

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100121\
 Data File : VL037742.D
 Acq On : 1 Oct 2021 15:24
 Operator : SY/AP
 Sample : M4012-08
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P00

Manual Integrations
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SAM
 10/4/2021 7:16:40 PM

Quant Time: Oct 02 19:39:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1200782	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3635839	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3114742	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2108753	9.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	40342	0.186	ppbv	94
3) Chlorodifluoromethane	2.98	51	68200	0.301	ppbv #	91
4) Chloromethane	3.13	50	43041	0.514	ppbv	99
9) Propene	3.01	41	114951	1.439	ppbv	93
10) Heptane	8.10	43	69048	0.370	ppbv	98
11) Trichlorofluoromethane	3.94	101	41040m	0.235	ppbv	
13) Ethanol	3.61	45	35821m	4.584	ppbv	
15) Acetone	3.84	43	461113m	3.696	ppbv	
20) Methylene Chloride	4.33	84	74372m	1.249	ppbv	
26) Hexane	5.67	57	162342	1.131	ppbv #	45
34) 2-Butanone	5.25	43	75436m	0.511	ppbv	
35) Carbon Tetrachloride	7.00	117	12933m	0.063	ppbv	
36) Benzene	6.87	78	569632	1.879	ppbv	98
44) 2,2,4-Trimethylpentane	7.85	57	277045m	0.544	ppbv	
52) Tetrachloroethene	11.20	164	7022m	0.060	ppbv	
53) Toluene	9.79	91	416355	1.235	ppbv	99
58) Ethyl Benzene	12.70	91	74978m	0.181	ppbv	
59) m/p-Xylene	12.95	91	310048m	0.860	ppbv	
60) o-Xylene	13.67	91	118499	0.346	ppbv	93
73) 1,3,5-Trimethylbenzene	15.98	105	46478m	0.127	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	179554m	0.465	ppbv	

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

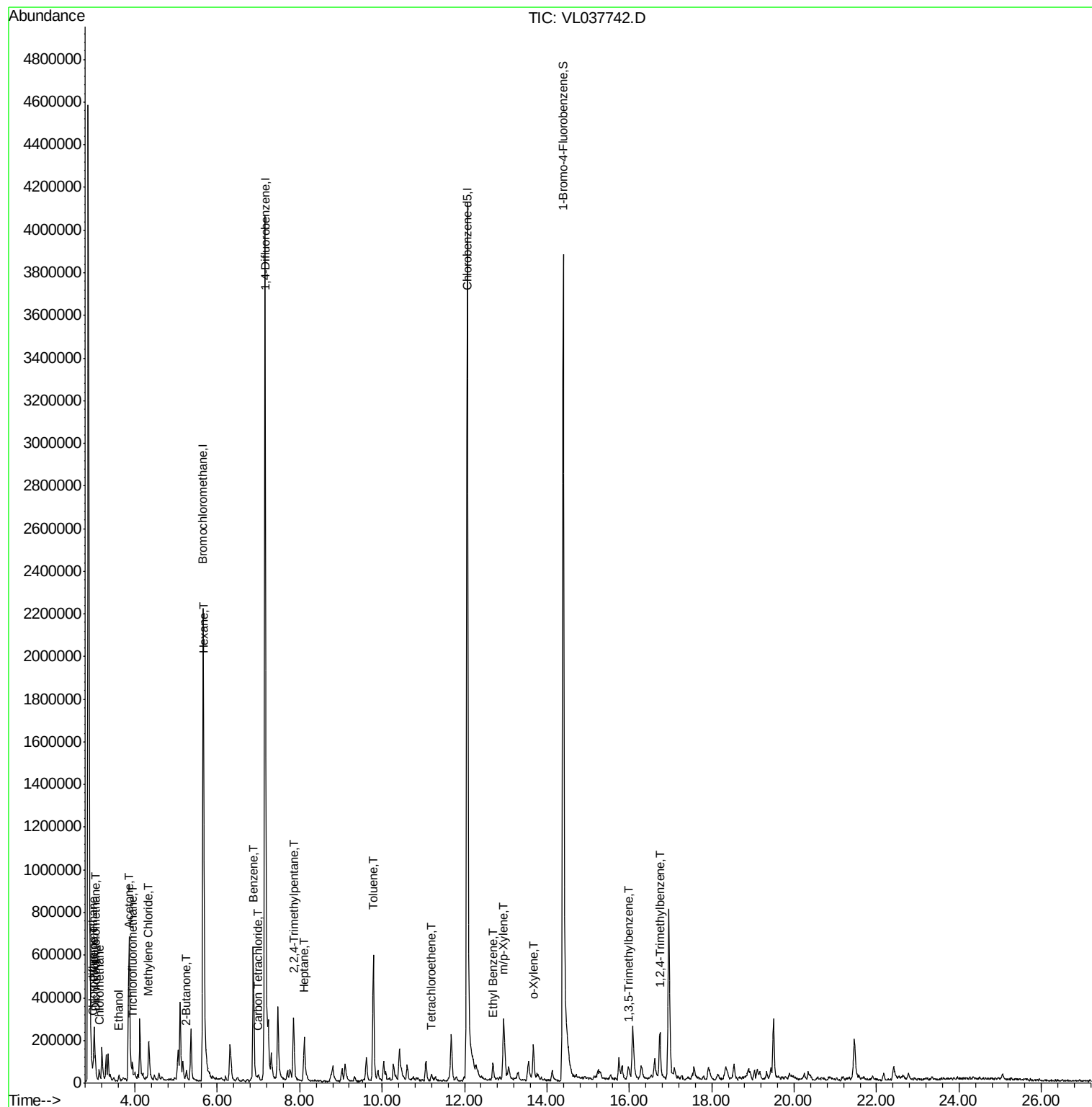
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL100121\
Data File : VL037742.D
Acq On : 1 Oct 2021 15:24
Operator : SY/AP
Sample : M4012-08
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

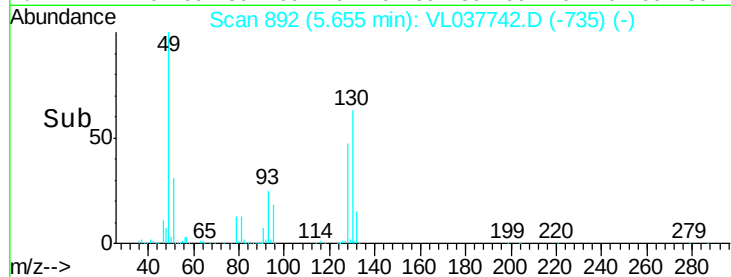
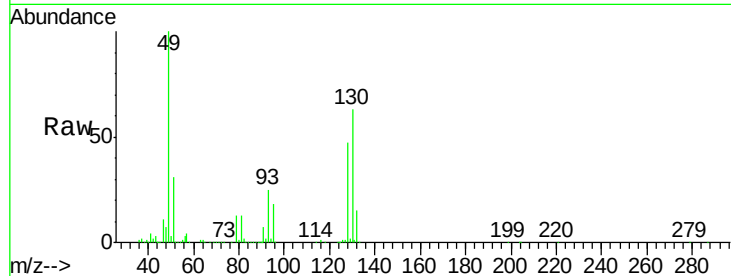
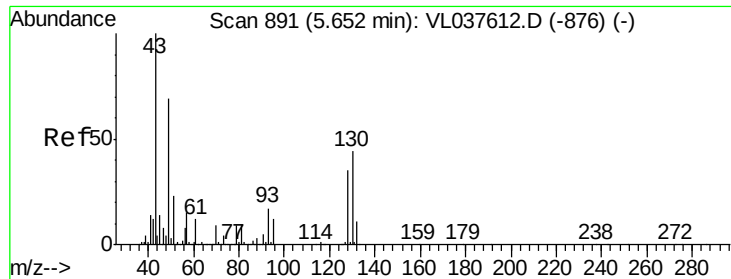
Instrument :
MSVOA_L
ClientSampleId :
C0P00

