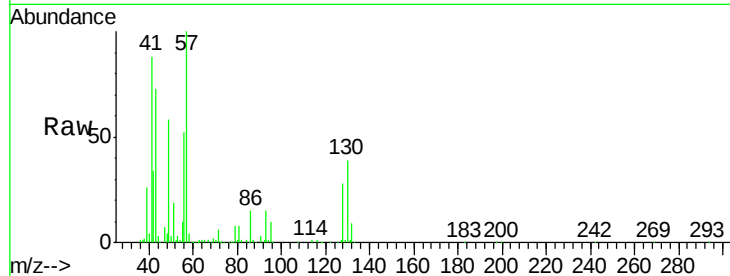
#26
Hexane
Concen: 4.534 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Instrument :
MSVOA_L
ClientSampled :
C0P01

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.7	69.6	104.4
43	74.9	171.4	257.0#
56	55.7	42.0	63.0

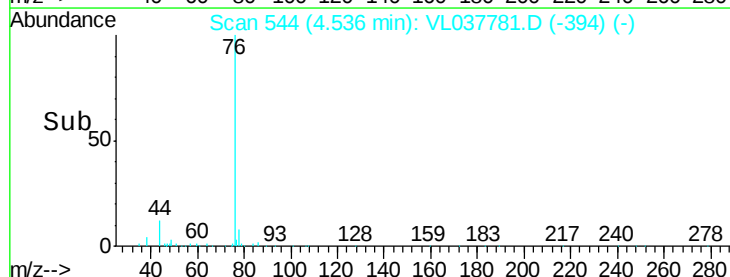
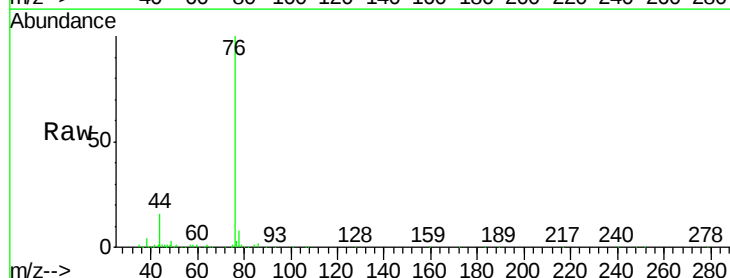
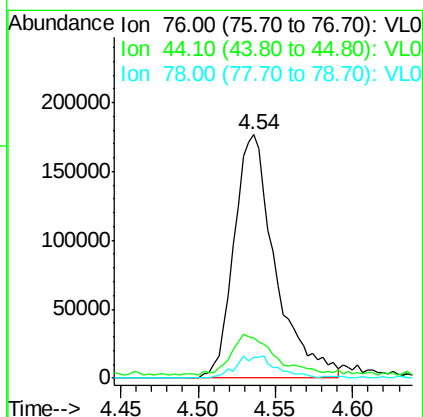
Manual Integrations
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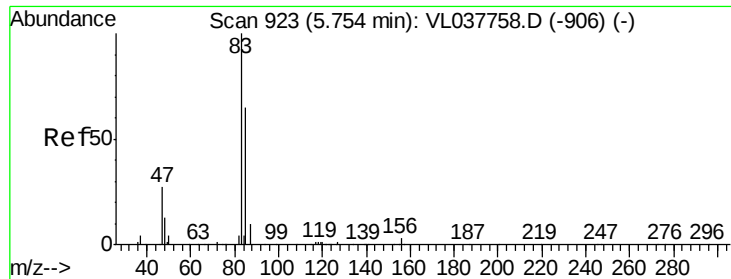
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#27
Carbon Disulfide
Concen: 2.407 ppbv
RT: 4.54 min Scan# 544
Delta R.T. -0.02 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Tgt Ion	Ratio	Lower	Upper
76	100		
44	18.4	14.3	21.5
78	9.6	7.8	11.6





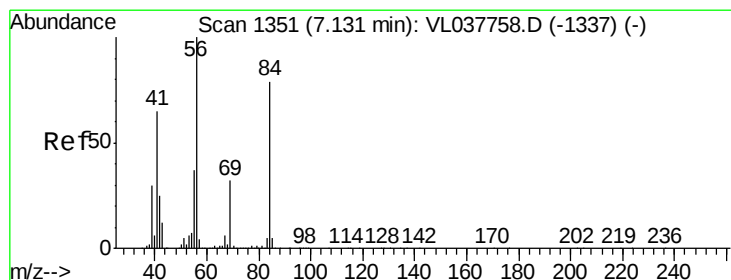
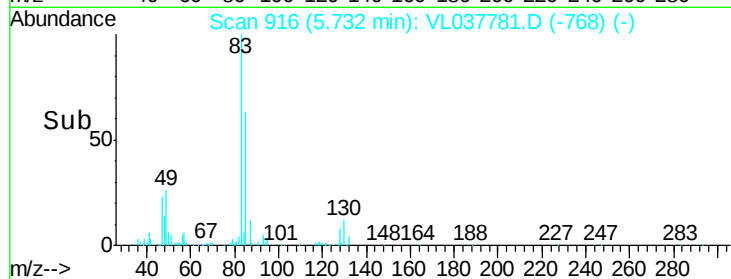
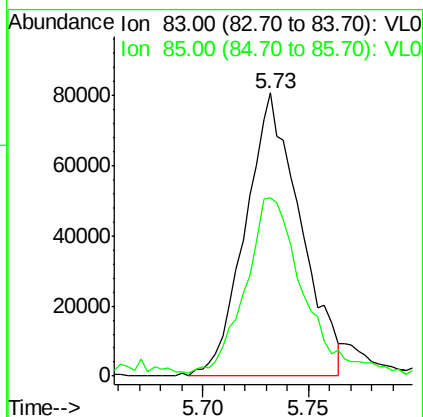
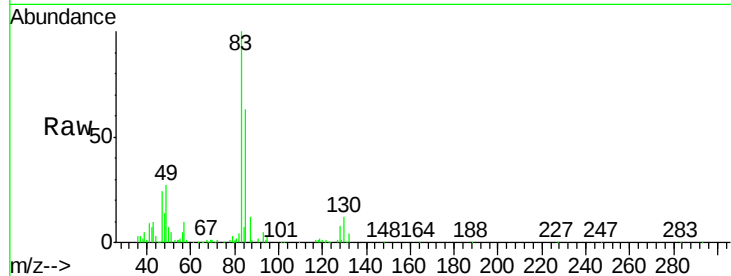
#29
Chloroform
Concen: 0.665 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.02 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Instrument :
MSVOA_L
ClientSampleId :
C0P01

