

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037771.D
 Acq On : 5 Oct 2021 13:23
 Operator : SY/AP
 Sample : M4012-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P22

Manual Integrations
 APPROVED

MMDadoda
 10/11/2021 7:36:02 PM

Quant Time: Oct 06 05:44:29 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	1438730	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4026943	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3430596	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2423975	10.10	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	22837	0.099	ppbv	93
4) Chloromethane	3.13	50	17800m	0.176	ppbv	
9) Propene	3.02	41	99674m	0.980	ppbv	
13) Ethanol	3.60	45	16775598	2016.688	ppbv	84
15) Acetone	3.83	43	7687489	59.521	ppbv	99
17) tert-Butyl alcohol	4.30	59	77280m	0.581	ppbv	
19) Isopropyl Alcohol	3.97	45	4279912	53.265	ppbv #	99
20) Methylene Chloride	4.34	84	95477	1.463	ppbv	92
26) Hexane	5.68	57	59681	0.334	ppbv #	80
29) Chloroform	5.74	83	65525	0.257	ppbv	94
34) 2-Butanone	5.23	43	75149	0.462	ppbv	91
37) 1,2-Dichloroethane	6.29	62	44593	0.275	ppbv	98
52) Tetrachloroethene	11.20	164	8706m	0.065	ppbv	
53) Toluene	9.78	91	321422	0.843	ppbv	100
58) Ethyl Benzene	12.69	91	90564m	0.197	ppbv	
59) m/p-Xylene	12.95	91	212213m	0.537	ppbv	
60) o-Xylene	13.66	91	72269	0.191	ppbv	96
61) Styrene	13.51	104	38958m	0.213	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	62832m	0.153	ppbv	

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

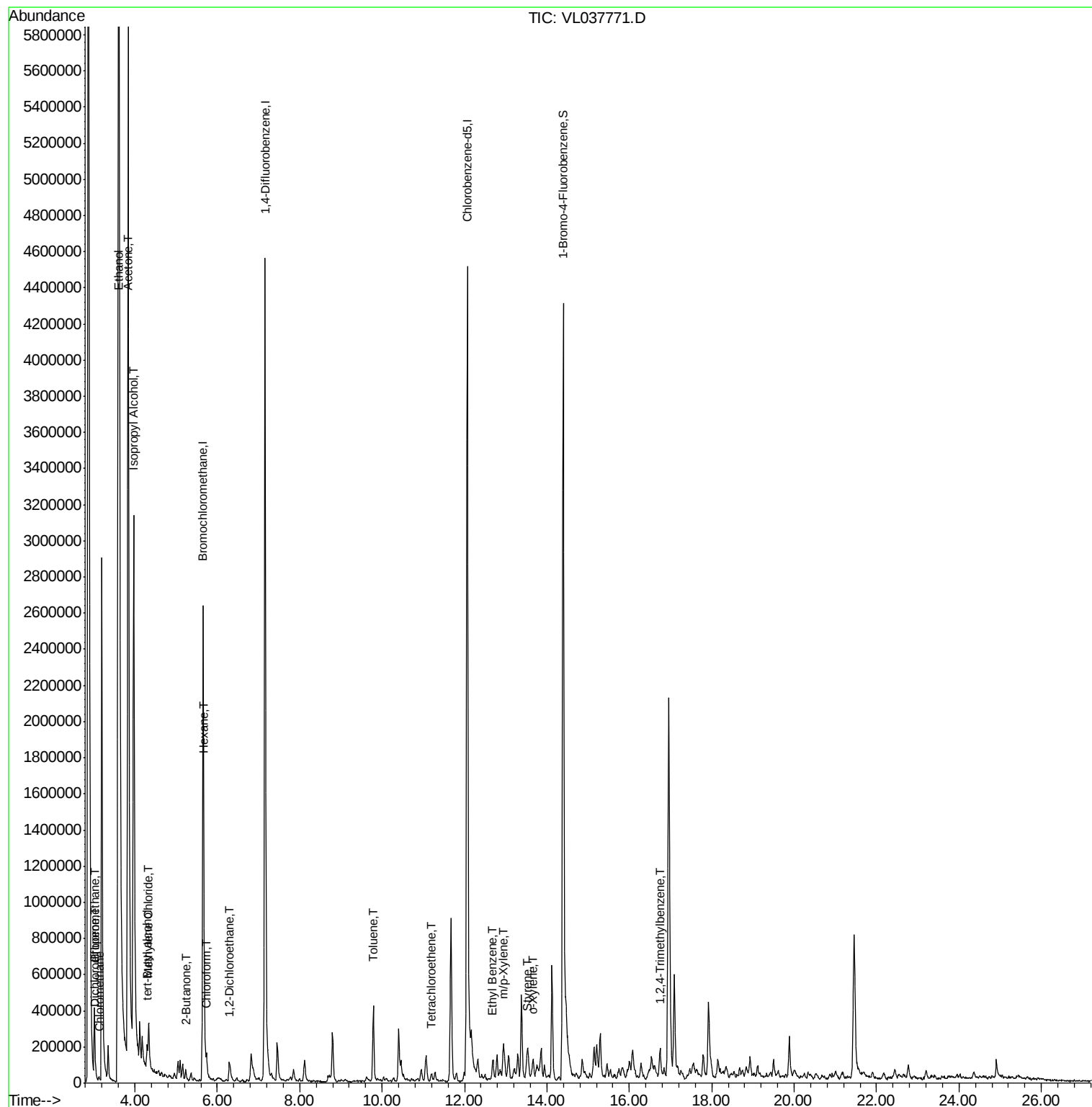
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037771.D
Acq On : 5 Oct 2021 13:23
Operator : SY/AP
Sample : M4012-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

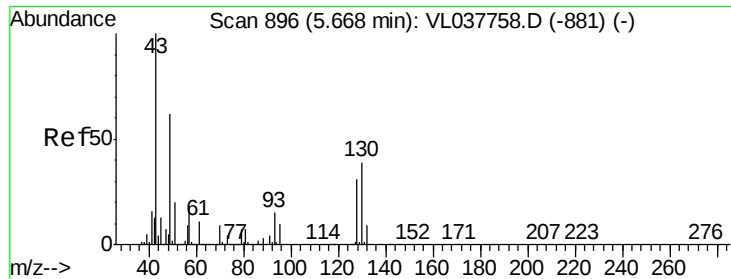
Instrument :
MSVOA_L
ClientSampleId :
C0P22

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Quant Time: Oct 06 05:44:29 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# 891

Delta R.T. -0.02 min

Lab File: VL037771.D

Acq: 5 Oct 2021 13:23

Instrument :

MSVOA_L

ClientSampled :

C0P22

Tgt Ion: 49 Resp: 1438730

Ion Ratio Lower Upper

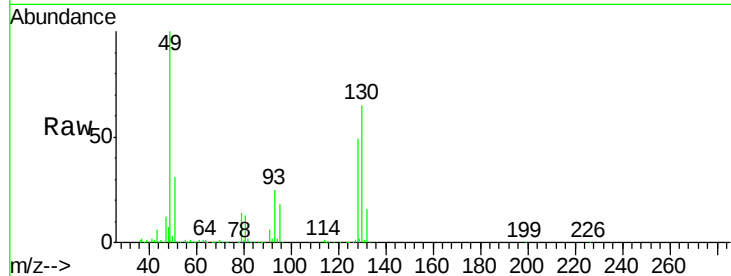
49 100

128 51.7 27.1 81.3

130 64.4 33.2 99.6

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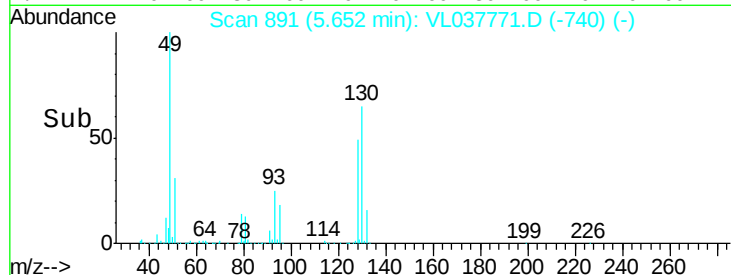