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Quant Time: Oct 02 19:39:50 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





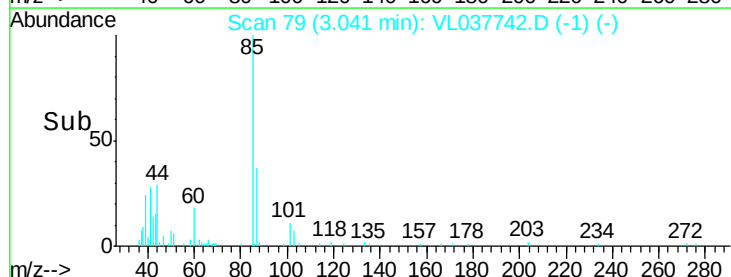
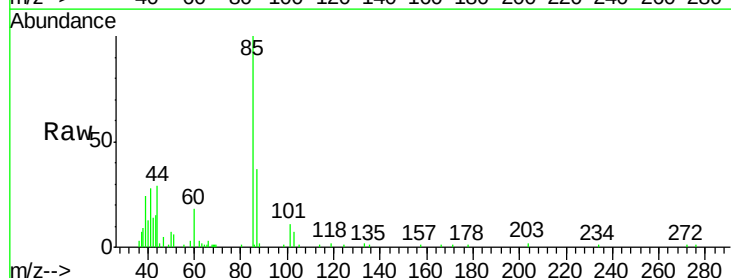
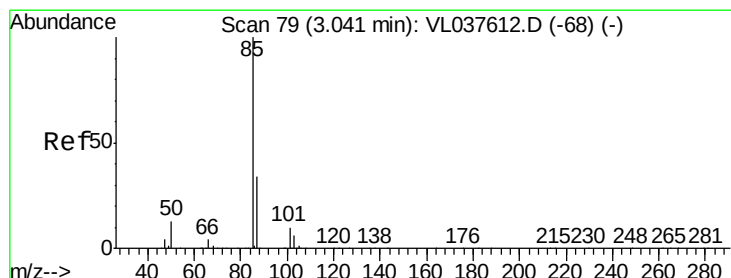
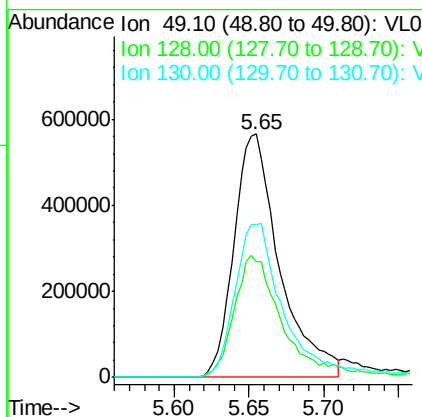
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 892
Delta R.T. 0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tot Ion: 49 Resp: 1200782
Ion Ratio Lower Upper
49 100
128 56.1 27.9 83.6
130 70.0 33.9 101.7

Instrument :
MSVOA_L
ClientSampled :
COP00

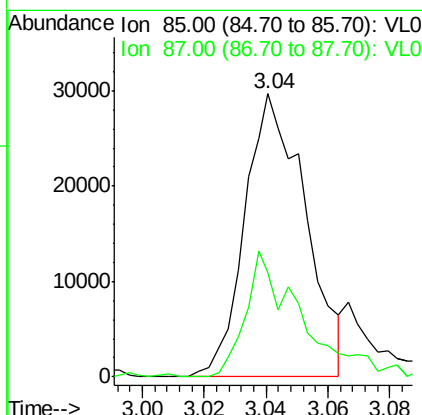
Manual Integrations
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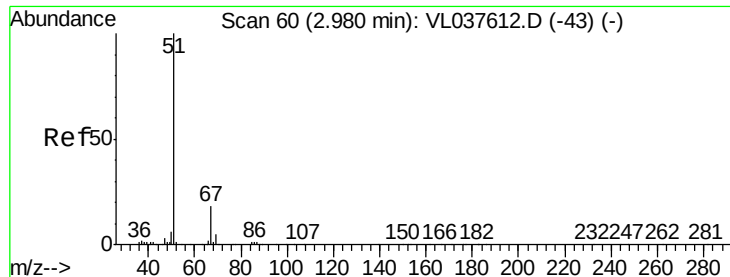
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#2
Dichlorodifluoromethane
Concen: 0.186 ppbv
RT: 3.04 min Scan# 79
Delta R.T. 0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tgt Ion: 85 Resp: 40342
Ion Ratio Lower Upper
85 100
87 36.9 26.8 40.2





#3

Chlorodifluoromethane

Concen: 0.301 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.00 min

Lab File: VL037742.D

Acq: 1 Oct 2021 15:24

Instrument :

MSVOA_L

ClientSampleId :

C0P00

Tot Ion: 51 Resp: 68200

Ion Ratio Lower Upper

51 100

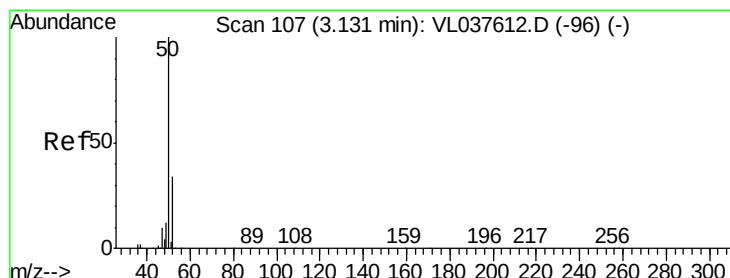
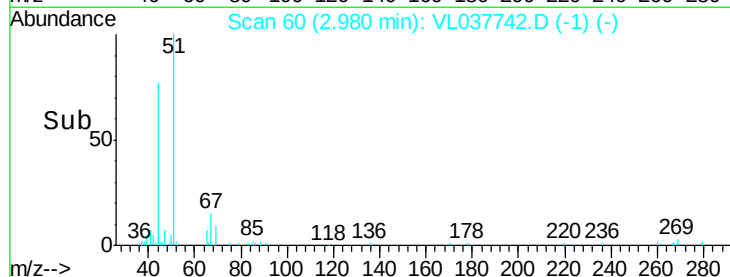
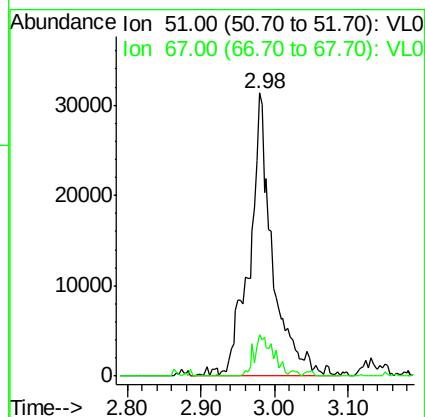
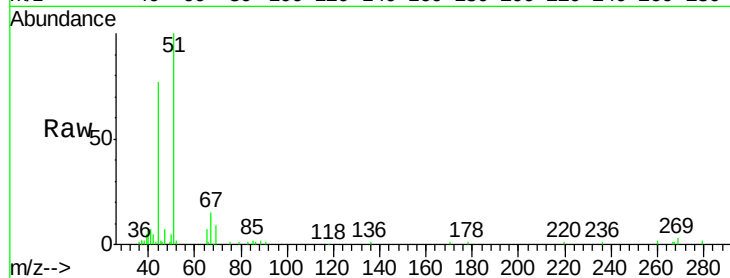
67 13.4 14.0 21.0#