Tgt Ion: 83 Resp: 145804
Ion Ratio Lower Upper
83 100
85 62.0 51.8 77.8

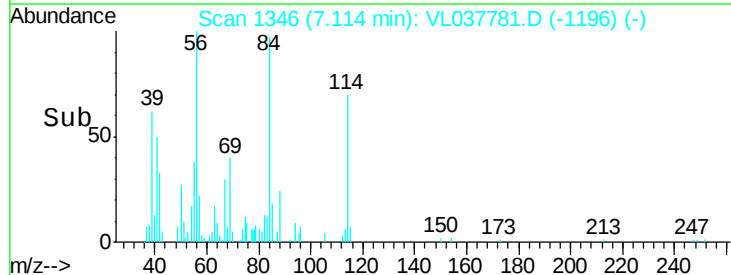
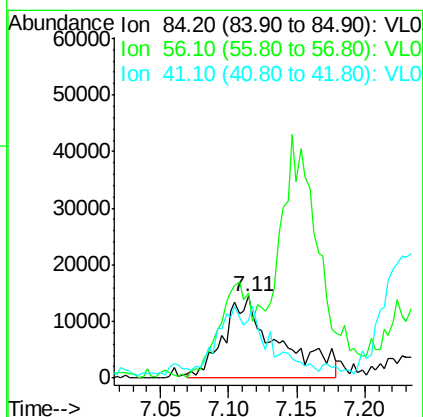
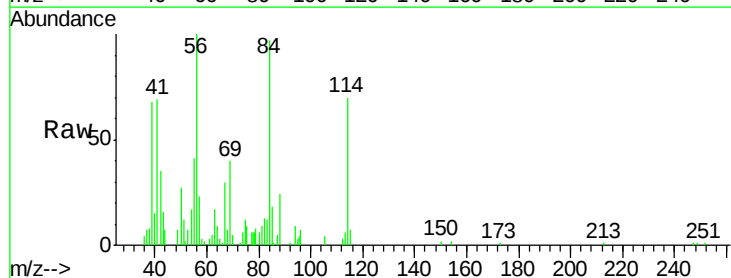
Manual Integrations
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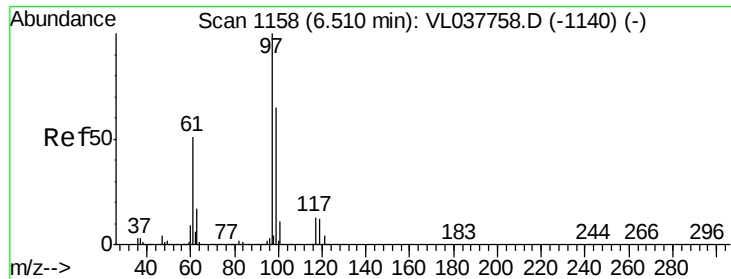
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#30
Cyclohexane
Concen: 0.309 ppbv m
RT: 7.11 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Tgt Ion: 84 Resp: 40242
Ion Ratio Lower Upper
84 100
56 0.0 113.0 169.4#
41 0.0 69.1 103.7#





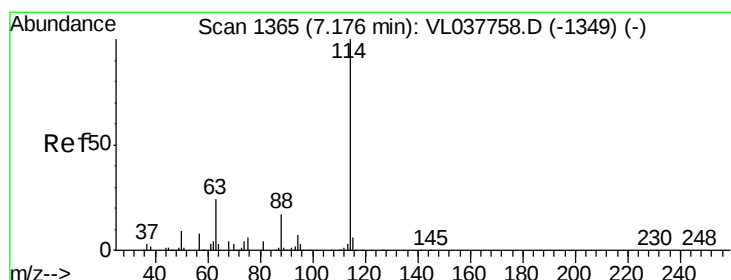
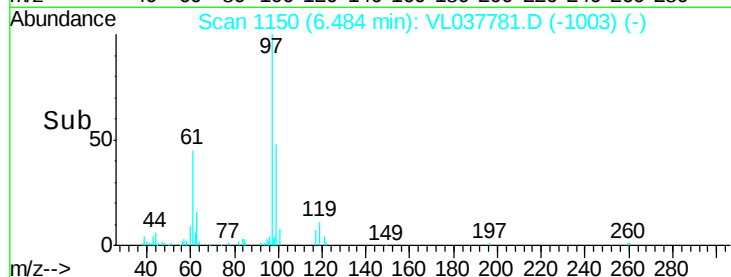
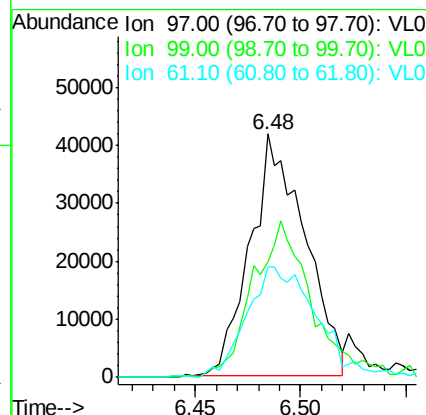
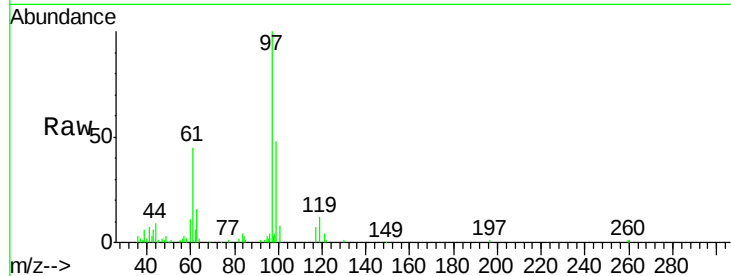
#32
 1,1,1-Trichloroethane
 Concen: 0.363 ppbv
 RT: 6.48 min Scan# 1150
 Delta R.T. -0.03 min
 Lab File: VL037781.D
 Acq: 5 Oct 2021 19:59

Instrument :
 MSVOA_L
 ClientSampled :
 C0P01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	70.6	52.6	78.8
61	59.3	40.2	60.4