Abundance Ion 49.10 (48.80 to 49.80): VL0

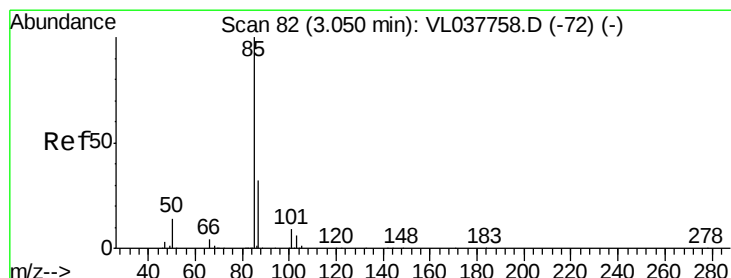
Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.099 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037771.D

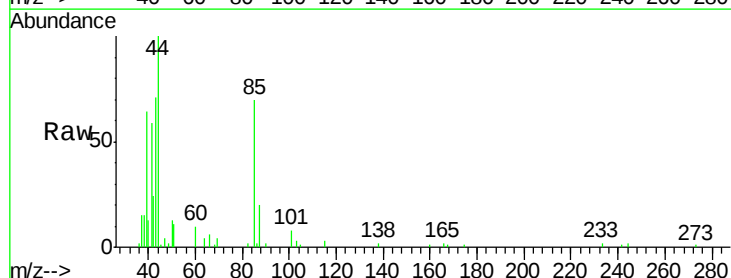
Acq: 5 Oct 2021 13:23

Tgt Ion: 85 Resp: 22837

Ion Ratio Lower Upper

85 100

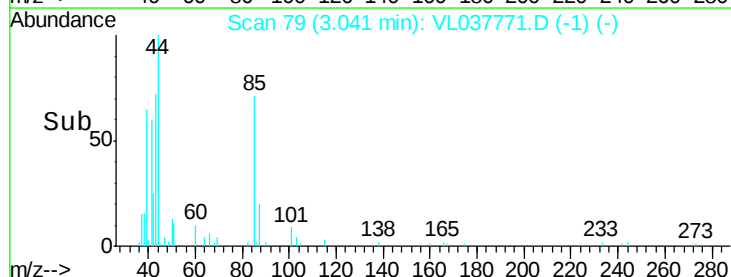
87 28.1 25.7 38.5



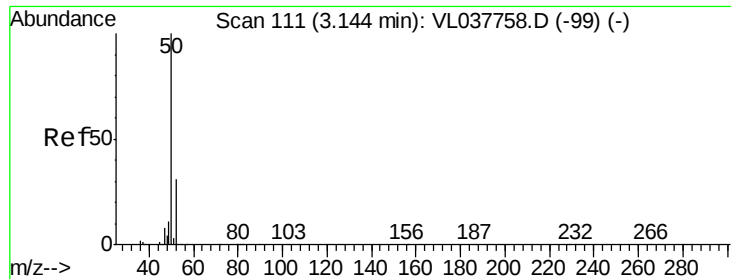
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



#4

Chloromethane

Concen: 0.176 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037771.D

Acq: 5 Oct 2021 13:23

Instrument :

MSVOA_L

ClientSampleId :

C0P22

Tgt Ion: 50 Resp: 17800

Ion Ratio Lower Upper

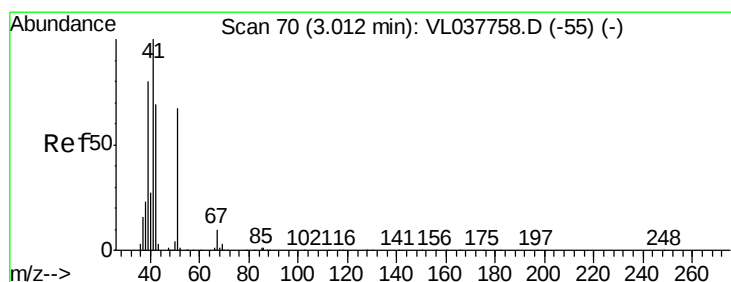
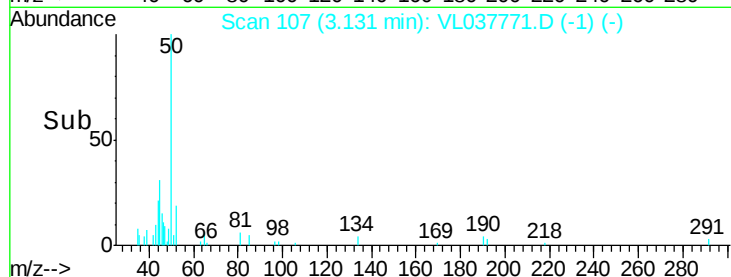
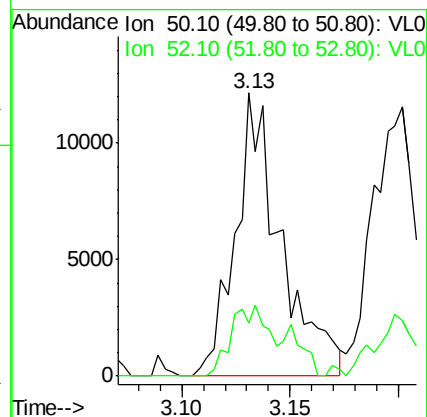
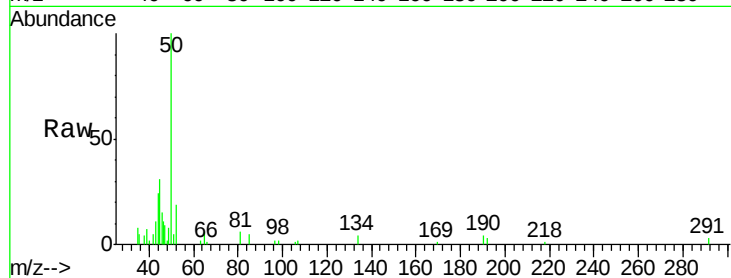
50 100

52 18.7 24.4 36.6#

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#9

Propene

Concen: 0.980 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL037771.D

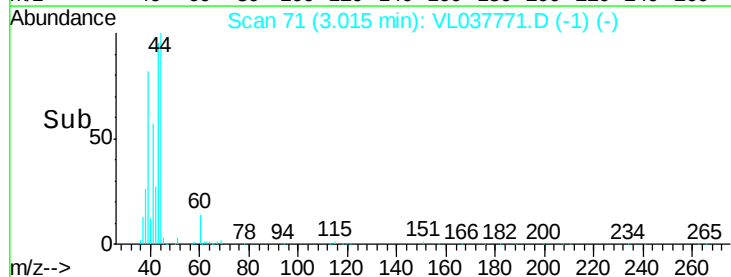
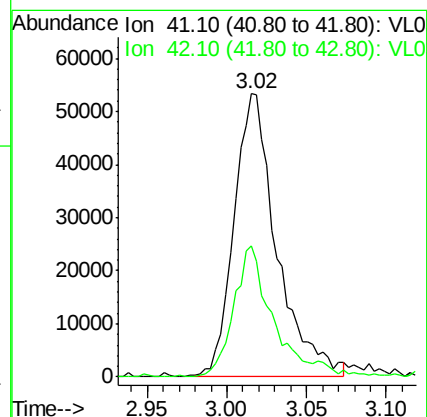
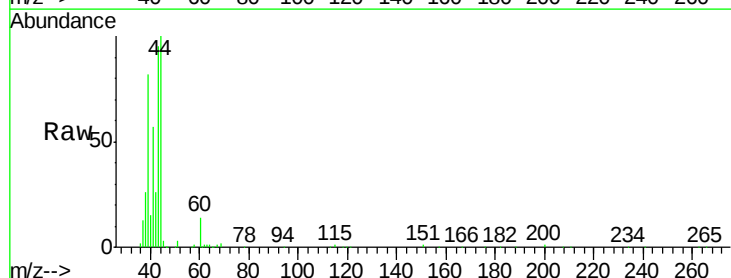
Acq: 5 Oct 2021 13:23