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#4

Chloromethane

Concen: 0.514 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL037742.D

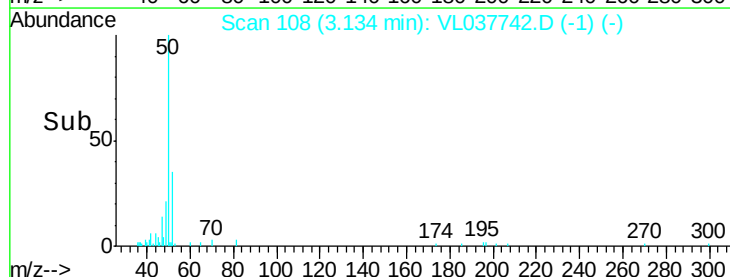
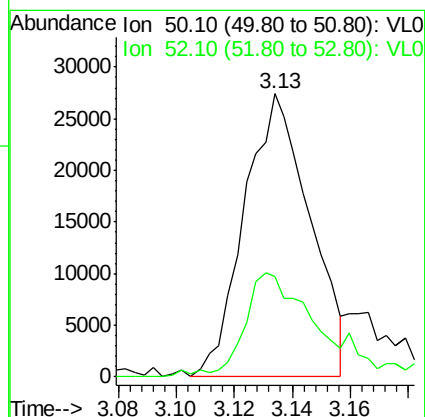
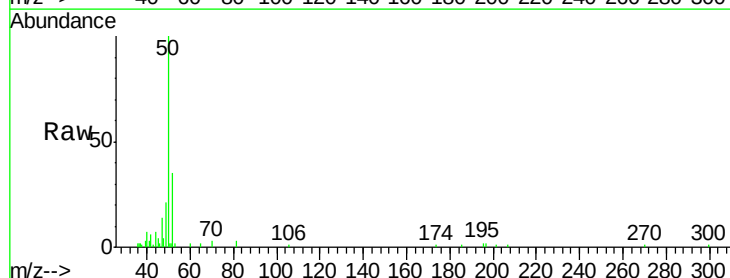
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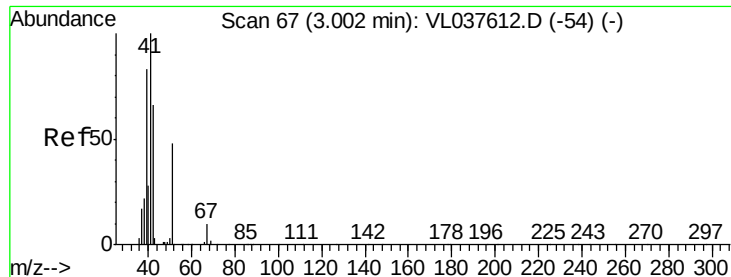
Tgt Ion: 50 Resp: 43041

Ion Ratio Lower Upper

50 100

52 34.3 27.1 40.7





#9

Propene

Concen: 1.439 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL037742.D

Acq: 1 Oct 2021 15:24

Instrument :

MSVOA_L

ClientSampleId :

C0P00

Tot Ion: 41 Resp: 114951

Ion Ratio Lower Upper

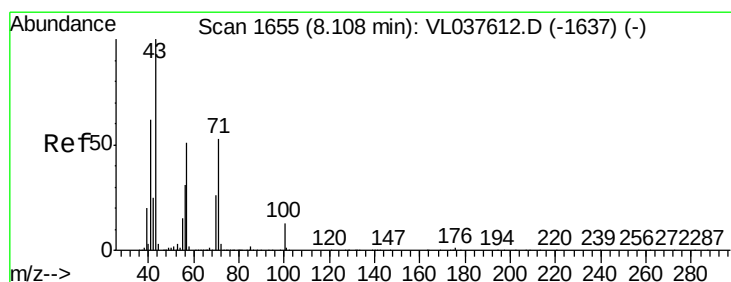
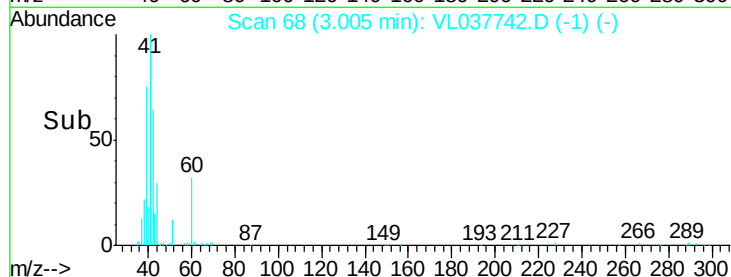
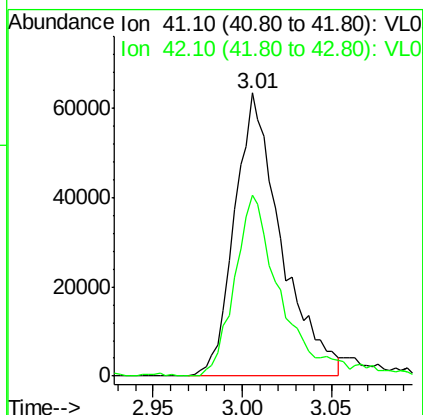
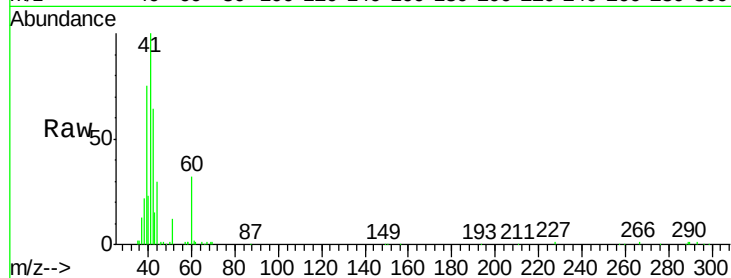
41 100

42 66.1 57.2 85.8

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#10

Heptane

Concen: 0.370 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL037742.D

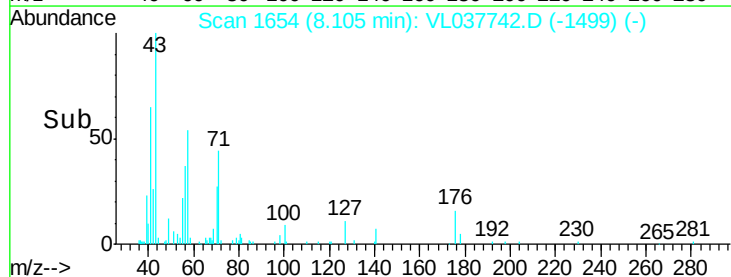
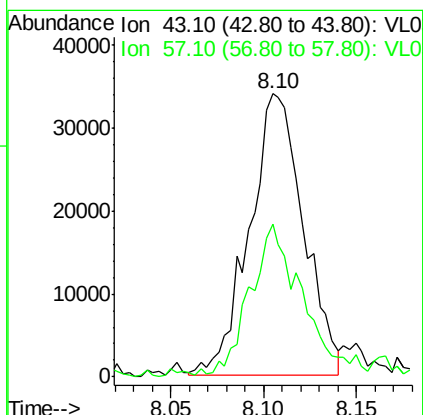
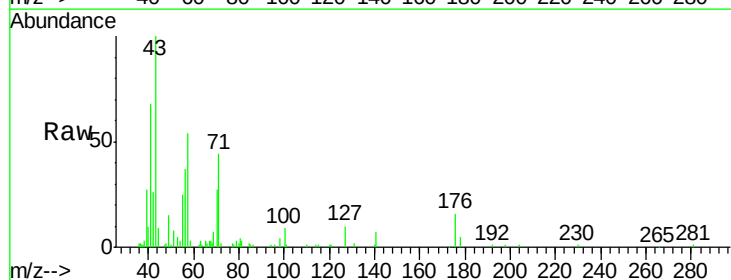
Acq: 1 Oct 2021 15:24

