

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037810.D
 Acq On : 8 Oct 2021 00:21
 Operator : SY/AP
 Sample : M4079-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P45

Manual Integrations
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Quant Time: Oct 08 11:12:14 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	1293704	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3672860	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3128542	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2242620	10.25	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	36148	0.175	ppbv	89
3) Chlorodifluoromethane	2.97	51	239704m	0.964	ppbv	
4) Chloromethane	3.14	50	38898	0.427	ppbv	90
9) Propene	3.02	41	56357m	0.616	ppbv	
11) Trichlorofluoromethane	3.94	101	1192676	6.469	ppbv	100
13) Ethanol	3.60	45	14774351	1975.211	ppbv	83
15) Acetone	3.84	43	2379155	20.486	ppbv	98
17) tert-Butyl alcohol	4.30	59	27460m	0.230	ppbv	
19) Isopropyl Alcohol	3.97	45	1256755	17.394	ppbv #	97
20) Methylene Chloride	4.33	84	957206	16.312	ppbv	92
26) Hexane	5.67	57	544823	3.395	ppbv #	50
29) Chloroform	5.74	83	66866	0.292	ppbv #	83
34) 2-Butanone	5.23	43	114155	0.770	ppbv	98
35) Carbon Tetrachloride	7.01	117	13199m	0.063	ppbv	
36) Benzene	6.88	78	43521m	0.139	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	37695m	0.195	ppbv	
52) Tetrachloroethene	11.20	164	41994m	0.344	ppbv	
53) Toluene	9.79	91	199934	0.575	ppbv	99
59) m/p-Xylene	12.94	91	91294m	0.253	ppbv	
60) o-Xylene	13.68	91	39873m	0.115	ppbv	
61) Styrene	13.51	104	23723m	0.142	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	46645m	0.125	ppbv	

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

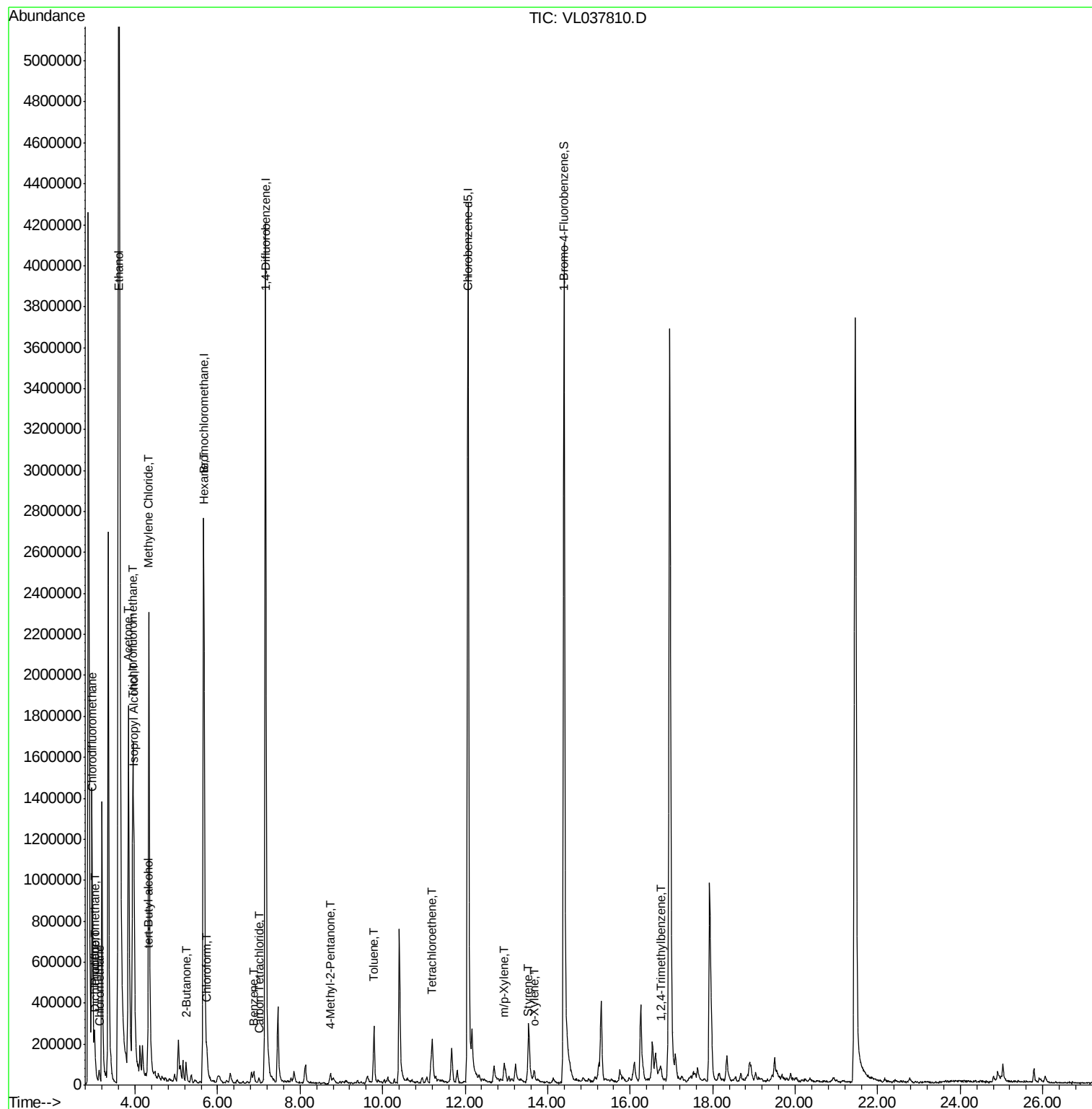
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
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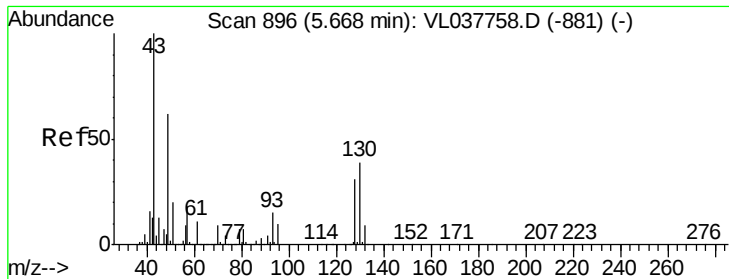
Instrument :
MSVOA_L
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Quant Time: Oct 08 11:12:14 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL037810.D

Acq: 8 Oct 2021 00:21

Instrument :

MSVOA_L

ClientSampled :

C0P45

Tgt Ion: 49 Resp: 1293704

Ion Ratio Lower Upper

49 100

128 52.7 27.1 81.3

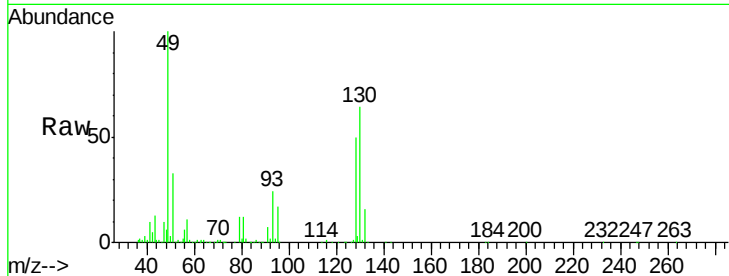
130 67.7 33.2 99.6

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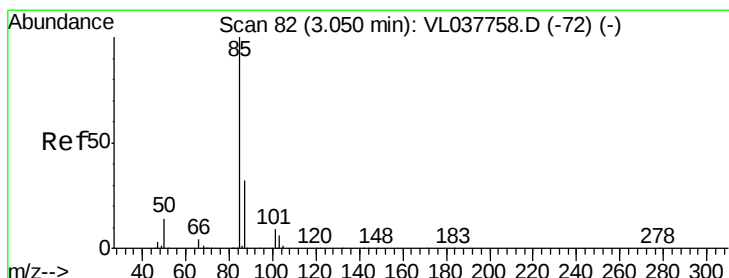
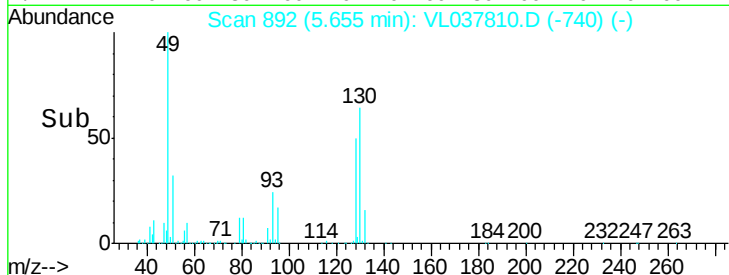
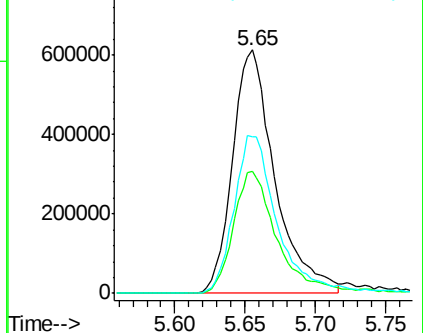
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.175 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037810.D