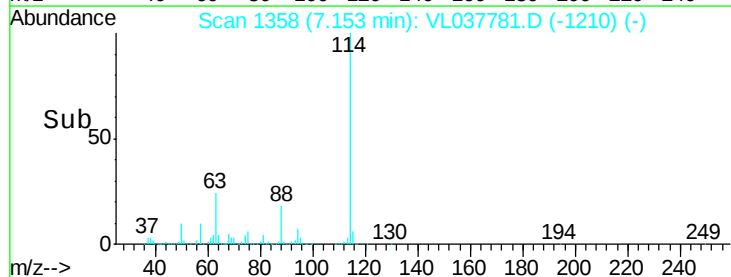
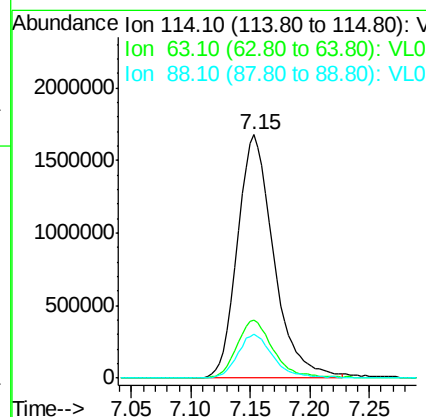
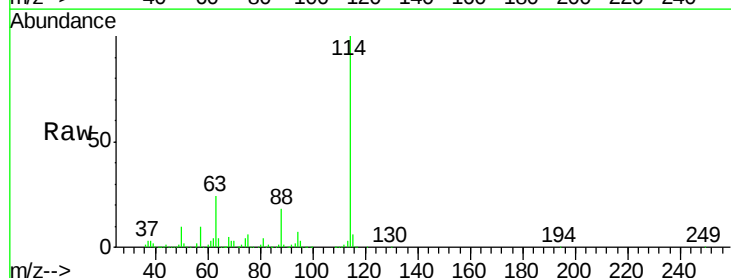
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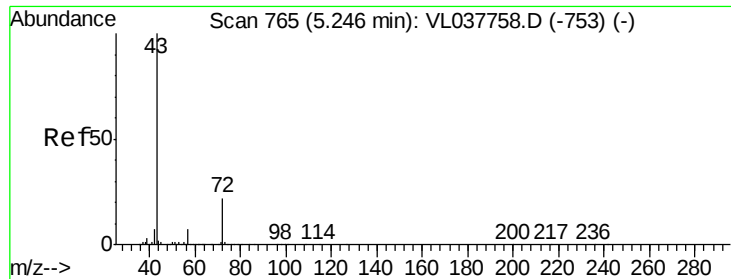
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.02 min
 Lab File: VL037781.D
 Acq: 5 Oct 2021 19:59

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.4	29.2
88	17.7	14.4	21.6





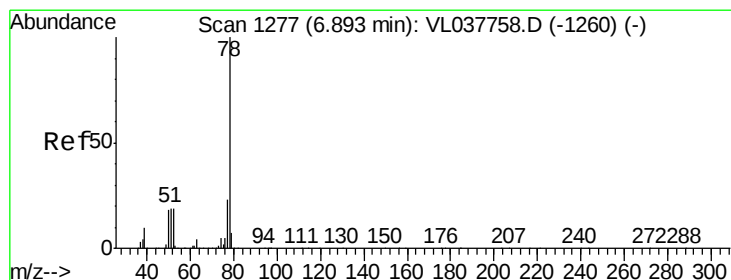
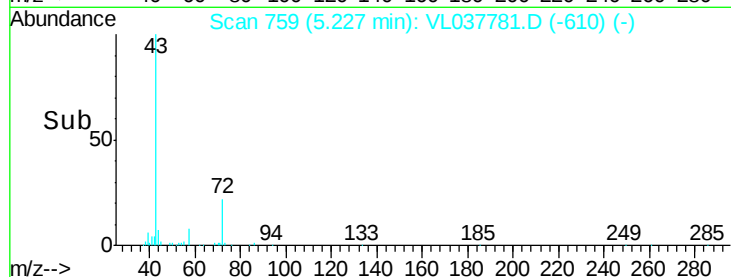
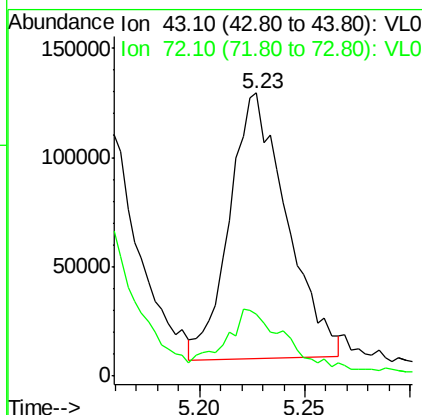
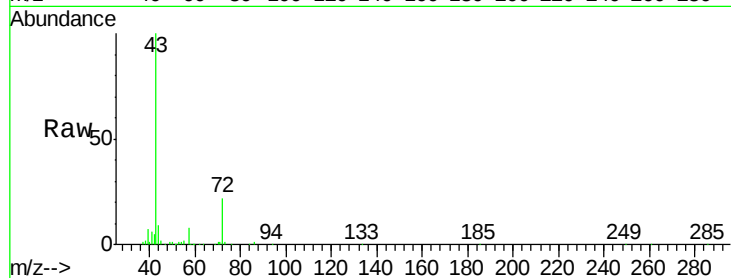
#34
2-Butanone
Concen: 1.598 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.02 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Instrument :
MSVOA_L
ClientSampled :
C0P01

Tgt Ion: 43 Resp: 228819
Ion Ratio Lower Upper
43 100
72 31.1 18.2 27.2#

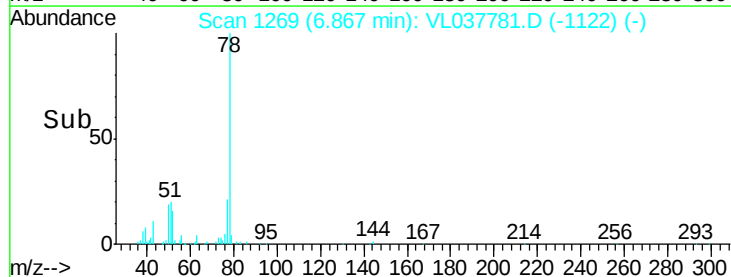
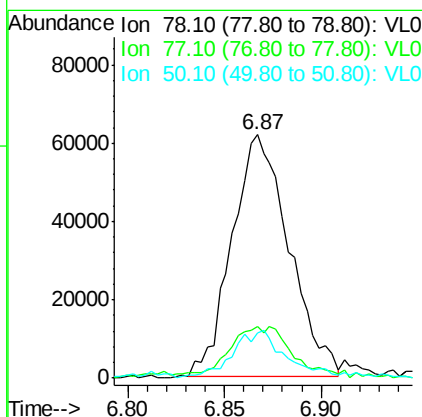
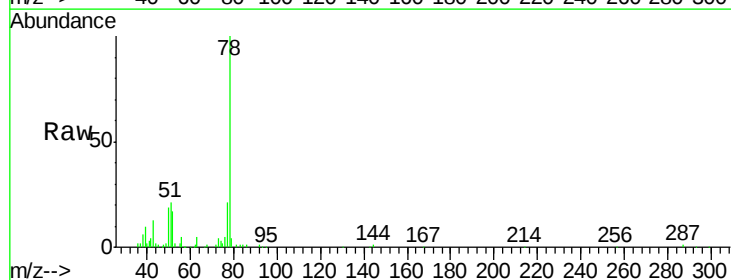
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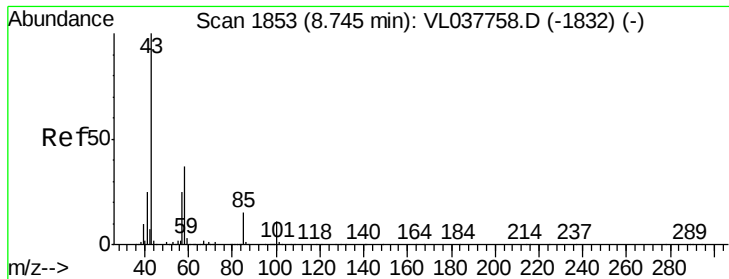
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#36
Benzene
Concen: 0.418 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. -0.03 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Tgt Ion: 78 Resp: 126466
Ion Ratio Lower Upper
78 100
77 19.5 18.8 28.2
50 17.8 14.7 22.1