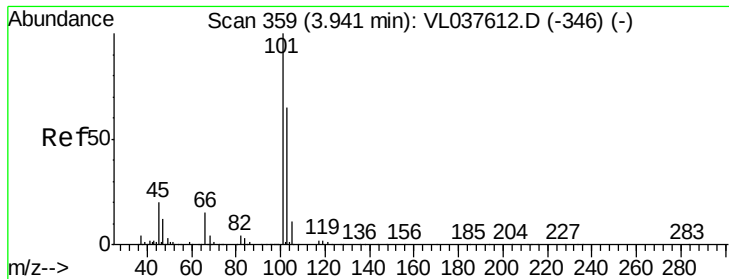
Tgt Ion: 43 Resp: 69048

Ion Ratio Lower Upper

43 100

57 51.6 40.1 60.1





#11

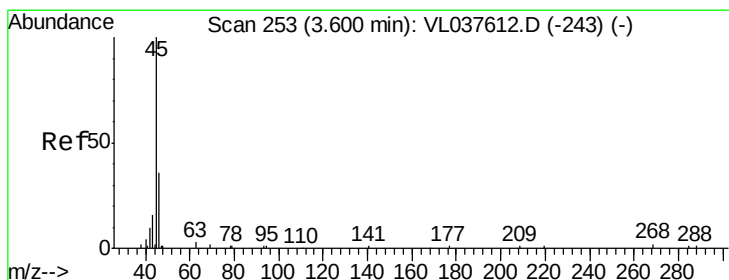
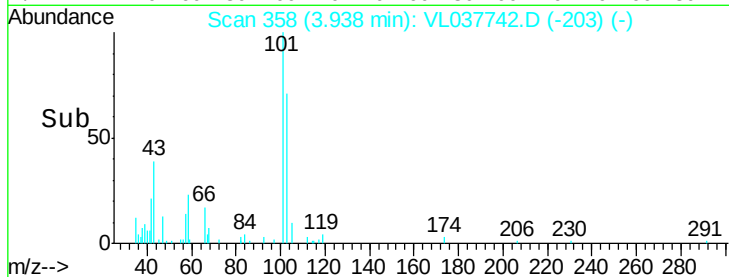
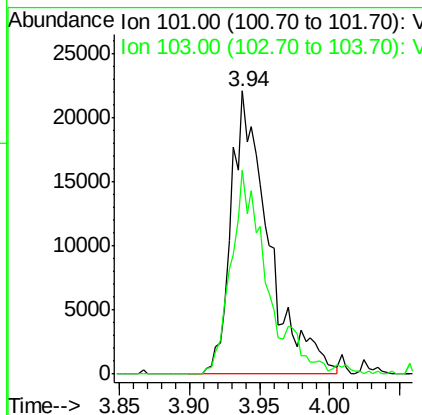
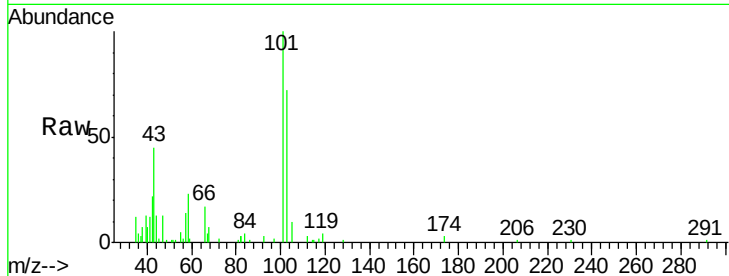
Trichlorofluoromethane
Concen: 0.235 ppbv m
RT: 3.94 min Scan# 358
Delta R.T. -0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Instrument :
MSVOA_L
ClientSampled :
C0P00

Tot Ion	Ratio	Lower	Upper
101	100		
103	72.1	51.9	77.9

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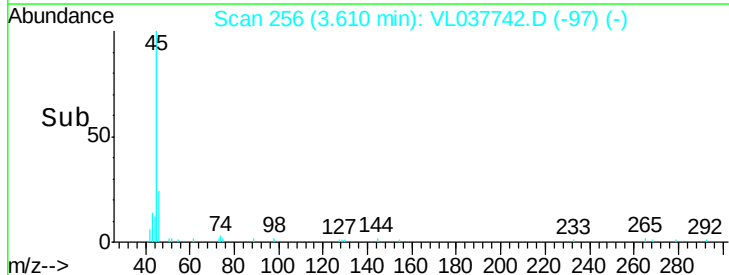
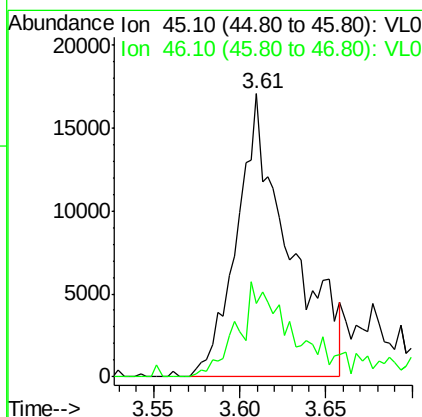
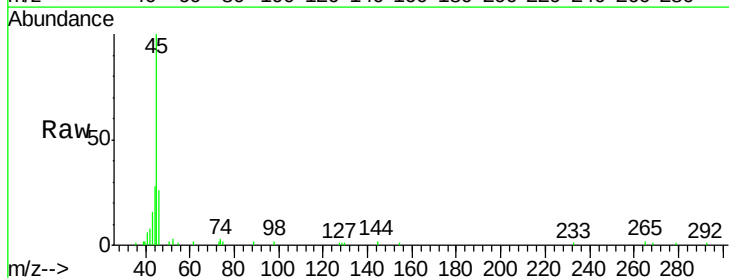
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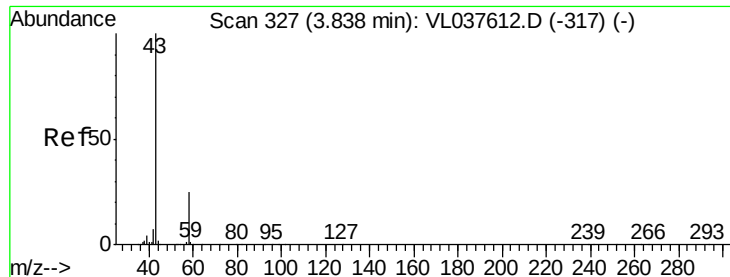


#13

Ethanol
Concen: 4.584 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. 0.01 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tgt Ion	Ratio	Lower	Upper
45	100		
46	41.3	17.2	68.8





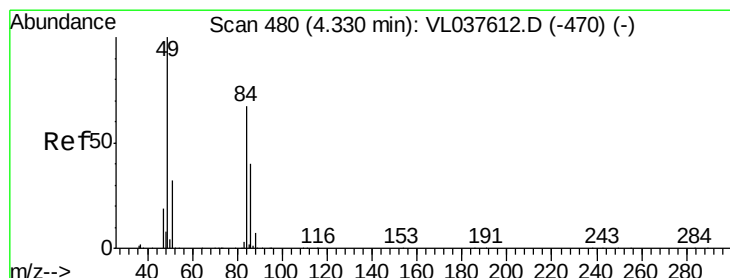
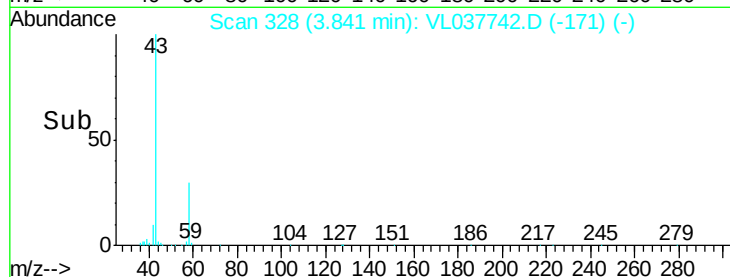
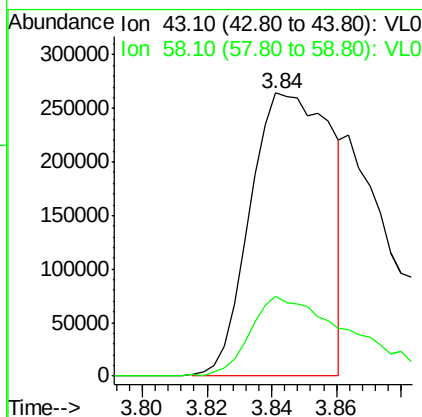
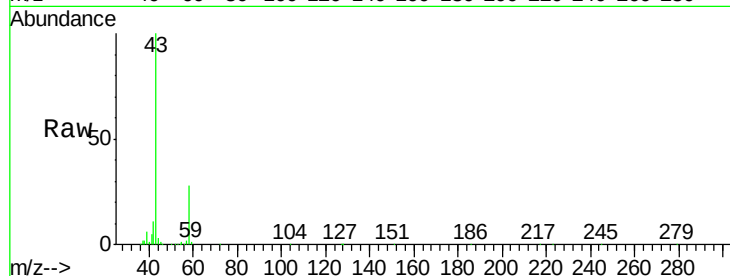
#15
Acetone
Concen: 3.696 ppbv m
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Instrument :
MSVOA_L
ClientSampleId :
C0P00