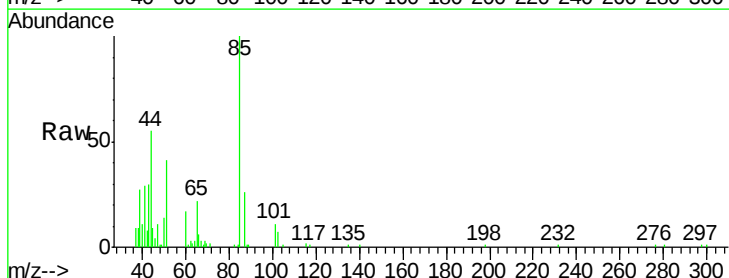
Acq: 8 Oct 2021 00:21

Tgt Ion: 85 Resp: 36148

Ion Ratio Lower Upper

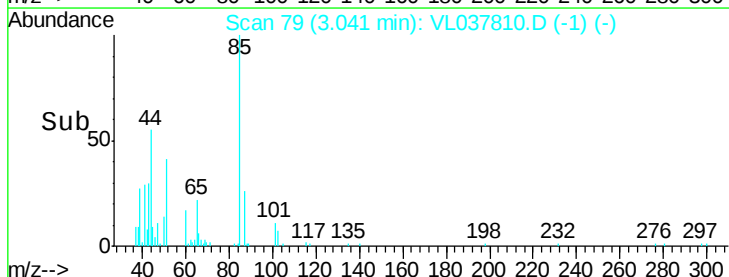
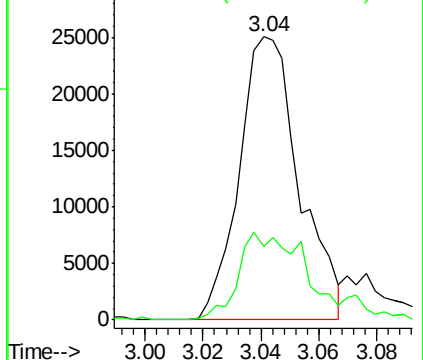
85 100

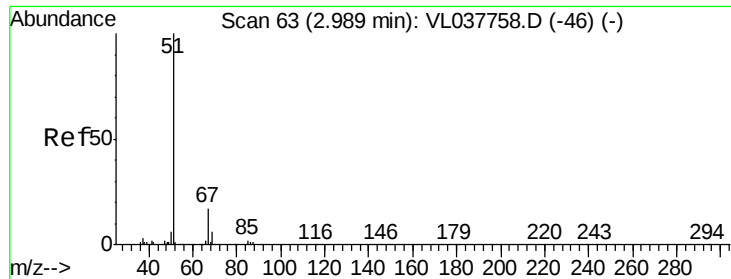
87 25.9 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.964 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL037810.D

Acq: 8 Oct 2021 00:21

Instrument :

MSVOA_L

ClientSampleId :

C0P45

Tgt Ion: 51 Resp: 239704

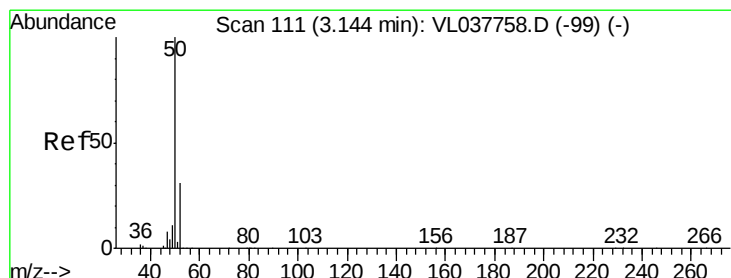
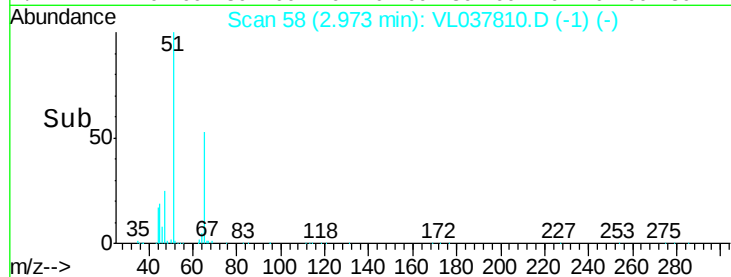
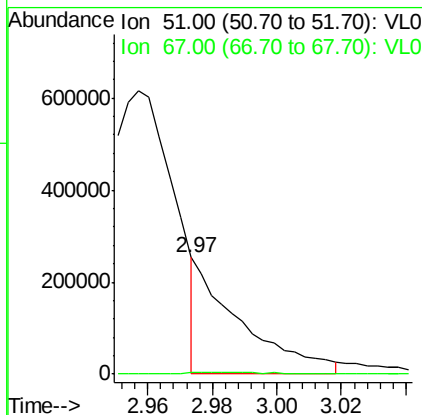
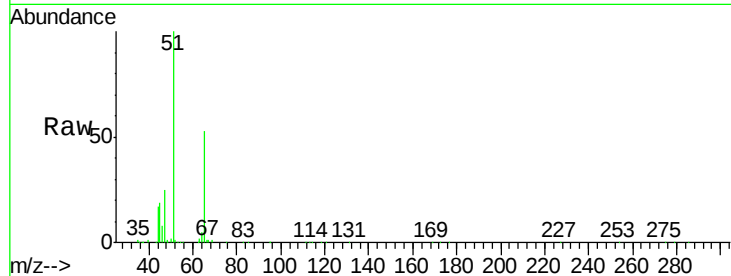
Ion Ratio Lower Upper

51 100

67 3.6 13.5 20.3#

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#4

Chloromethane

Concen: 0.427 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037810.D

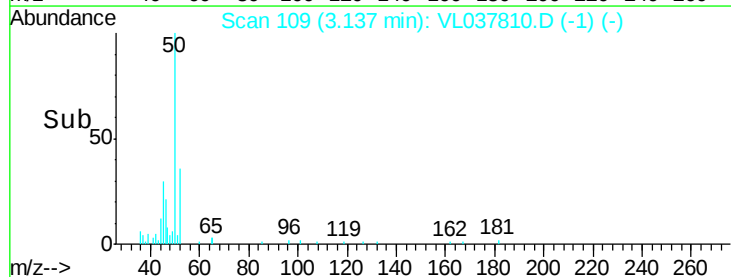
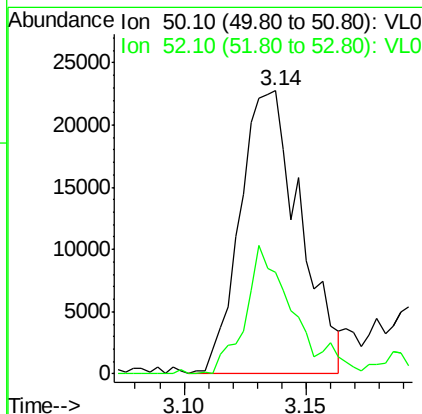
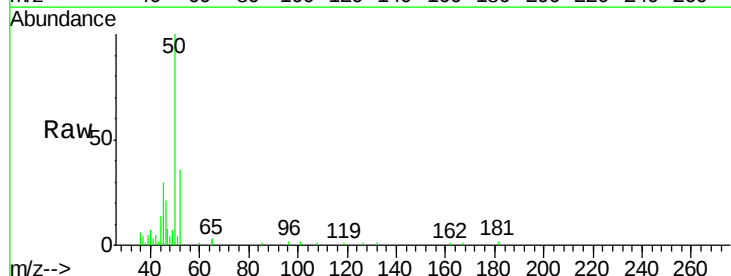
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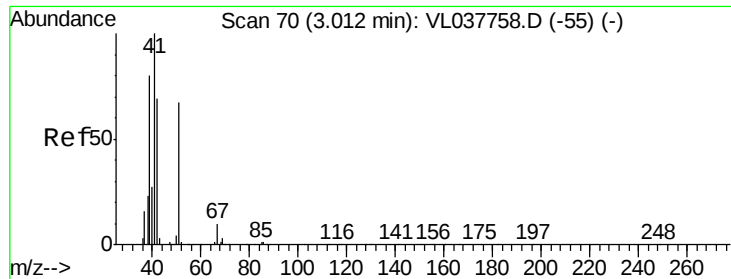
Tgt Ion: 50 Resp: 38898

Ion Ratio Lower Upper

50 100

52 36.1 24.4 36.6





#9

Propene

Concen: 0.616 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL037810.D

Acq: 8 Oct 2021 00:21

Instrument :

MSVOA_L

ClientSampleId :

C0P45

Tgt Ion: 41 Resp: 56357

Ion Ratio Lower Upper

41 100

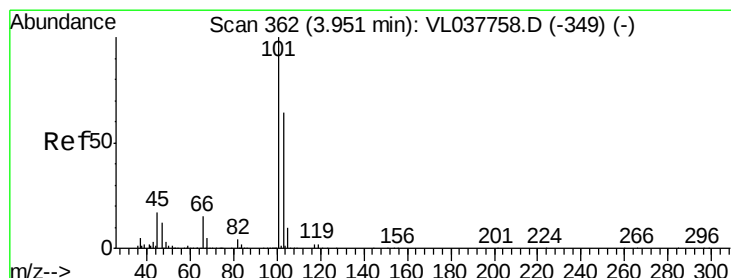
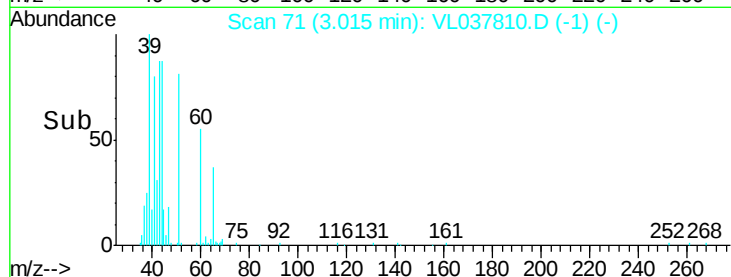
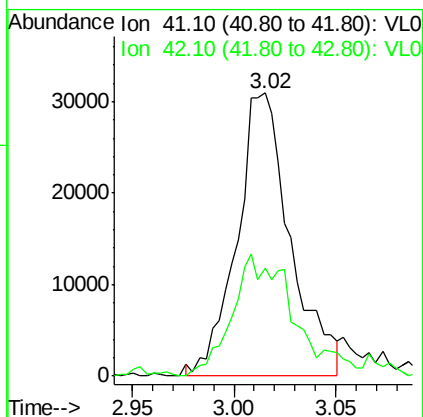
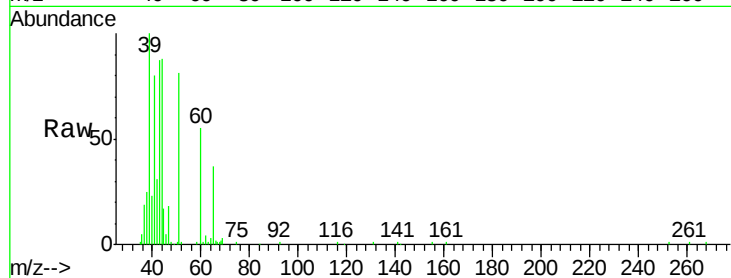
42 52.9 54.2 81.2#