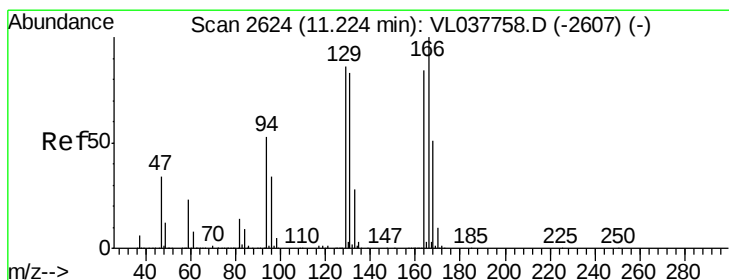
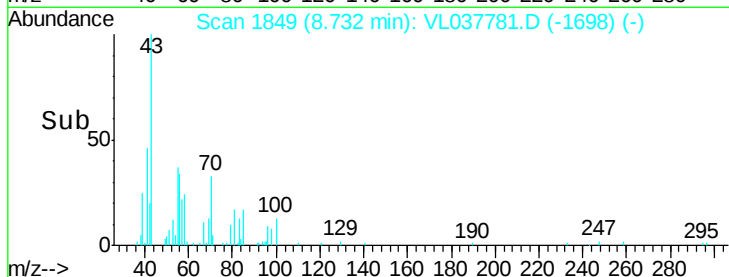
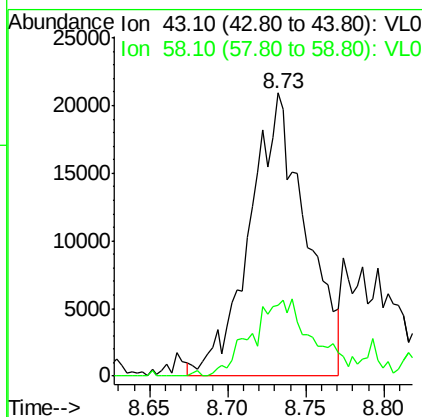
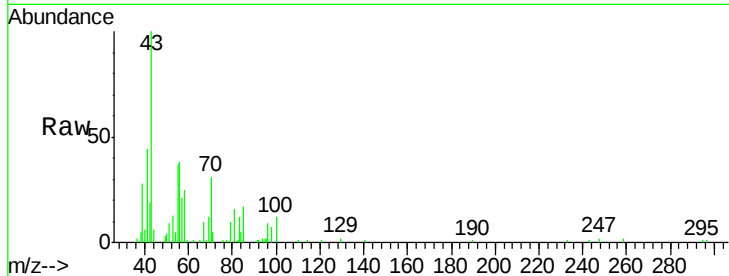
#50
4-Methyl-2-Pentanone
Concen: 0.280 ppbv m
RT: 8.73 min Scan# 1849
Delta R.T. -0.01 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Instrument :
MSVOA_L
ClientSampleId :
C0P01

Tgt Ion: 43 Resp: 52183
Ion Ratio Lower Upper
43 100
58 0.0 29.4 44.0#

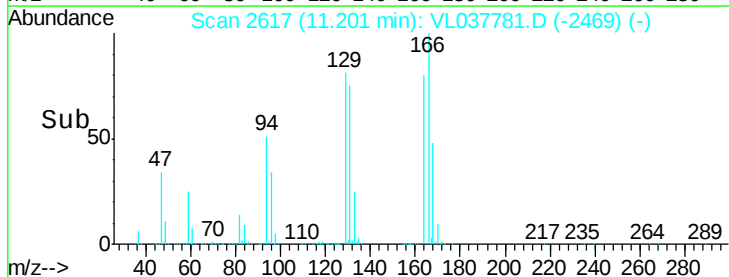
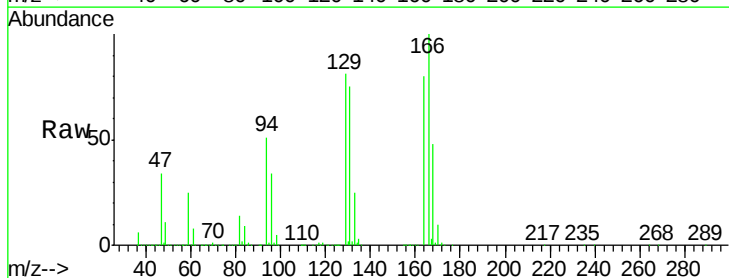
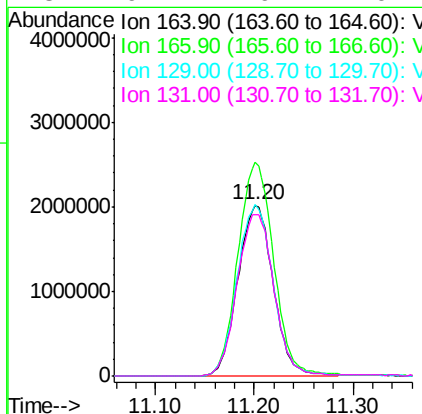
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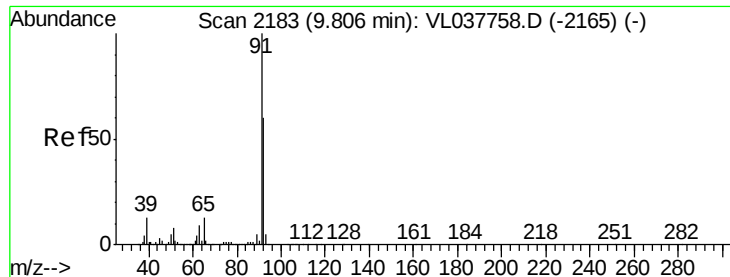
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#52
Tetrachloroethene
Concen: 42.524 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. -0.02 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Tgt Ion: 164 Resp: 5011386
Ion Ratio Lower Upper
164 100
166 125.3 95.4 143.2
129 101.0 82.2 123.4
131 94.4 79.4 119.2





