

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037777.D
 Acq On : 5 Oct 2021 17:16
 Operator : SY/AP
 Sample : M4012-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P28

Manual Integrations
 APPROVED

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 10/11/2021 7:36:16 PM

Quant Time: Oct 06 06:01:13 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	1348113	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3747701	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3145853	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2318871	10.54	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	50108	0.233	ppbv	98
3) Chlorodifluoromethane	2.98	51	54676	0.211	ppbv	93
4) Chloromethane	3.13	50	30750	0.324	ppbv #	66
9) Propene	3.01	41	56604m	0.594	ppbv	
10) Heptane	8.10	43	29365m	0.136	ppbv	
11) Trichlorofluoromethane	3.93	101	38775m	0.202	ppbv	
13) Ethanol	3.59	45	308524m	39.582	ppbv	
15) Acetone	3.84	43	1625171	13.429	ppbv	97
17) tert-Butyl alcohol	4.29	59	64408m	0.517	ppbv	
19) Isopropyl Alcohol	3.96	45	174942m	2.324	ppbv	
20) Methylene Chloride	4.33	84	521786	8.533	ppbv	96
26) Hexane	5.67	57	217156	1.299	ppbv #	44
34) 2-Butanone	5.23	43	229749	1.519	ppbv	97
35) Carbon Tetrachloride	7.00	117	11828m	0.056	ppbv	
36) Benzene	6.87	78	55570	0.174	ppbv #	95
44) 2,2,4-Trimethylpentane	7.85	57	118269	0.220	ppbv #	83
50) 4-Methyl-2-Pentanone	8.74	43	28836m	0.146	ppbv	
52) Tetrachloroethene	11.20	164	42940m	0.345	ppbv	
53) Toluene	9.78	91	194502	0.548	ppbv	98
58) Ethyl Benzene	12.69	91	132756	0.314	ppbv	89
59) m/p-Xylene	12.94	91	594540m	1.640	ppbv	
60) o-Xylene	13.67	91	153810m	0.443	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	51997m	0.138	ppbv	

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

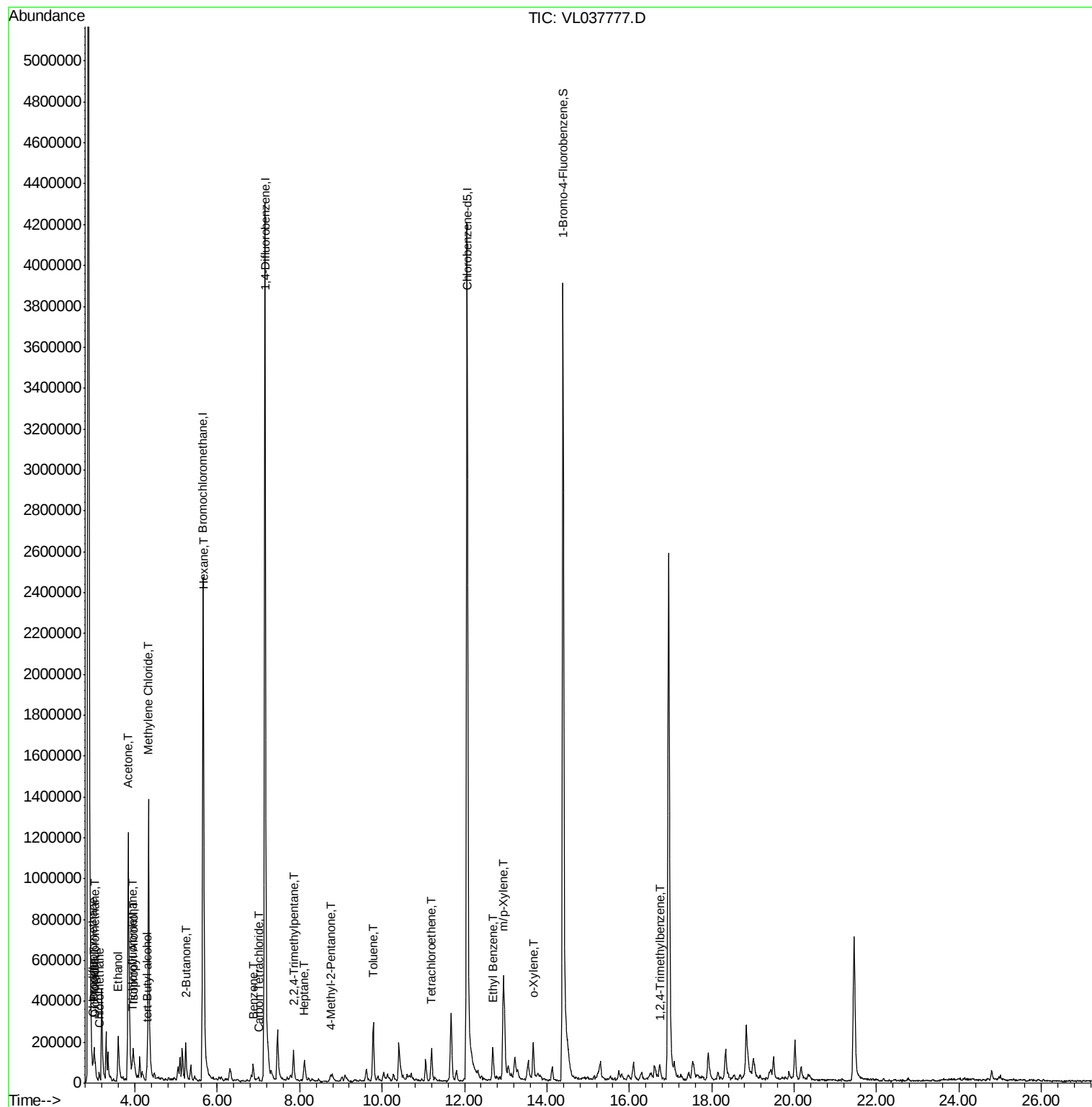
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037777.D
Acq On : 5 Oct 2021 17:16
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

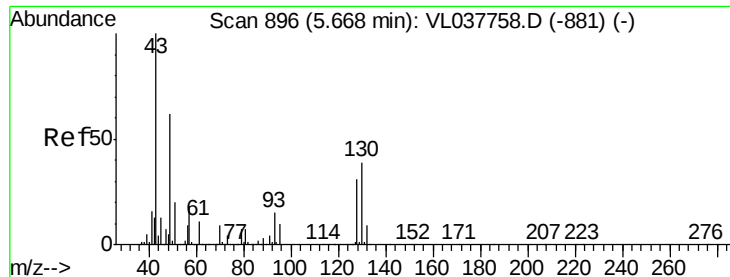
Instrument :
MSVOA_L
ClientSampleId :
C0P28

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Quant Time: Oct 06 06:01:13 2021
Quant Method : Z:\VOASRV\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# 890

Delta R.T. -0.02 min

Lab File: VL037777.D

Acq: 5 Oct 2021 17:16

Instrument :

MSVOA_L

ClientSampled :

C0P28

Tgt Ion: 49 Resp: 1348113

Ion Ratio Lower Upper

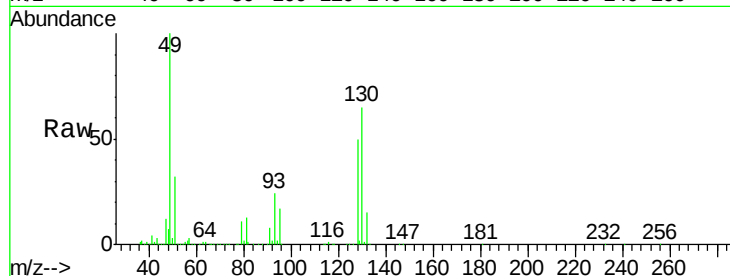
49 100

128 51.5 27.1 81.3

130 67.0 33.2 99.6

Manual Integrations
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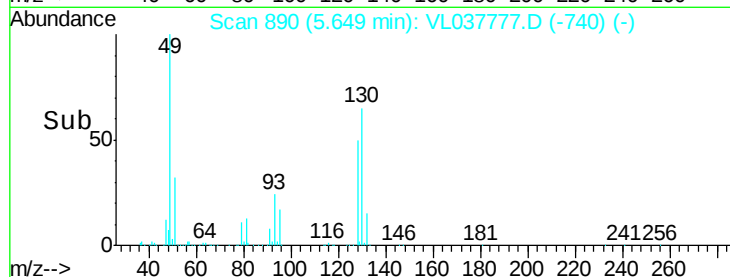
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 0.233 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037777.D

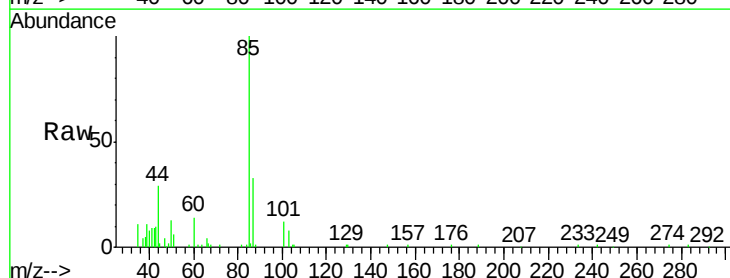
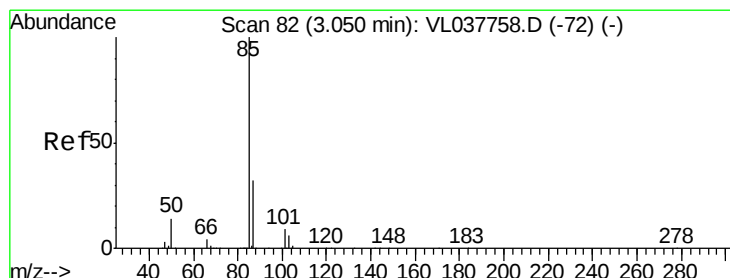
Acq: 5 Oct 2021 17:16