Tot Ion: 43 Resp: 461113
Ion Ratio Lower Upper
43 100
58 43.2 24.9 37.3#

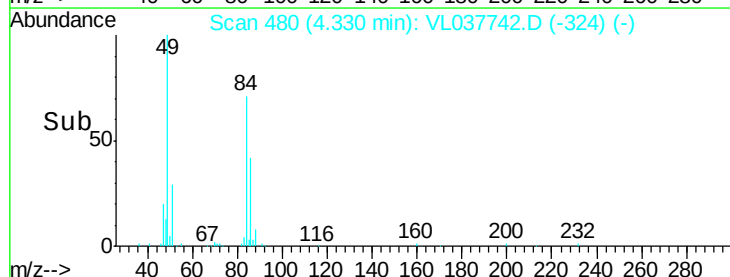
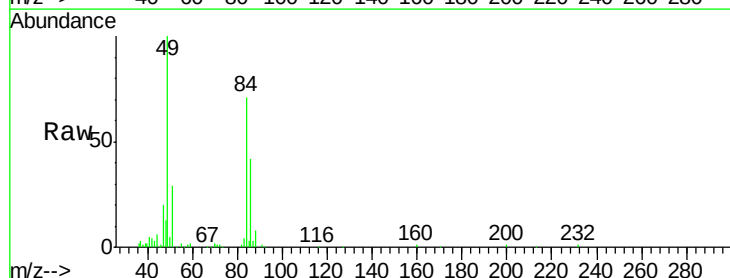
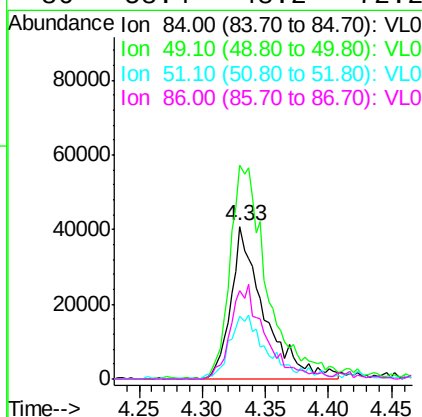
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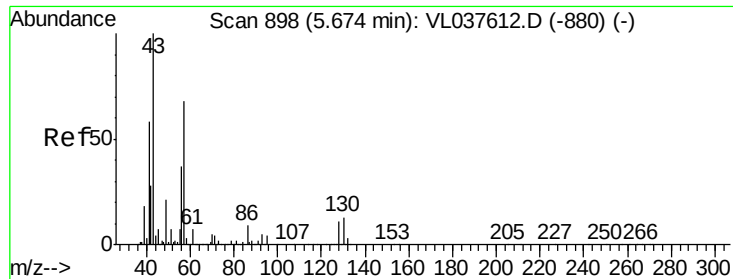
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#20
Methylene Chloride
Concen: 1.249 ppbv m
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tgt Ion: 84 Resp: 74372
Ion Ratio Lower Upper
84 100
49 140.2 120.0 180.0
51 41.2 38.0 57.0
86 58.4 48.2 72.2





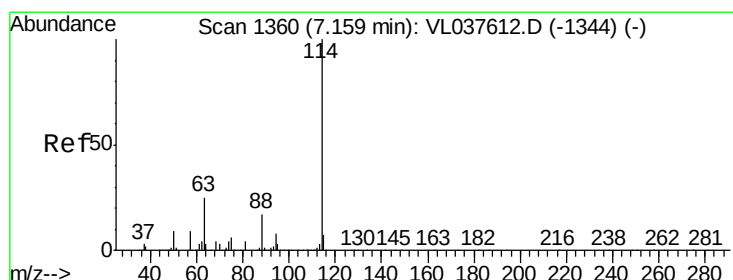
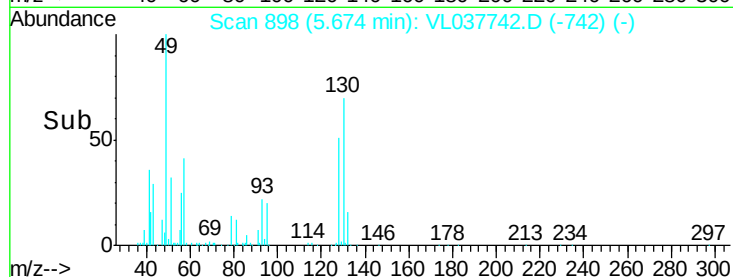
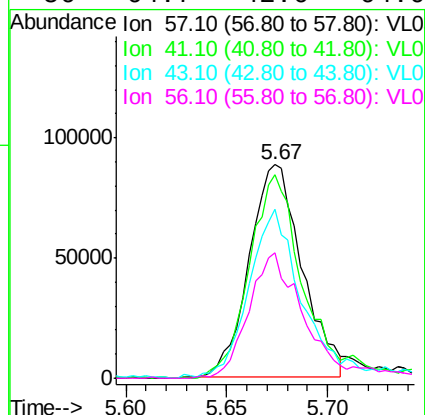
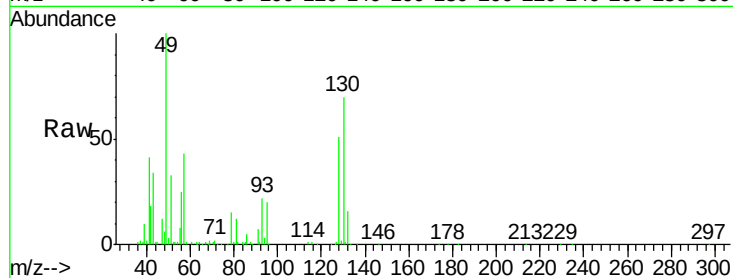
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Hexane
Concen: 1.131 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Instrument :
MSVOA_L
ClientSampleId :
C0P00

Tot Ion	Ratio	Lower	Upper
57	100		
41	101.6	70.9	106.3
43	84.9	170.4	255.6#
56	64.7	42.6	64.0#

