

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037784.D
 Acq On : 5 Oct 2021 21:54
 Operator : SY/AP
 Sample : M4012-12 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P15

Manual Integrations
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 10/11/2021 7:36:31 PM

Quant Time: Oct 06 06:19:43 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	1283270	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3752218	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3307746	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2393830	10.35	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.00	41	16807m	0.185	ppbv	
13) Ethanol	3.59	45	99586m	13.422	ppbv	
15) Acetone	3.83	43	690824	5.997	ppbv #	87
19) Isopropyl Alcohol	3.95	45	721084	10.061	ppbv #	95
20) Methylene Chloride	4.33	84	128625	2.210	ppbv	96
26) Hexane	5.66	57	78040	0.490	ppbv #	52
29) Chloroform	5.73	83	79484	0.349	ppbv	98
34) 2-Butanone	5.23	43	136014m	0.898	ppbv	
38) Trichloroethene	7.81	130	14793m	0.117	ppbv	
50) 4-Methyl-2-Pentanone	8.73	43	92042m	0.467	ppbv	
51) 2-Hexanone	10.12	43	67520m	0.767	ppbv	
52) Tetrachloroethene	11.20	164	3828741	30.706	ppbv	96
53) Toluene	9.77	91	35560m	0.100	ppbv	
75) 1,3-Dichlorobenzene	16.96	146	75175m	0.307	ppbv	

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

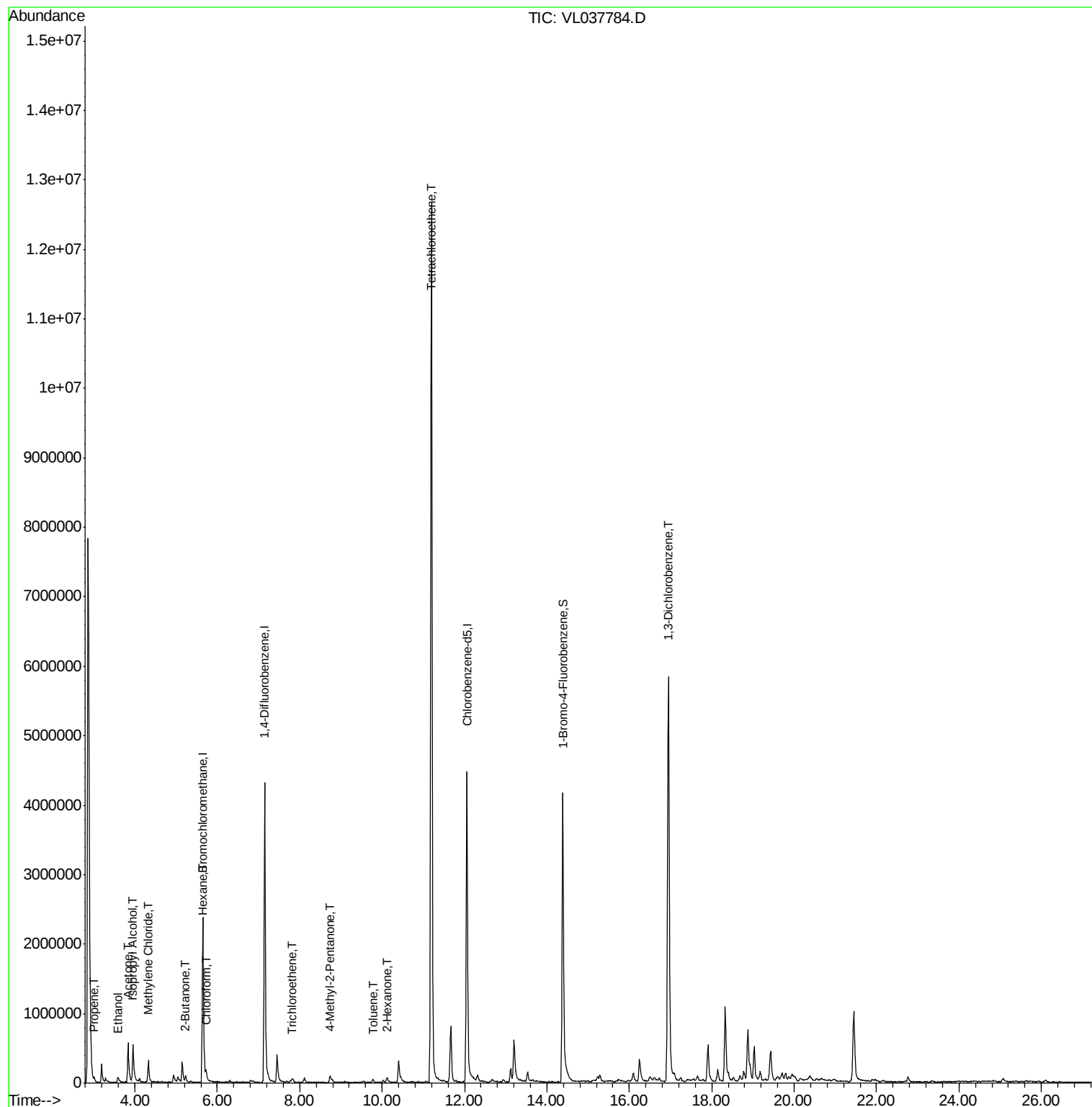
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037784.D
Acq On : 5 Oct 2021 21:54
Operator : SY/AP
Sample : M4012-12 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

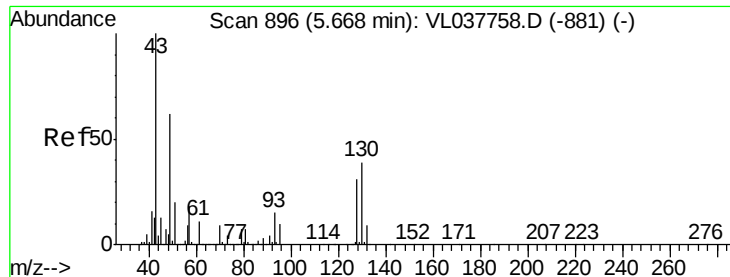
Instrument :
MSVOA_L
ClientSampleId :
C0P15

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Quant Time: Oct 06 06:19:43 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: VL037784.D

Acq: 5 Oct 2021 21:54

Instrument :

MSVOA_L

ClientSampled :