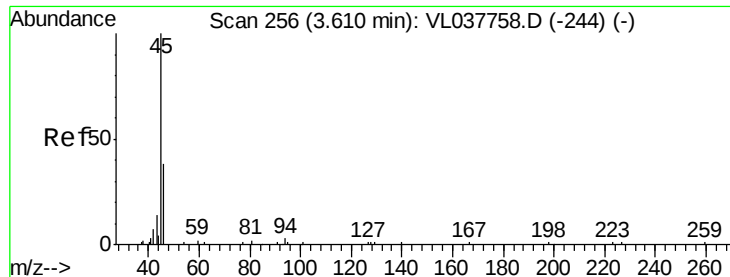
Tgt Ion: 41 Resp: 99674

Ion Ratio Lower Upper

41 100

42 30.9 54.2 81.2#





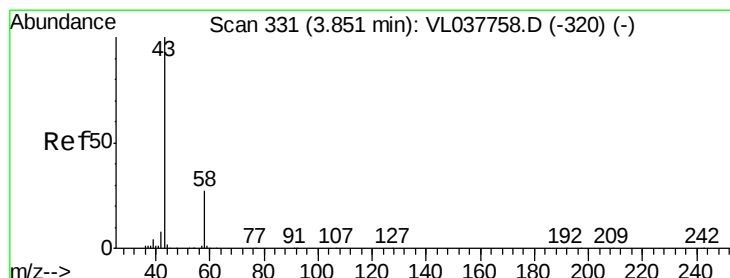
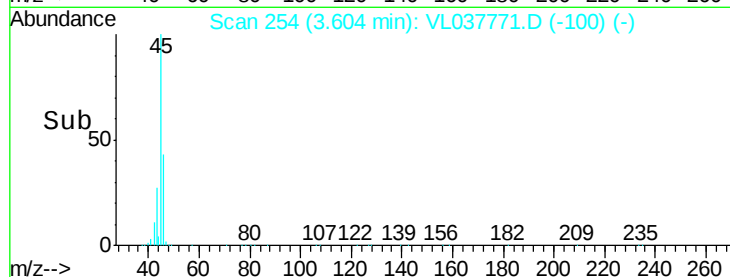
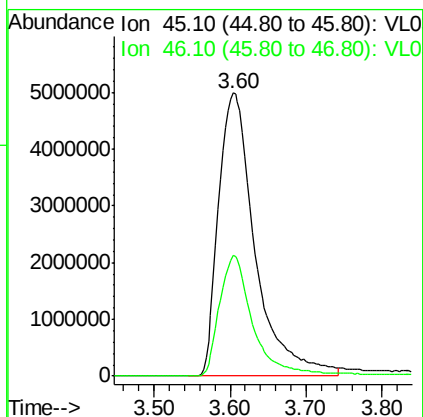
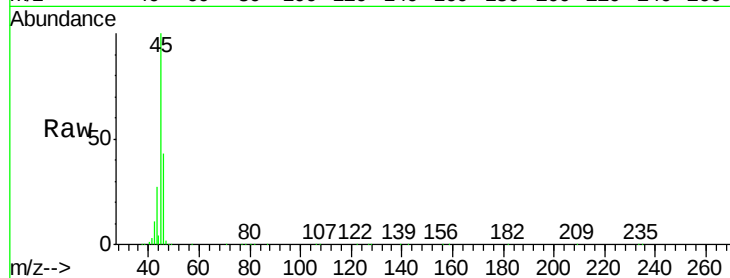
#13
Ethanol
Concen: 2016.688 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion: 45 Resp:16775598
Ion Ratio Lower Upper
45 100
46 39.6 20.2 81.0

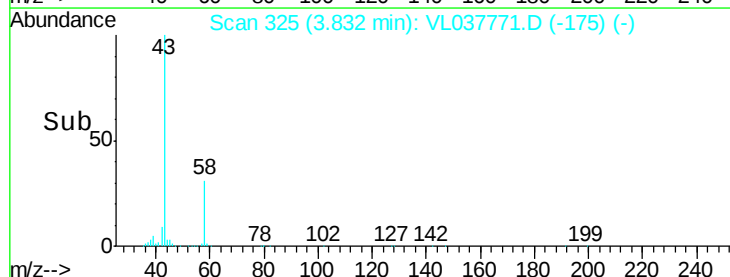
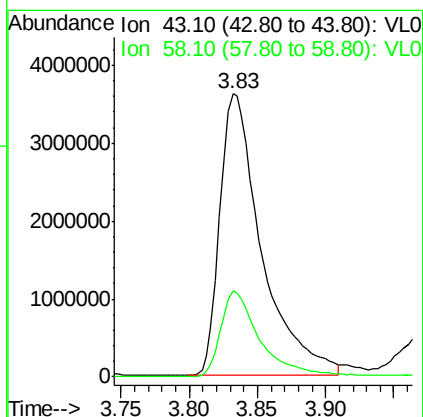
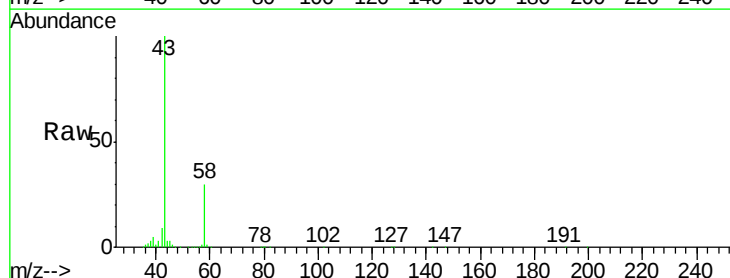
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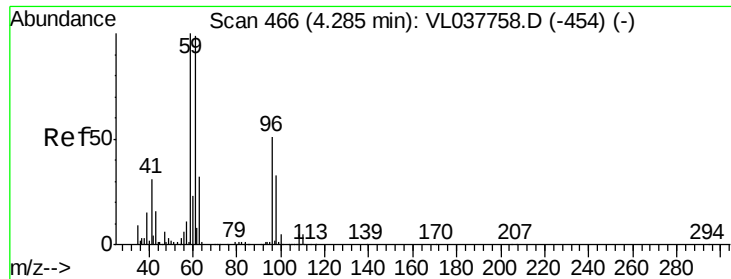
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#15
Acetone
Concen: 59.521 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 43 Resp: 7687489
Ion Ratio Lower Upper
43 100
58 29.3 23.0 34.6





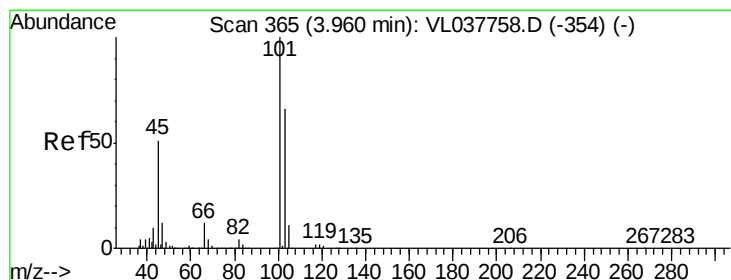
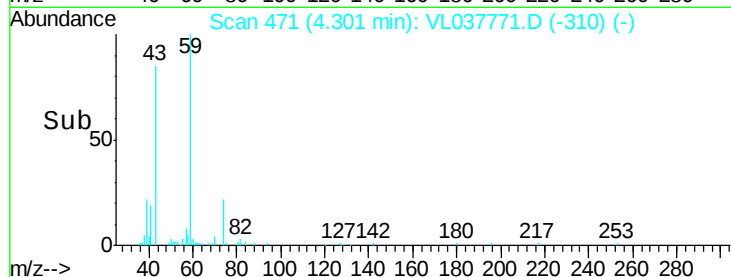
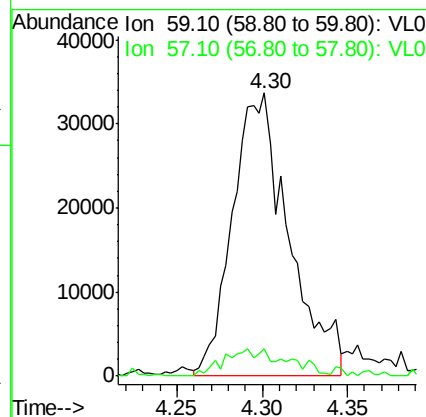
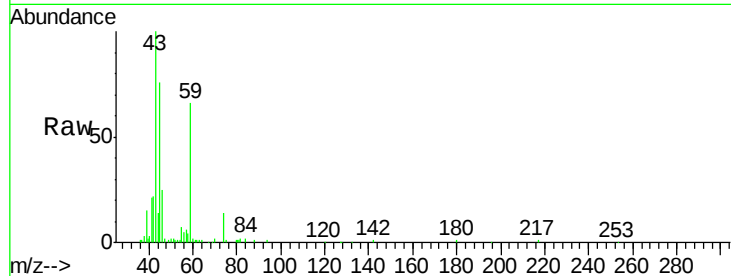
#17
tert-Butyl alcohol
Concen: 0.581 ppbv m
RT: 4.30 min Scan# 471
Delta R.T. 0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion: 59 Resp: 77280
Ion Ratio Lower Upper
59 100
57 10.5 8.6 13.0