Tgt Ion: 85 Resp: 50108

Ion Ratio Lower Upper

85 100

87 31.1 25.7 38.5

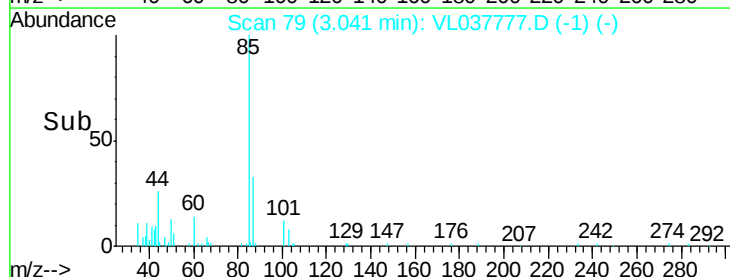


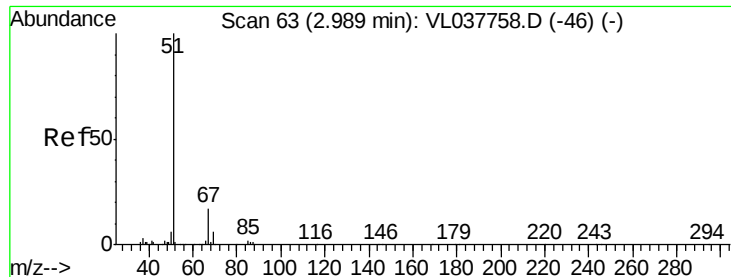
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.04

Time-->





#3

Chlorodifluoromethane

Concen: 0.211 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037777.D

Acq: 5 Oct 2021 17:16

Instrument :

MSVOA_L

ClientSampled :

C0P28

Tgt Ion: 51 Resp: 54676

Ion Ratio Lower Upper

51 100

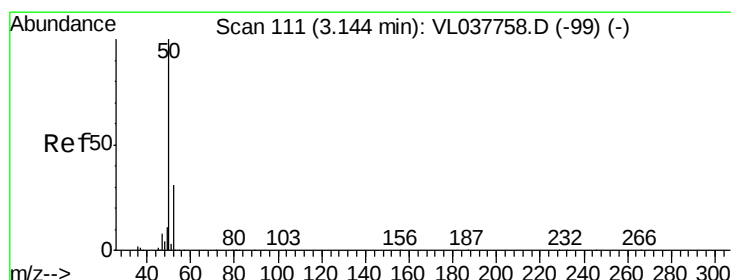
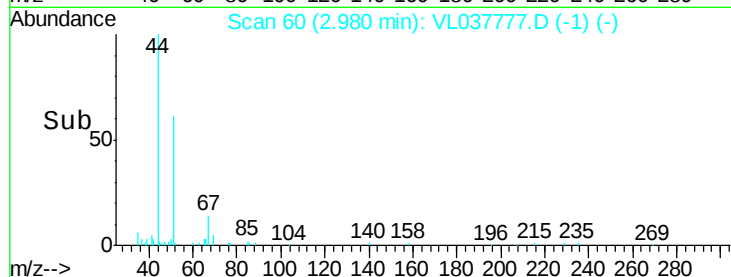
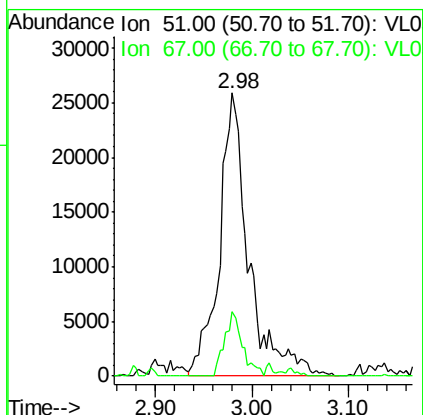
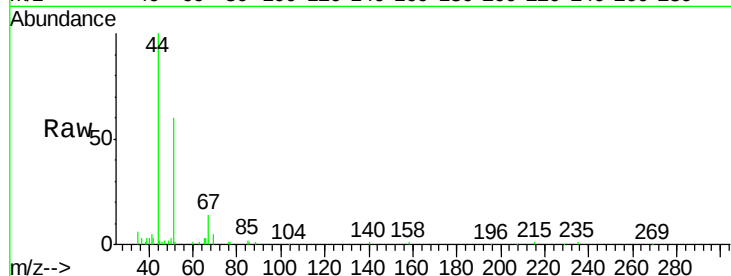
67 13.9 13.5 20.3

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#4

Chloromethane

Concen: 0.324 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037777.D

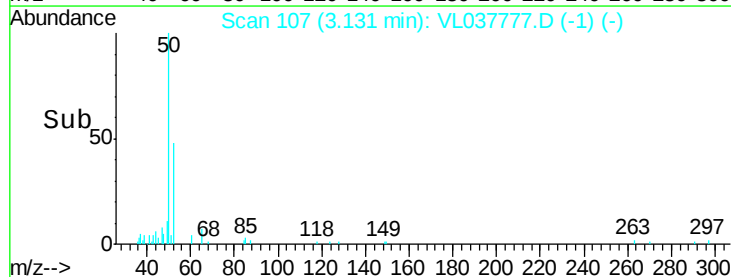
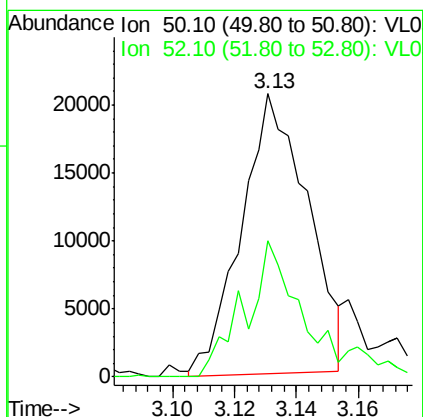
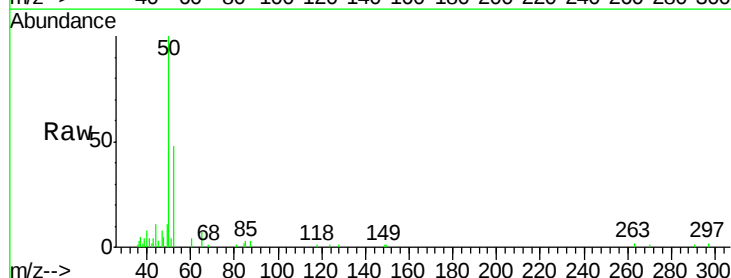
Acq: 5 Oct 2021 17:16

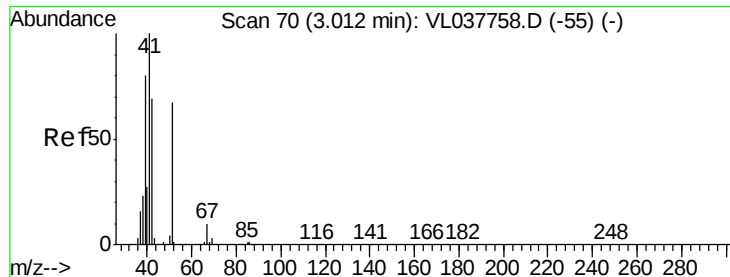
Tgt Ion: 50 Resp: 30750

Ion Ratio Lower Upper

50 100

52 49.1 24.4 36.6#





#9

Propene

Concen: 0.594 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL037777.D

Acq: 5 Oct 2021 17:16

Instrument :

MSVOA_L

ClientSampleId :

C0P28

Tgt Ion: 41 Resp: 56604

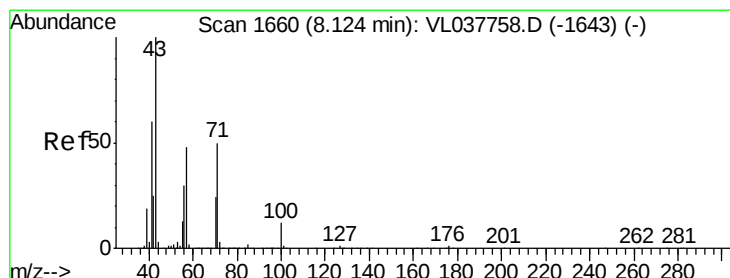
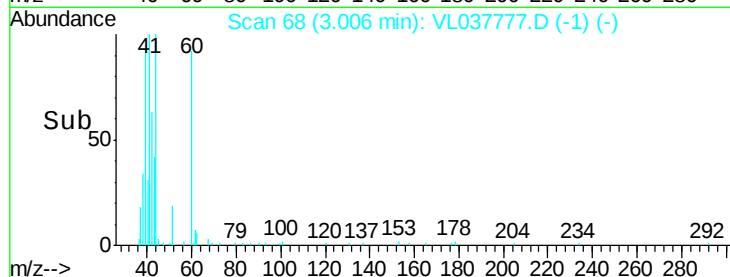
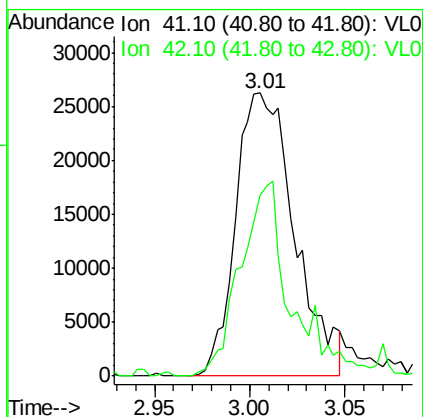
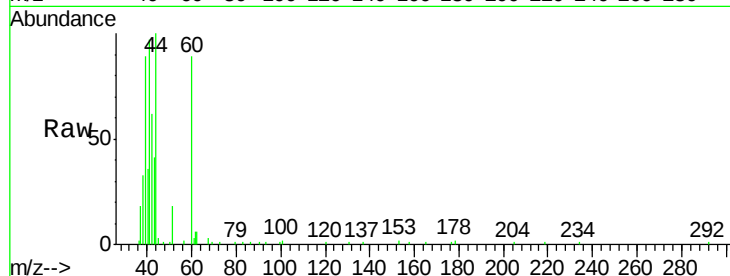
Ion Ratio Lower Upper