C0P15

Tgt Ion: 49 Resp: 1283270

Ion Ratio Lower Upper

49 100

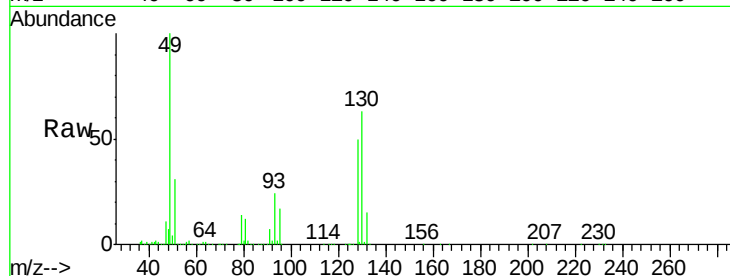
128 52.7 27.1 81.3

130 67.5 33.2 99.6

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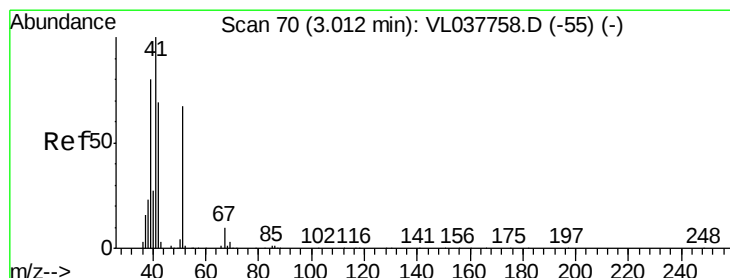
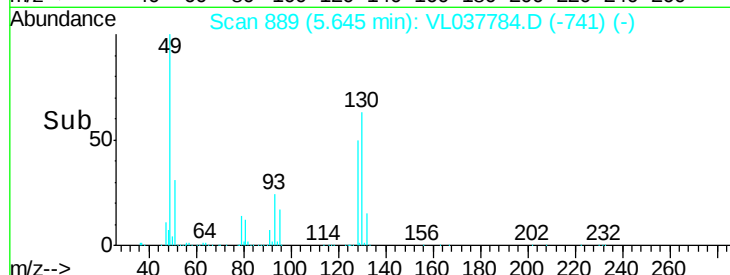
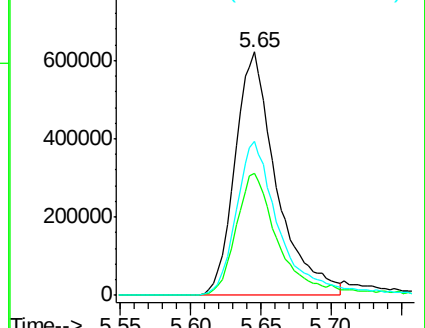
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 0.185 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL037784.D

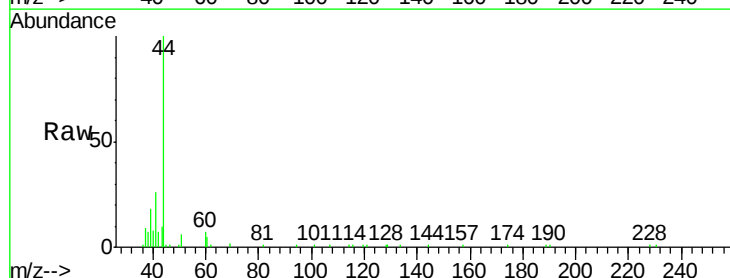
Acq: 5 Oct 2021 21:54

Tgt Ion: 41 Resp: 16807

Ion Ratio Lower Upper

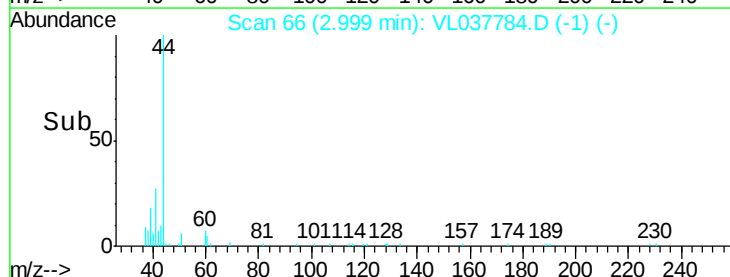
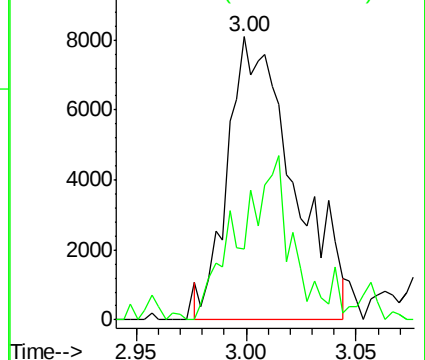
41 100

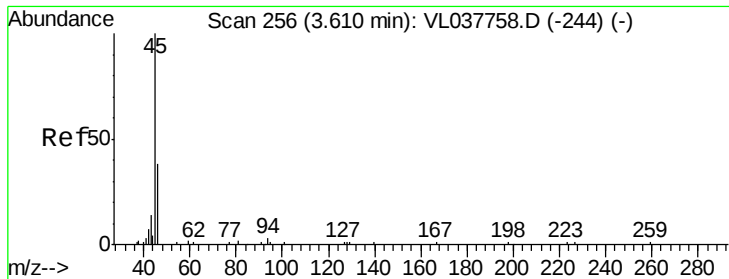
42 0.0 54.2 81.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





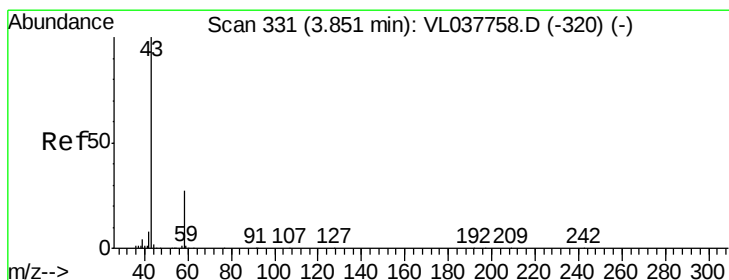
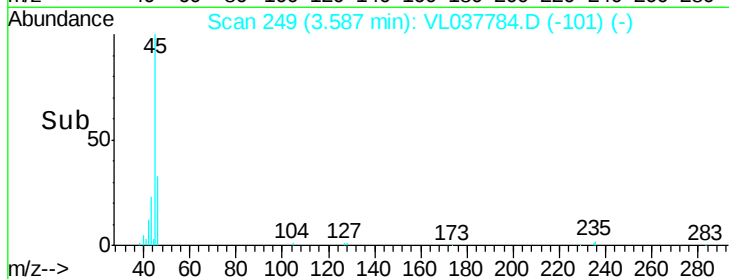
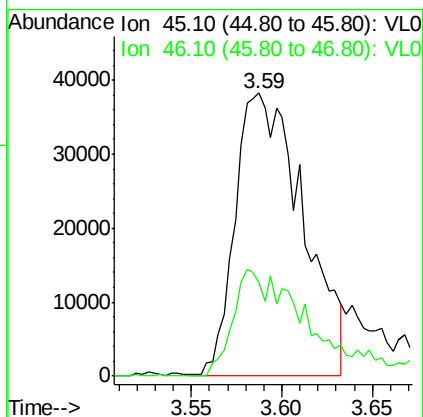
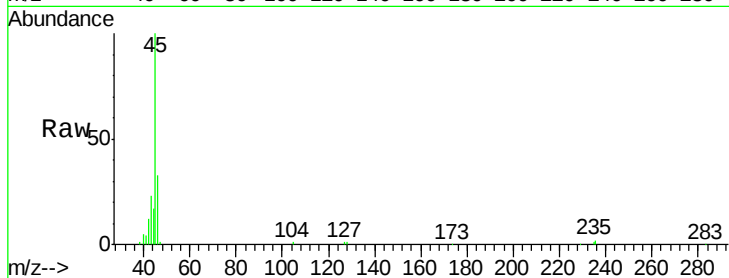
#13
Ethanol
Concen: 13.422 ppbv m
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL037784.D
Acq: 5 Oct 2021 21:54