#53

Toluene

Concen: 0.680 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL037781.D

Acq: 5 Oct 2021 19:59

Instrument :

MSVOA_L

ClientSampleId :

C0P01

Tgt Ion: 91 Resp: 228305

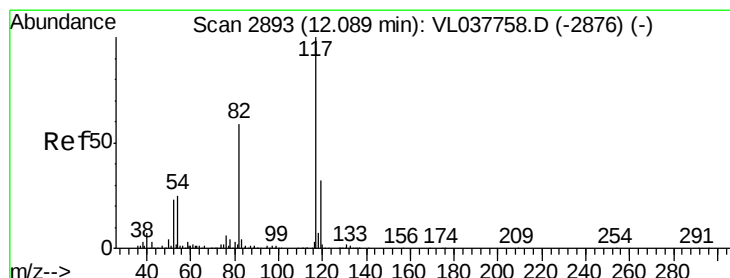
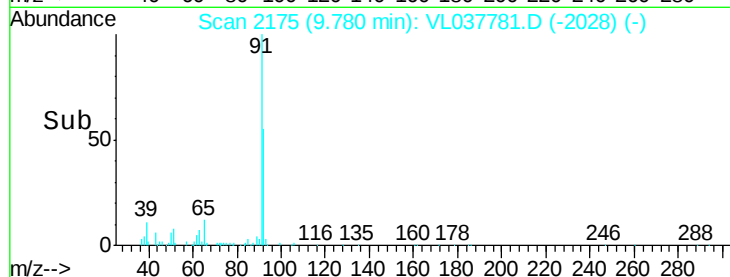
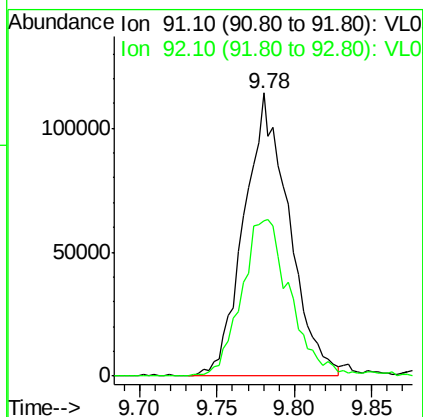
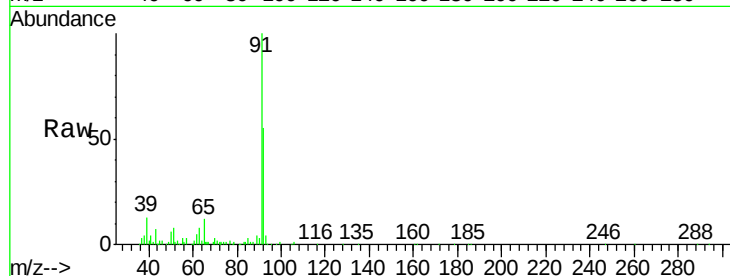
Ion Ratio Lower Upper

91 100

92 61.7 48.4 72.6

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.03 min

Lab File: VL037781.D

Acq: 5 Oct 2021 19:59

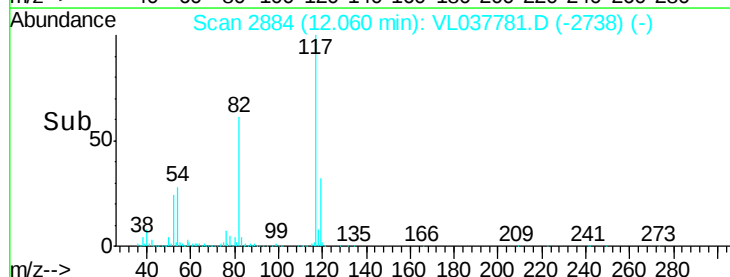
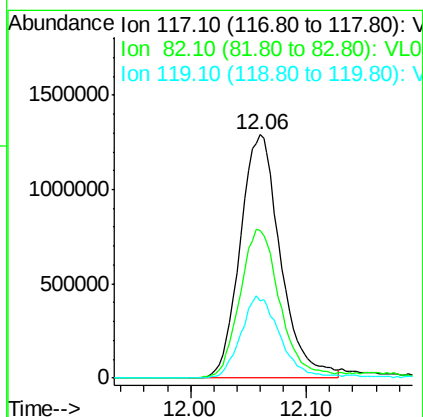
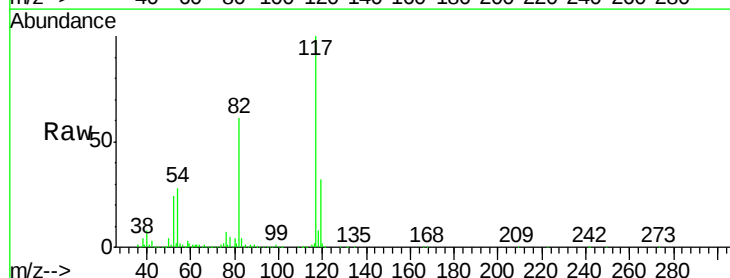
Tgt Ion: 117 Resp: 3127970