41 100

42 0.0 54.2 81.2#

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#10

Heptane

Concen: 0.136 ppbv m

RT: 8.10 min Scan# 1653

Delta R.T. -0.02 min

Lab File: VL037777.D

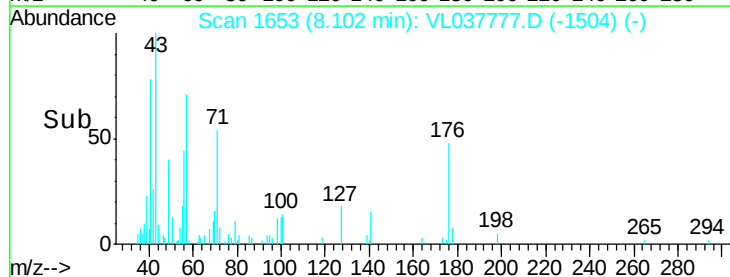
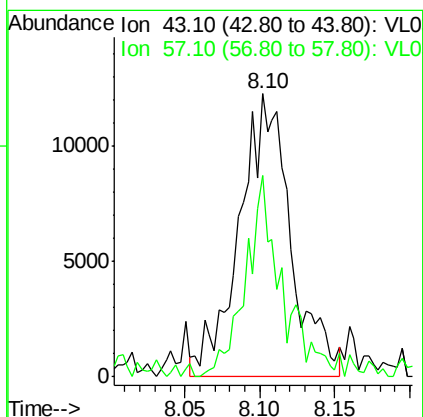
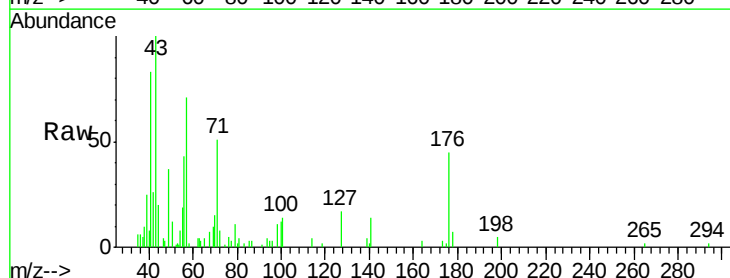
Acq: 5 Oct 2021 17:16

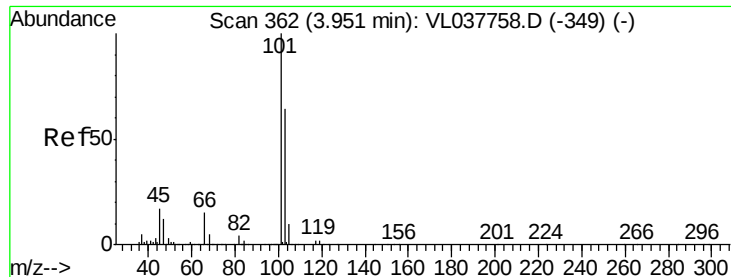
Tgt Ion: 43 Resp: 29365

Ion Ratio Lower Upper

43 100

57 0.0 40.0 60.0#





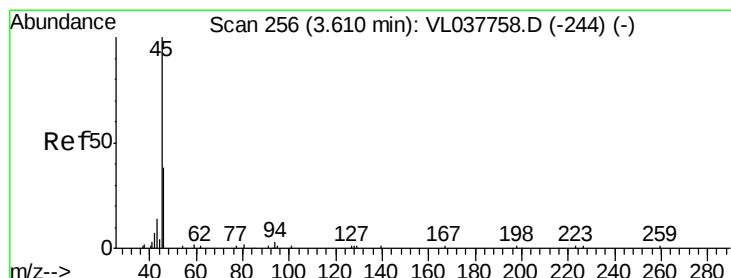
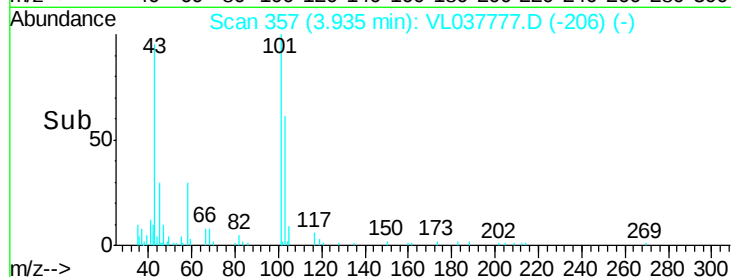
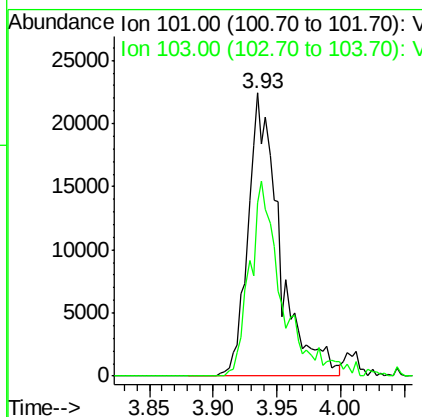
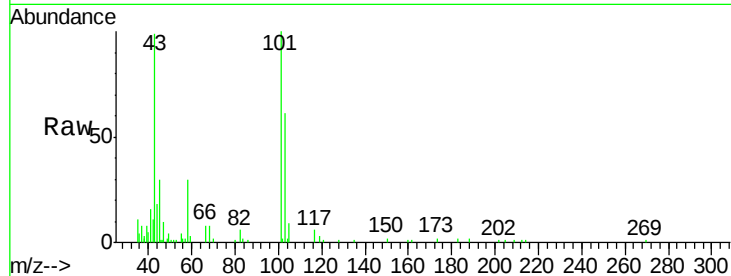
#11
 Trichlorofluoromethane
 Concen: 0.202 ppbv m
 RT: 3.93 min Scan# 357
 Delta R.T. -0.02 min
 Lab File: VL037777.D
 Acq: 5 Oct 2021 17:16

Instrument :
 MSVOA_L
 ClientSampled :
 C0P28

Tgt Ion: 101 Resp: 38775
 Ion Ratio Lower Upper
 101 100
 103 61.2 51.5 77.3

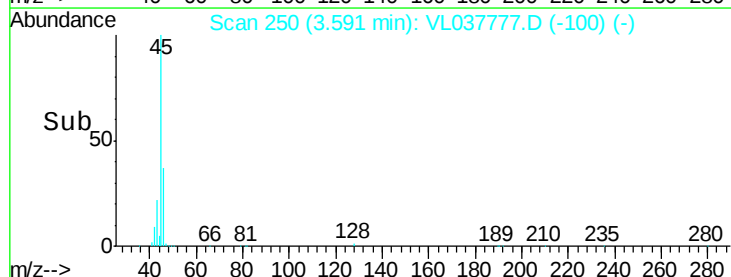
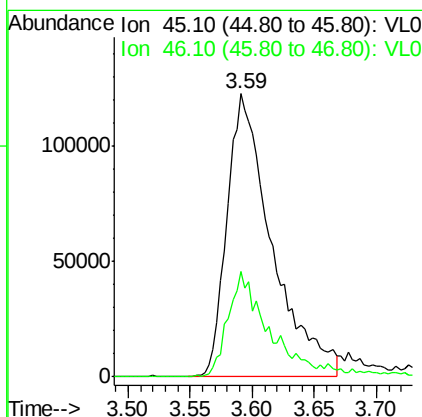
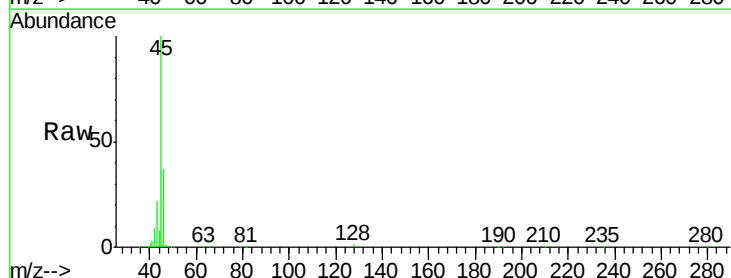
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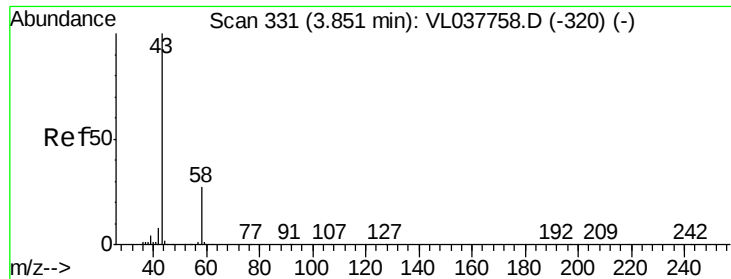
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#13
 Ethanol
 Concen: 39.582 ppbv m
 RT: 3.59 min Scan# 250
 Delta R.T. -0.02 min
 Lab File: VL037777.D
 Acq: 5 Oct 2021 17:16

Tgt Ion: 45 Resp: 308524
 Ion Ratio Lower Upper
 45 100
 46 36.4 20.2 81.0





#15

Acetone

Concen: 13.429 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL037777.D

Acq: 5 Oct 2021 17:16

Instrument :

MSVOA_L

ClientSampled :

C0P28

Tgt Ion: 43 Resp: 1625171

Ion Ratio Lower Upper

43 100

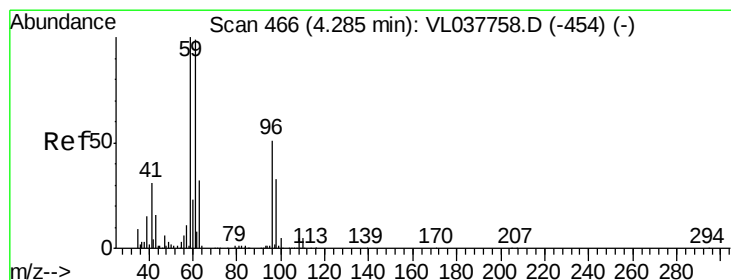
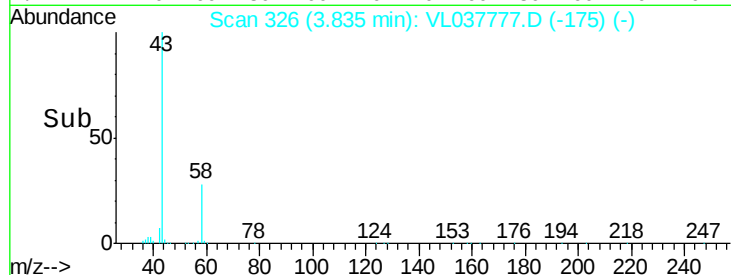
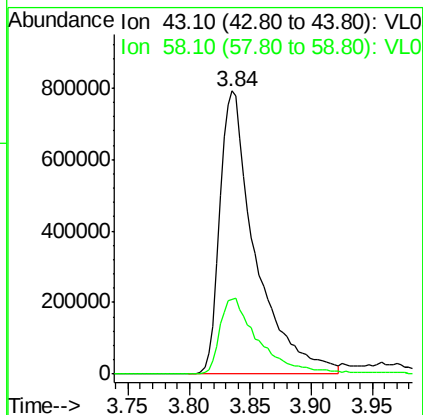
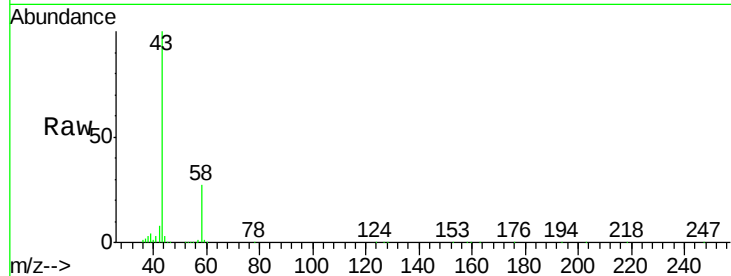
58 30.6 23.0 34.6