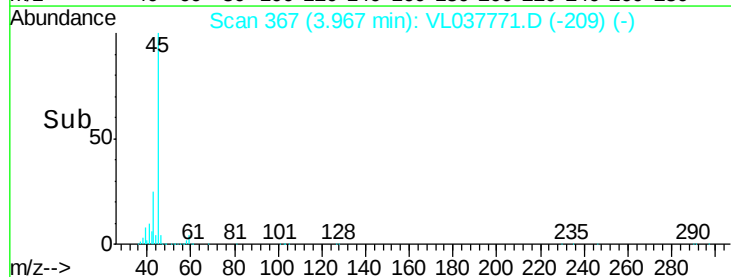
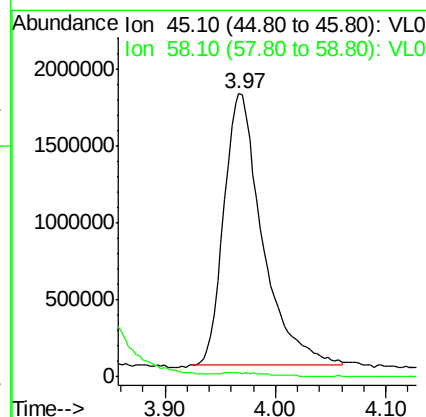
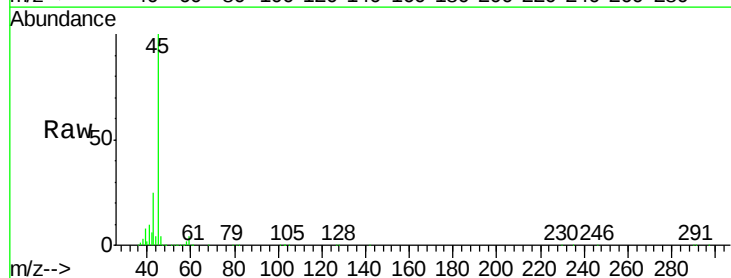
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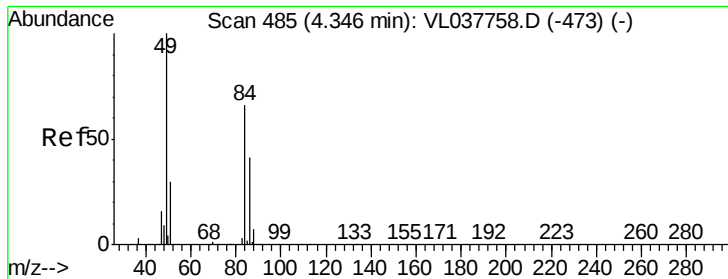
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#19
Isopropyl Alcohol
Concen: 53.265 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 45 Resp: 4279912
Ion Ratio Lower Upper
45 100
58 1.8 1.1 1.7#





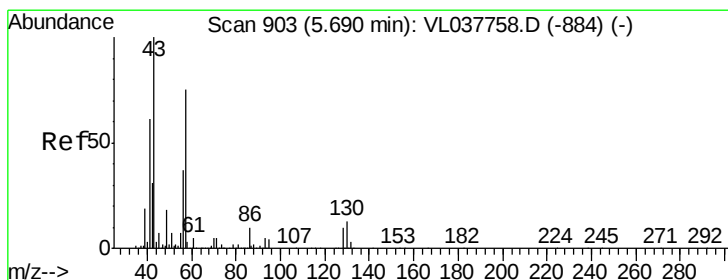
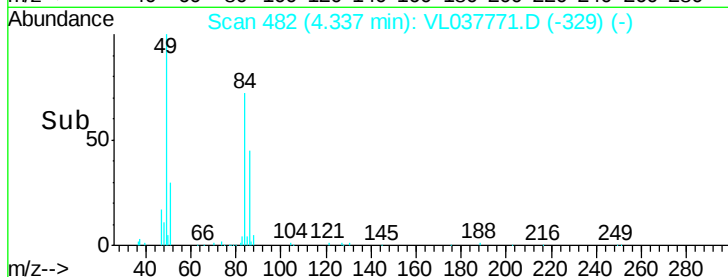
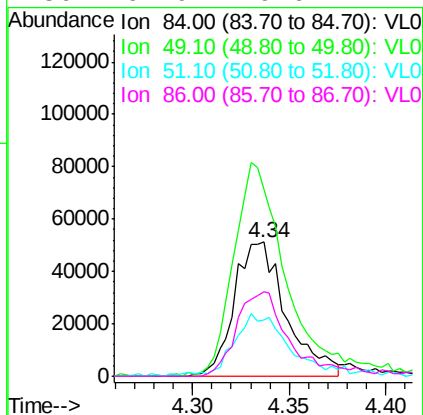
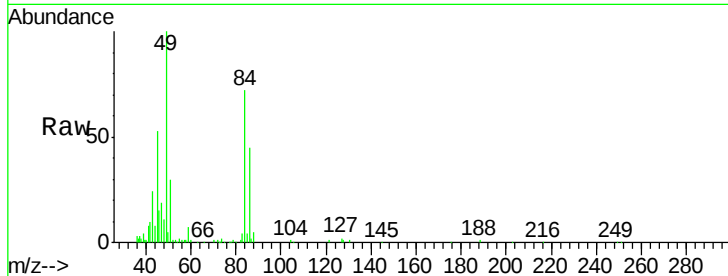
#20
Methylene Chloride
Concen: 1.463 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion	Ratio	Lower	Upper
84	100		
49	136.8	120.7	181.1
51	39.8	36.2	54.4
86	62.9	49.6	74.4

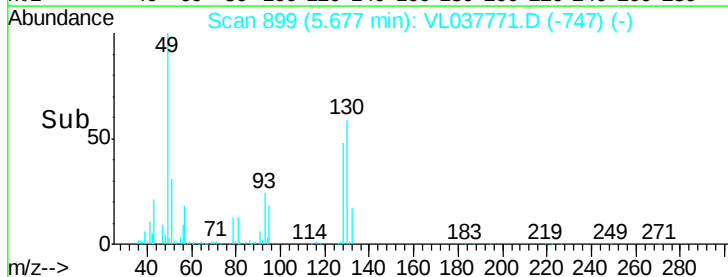
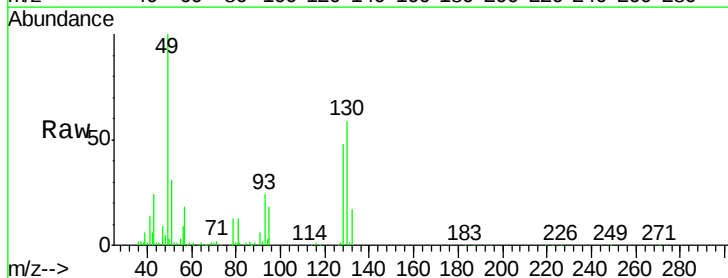
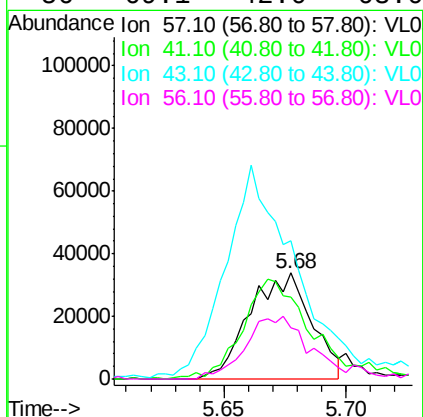
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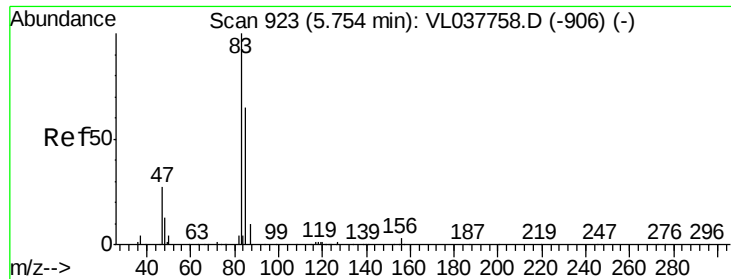
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#26
Hexane
Concen: 0.334 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	108.4	69.6	104.4#
43	241.4	171.4	257.0
56	69.1	42.0	63.0#