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#11

Trichlorofluoromethane

Concen: 6.469 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL037810.D

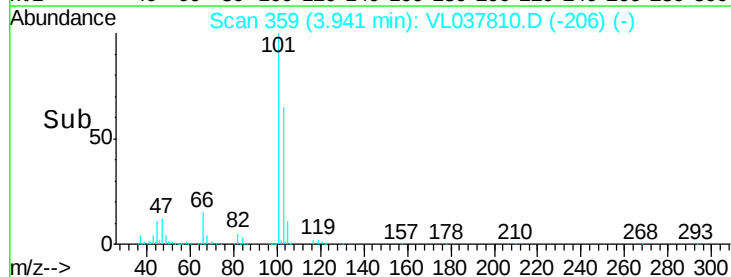
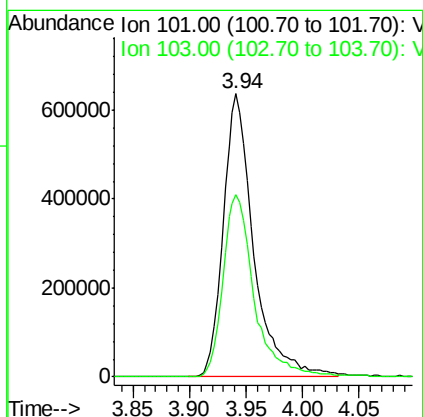
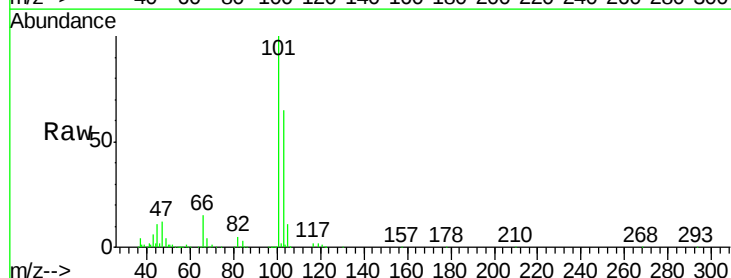
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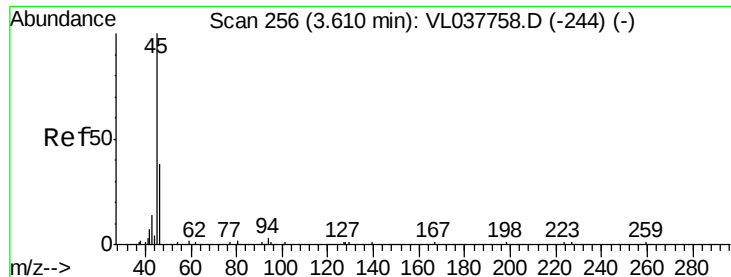
Tgt Ion: 101 Resp: 1192676

Ion Ratio Lower Upper

101 100

103 64.6 51.5 77.3





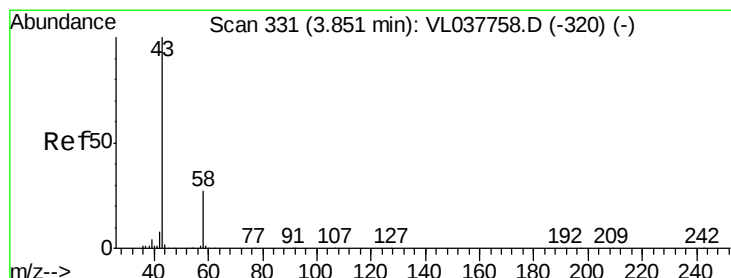
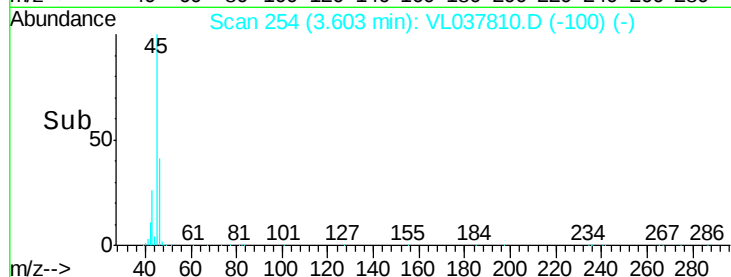
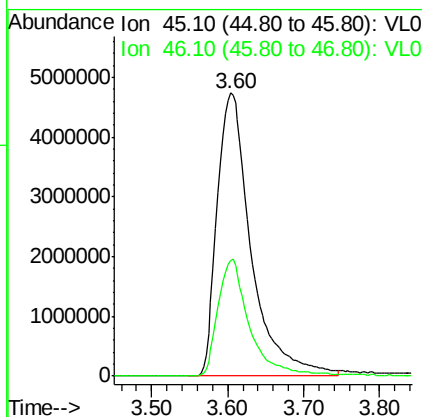
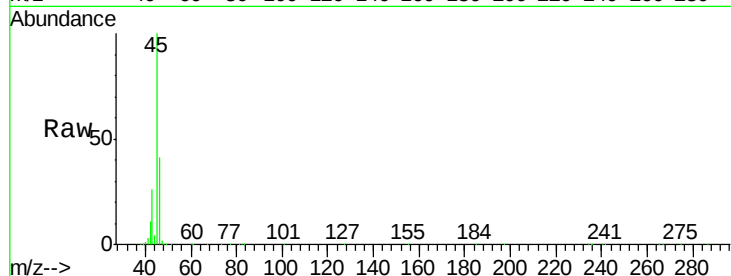
#13
Ethanol
Concen: 1975.211 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

Instrument :
MSVOA_L
ClientSampleId :
C0P45

Tgt Ion: 45 Resp:14774351
Ion Ratio Lower Upper
45 100
46 38.7 20.2 81.0

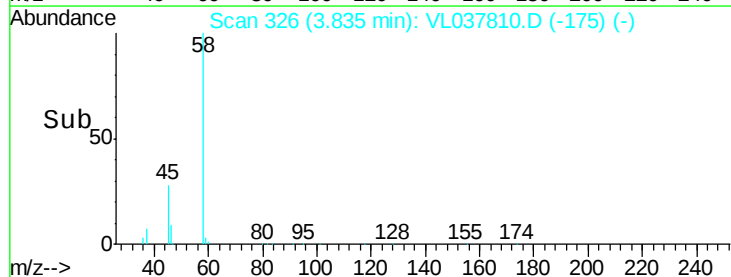
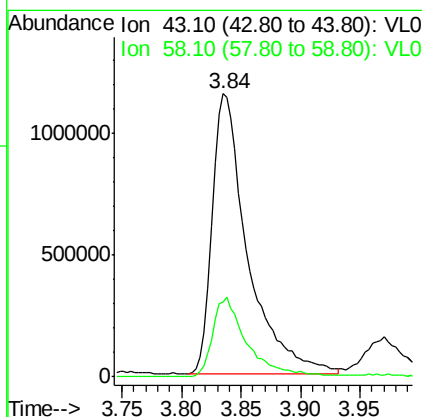
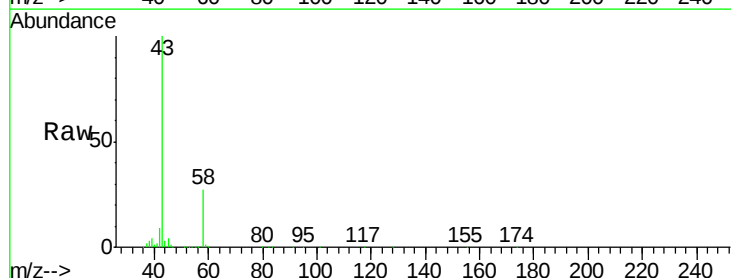
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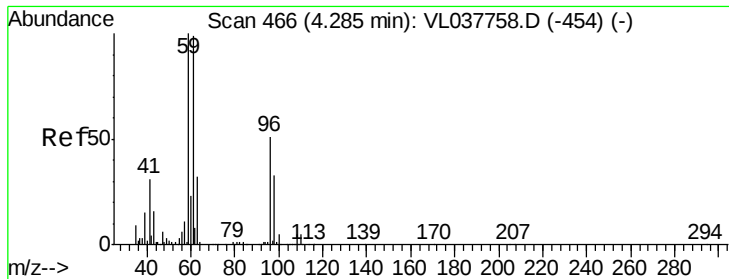
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#15
Acetone
Concen: 20.486 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