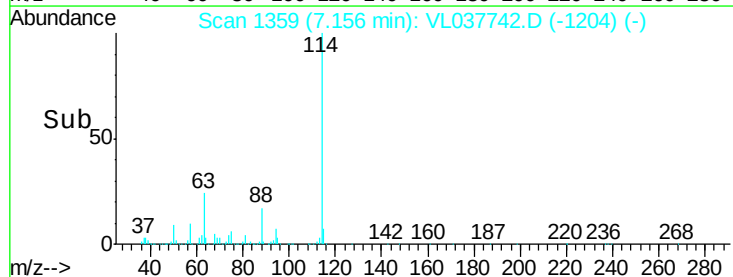
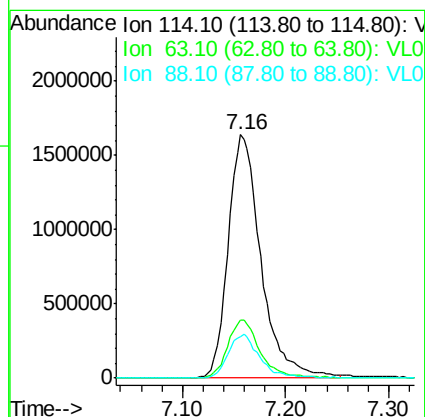
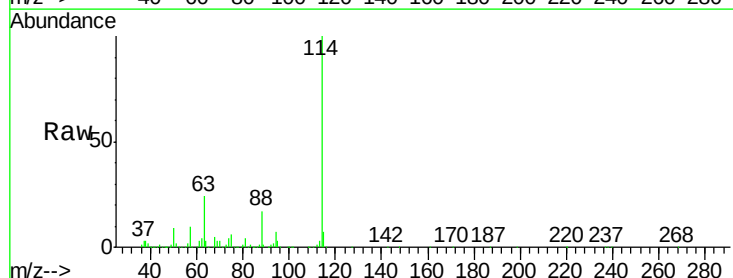
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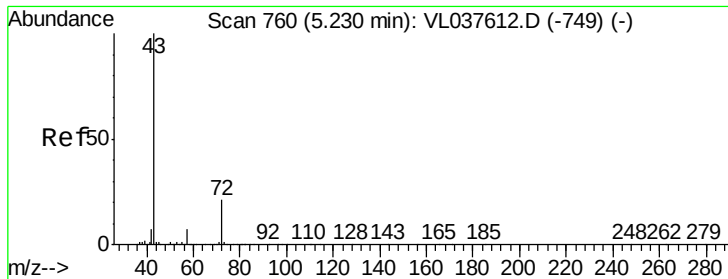
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.6	29.4
88	17.7	14.2	21.4





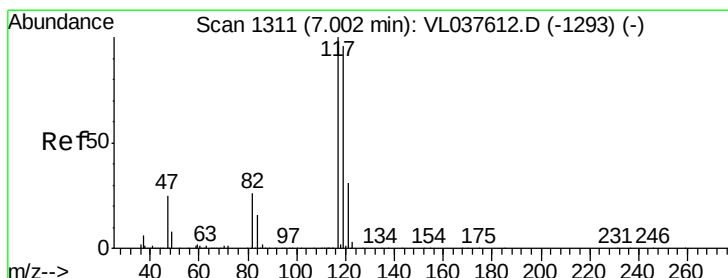
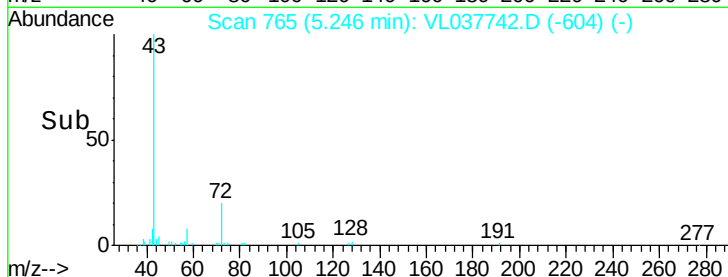
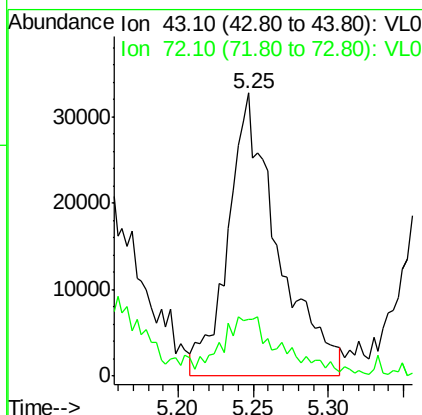
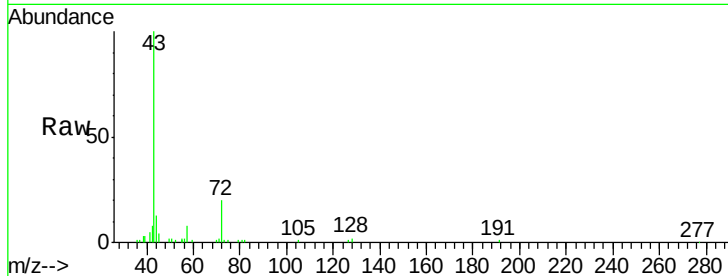
#34
2-Butanone
Concen: 0.511 ppbv m
RT: 5.25 min Scan# 765
Delta R.T. 0.02 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Instrument :
MSVOA_L
ClientSampled :
C0P00

Tot Ion: 43 Resp: 75436
Ion Ratio Lower Upper
43 100
72 0.0 18.4 27.6#

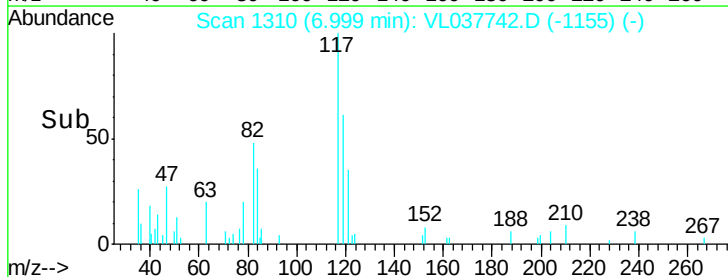
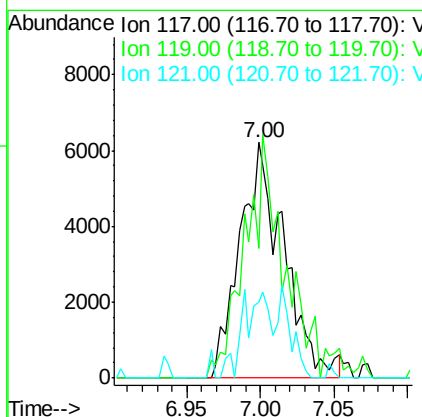
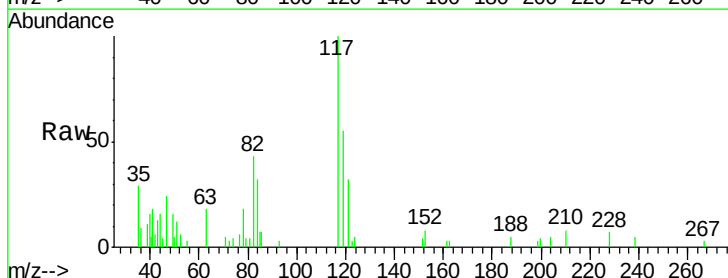
Manual Integrations
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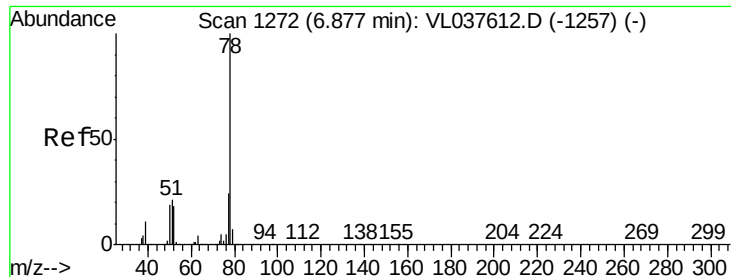
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#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tgt Ion: 117 Resp: 12933
Ion Ratio Lower Upper
117 100
119 55.1 77.0 115.6#
121 32.0 24.5 36.7