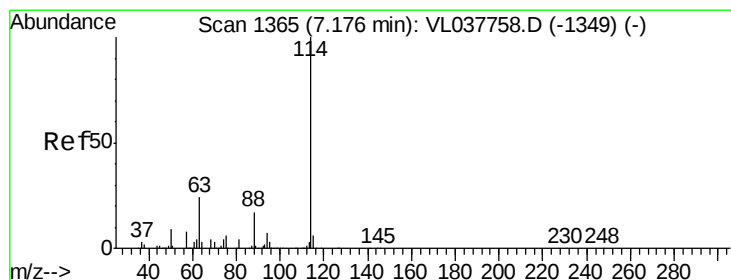
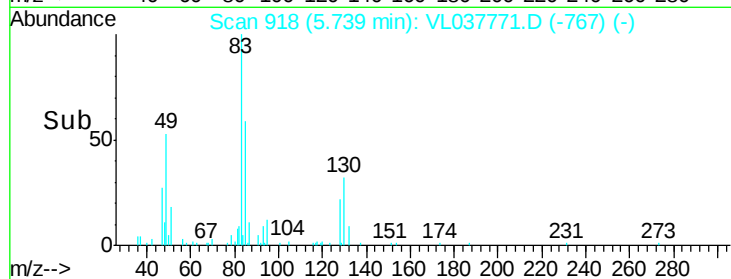
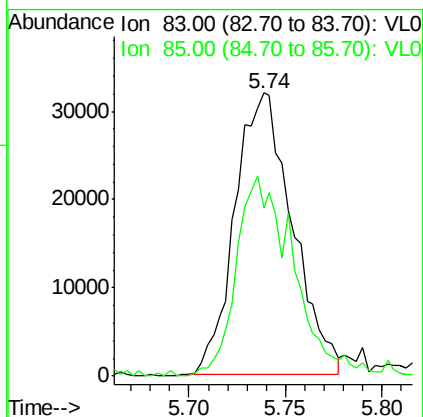
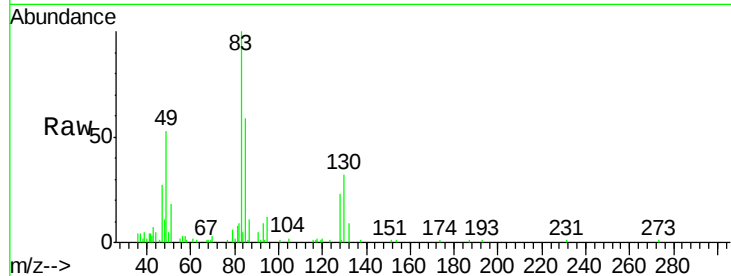
#29
Chloroform
Concen: 0.257 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampled :
C0P22

Tgt Ion: 83 Resp: 65525
Ion Ratio Lower Upper
83 100
85 59.7 51.8 77.8

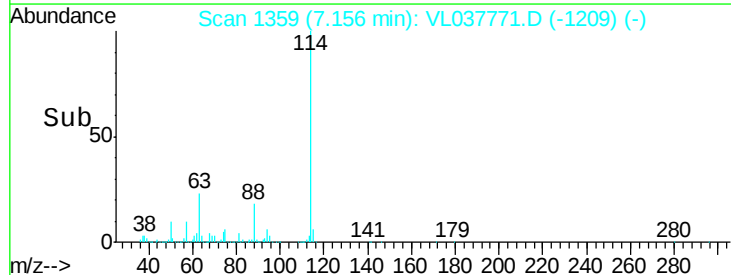
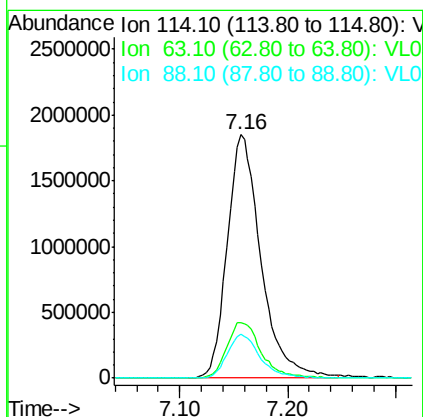
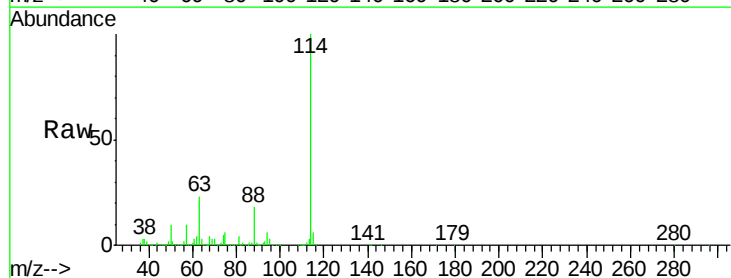
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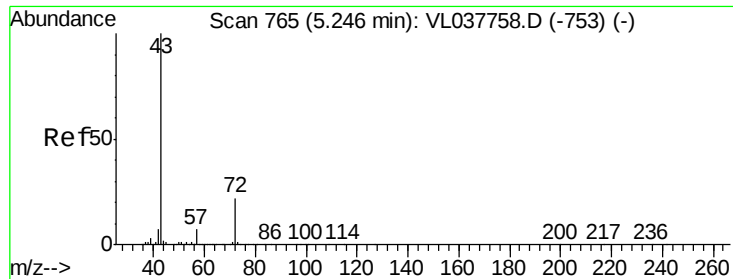
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 114 Resp: 4026943
Ion Ratio Lower Upper
114 100
63 23.6 19.4 29.2
88 17.9 14.4 21.6





#34

2-Butanone

Concen: 0.462 ppbv

RT: 5.23 min Scan# 761

Delta R.T. -0.01 min

Lab File: VL037771.D

Acq: 5 Oct 2021 13:23

Instrument :

MSVOA_L

ClientSampled :

C0P22

Tgt Ion: 43 Resp: 75149

Ion Ratio Lower Upper

43 100

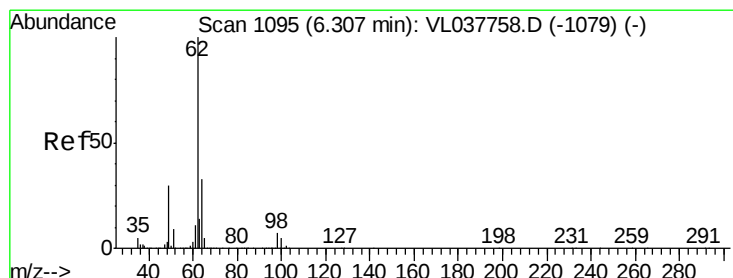
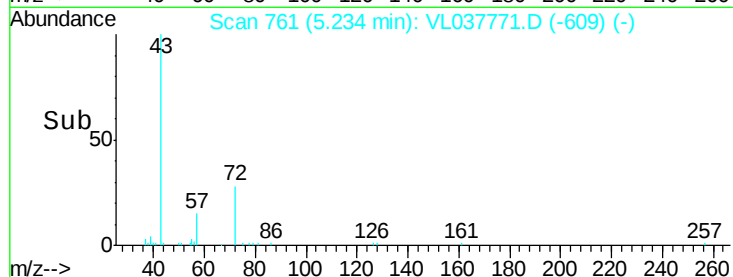
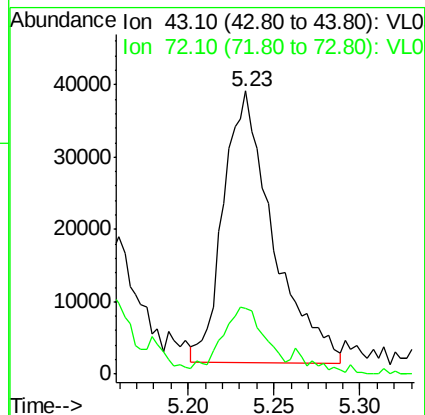
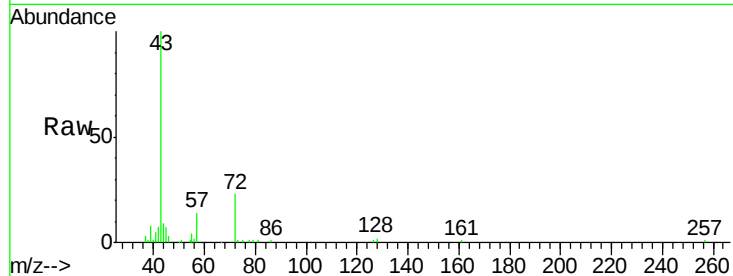
72 26.8 18.2 27.2