Tgt Ion: 43 Resp: 2379155
Ion Ratio Lower Upper
43 100
58 27.7 23.0 34.6





#17

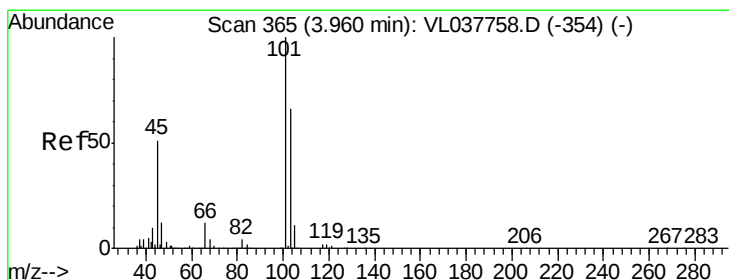
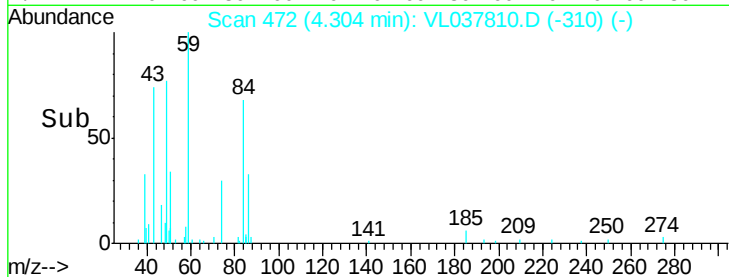
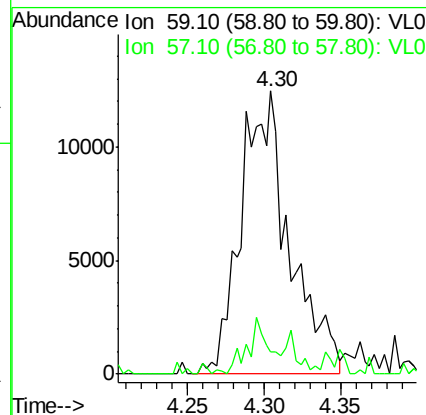
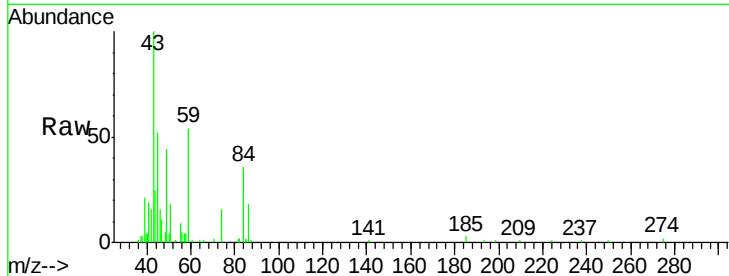
tert-Butyl alcohol
 Concen: 0.230 ppbv m
 RT: 4.30 min Scan# 472
 Delta R.T. 0.02 min
 Lab File: VL037810.D
 Acq: 8 Oct 2021 00:21

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P45

Tgt Ion: 59 Resp: 27460
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 13.0#

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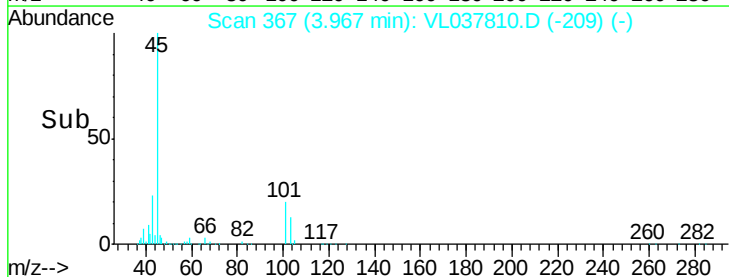
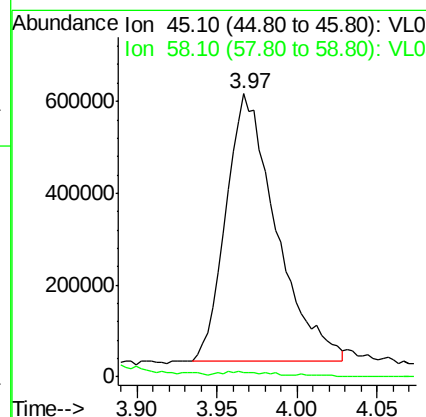
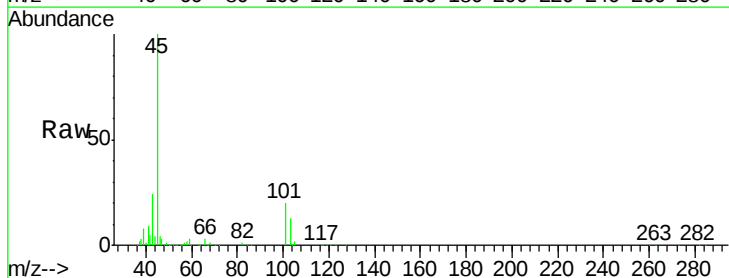
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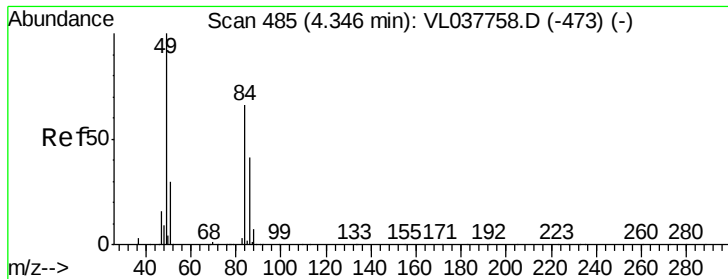


#19

Isopropyl Alcohol
 Concen: 17.394 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.01 min
 Lab File: VL037810.D
 Acq: 8 Oct 2021 00:21

Tgt Ion: 45 Resp: 1256755
 Ion Ratio Lower Upper
 45 100
 58 2.8 1.1 1.7#





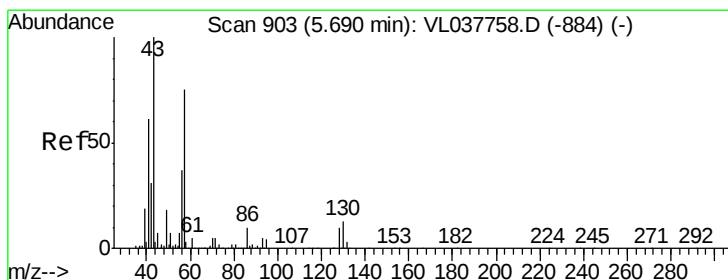
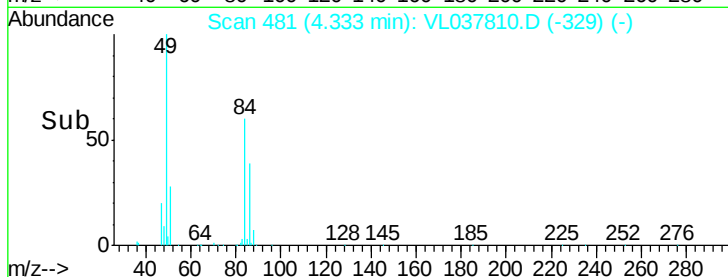
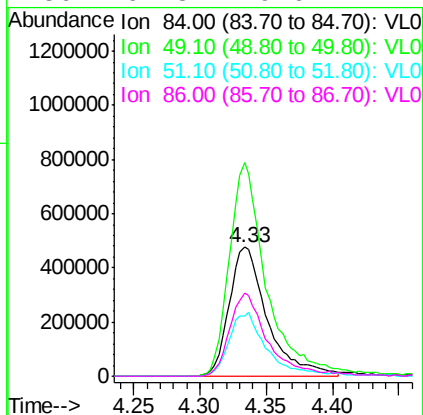
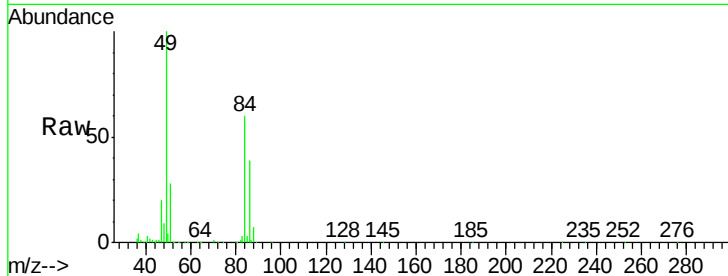
#20
Methylene Chloride
Concen: 16.312 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

Instrument :
MSVOA_L
ClientSampleId :
C0P45

Tgt Ion	Ratio	Lower	Upper
84	100		
49	165.6	120.7	181.1
51	46.1	36.2	54.4
86	64.3	49.6	74.4