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#17

tert-Butyl alcohol

Concen: 0.517 ppbv m

RT: 4.29 min Scan# 466

Delta R.T. 0.00 min

Lab File: VL037777.D

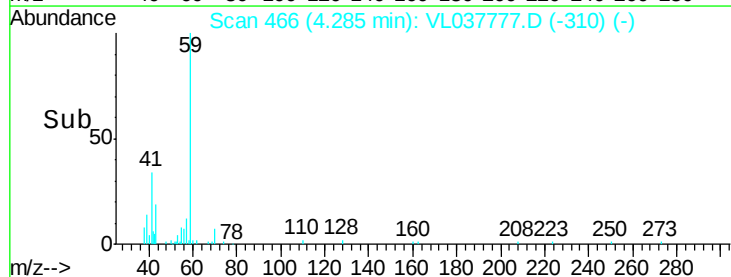
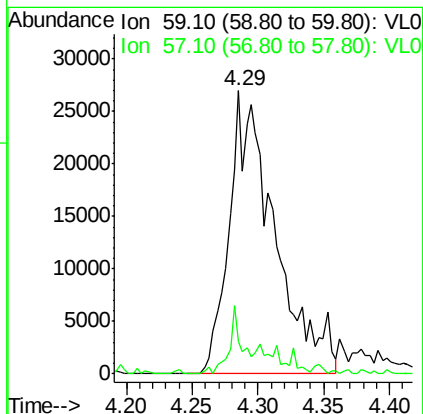
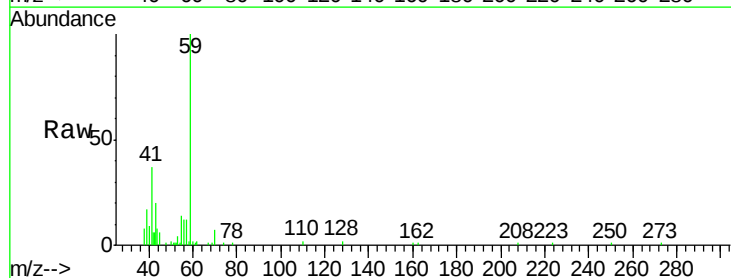
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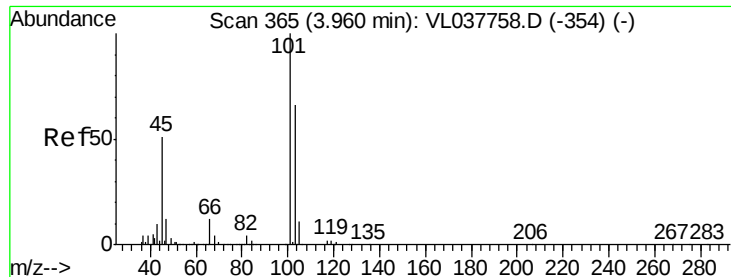
Tgt Ion: 59 Resp: 64408

Ion Ratio Lower Upper

59 100

57 12.7 8.6 13.0





#19

Isopropyl Alcohol

Concen: 2.324 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL037777.D

Acq: 5 Oct 2021 17:16

Instrument :

MSVOA_L

ClientSampled :

C0P28

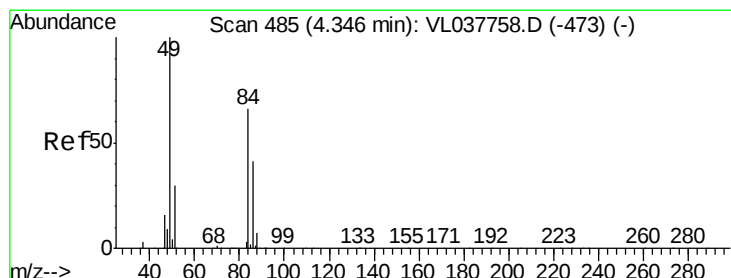
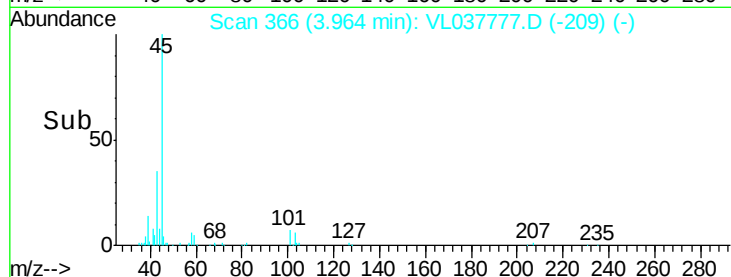
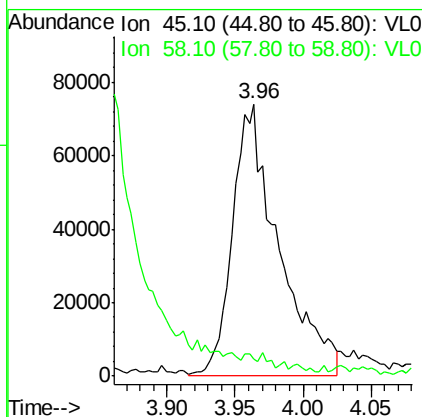
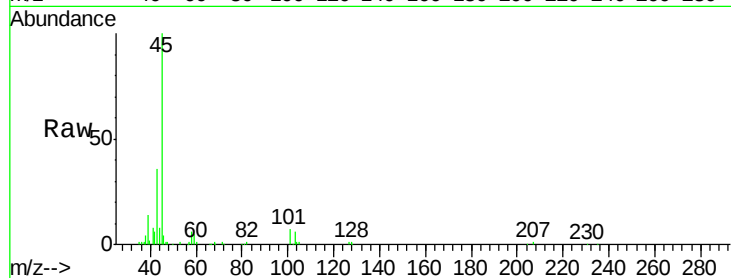
Tgt Ion: 45 Resp: 174942
Ion Ratio Lower Upper

45 100

58 0.0 1.1 1.7#

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#20

Methylene Chloride

Concen: 8.533 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.02 min

Lab File: VL037777.D

Acq: 5 Oct 2021 17:16

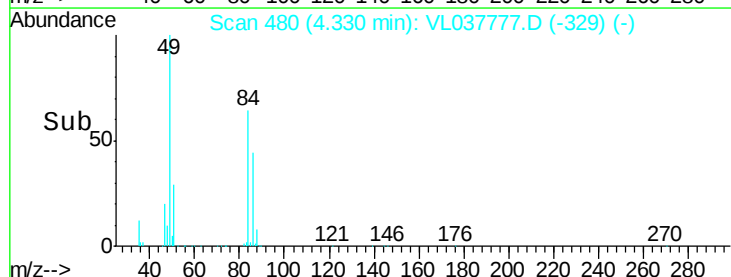
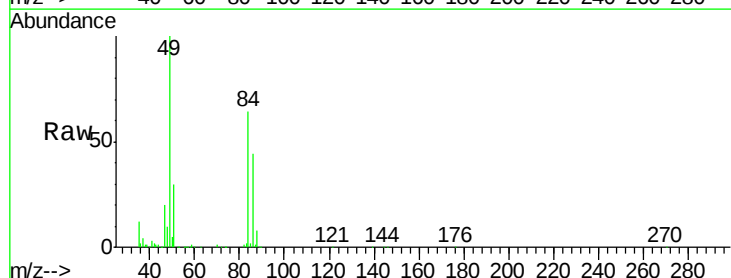
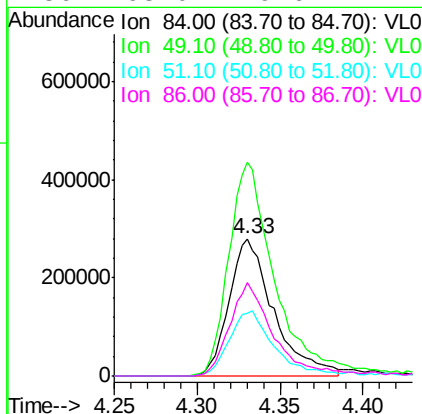
Tgt Ion: 84 Resp: 521786
Ion Ratio Lower Upper