Instrument :
MSVOA_L
ClientSampled :
C0P15

Tgt Ion: 45 Resp: 99586
Ion Ratio Lower Upper
45 100
46 0.0 20.2 81.0#

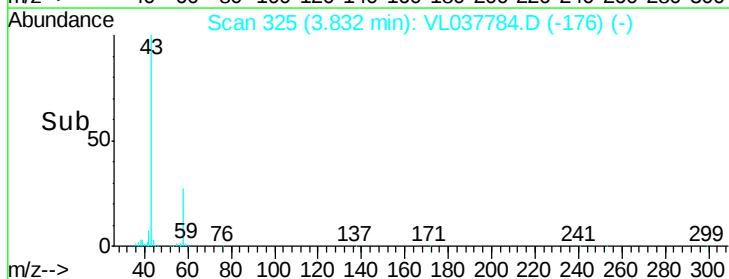
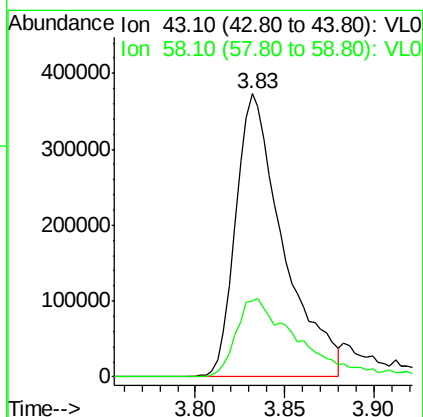
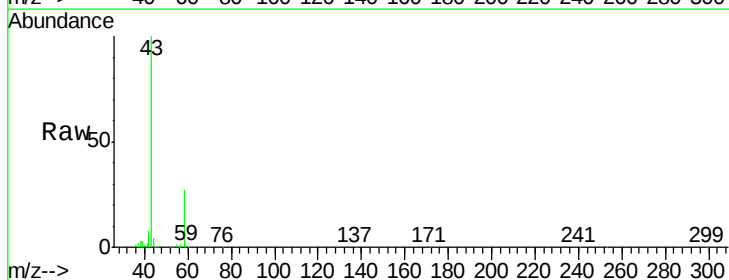
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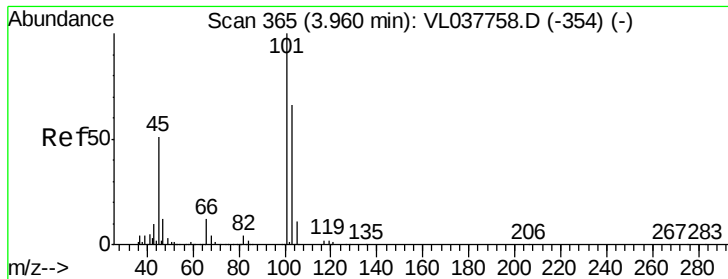
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#15
Acetone
Concen: 5.997 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL037784.D
Acq: 5 Oct 2021 21:54

Tgt Ion: 43 Resp: 690824
Ion Ratio Lower Upper
43 100
58 36.0 23.0 34.6#





#19

Isopropyl Alcohol

Concen: 10.061 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL037784.D

Acq: 5 Oct 2021 21:54

Instrument :

MSVOA_L

ClientSampleId :

C0P15

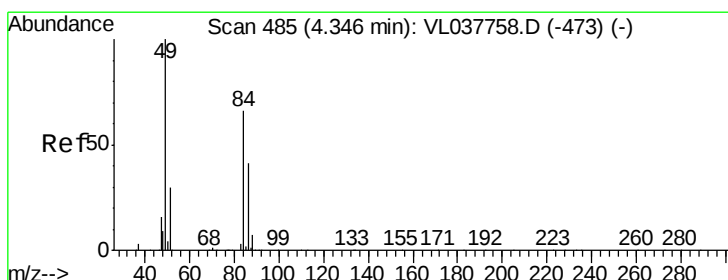
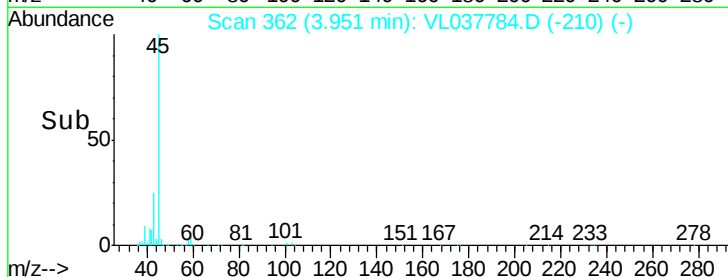
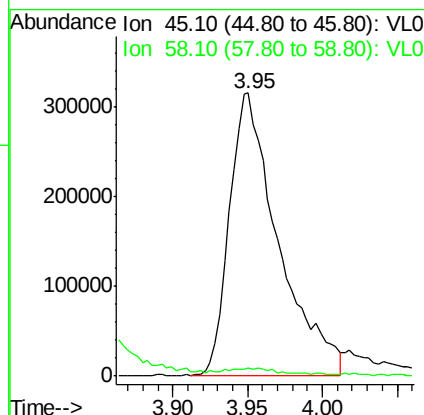
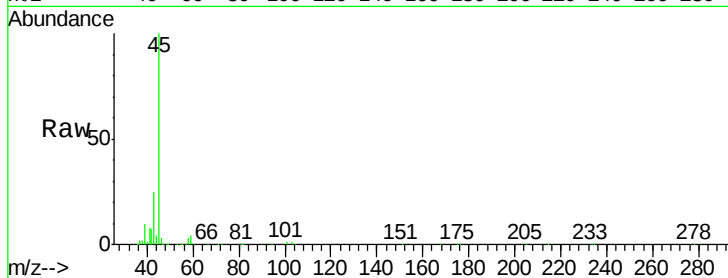
Tgt Ion: 45 Resp: 721084
Ion Ratio Lower Upper