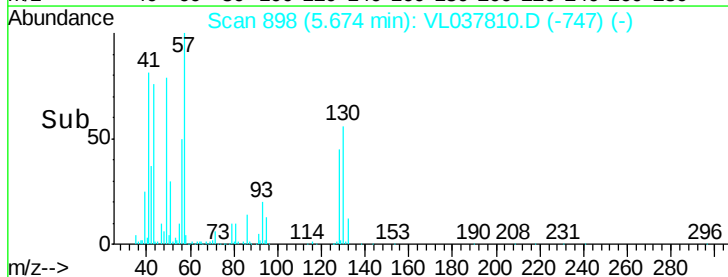
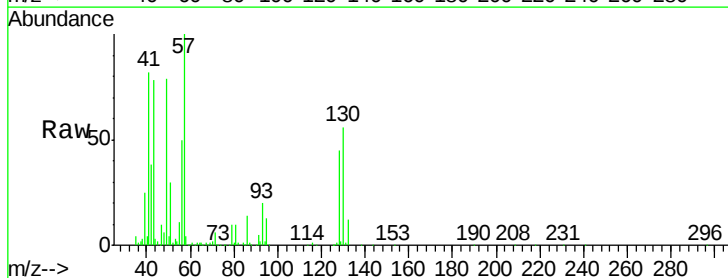
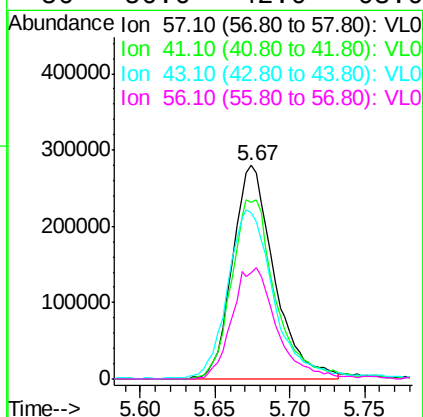
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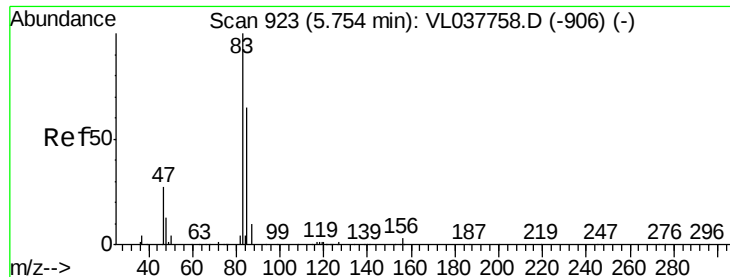
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#26
Hexane
Concen: 3.395 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.6	69.6	104.4
43	88.4	171.4	257.0#
56	56.6	42.0	63.0





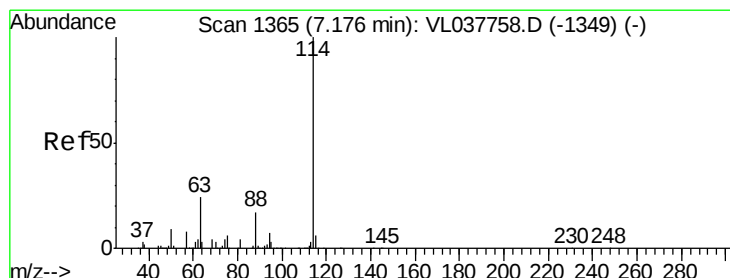
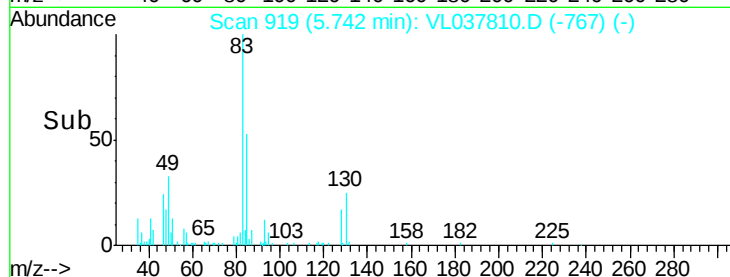
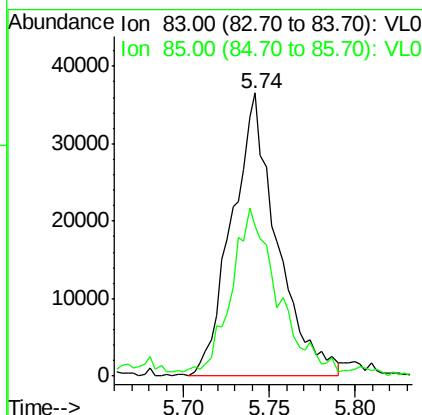
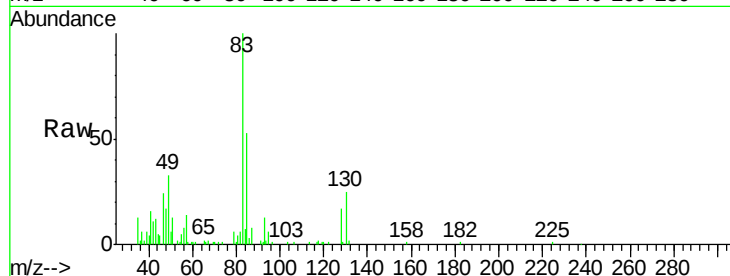
#29
Chloroform
Concen: 0.292 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

Instrument :
MSVOA_L
ClientSampleId :
C0P45

Tgt Ion: 83 Resp: 66866
Ion Ratio Lower Upper
83 100
85 51.6 51.8 77.8#

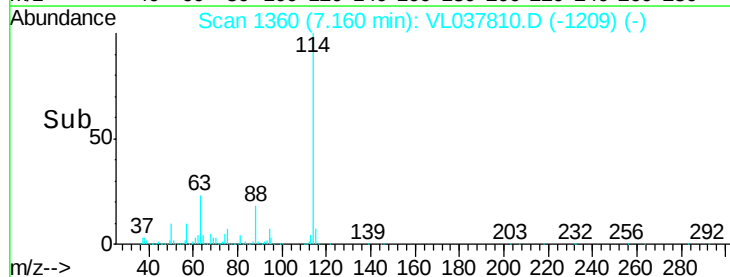
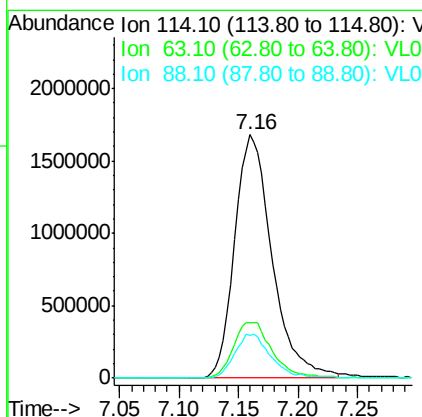
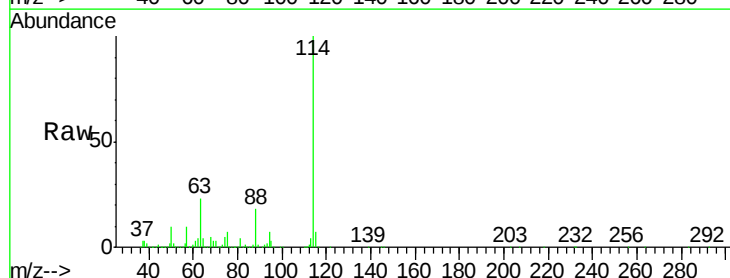
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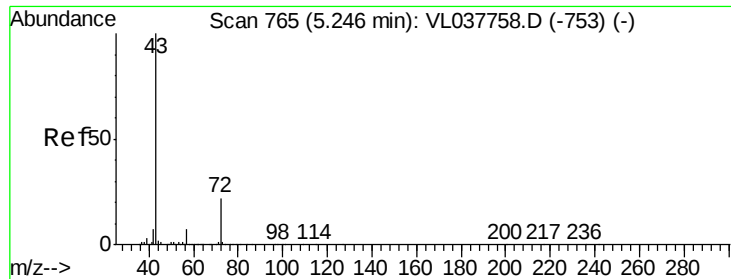
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.02 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

Tgt Ion: 114 Resp: 3672860
Ion Ratio Lower Upper
114 100
63 23.9 19.4 29.2
88 17.9 14.4 21.6





#34

2-Butanone

Concen: 0.770 ppbv

RT: 5.23 min Scan# 761

Delta R.T. -0.01 min

Lab File: VL037810.D

Acq: 8 Oct 2021 00:21

Instrument :

MSVOA_L

ClientSampleId :

C0P45

Tgt Ion: 43 Resp: 114155

Ion Ratio Lower Upper

43 100

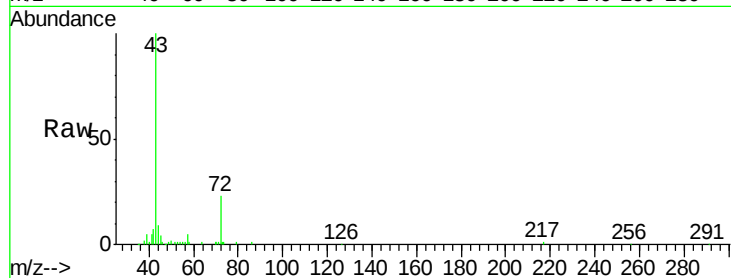
72 23.9 18.2 27.2

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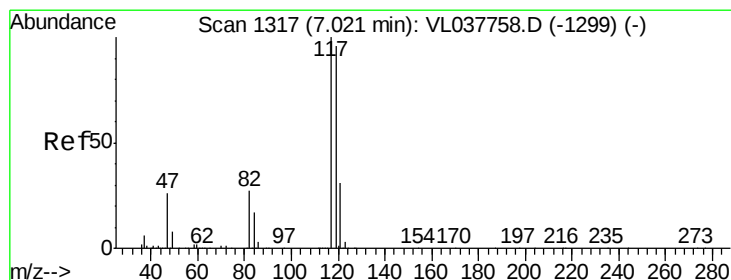
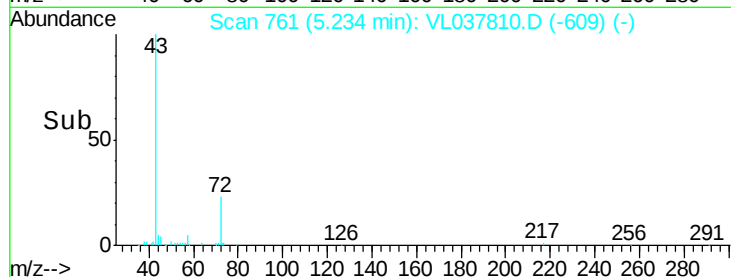
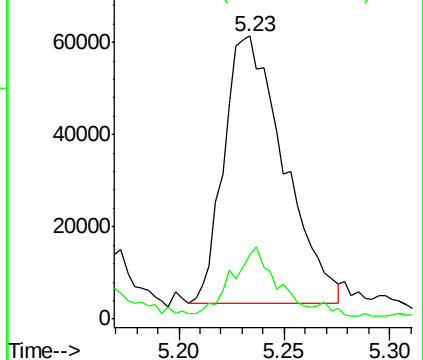
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.063 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL037810.D