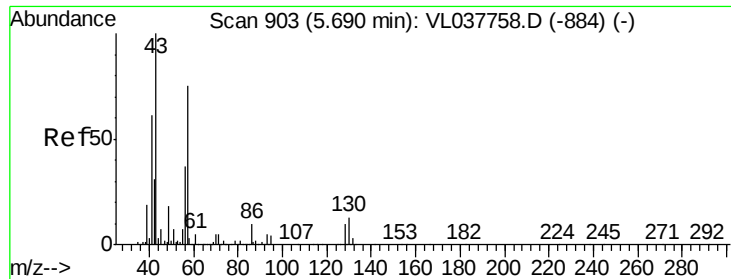
84 100

49 155.5 120.7 181.1

51 45.9 36.2 54.4

86 68.0 49.6 74.4





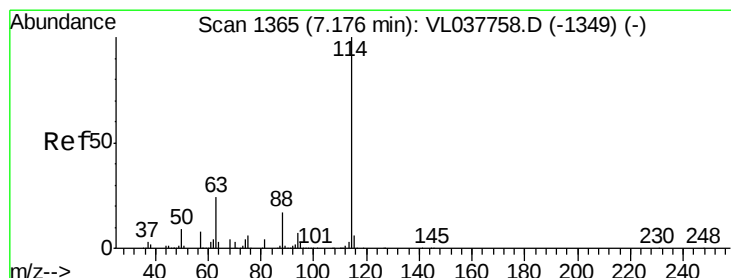
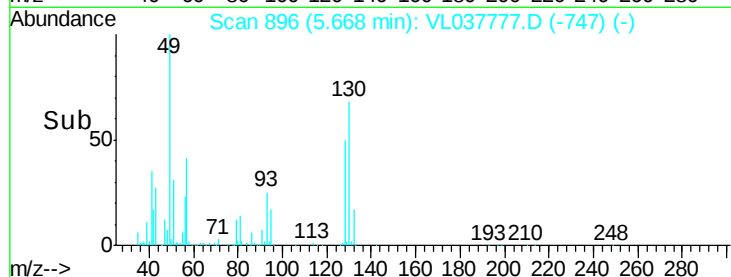
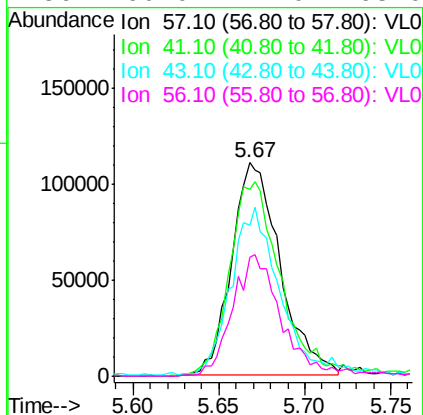
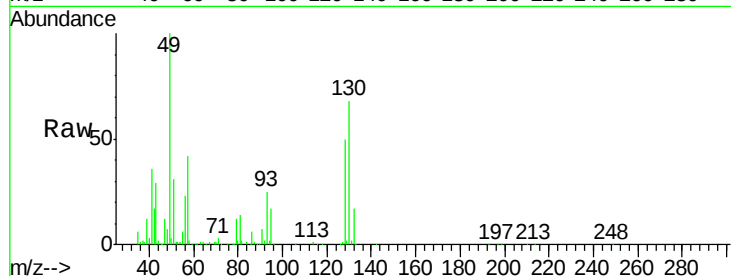
#26
Hexane
Concen: 1.299 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL037777.D
Acq: 5 Oct 2021 17:16

Instrument :
MSVOA_L
ClientSampleId :
C0P28

Tgt Ion	Ratio	Lower	Upper
57	100		
41	99.1	69.6	104.4
43	81.3	171.4	257.0#
56	60.0	42.0	63.0

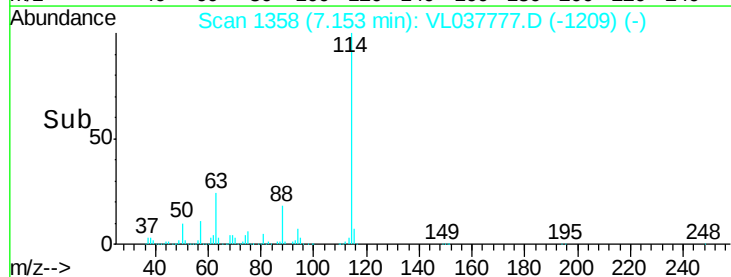
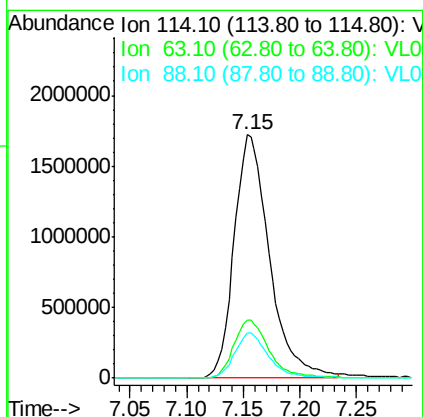
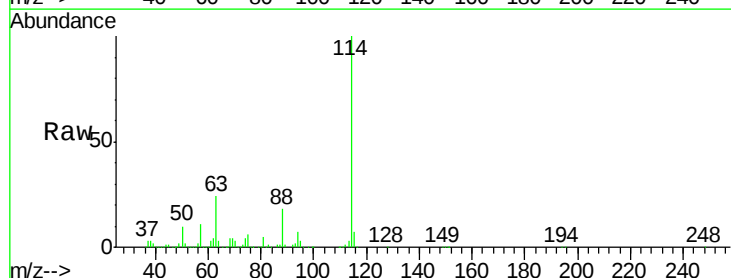
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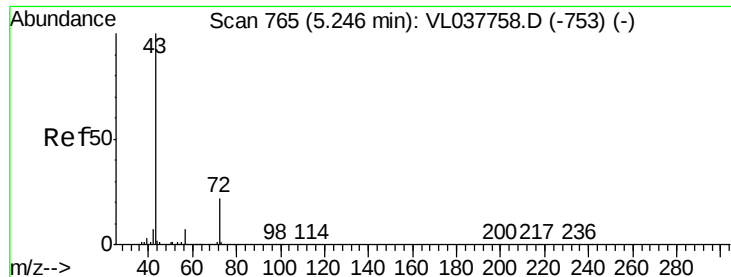
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.02 min
Lab File: VL037777.D
Acq: 5 Oct 2021 17:16

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.4	29.2
88	18.1	14.4	21.6





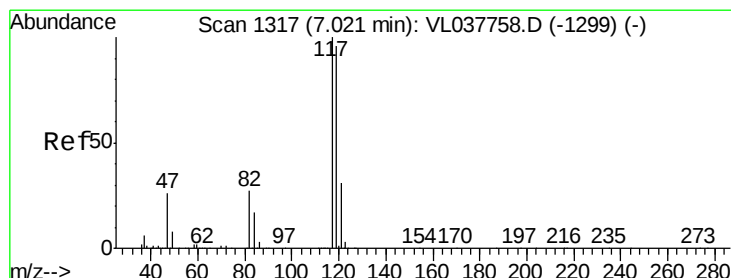
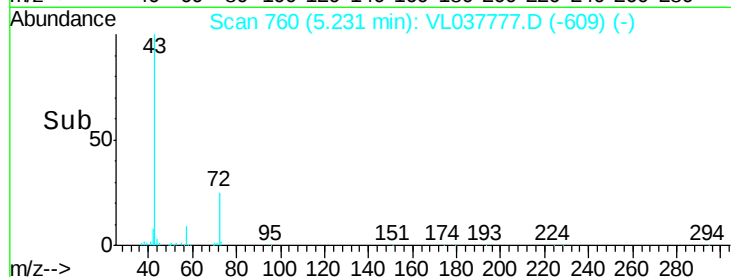
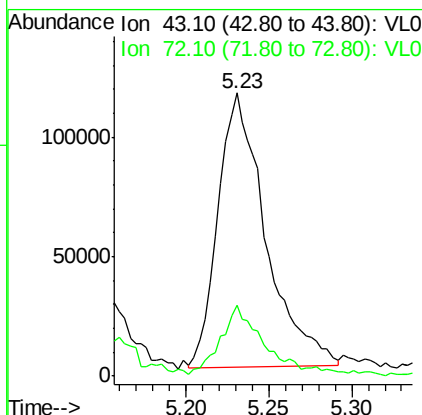
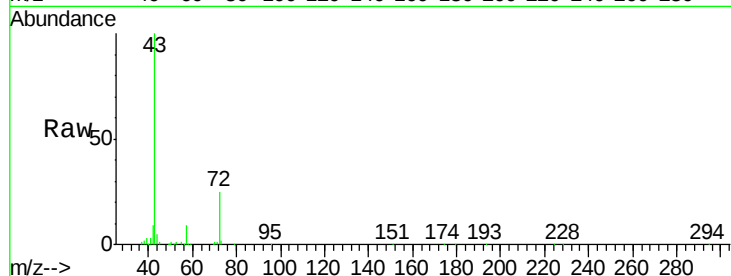
#34
2-Butanone
Concen: 1.519 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.02 min
Lab File: VL037777.D
Acq: 5 Oct 2021 17:16

Instrument :
MSVOA_L
ClientSampled :
C0P28

Tgt Ion: 43 Resp: 229749
Ion Ratio Lower Upper
43 100
72 23.9 18.2 27.2

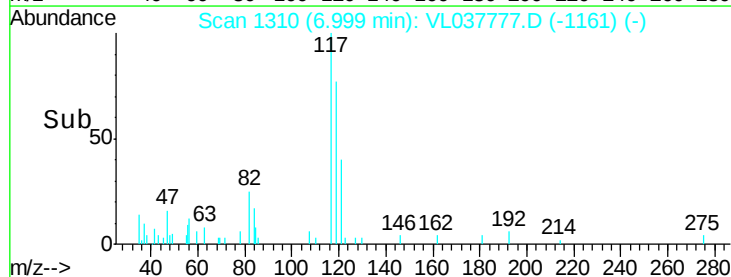
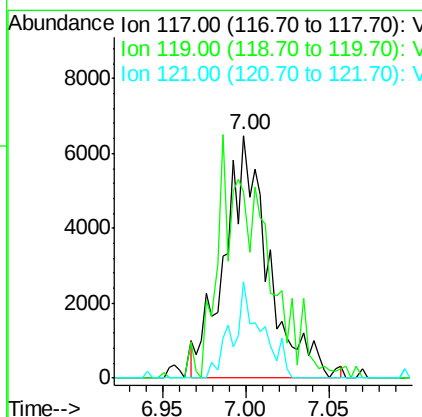
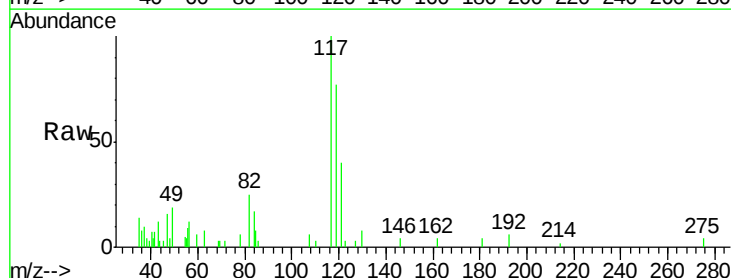
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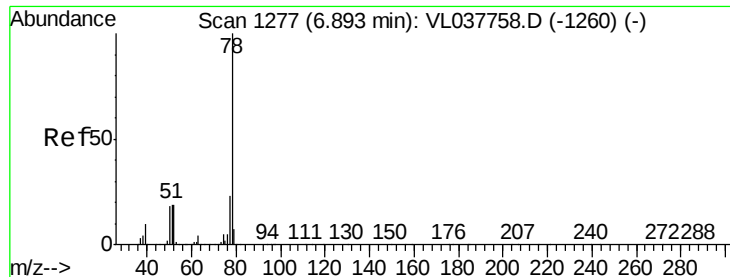
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#35
Carbon Tetrachloride
Concen: 0.056 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.02 min
Lab File: VL037777.D
Acq: 5 Oct 2021 17:16