45 100

58 3.2 1.1 1.7#

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#20

Methylene Chloride

Concen: 2.210 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL037784.D

Acq: 5 Oct 2021 21:54

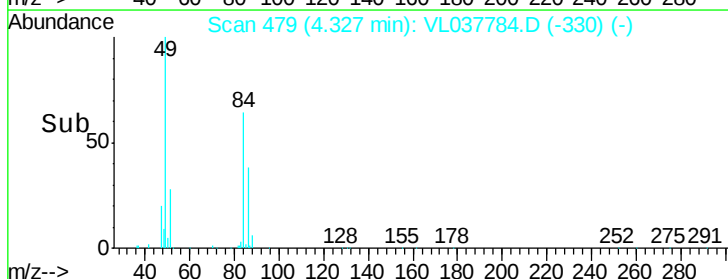
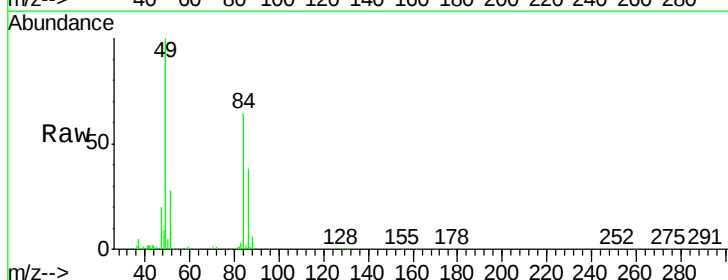
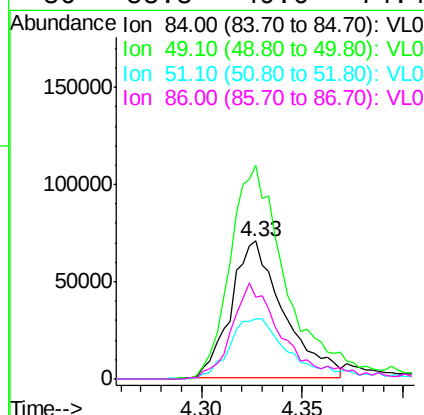
Tgt Ion: 84 Resp: 128625
Ion Ratio Lower Upper

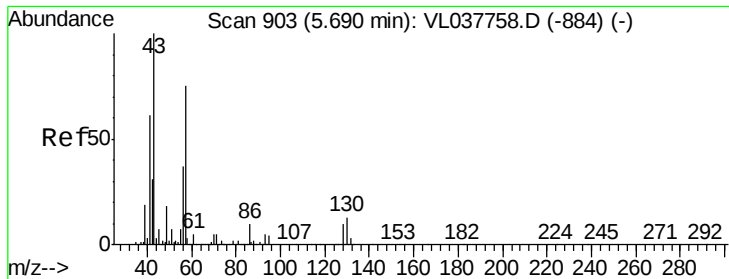
84 100

49 156.0 120.7 181.1

51 43.3 36.2 54.4

86 58.8 49.6 74.4





#26

Hexane

Concen: 0.490 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.03 min

Lab File: VL037784.D

Acq: 5 Oct 2021 21:54

Instrument :

MSVOA_L

ClientSampleId :

C0P15

Tgt Ion: 57 Resp: 78040
Ion Ratio Lower Upper

57 100

41 109.7 69.6 104.4#

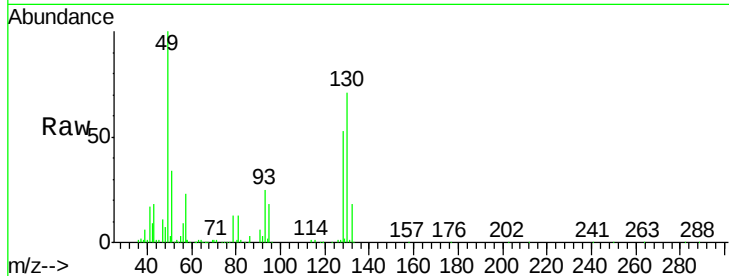
43 109.1 171.4 257.0#

56 61.9 42.0 63.0

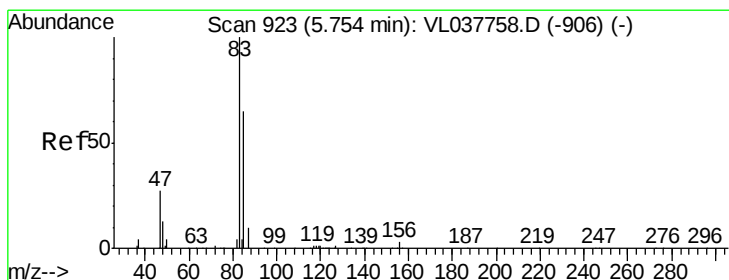
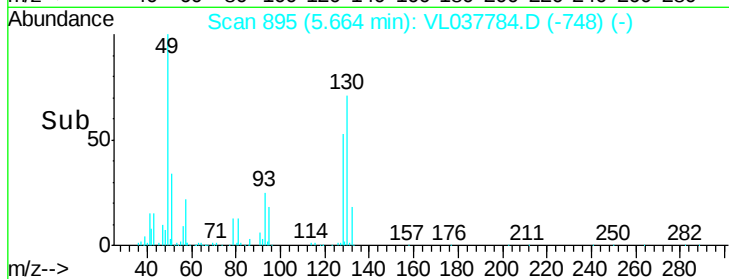
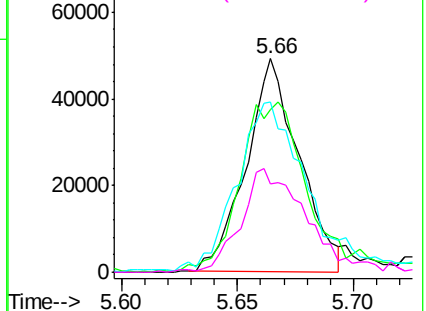
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Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.349 ppbv

RT: 5.73 min Scan# 914

Delta R.T. -0.03 min

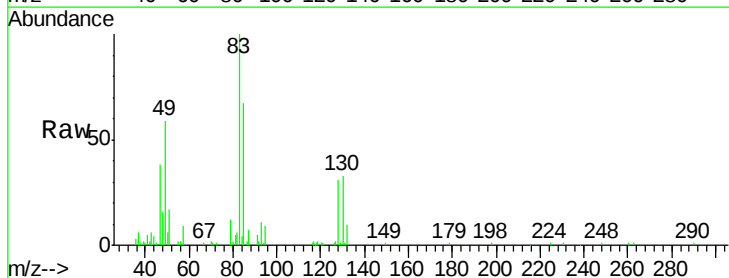
Lab File: VL037784.D

Acq: 5 Oct 2021 21:54

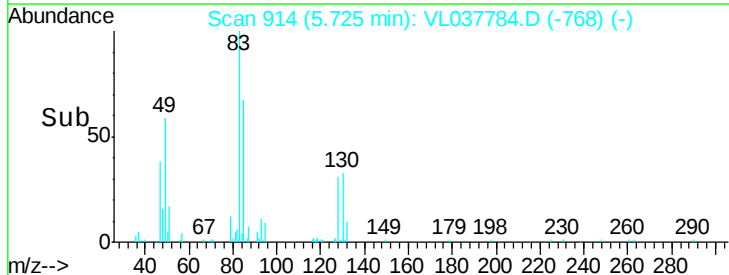
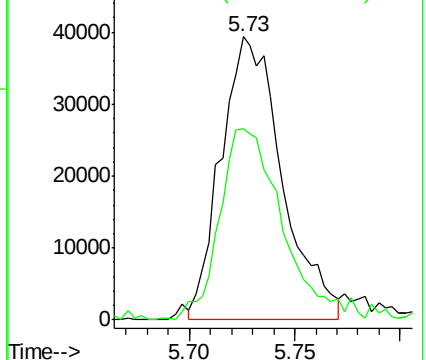
Tgt Ion: 83 Resp: 79484
Ion Ratio Lower Upper