Acq: 8 Oct 2021 00:21

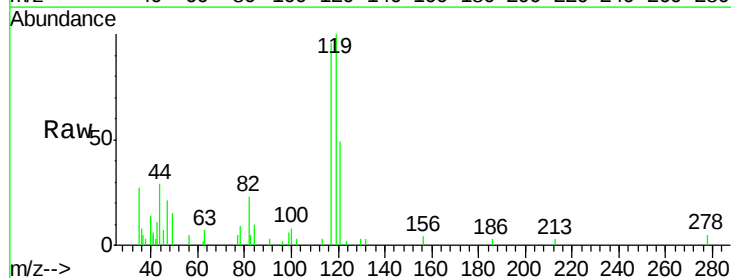
Tgt Ion: 117 Resp: 13199

Ion Ratio Lower Upper

117 100

119 104.4 76.5 114.7

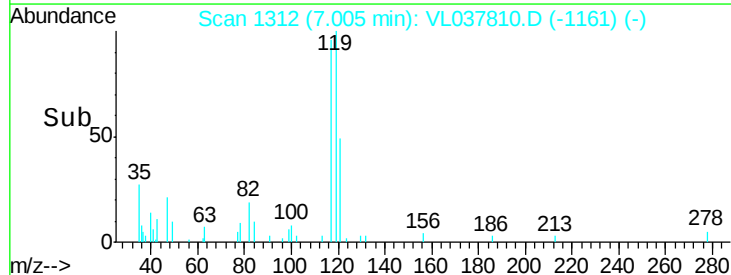
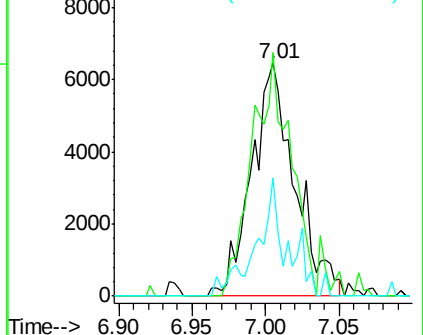
121 50.8 24.9 37.3#

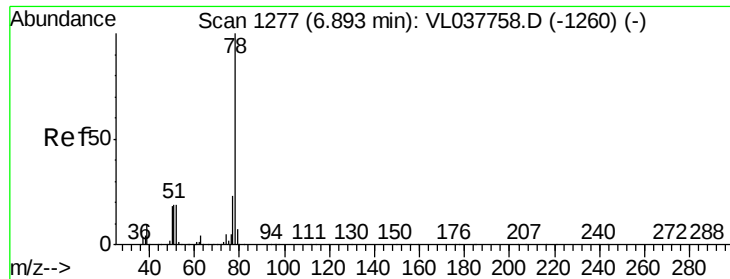


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





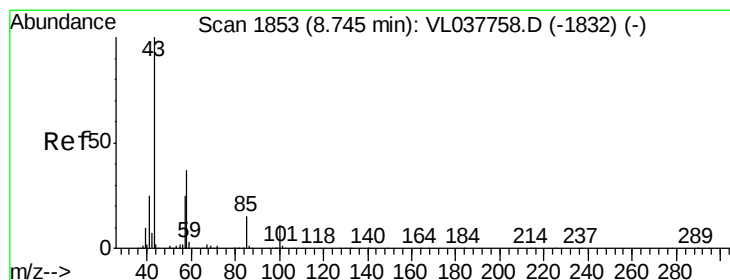
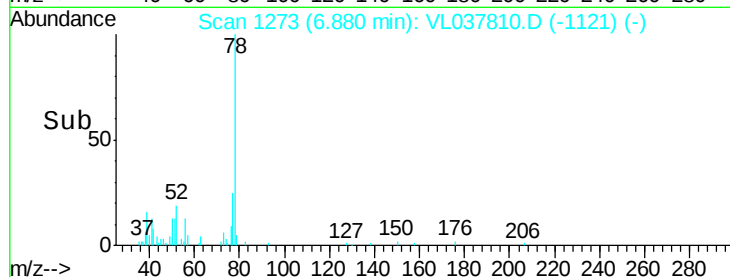
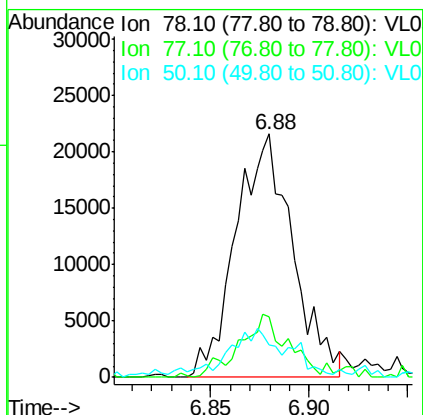
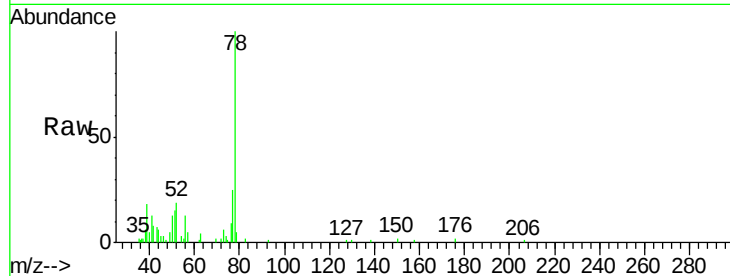
#36
Benzene
Concen: 0.139 ppbv m
RT: 6.88 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

Instrument :
MSVOA_L
ClientSampled :
C0P45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	18.8	28.2
50	13.3	14.7	22.1#

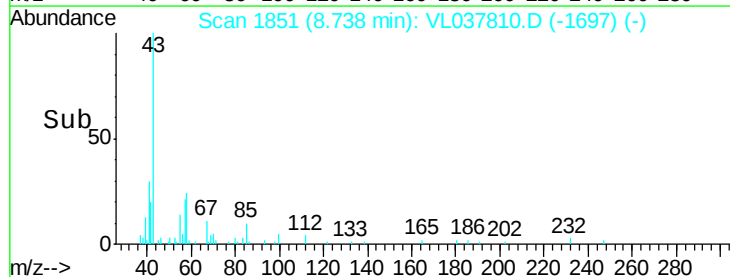
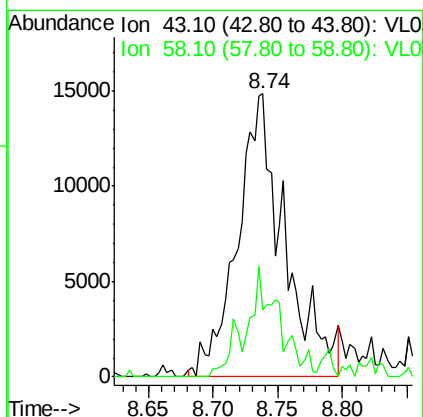
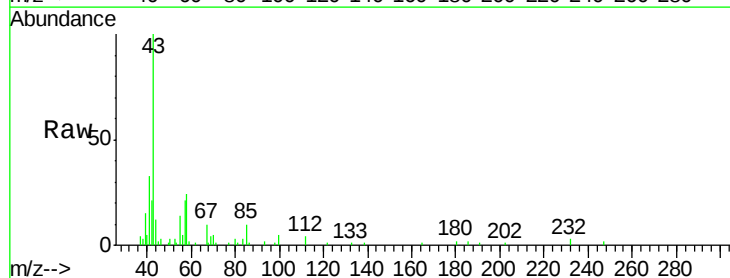
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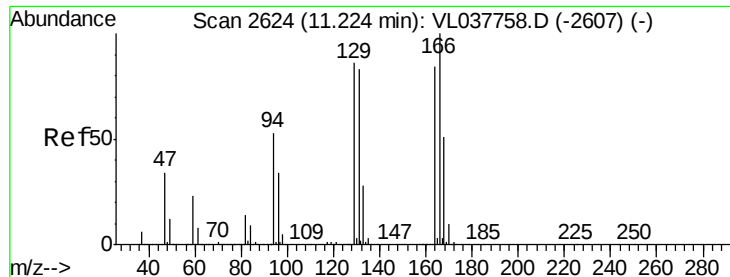
apatel
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#50
4-Methyl-2-Pentanone
Concen: 0.195 ppbv m
RT: 8.74 min Scan# 1851
Delta R.T. -0.01 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

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





#52

Tetrachloroethene

Concen: 0.344 ppbv m

RT: 11.20 min Scan# 2618

Delta R.T. -0.02 min

Lab File: VL037810.D

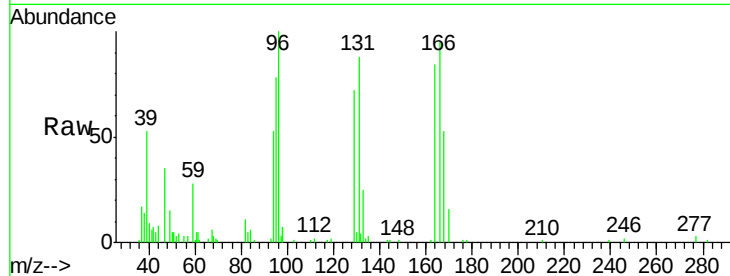
Acq: 8 Oct 2021 00:21

Instrument :

MSVOA_L

ClientSampleId :