Tgt Ion: 117 Resp: 11828
Ion Ratio Lower Upper
117 100
119 77.0 76.5 114.7
121 39.7 24.9 37.3#





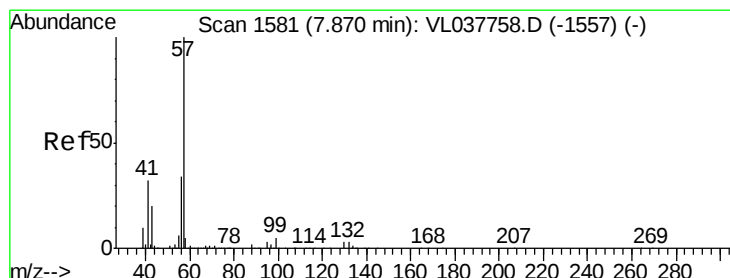
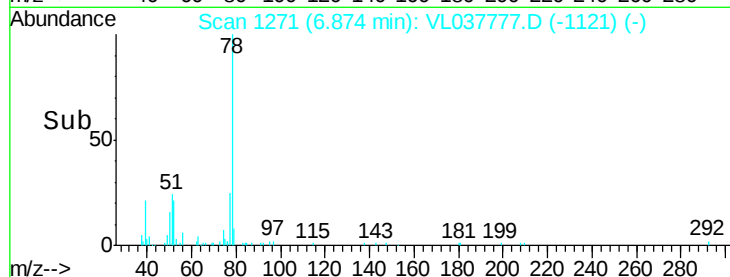
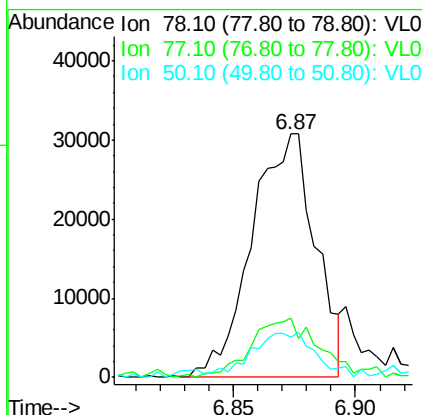
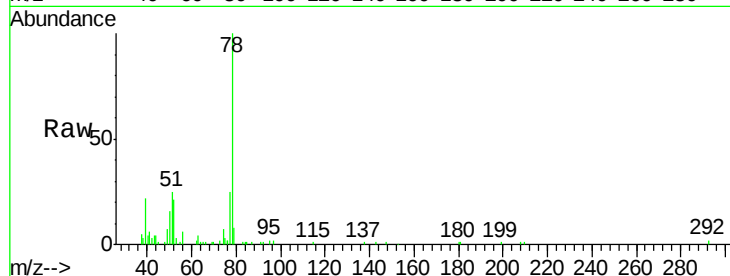
#36
Benzene
Concen: 0.174 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.02 min
Lab File: VL037777.D
Acq: 5 Oct 2021 17:16

Instrument :
MSVOA_L
ClientSampleId :
C0P28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2
50	13.5	14.7	22.1#

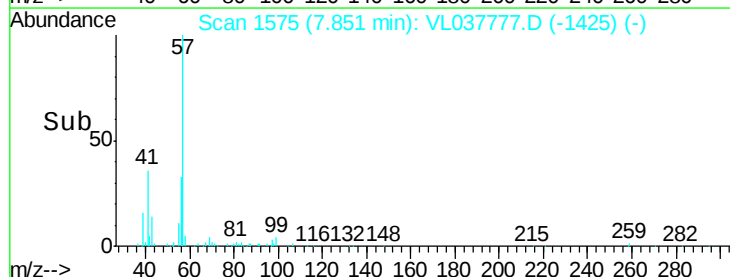
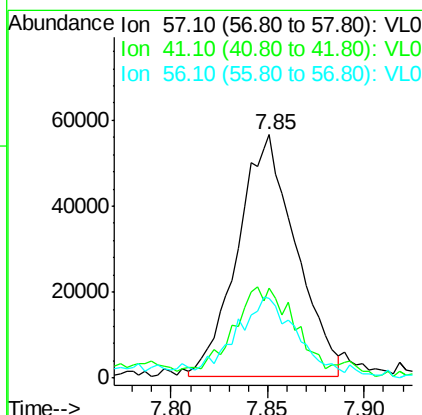
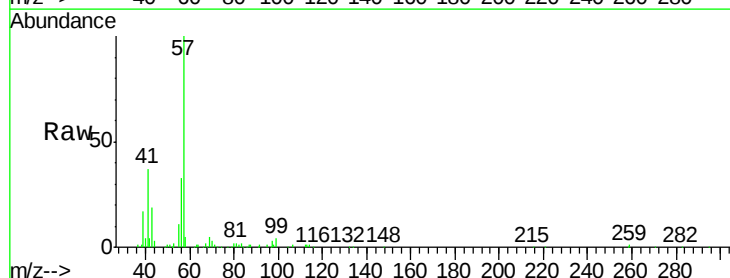
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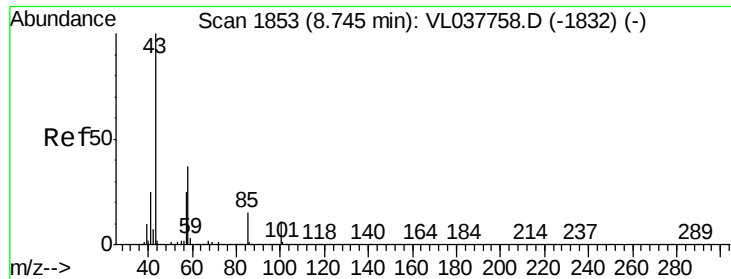
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#44
2,2,4-Trimethylpentane
Concen: 0.220 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. -0.02 min
Lab File: VL037777.D
Acq: 5 Oct 2021 17:16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	43.3	25.6	38.4#
56	39.5	25.5	38.3#





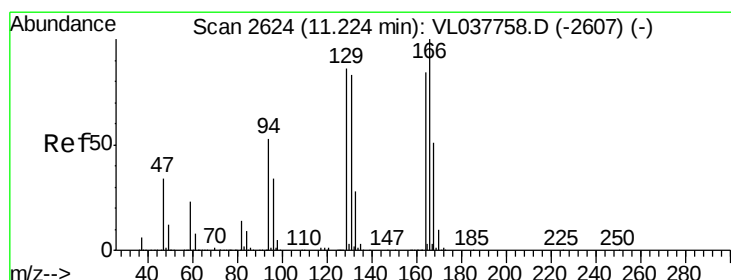
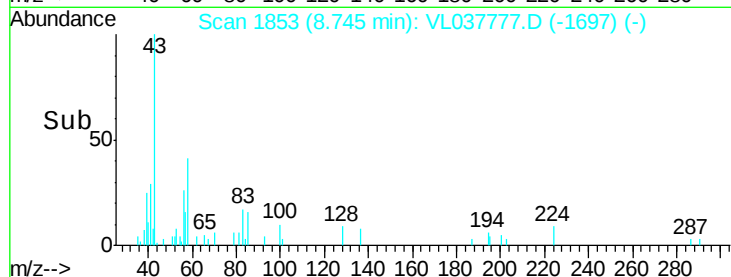
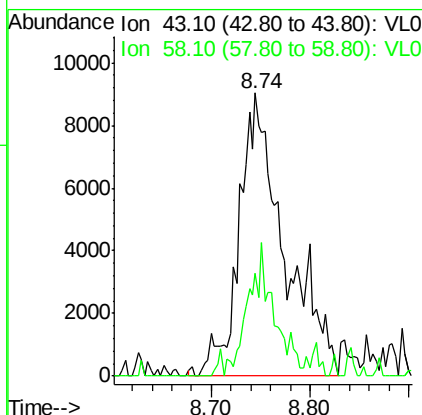
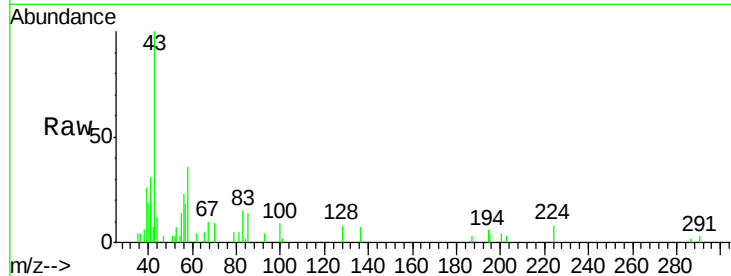
#50
 4-Methyl-2-Pentanone
 Concen: 0.146 ppbv m
 RT: 8.74 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VL037777.D
 Acq: 5 Oct 2021 17:16

Instrument :
 MSVOA_L
 ClientSampled :
 C0P28

Tgt Ion: 43 Resp: 28836
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.4 44.0#