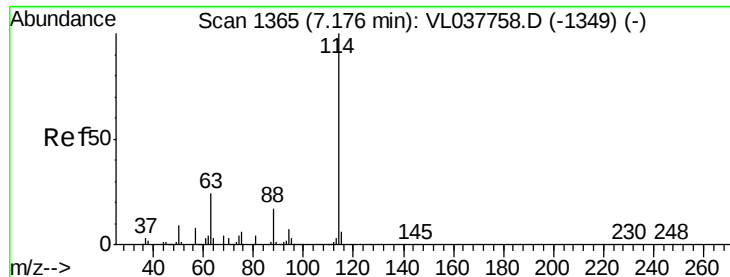
83 100

85 63.0 51.8 77.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





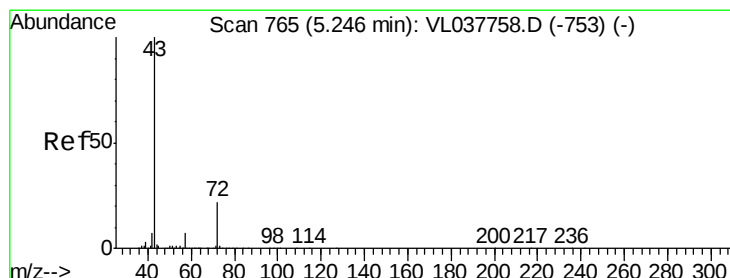
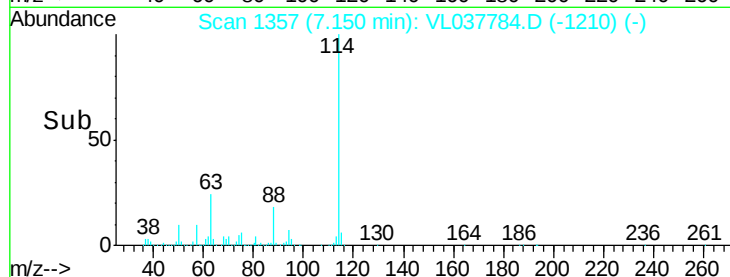
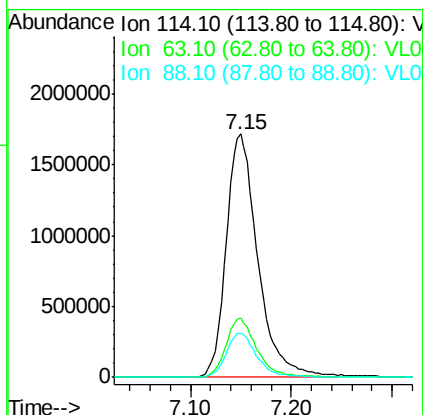
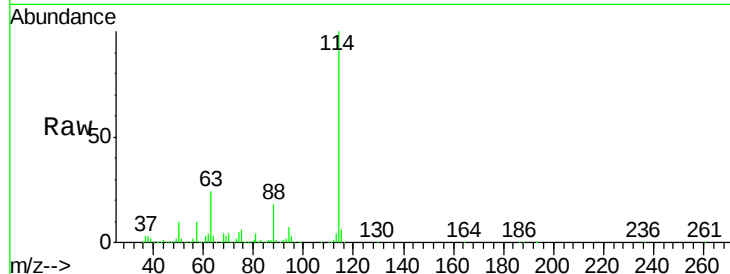
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL037784.D
 Acq: 5 Oct 2021 21:54

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P15

Tgt Ion: 114 Resp: 3752218
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.4 29.2
 88 17.7 14.4 21.6

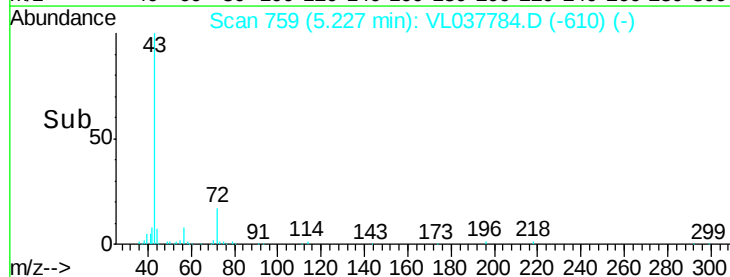
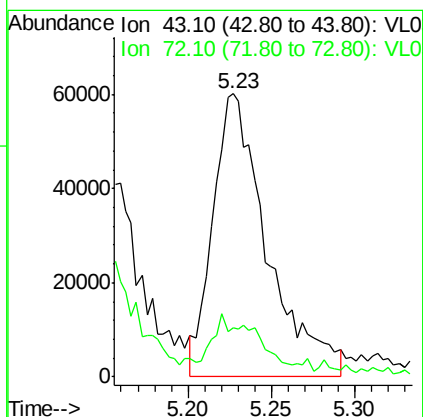
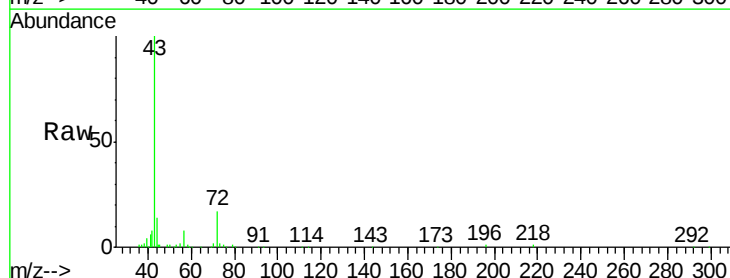
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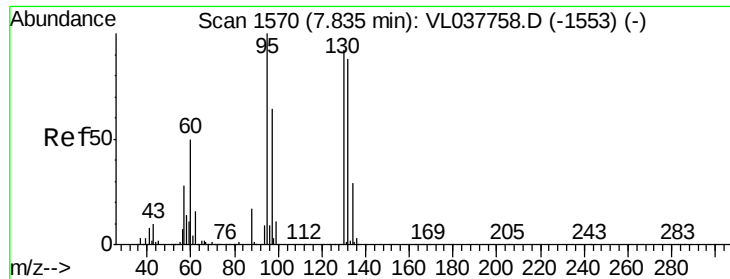
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#34
 2-Butanone
 Concen: 0.898 ppbv m
 RT: 5.23 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: VL037784.D
 Acq: 5 Oct 2021 21:54