Manual Integrations

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#37

1,2-Dichloroethane

Concen: 0.275 ppbv

RT: 6.29 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VL037771.D

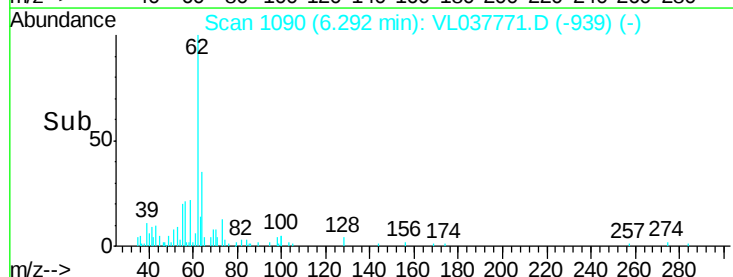
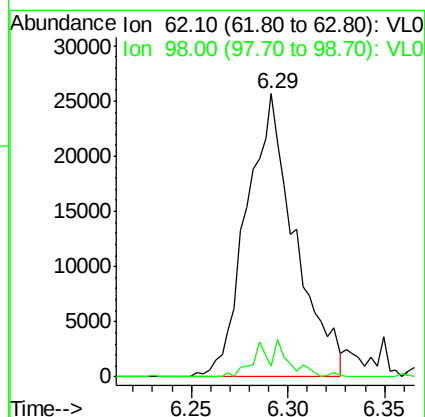
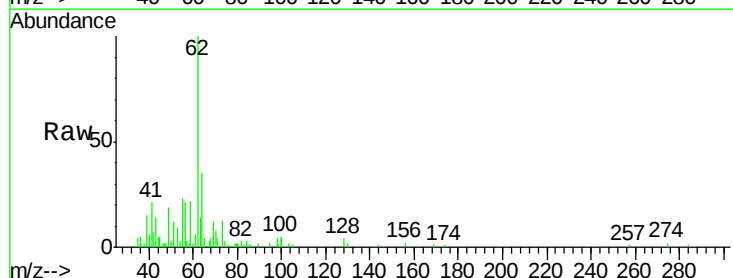
Acq: 5 Oct 2021 13:23

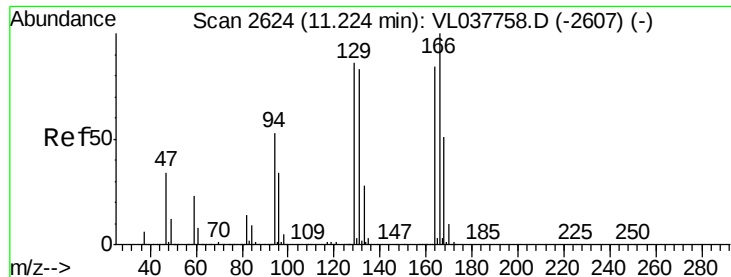
Tgt Ion: 62 Resp: 44593

Ion Ratio Lower Upper

62 100

98 8.3 6.1 9.1





#52

Tetrachloroethene

Concen: 0.065 ppbv m

RT: 11.20 min Scan# 2618

Delta R.T. -0.02 min

Lab File: VL037771.D

Acq: 5 Oct 2021 13:23

Instrument :

MSVOA_L

ClientSampleId :

C0P22

Tgt Ion: 164 Resp: 8706
Ion Ratio Lower Upper

164 100

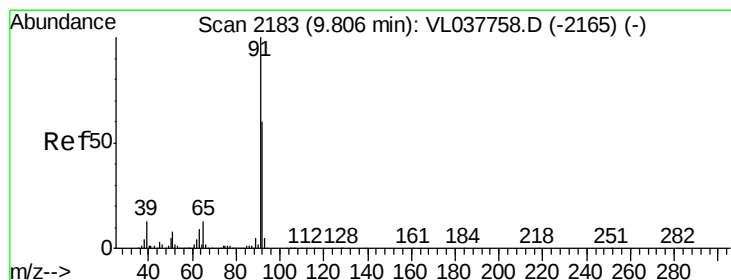
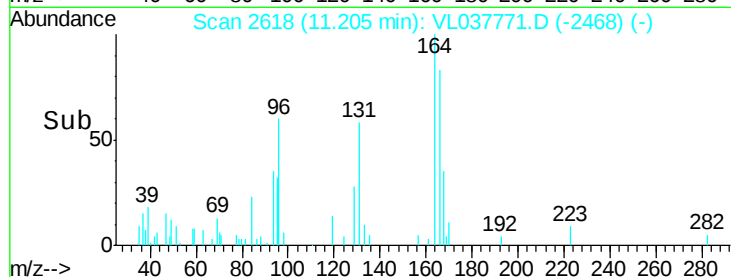
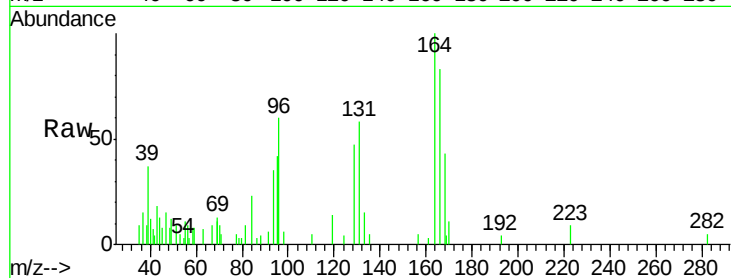
166 82.5 95.4 143.2#

129 47.4 82.2 123.4#

131 58.0 79.4 119.2#

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#53

Toluene

Concen: 0.843 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.02 min

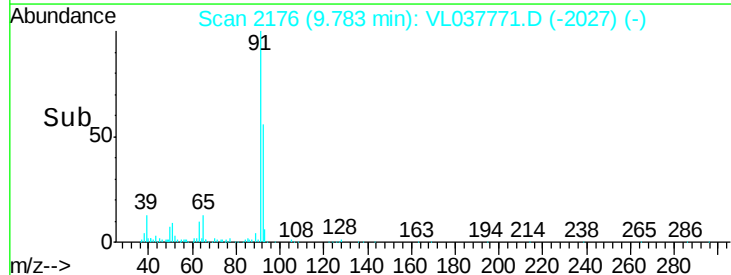
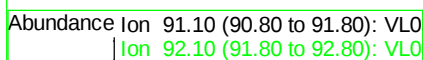
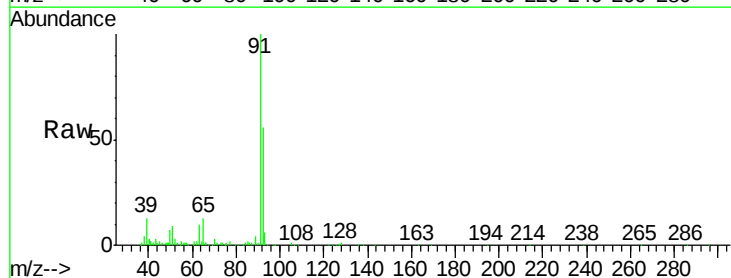
Lab File: VL037771.D