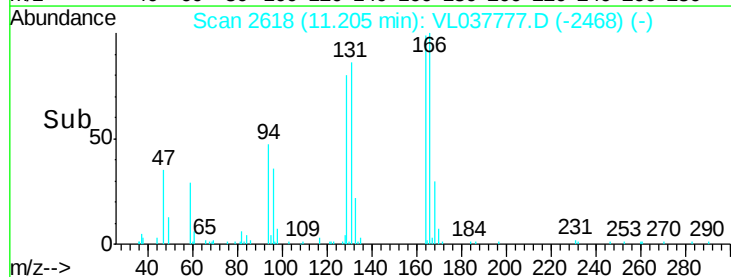
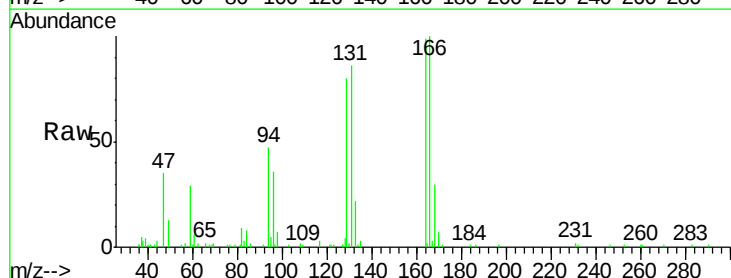
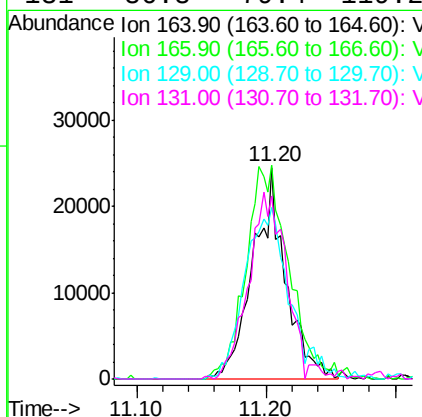
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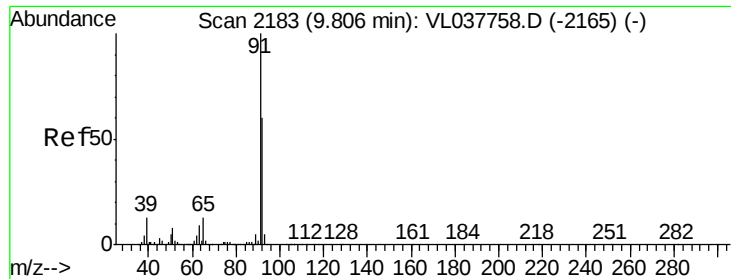
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#52
 Tetrachloroethene
 Concen: 0.345 ppbv m
 RT: 11.20 min Scan# 2618
 Delta R.T. -0.02 min
 Lab File: VL037777.D
 Acq: 5 Oct 2021 17:16

Tgt Ion: 164 Resp: 42940
 Ion Ratio Lower Upper
 164 100
 166 101.1 95.4 143.2
 129 80.9 82.2 123.4#
 131 86.8 79.4 119.2





#53

Toluene

Concen: 0.548 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.02 min

Lab File: VL037777.D

Acq: 5 Oct 2021 17:16

Instrument :

MSVOA_L

ClientSampleId :

C0P28

Tgt Ion: 91 Resp: 194502

Ion Ratio Lower Upper

91 100

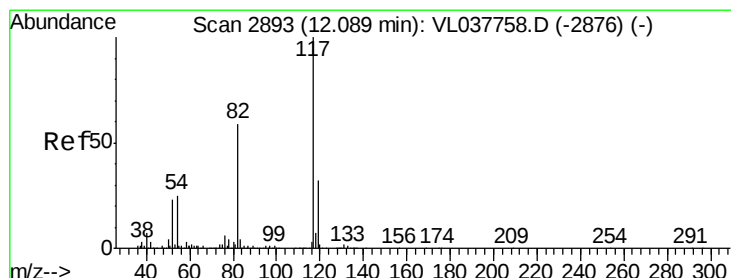
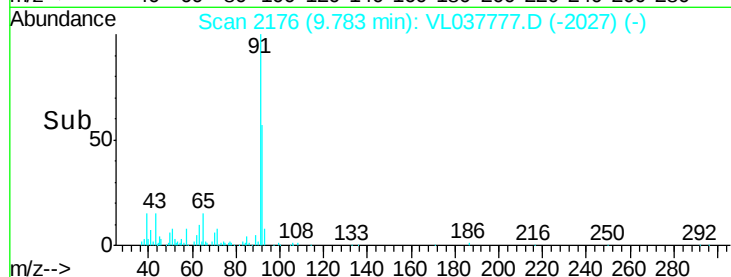
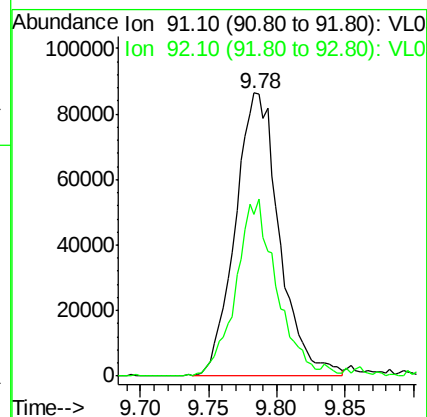
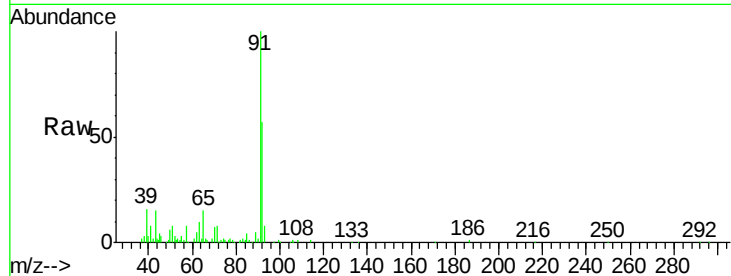
92 58.6 48.4 72.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL037777.D

Acq: 5 Oct 2021 17:16

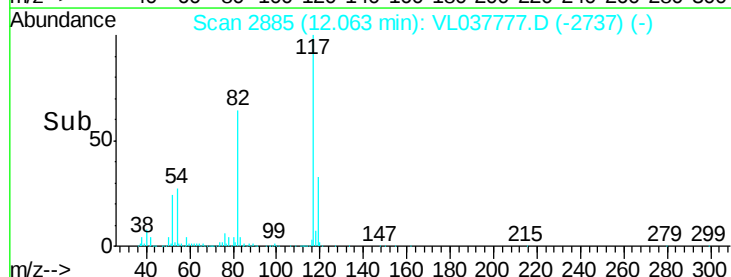
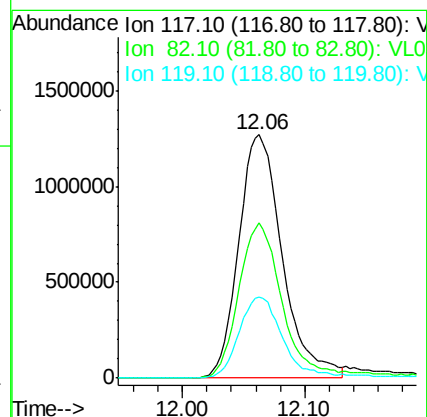
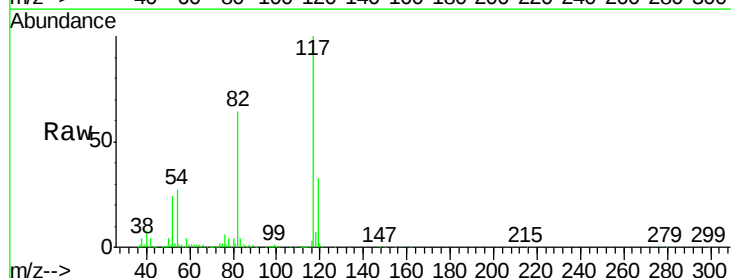
Tgt Ion: 117 Resp: 3145853

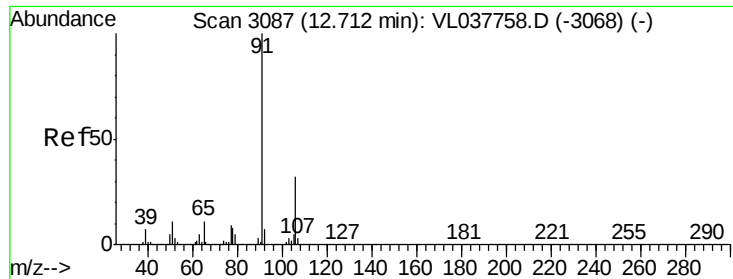
Ion Ratio Lower Upper

117 100

82 65.8 52.2 78.2

119 35.0 26.0 39.0





#58

Ethyl Benzene

Concen: 0.314 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. -0.02 min

Lab File: VL037777.D

Acq: 5 Oct 2021 17:16

Instrument :

MSVOA_L

ClientSampled :

C0P28

Tgt Ion: 91 Resp: 132756

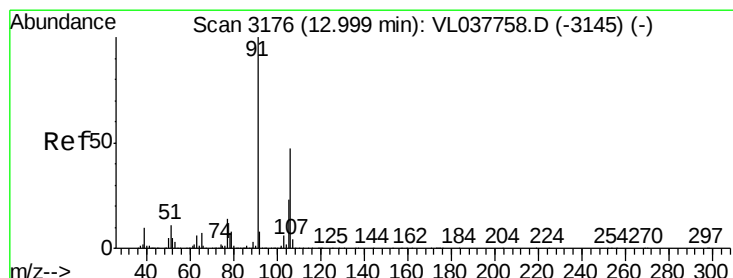
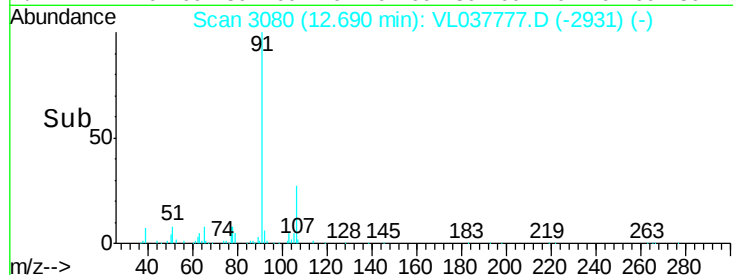
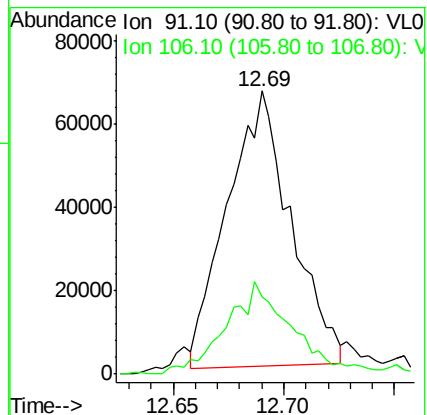
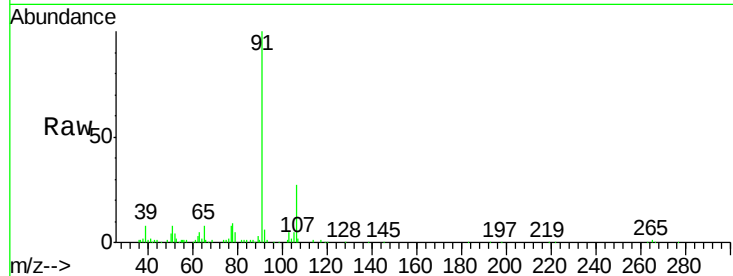
Ion Ratio Lower Upper