Tgt Ion: 43 Resp: 136014
 Ion Ratio Lower Upper
 43 100
 72 25.4 18.2 27.2





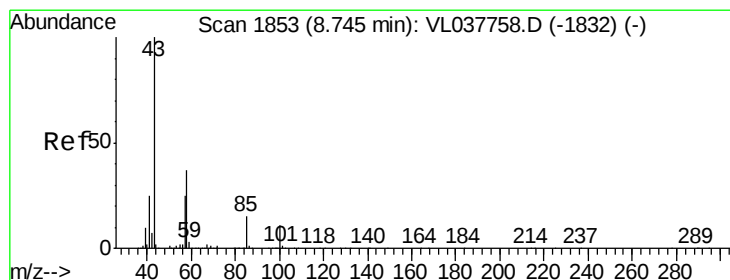
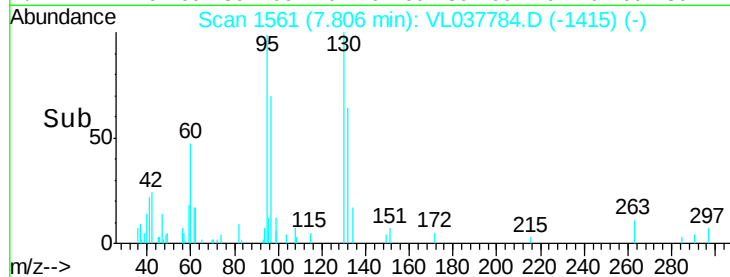
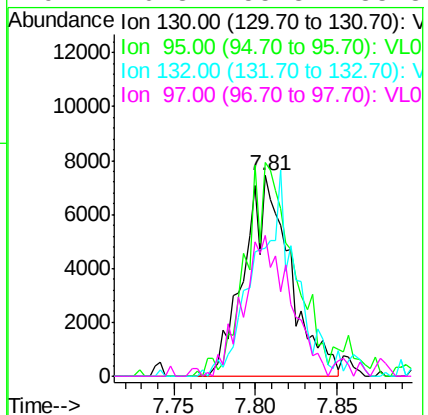
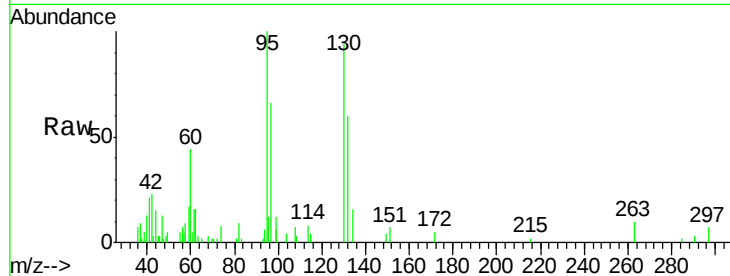
#38
 Trichloroethene
 Concen: 0.117 ppbv m
 RT: 7.81 min Scan# 1561
 Delta R.T. -0.03 min
 Lab File: VL037784.D
 Acq: 5 Oct 2021 21:54

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P15

Tgt Ion	Ratio	Lower	Upper
130	100		
95	106.3	87.4	131.0
132	63.8	76.8	115.2#
97	70.3	55.8	83.8

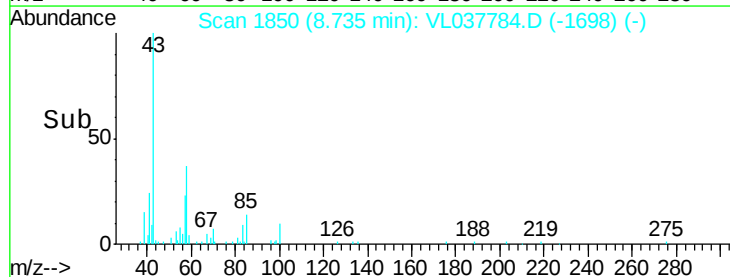
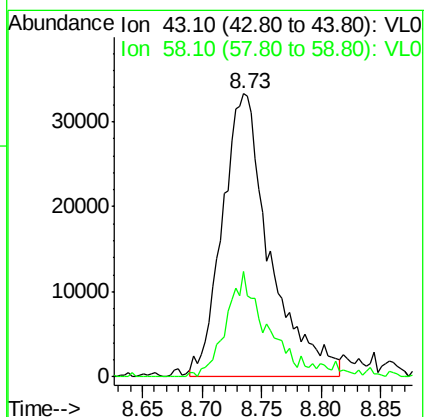
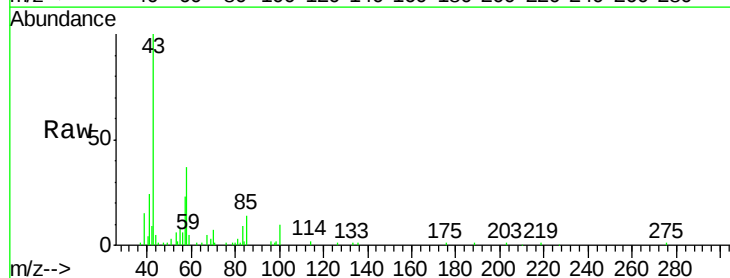
Manual Integrations
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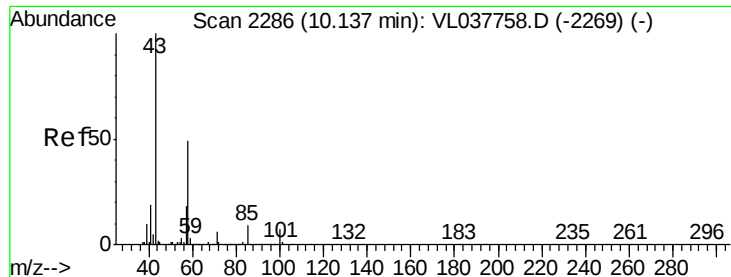
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#50
 4-Methyl-2-Pentanone
 Concen: 0.467 ppbv m
 RT: 8.73 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: VL037784.D
 Acq: 5 Oct 2021 21:54

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





#51

2-Hexanone

Concen: 0.767 ppbv m

RT: 10.12 min Scan# 2280

Delta R.T. -0.02 min

Lab File: VL037784.D

Acq: 5 Oct 2021 21:54

Instrument :