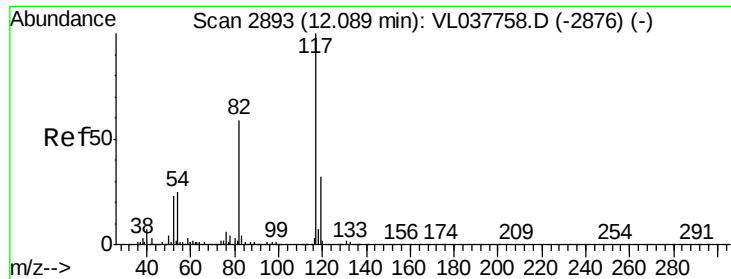
Acq: 5 Oct 2021 13:23

Tgt Ion: 91 Resp: 321422
Ion Ratio Lower Upper

91 100

92 60.6 48.4 72.6





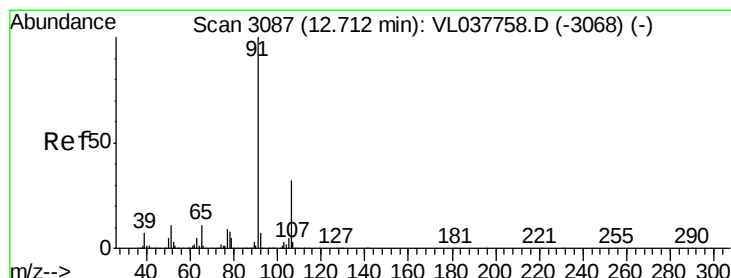
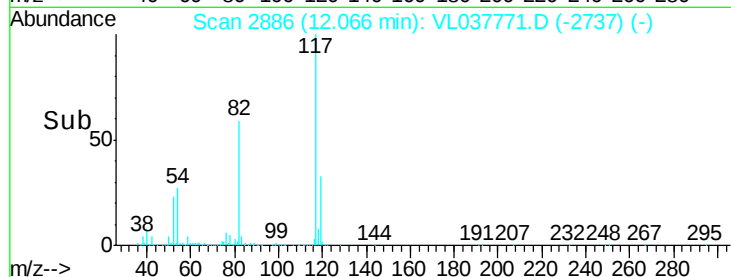
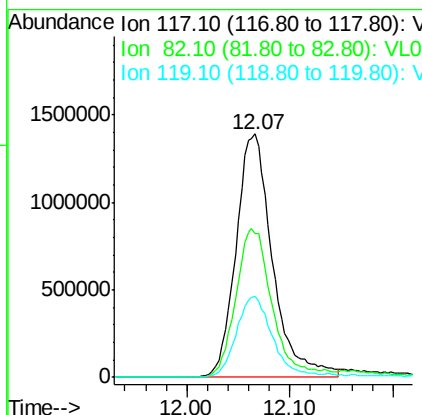
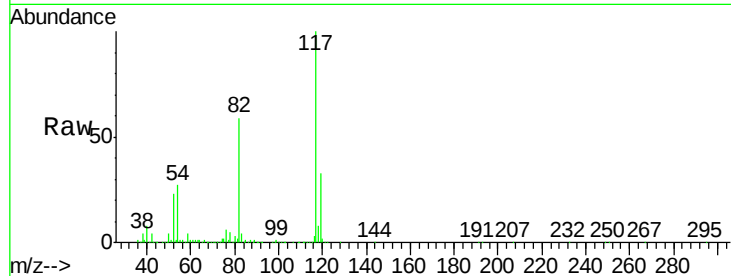
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampled :
C0P22

Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.3	52.2	78.2
119	34.8	26.0	39.0

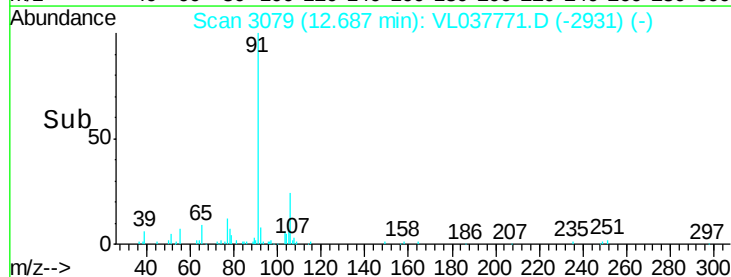
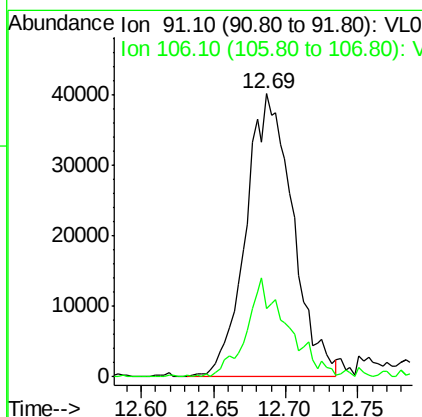
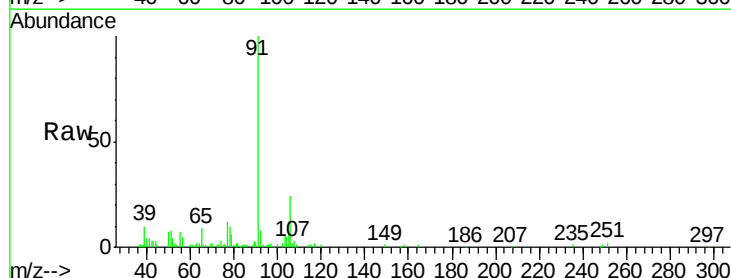
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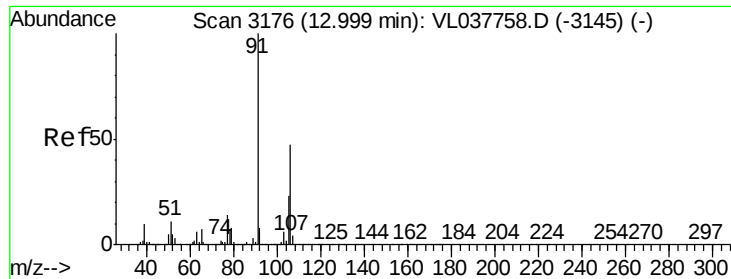
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#58
Ethyl Benzene
Concen: 0.197 ppbv m
RT: 12.69 min Scan# 3079
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion	Ratio	Lower	Upper
91	100		
106	24.0	25.3	37.9#





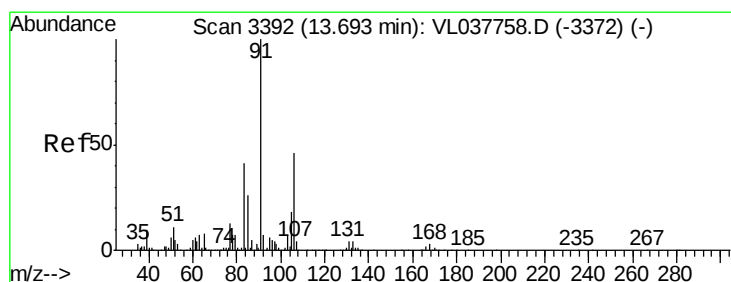
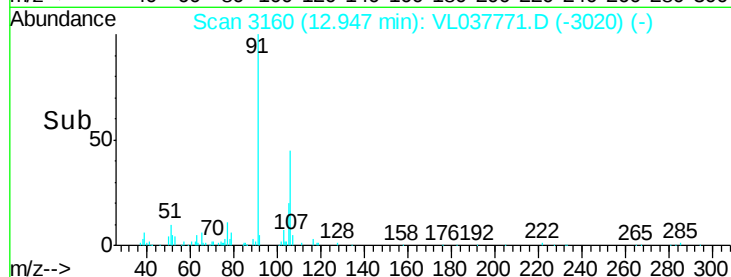
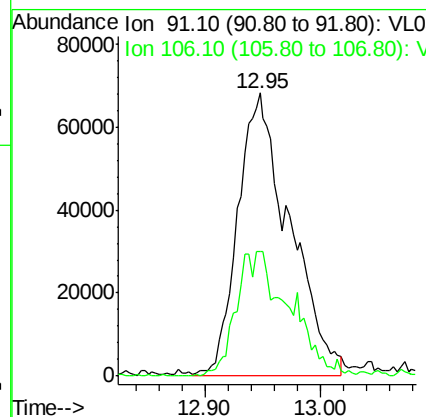
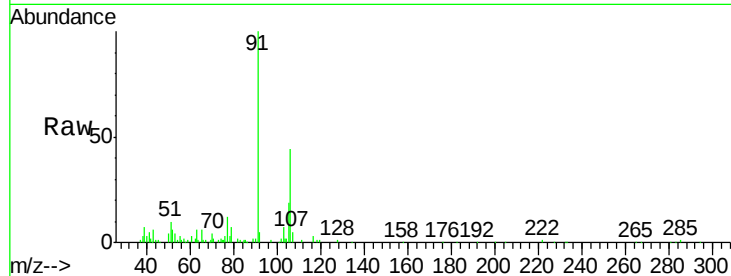
#59
m/p-Xylene
Concen: 0.537 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.05 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampled :
C0P22