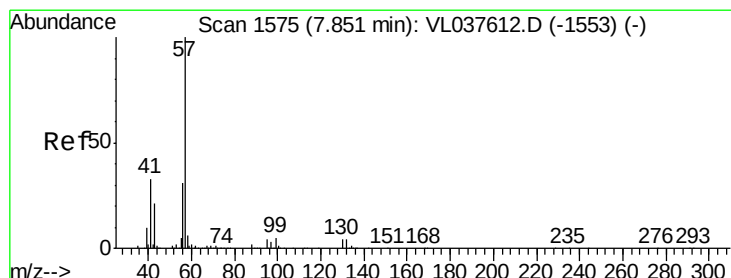
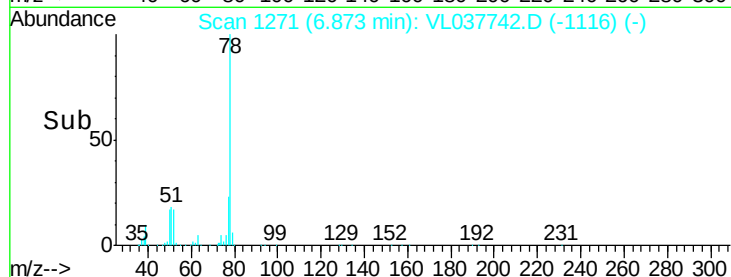
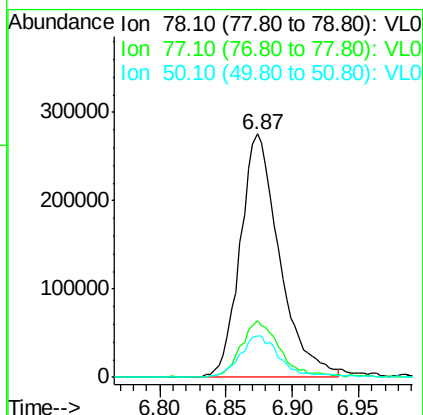
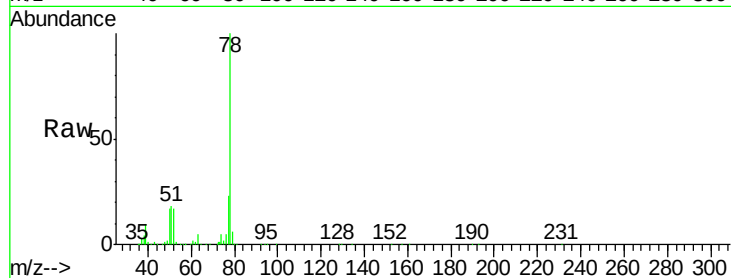
#36
Benzene
Concen: 1.879 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Instrument :
MSVOA_L
ClientSampleId :
C0P00

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.0	28.4
50	16.9	14.8	22.2

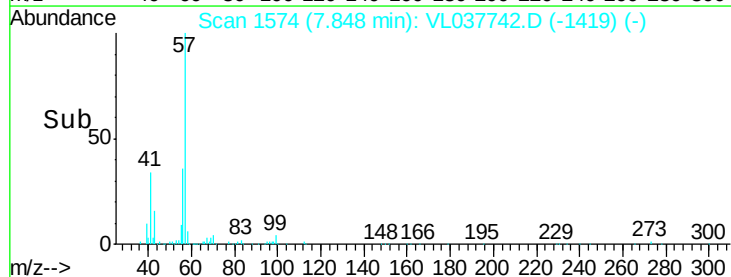
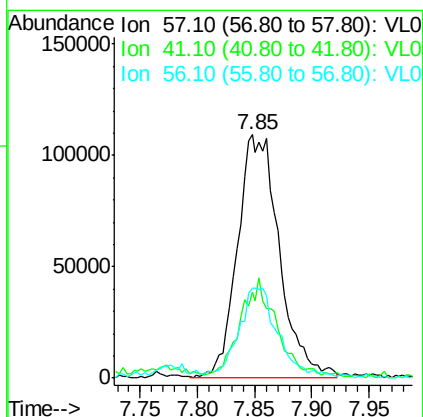
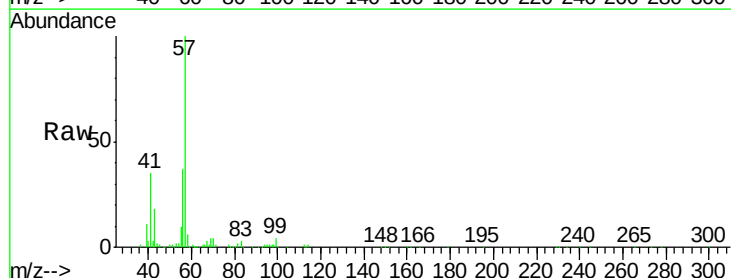
Manual Integrations
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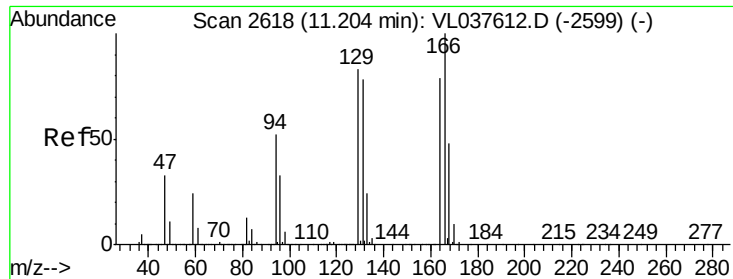
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#44
2,2,4-Trimethylpentane
Concen: 0.544 ppbv m
RT: 7.85 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.1	26.1	39.1
56	37.5	25.7	38.5





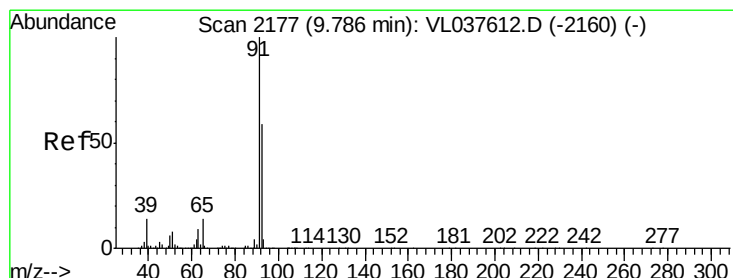
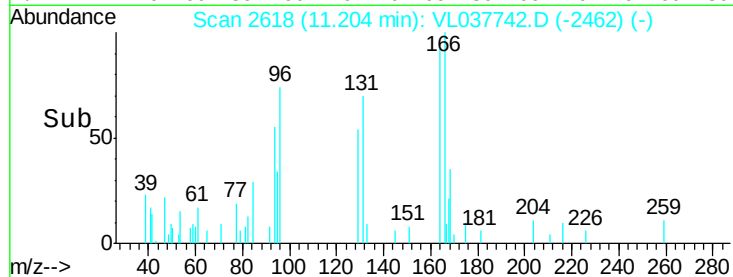
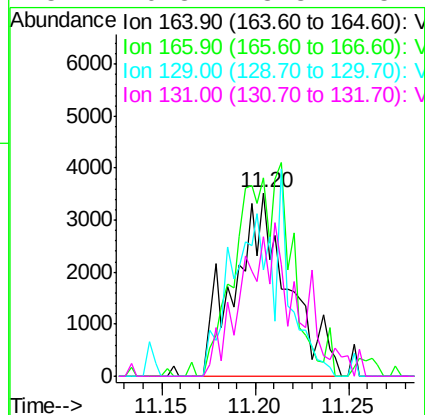
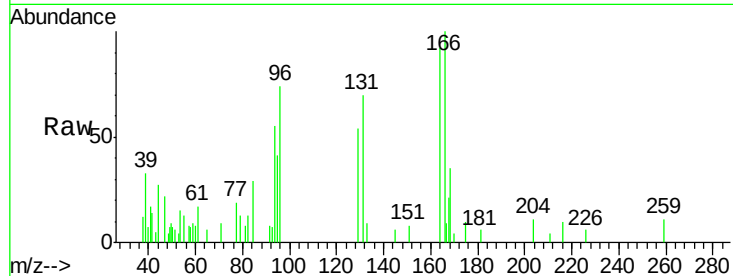
#52
Tetrachloroethene
Concen: 0.060 ppbv m
RT: 11.20 min Scan# 2618
Delta R.T. 0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Instrument :
MSVOA_L
ClientSampled :
C0P00