MSVOA_L

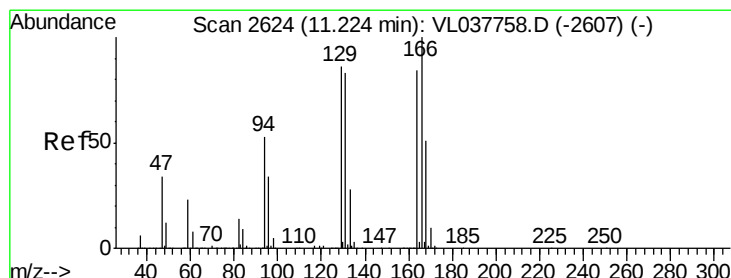
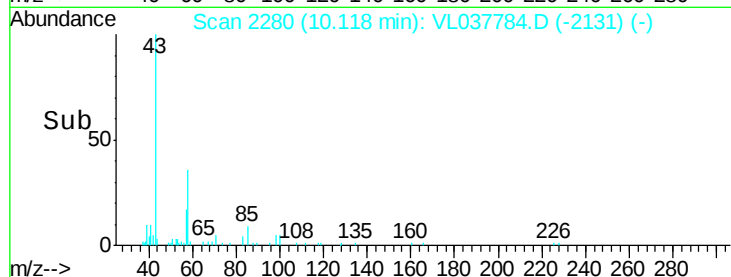
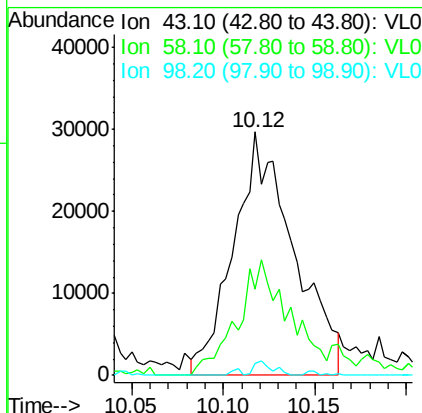
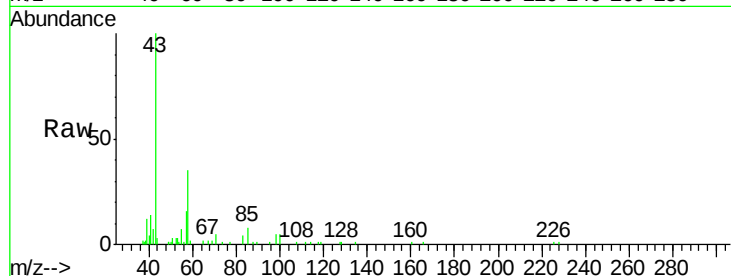
ClientSampleId :

C0P15

Tgt Ion:	43	Resp:	67520
Ion	Ratio	Lower	Upper
43	100		
58	49.5	39.4	59.0
98	2.4	0.3	0.5#

Manual Integrations
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#52

Tetrachloroethene

Concen: 30.706 ppbv

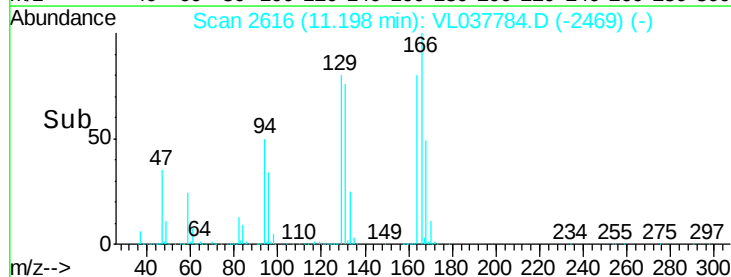
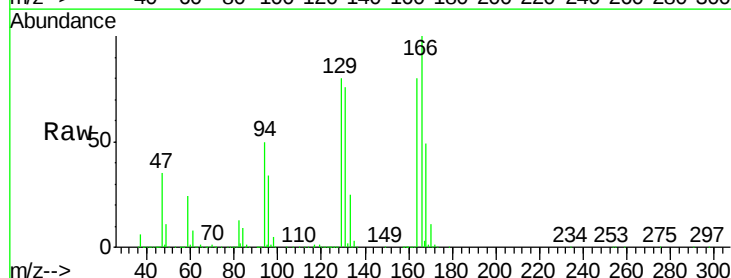
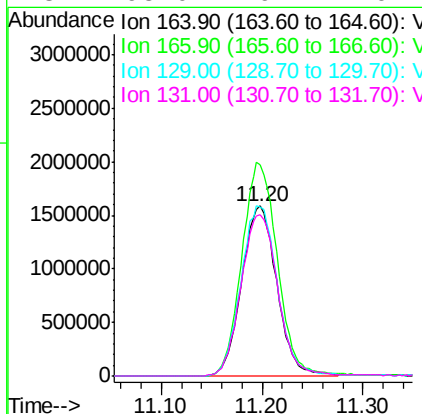
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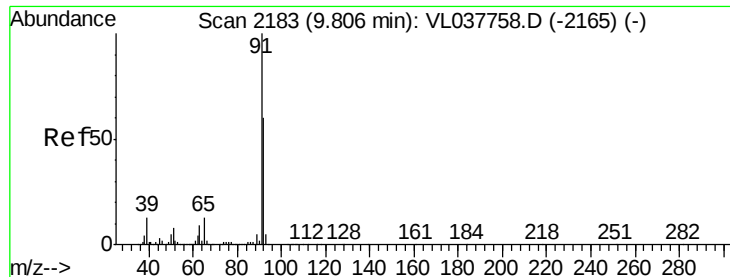
Delta R.T. -0.03 min

Lab File: VL037784.D

Acq: 5 Oct 2021 21:54

Tgt Ion:	164	Resp:	3828741
Ion	Ratio	Lower	Upper
164	100		
166	124.7	95.4	143.2
129	99.4	82.2	123.4
131	95.0	79.4	119.2





#53

Toluene

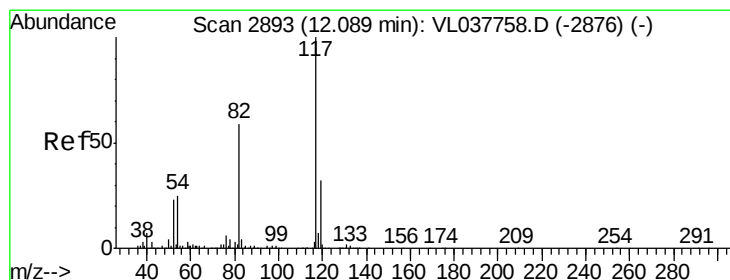
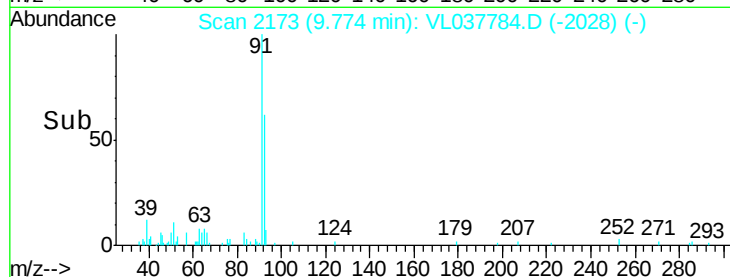
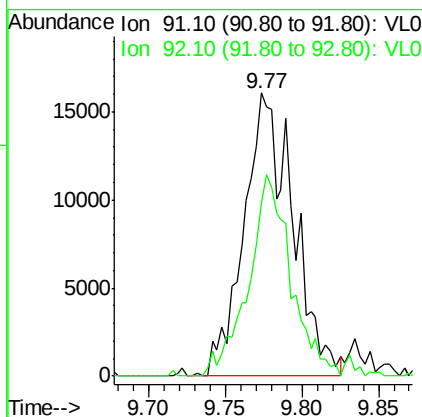
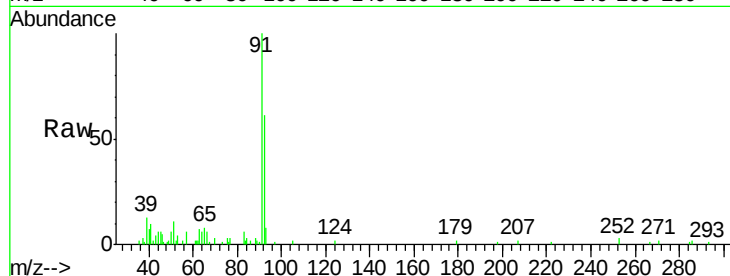
Concen: 0.100 ppbv m
RT: 9.77 min Scan# 2173
Delta R.T. -0.03 min
Lab File: VL037784.D
Acq: 5 Oct 2021 21:54