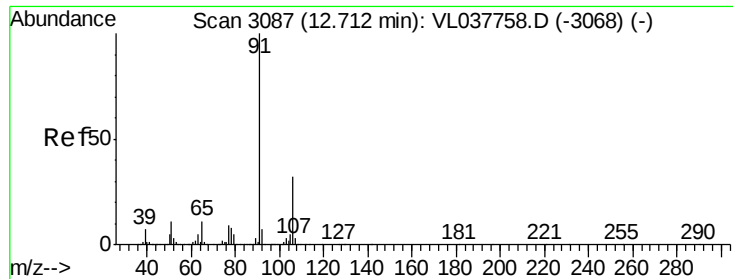
Ion Ratio Lower Upper

117 100

82 61.5 52.2 78.2

119 33.9 26.0 39.0





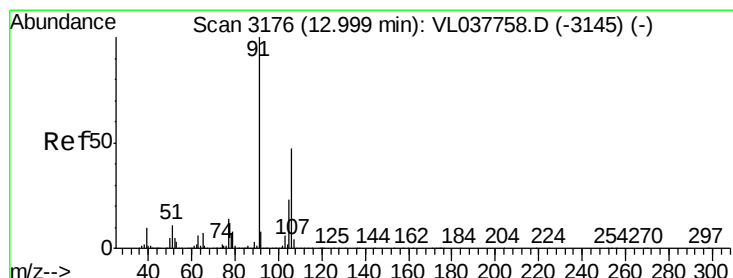
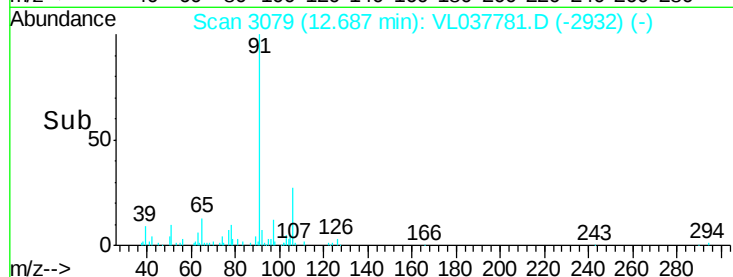
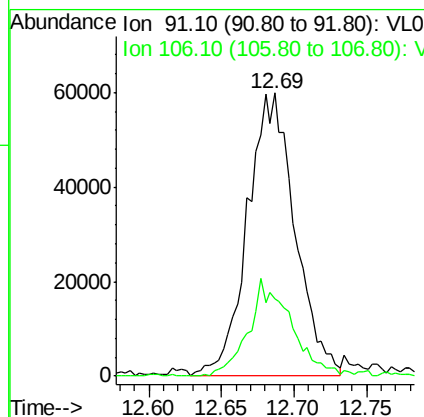
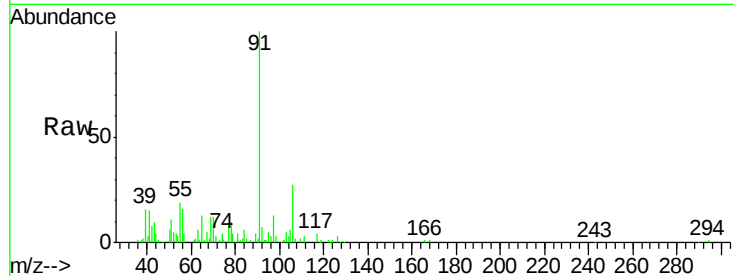
#58
Ethyl Benzene
Concen: 0.323 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.03 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Instrument :
MSVOA_L
ClientSampled :
C0P01

Tgt Ion: 91 Resp: 135470
Ion Ratio Lower Upper
91 100
106 27.2 25.3 37.9

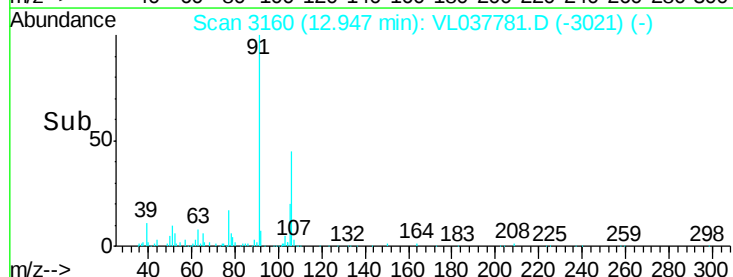
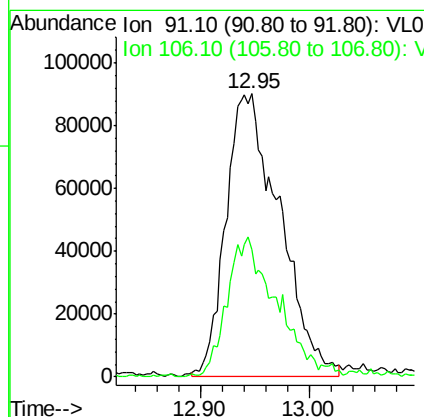
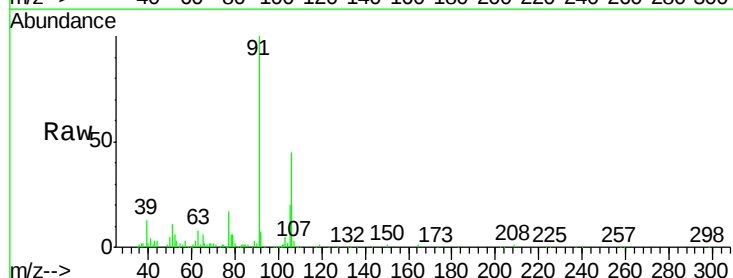
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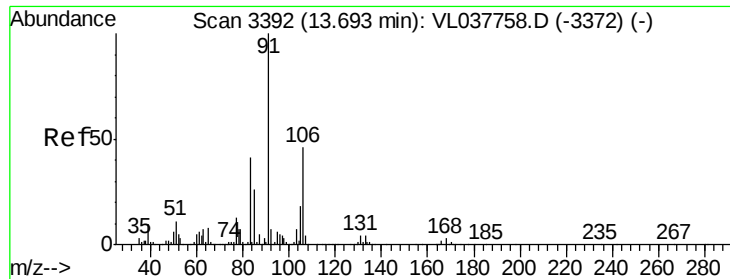
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#59
m/p-Xylene
Concen: 0.858 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.05 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Tgt Ion: 91 Resp: 309329
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#





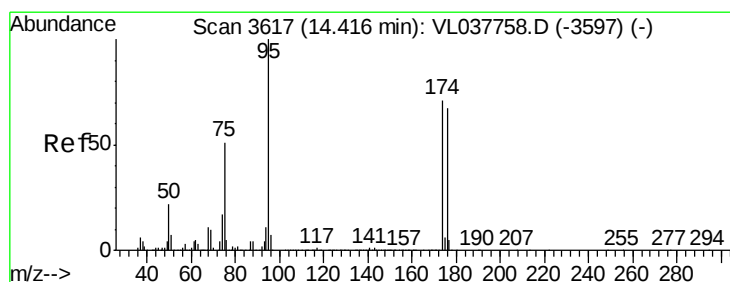
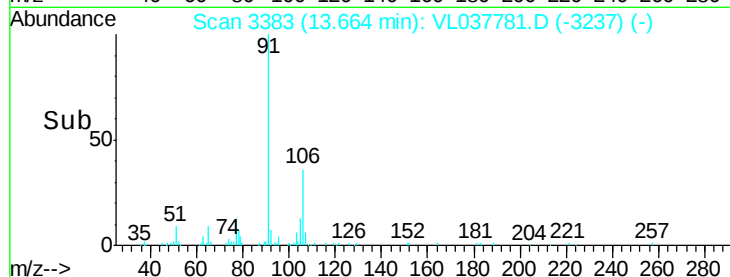
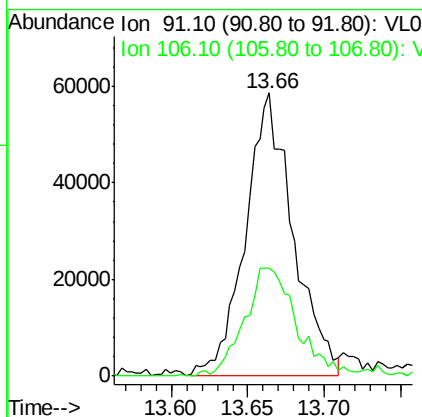
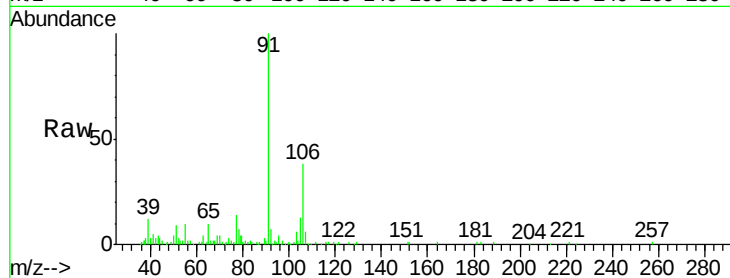
#60
o-Xylene
Concen: 0.367 ppbv m
RT: 13.66 min Scan# 3383
Delta R.T. -0.03 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Instrument :
MSVOA_L
ClientSampleId :
C0P01