91 100

106 25.5 25.3 37.9

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#59

m/p-Xylene

Concen: 1.640 ppbv m

RT: 12.94 min Scan# 3158

Delta R.T. -0.06 min

Lab File: VL037777.D

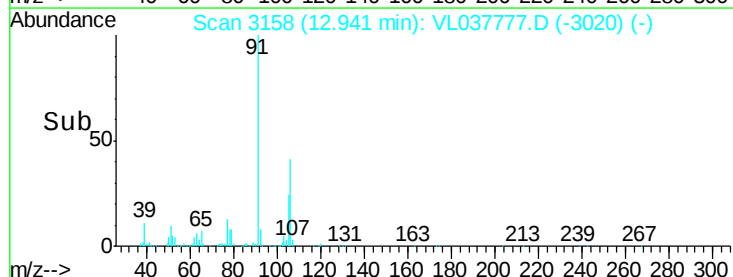
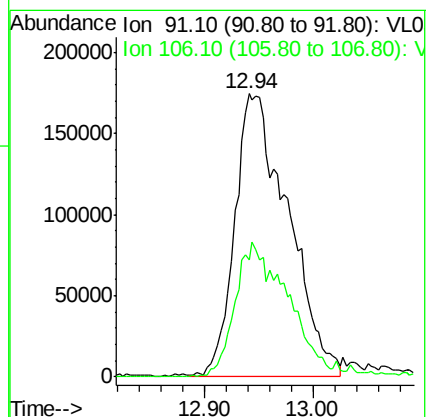
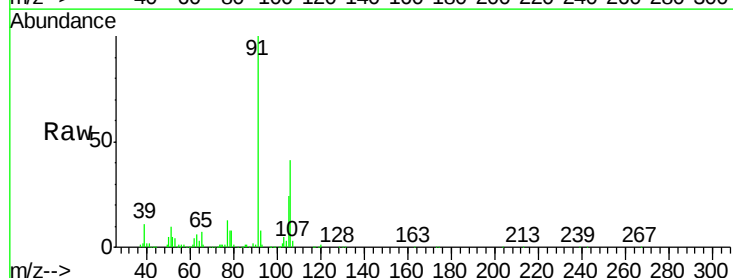
Acq: 5 Oct 2021 17:16

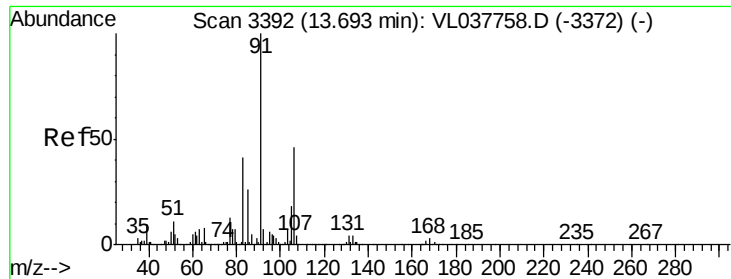
Tgt Ion: 91 Resp: 594540

Ion Ratio Lower Upper

91 100

106 0.0 36.7 55.1#





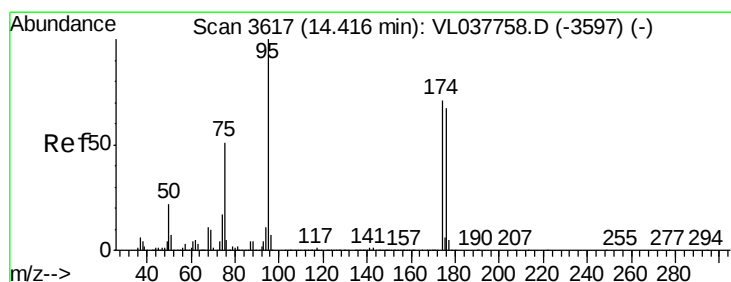
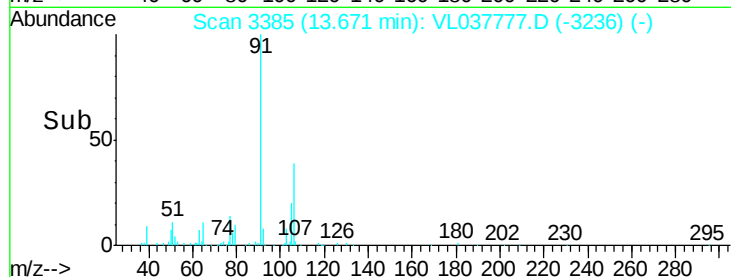
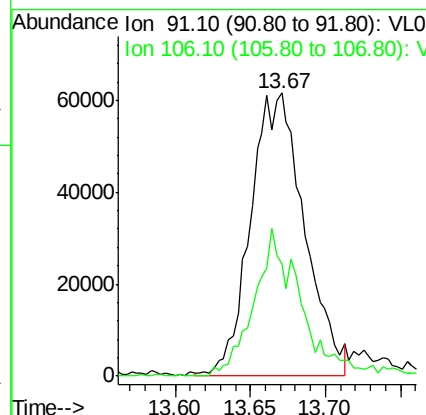
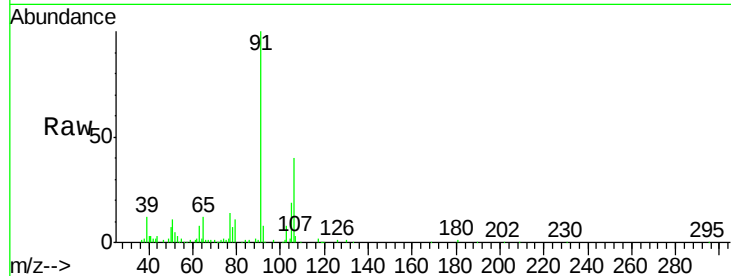
#60
o-Xylene
Concen: 0.443 ppbv m
RT: 13.67 min Scan# 3385
Delta R.T. -0.02 min
Lab File: VL037777.D
Acq: 5 Oct 2021 17:16

Instrument :
MSVOA_L
ClientSampleId :
C0P28

Tgt Ion: 91 Resp: 153810
Ion Ratio Lower Upper
91 100
106 44.6 23.5 70.5

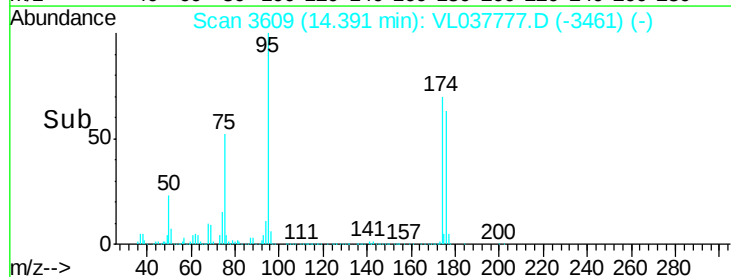
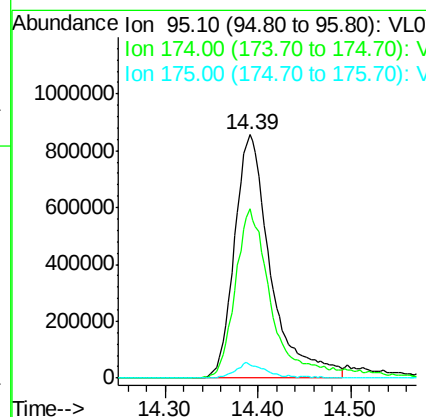
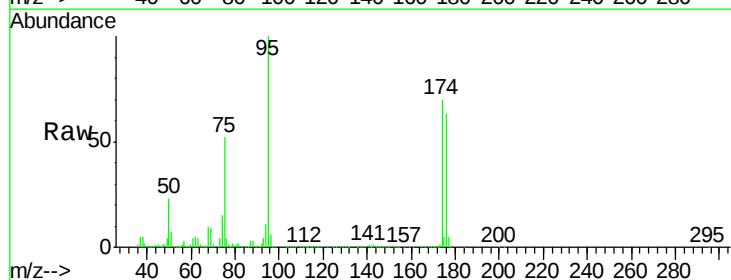
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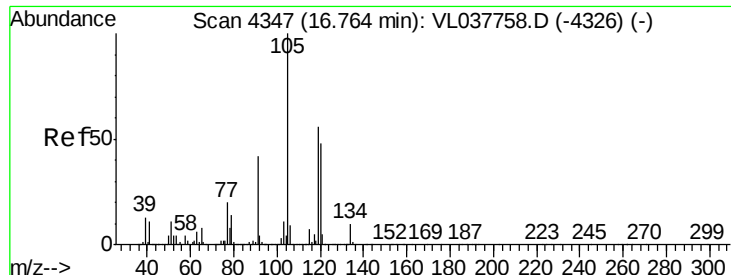
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.541 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.03 min
Lab File: VL037777.D
Acq: 5 Oct 2021 17:16

Tgt Ion: 95 Resp: 2318871
Ion Ratio Lower Upper
95 100
174 73.2 57.8 86.6
175 5.4 4.7 7.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.138 ppbv m
 RT: 16.73 min Scan# 4337
 Delta R.T. -0.03 min
 Lab File: VL037777.D
 Acq: 5 Oct 2021 17:16

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P28

Tgt Ion:	105	Resp:	51997
Ion Ratio	Lower	Upper	
105	100		
120	38.0	38.4	57.6#
91	11.6	34.2	51.2#
77	11.2	15.8	23.8#

Manual Integrations
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