Tgt Ion: 91 Resp: 212213
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#

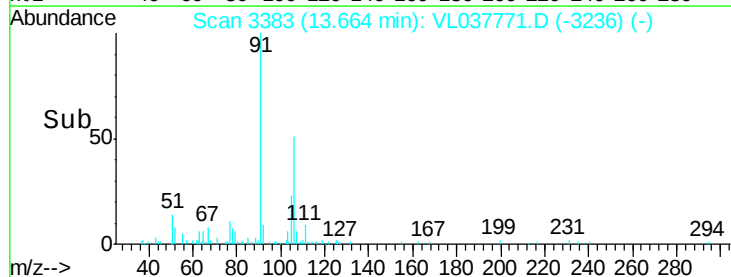
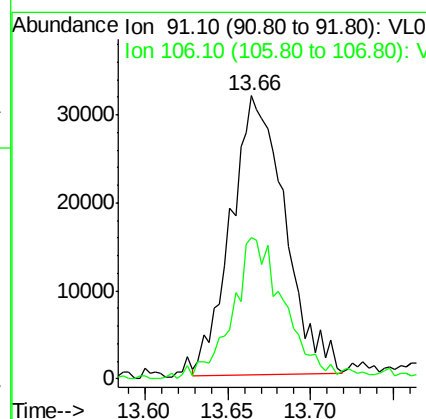
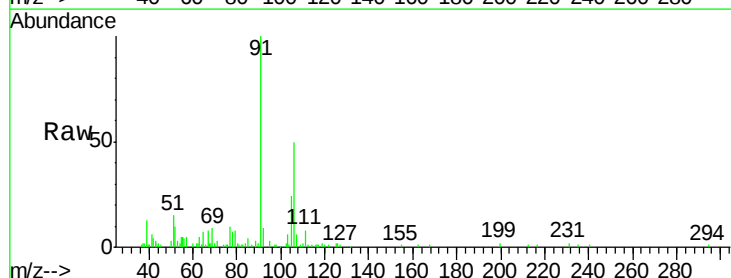
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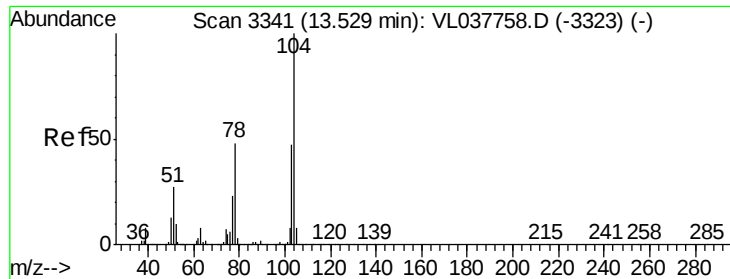
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#60
o-Xylene
Concen: 0.191 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 91 Resp: 72269
Ion Ratio Lower Upper
91 100
106 49.9 23.5 70.5





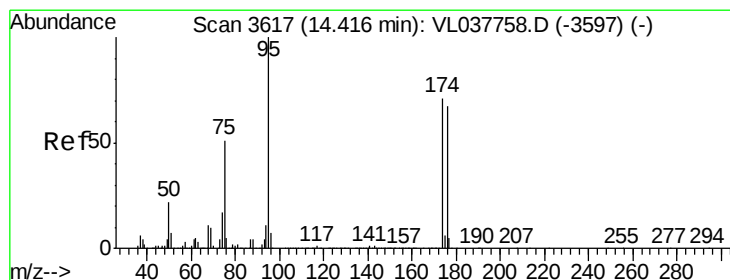
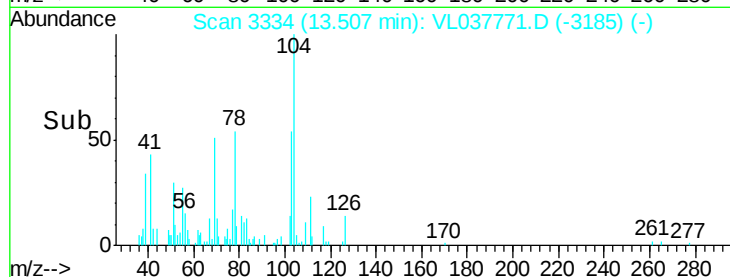
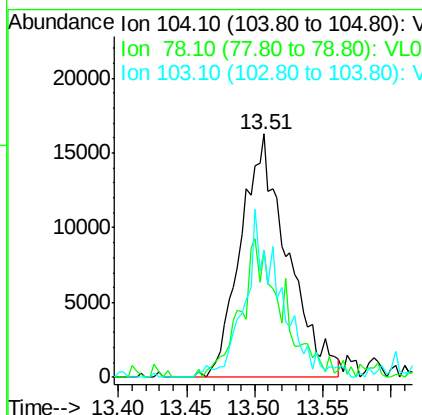
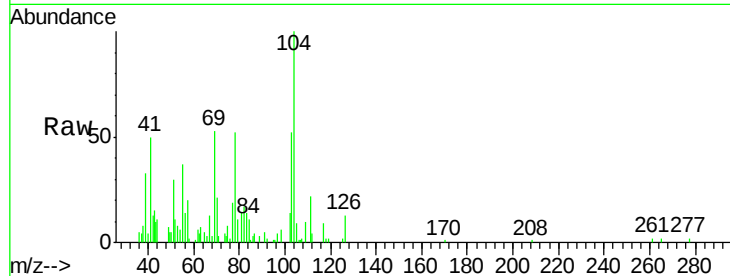
#61
Styrene
Concen: 0.213 ppbv m
RT: 13.51 min Scan# 3334
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.1	40.6	61.0
103	52.3	39.6	59.4

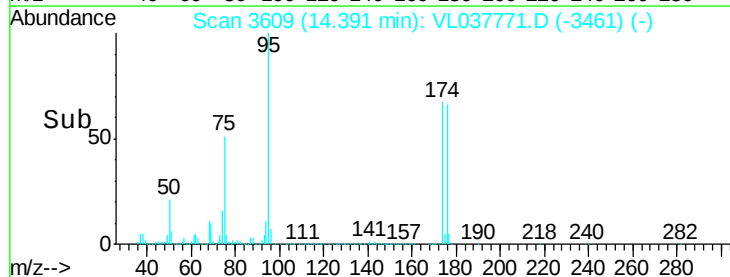
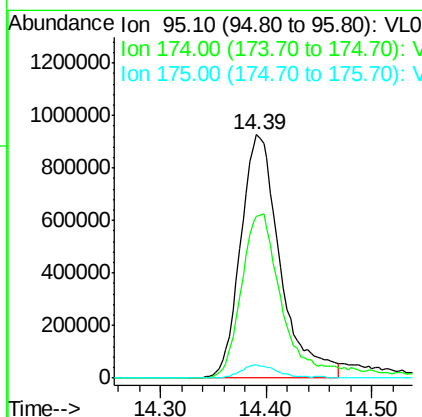
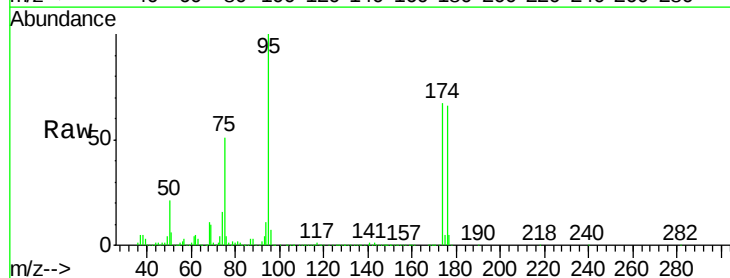
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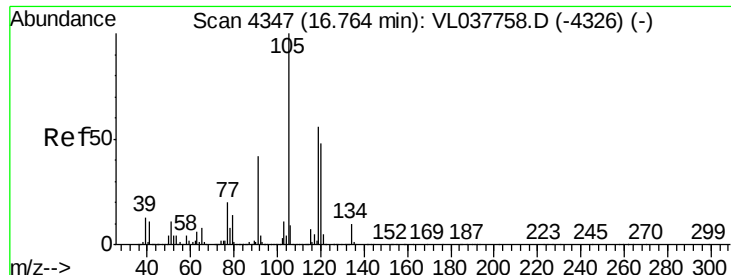
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.104 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

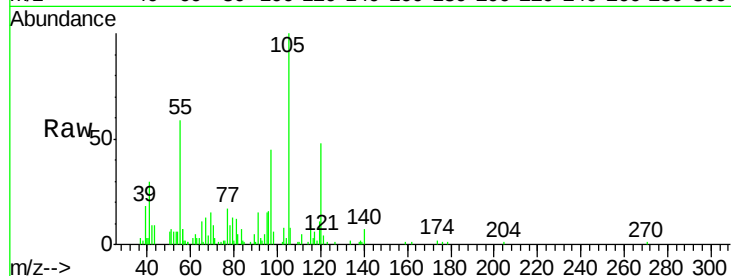
Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.7	57.8	86.6
175	5.4	4.7	7.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.153 ppbv m
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.03 min
 Lab File: VL037771.D
 Acq: 5 Oct 2021 13:23

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P22



Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	48.2	38.4	57.6
91	15.0	34.2	51.2
77	17.1	15.8	23.8

Manual Integrations
 APPROVED

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