Instrument :
MSVOA_L
ClientSampleId :
C0P15

Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.5	48.4	72.6

Manual Integrations
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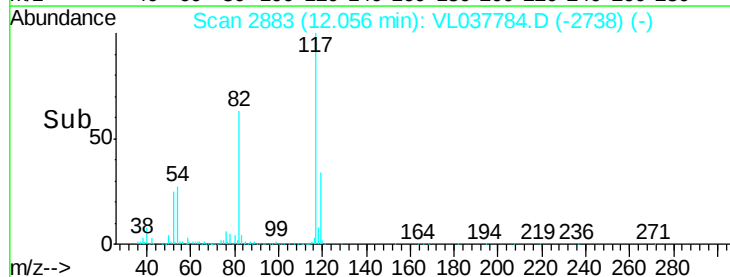
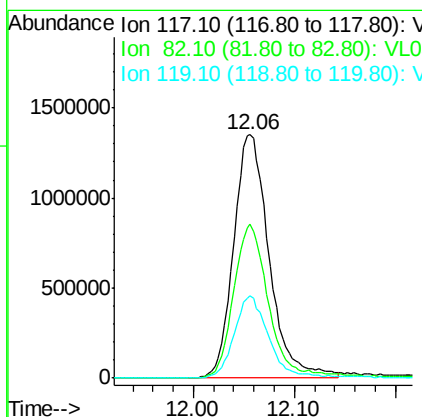
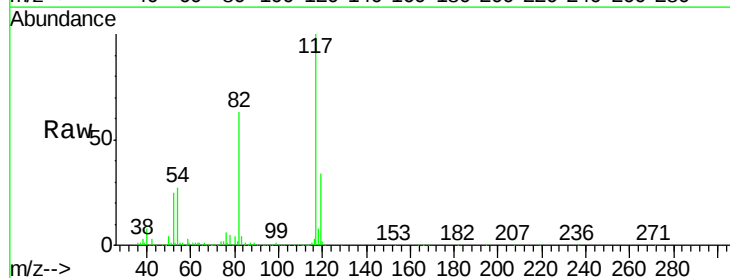


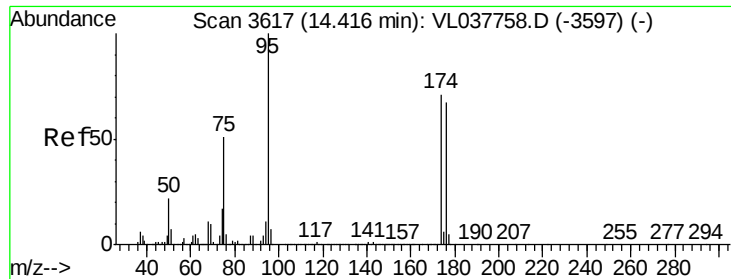
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.06 min Scan# 2883
Delta R.T. -0.03 min
Lab File: VL037784.D
Acq: 5 Oct 2021 21:54

Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.4	52.2	78.2
119	33.8	26.0	39.0





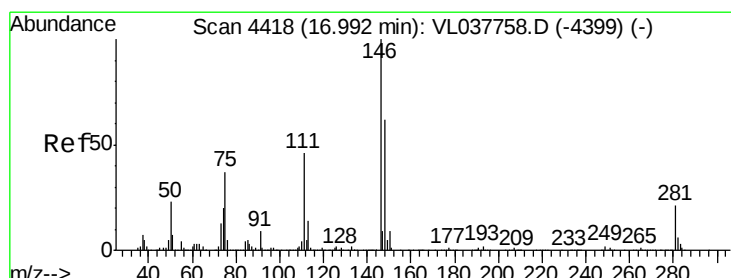
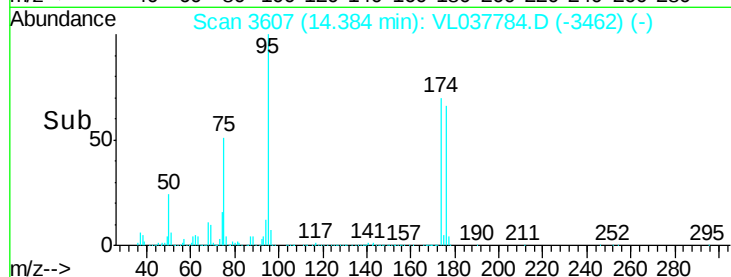
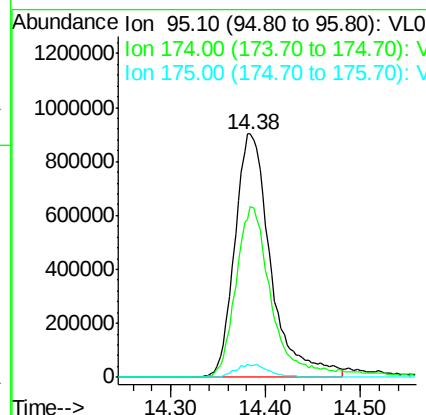
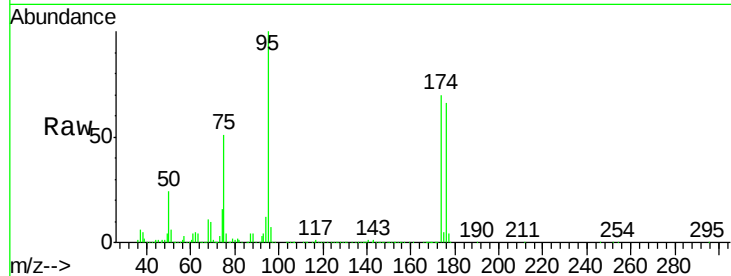
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.349 ppbv
 RT: 14.38 min Scan# 3607
 Delta R.T. -0.03 min
 Lab File: VL037784.D
 Acq: 5 Oct 2021 21:54

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P15

Tgt Ion: 95 Resp: 2393830
 Ion Ratio Lower Upper
 95 100
 174 72.1 57.8 86.6
 175 5.4 4.7 7.1

Manual Integrations
 APPROVED

MMDadoda
 10/11/2021 7:36:31 PM



#75
 1,3-Dichlorobenzene
 Concen: 0.307 ppbv m
 RT: 16.96 min Scan# 4409
 Delta R.T. -0.03 min
 Lab File: VL037784.D
 Acq: 5 Oct 2021 21:54

Tgt Ion: 146 Resp: 75175
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.8 68.4#
 148 0.0 32.8 98.3#