Tgt Ion: 91 Resp: 126757
Ion Ratio Lower Upper
91 100
106 43.9 23.5 70.5

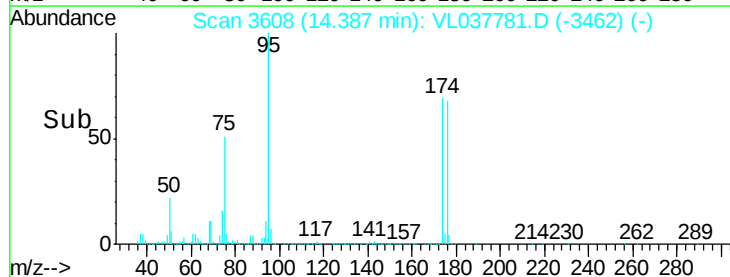
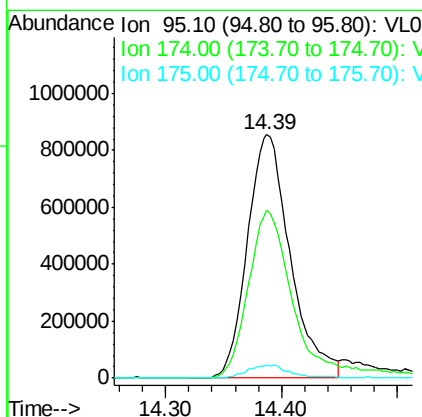
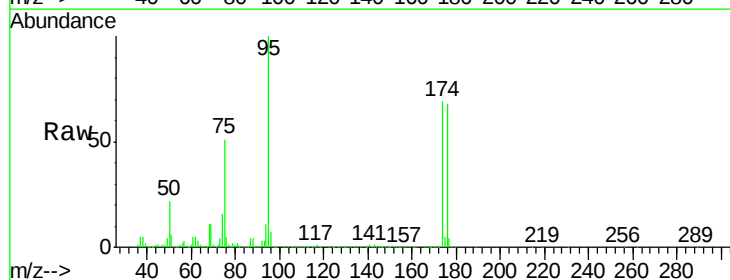
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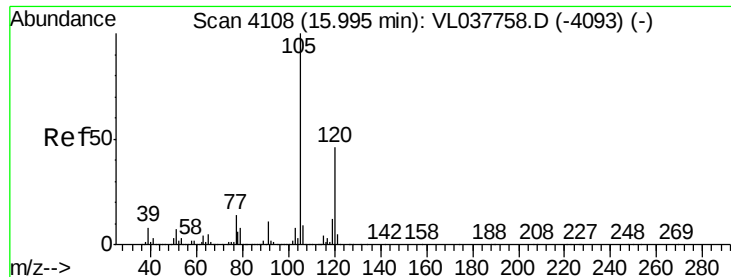
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.060 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.03 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Tgt Ion: 95 Resp: 2200485
Ion Ratio Lower Upper
95 100
174 74.8 57.8 86.6
175 5.5 4.7 7.1





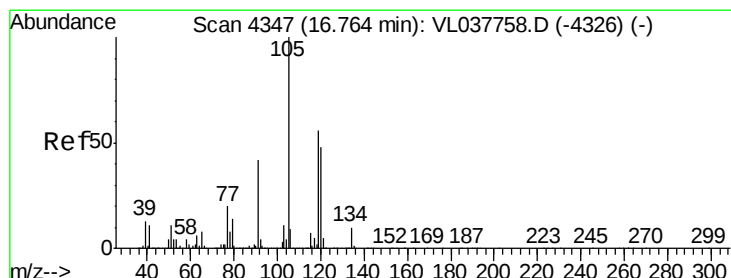
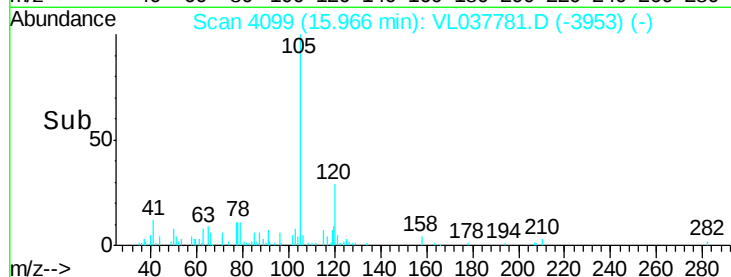
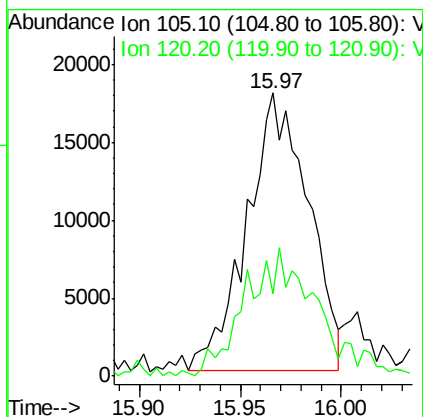
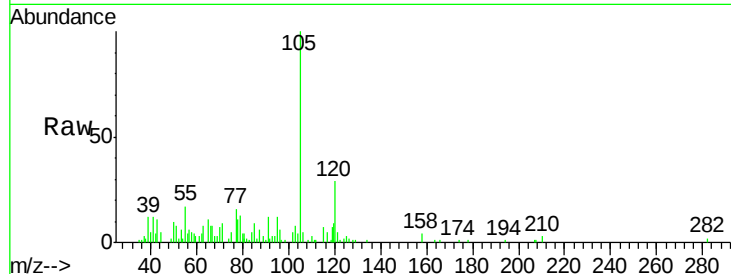
#73
 1,3,5-Trimethylbenzene
 Concen: 0.106 ppbv
 RT: 15.97 min Scan# 4099
 Delta R.T. -0.03 min
 Lab File: VL037781.D
 Acq: 5 Oct 2021 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P01