C0P45



Tgt Ion: 164 Resp: 41994

Ion Ratio Lower Upper

164 100

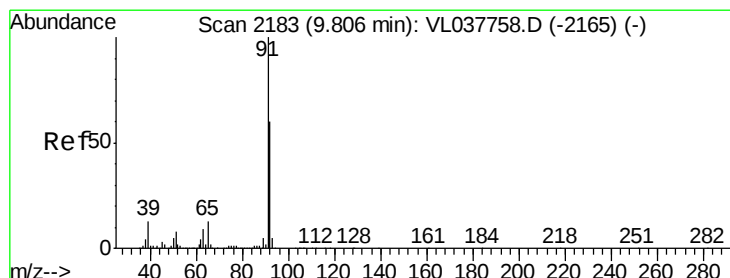
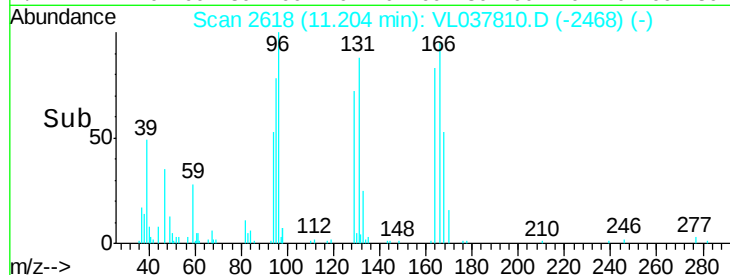
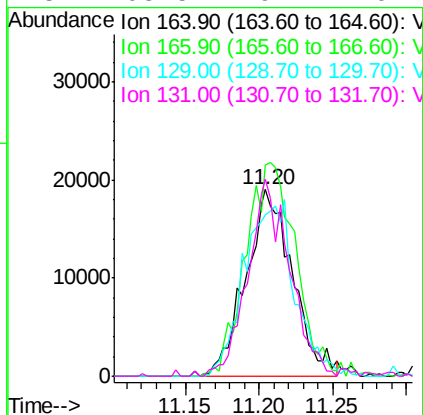
166 113.4 95.4 143.2

129 86.2 82.2 123.4

131 105.5 79.4 119.2

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#53

Toluene

Concen: 0.575 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL037810.D

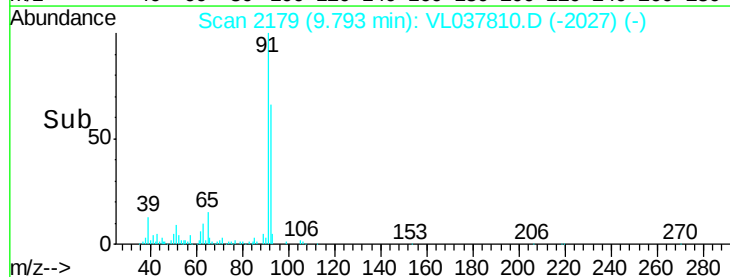
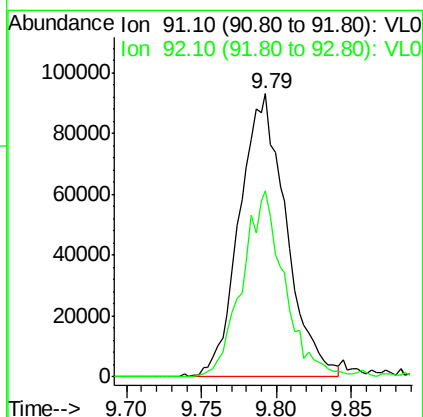
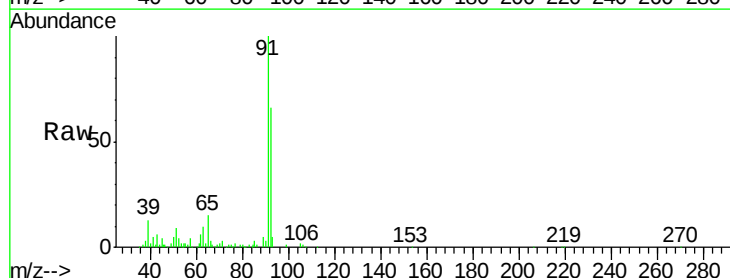
Acq: 8 Oct 2021 00:21

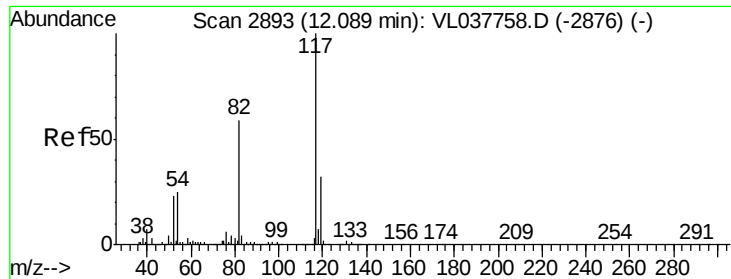
Tgt Ion: 91 Resp: 199934

Ion Ratio Lower Upper

91 100

92 61.4 48.4 72.6





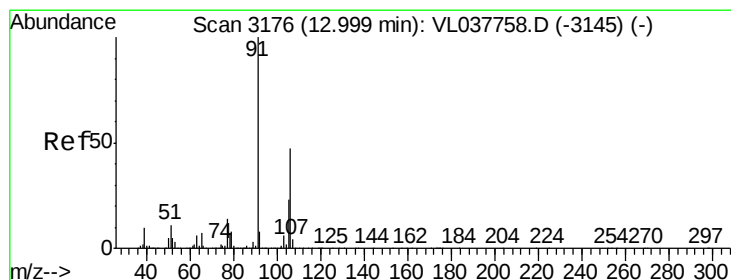
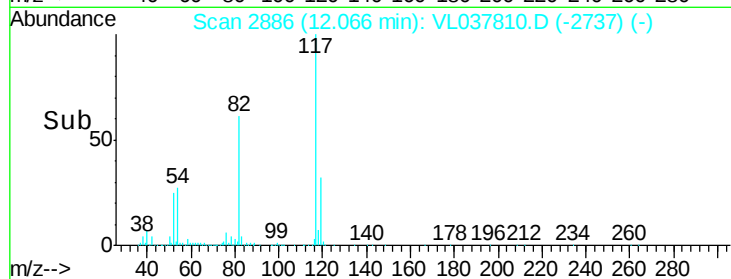
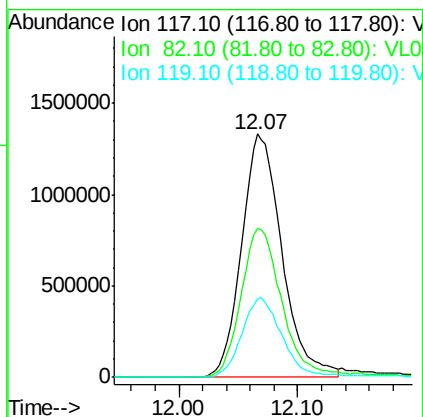
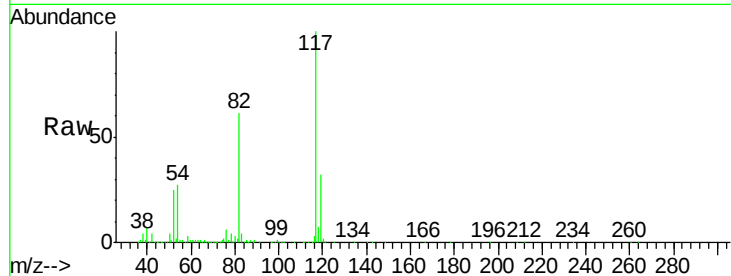
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.02 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

Instrument :
MSVOA_L
ClientSampleId :
C0P45

Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.5	52.2	78.2
119	33.5	26.0	39.0

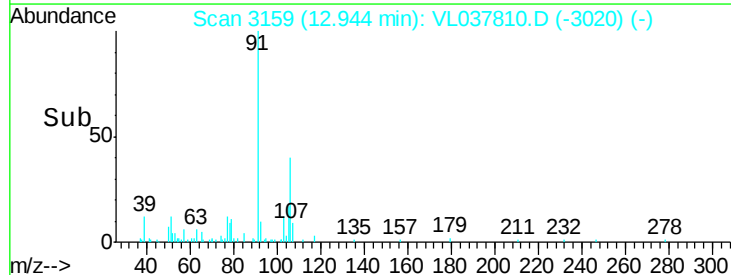
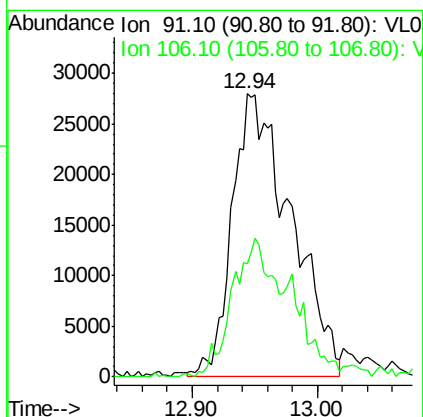
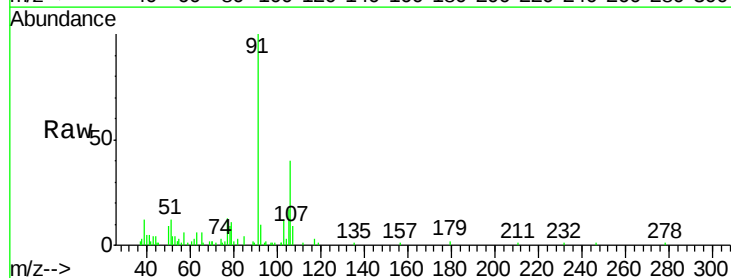
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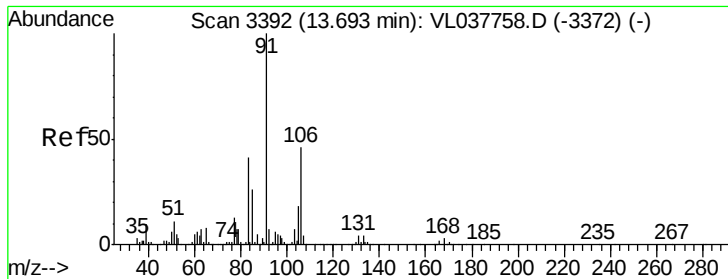
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#59
m/p-Xylene
Concen: 0.253 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.05 min
Lab File: VL037810.D
Acq: 8 Oct 2021 00:21