Tgt Ion:105 Resp: 37726
 Ion Ratio Lower Upper
 105 100
 120 28.6 36.6 54.8#

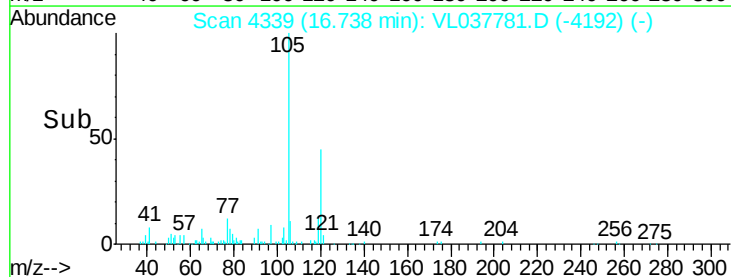
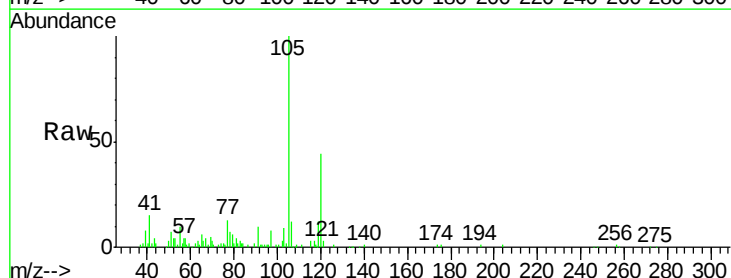
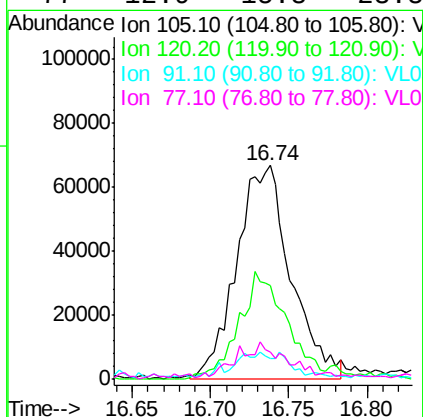
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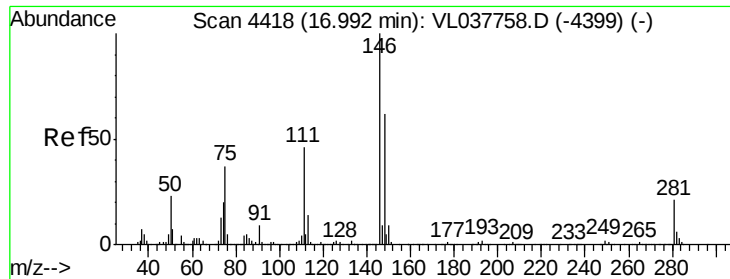
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.431 ppbv m
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.03 min
 Lab File: VL037781.D
 Acq: 5 Oct 2021 19:59

Tgt Ion:105 Resp: 161391
 Ion Ratio Lower Upper
 105 100
 120 43.5 38.4 57.6
 91 9.8 34.2 51.2#
 77 12.9 15.8 23.8#





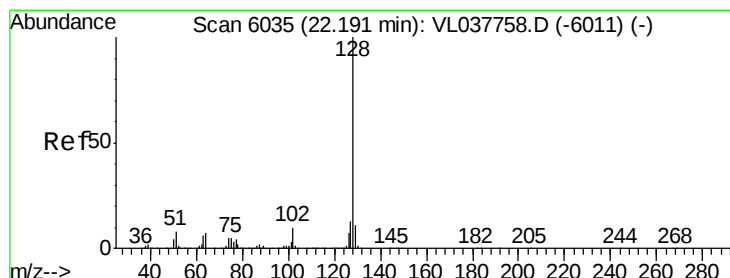
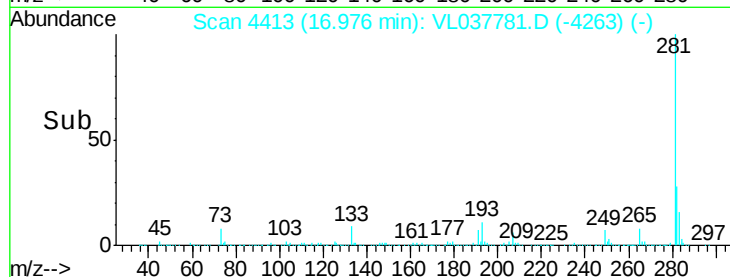
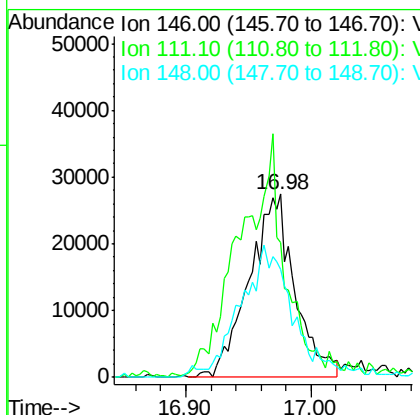
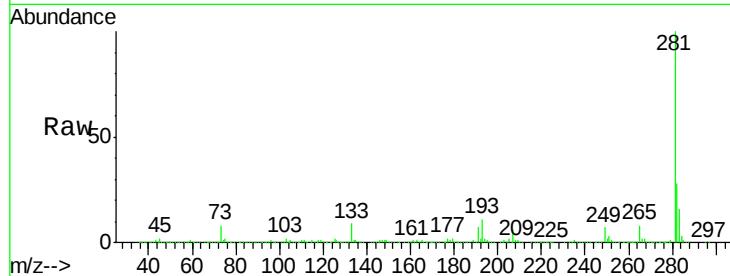
#75
1,3-Dichlorobenzene
Concen: 0.300 ppbv m
RT: 16.98 min Scan# 4413
Delta R.T. -0.02 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Instrument :
MSVOA_L
ClientSampled :
C0P01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	69468		
111	0.0	22.8	68.4#	
148	0.0	32.8	98.3#	

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#79
Naphthalene
Concen: 0.219 ppbv m
RT: 22.16 min Scan# 6026
Delta R.T. -0.03 min
Lab File: VL037781.D
Acq: 5 Oct 2021 19:59

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	50196		
127	13.4	10.1	15.1	
129	5.6	9.1	13.7#	