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.7	55.1





#60

o-Xylene

Concen: 0.115 ppbv m

RT: 13.68 min Scan# 3387

Delta R.T. -0.02 min

Lab File: VL037810.D

Acq: 8 Oct 2021 00:21

Instrument :

MSVOA_L

ClientSampled :

C0P45

Tgt Ion: 91 Resp: 39873

Ion Ratio Lower Upper

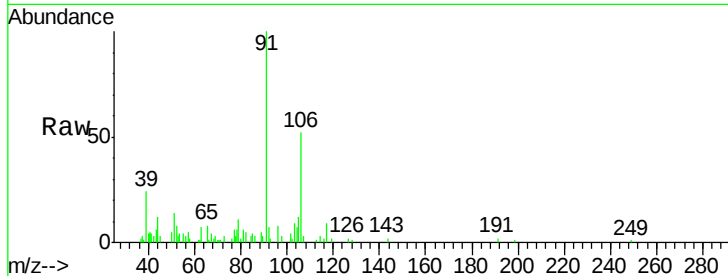
91 100

106 0.0 23.5 70.5#

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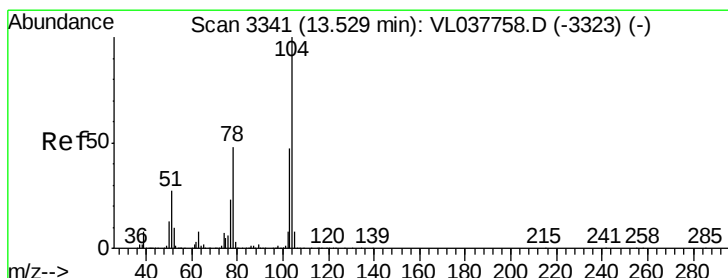
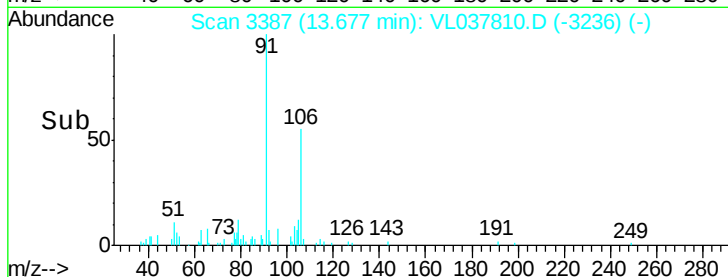
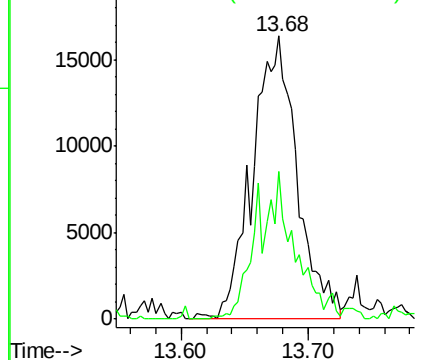
apatel

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.142 ppbv m

RT: 13.51 min Scan# 3335

Delta R.T. -0.02 min

Lab File: VL037810.D

Acq: 8 Oct 2021 00:21

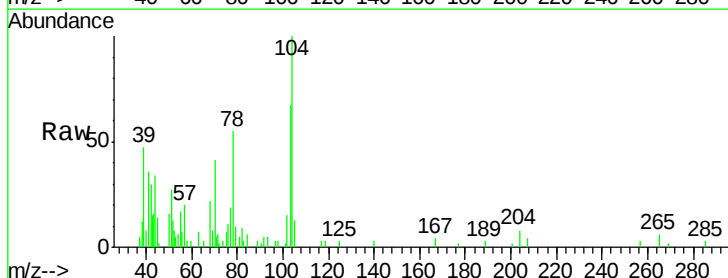
Tgt Ion: 104 Resp: 23723

Ion Ratio Lower Upper

104 100

78 47.0 40.6 61.0

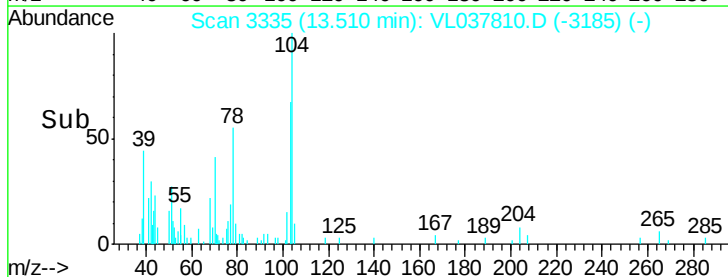
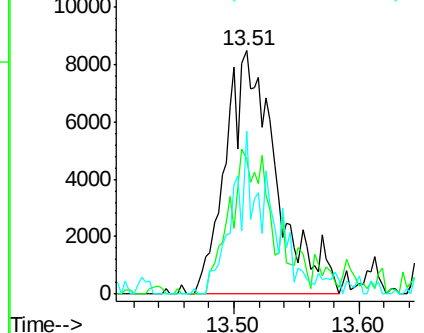
103 51.9 39.6 59.4

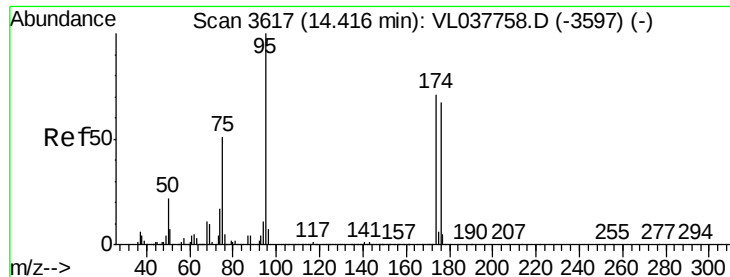


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





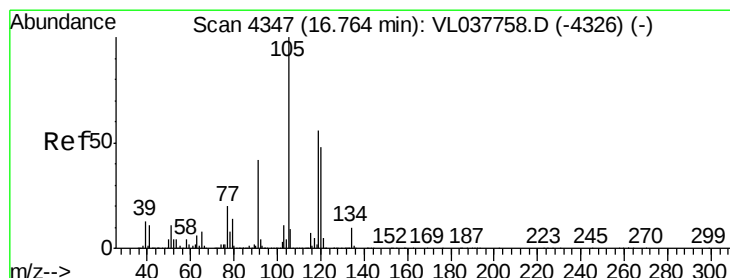
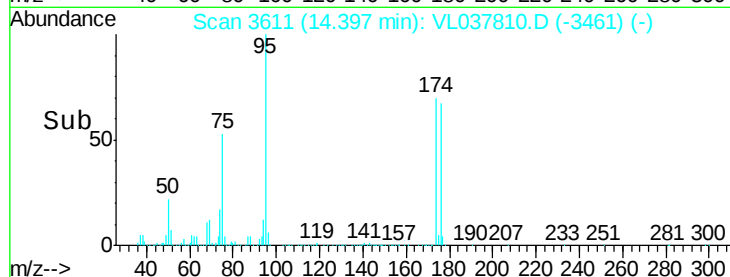
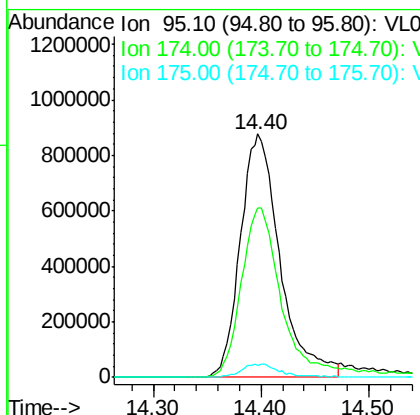
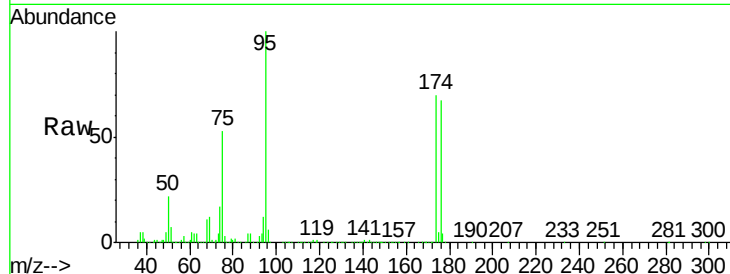
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.251 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL037810.D
 Acq: 8 Oct 2021 00:21

Instrument :
 MSVOA_L
 ClientSampled :
 C0P45

Tgt Ion: 95 Resp: 2242620
 Ion Ratio Lower Upper
 95 100
 174 74.5 57.8 86.6
 175 5.7 4.7 7.1

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.125 ppbv m
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.02 min
 Lab File: VL037810.D
 Acq: 8 Oct 2021 00:21

Tgt Ion: 105 Resp: 46645
 Ion Ratio Lower Upper
 105 100
 120 51.7 38.4 57.6
 91 18.5 34.2 51.2#
 77 19.0 15.8 23.8