Tot Ion	Ratio	Lower	Upper
164	100		
166	108.3	101.2	151.8
129	58.0	84.0	126.0#
131	76.3	78.8	118.2#

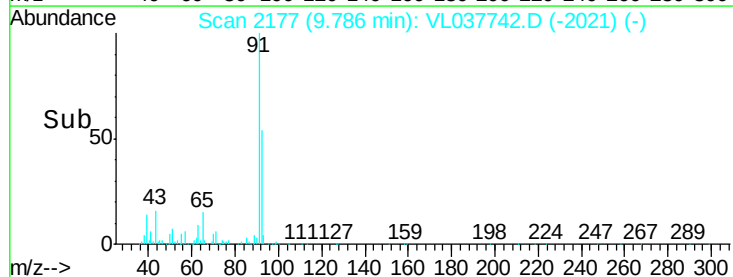
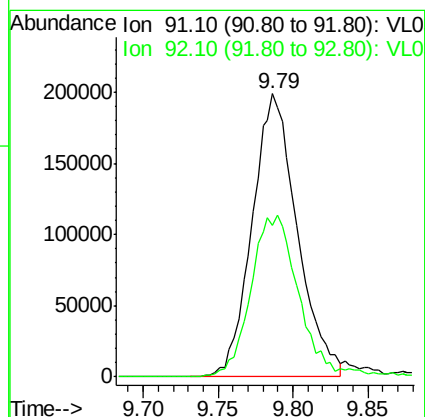
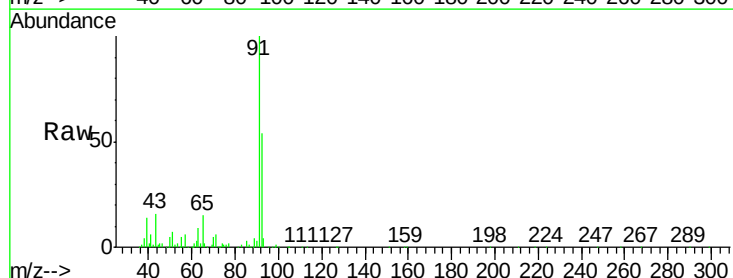
Manual Integrations
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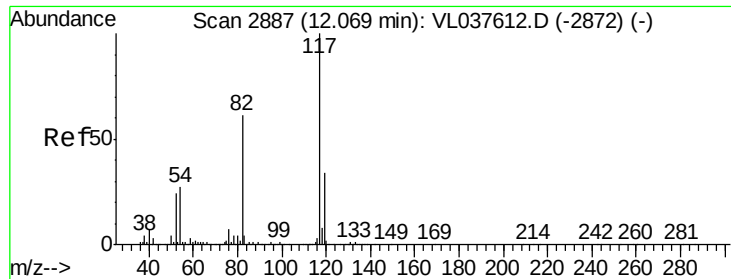
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#53
Toluene
Concen: 1.235 ppbv
RT: 9.79 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.6	48.9	73.3





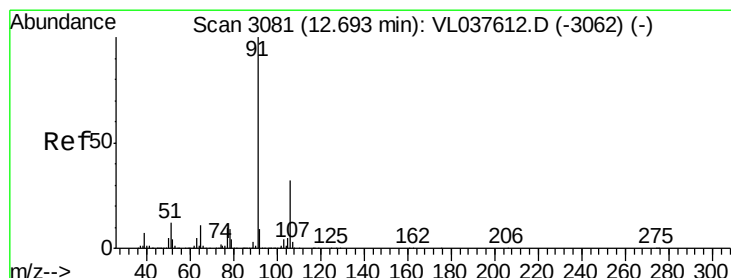
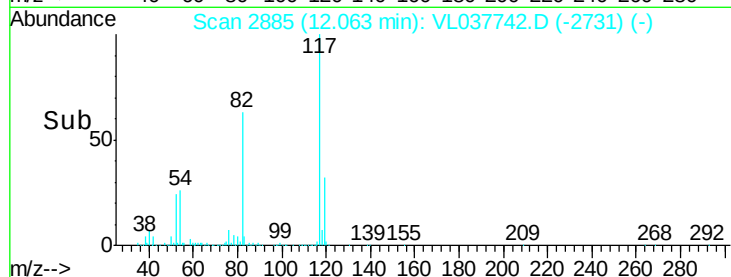
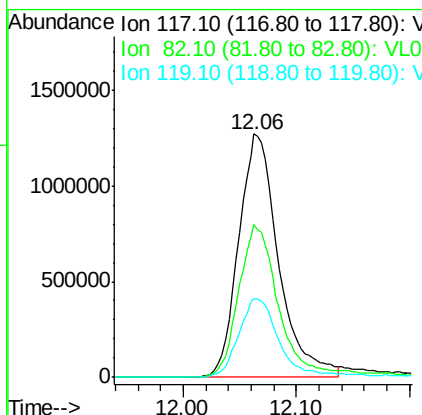
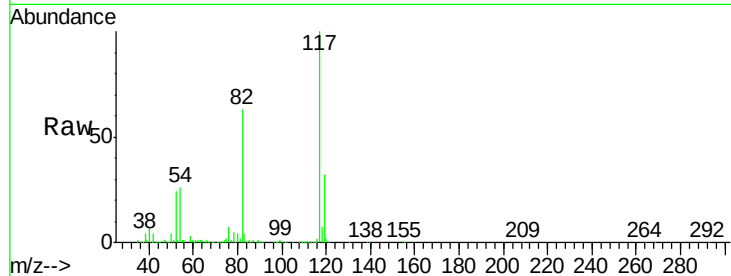
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.01 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Instrument :
MSVOA_L
ClientSampleId :
C0P00

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.3	50.6	75.8
119	34.3	26.2	39.2

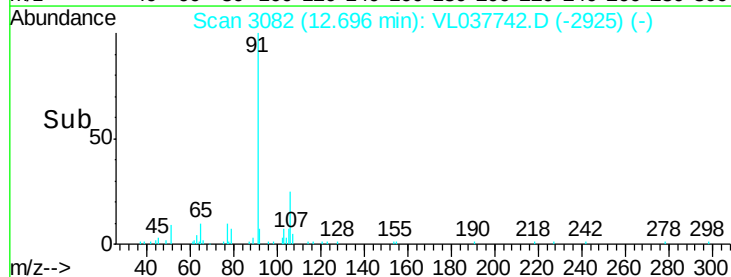
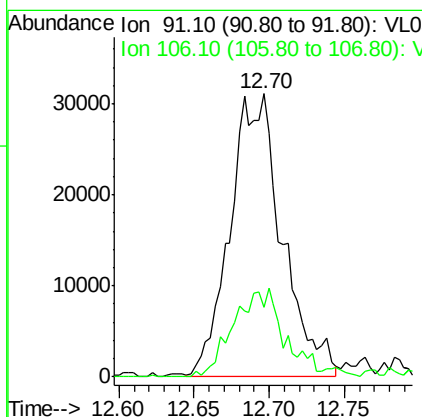
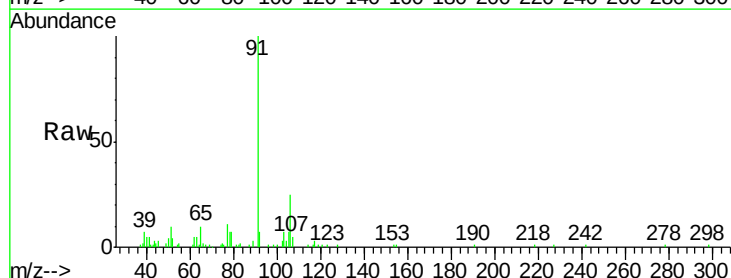
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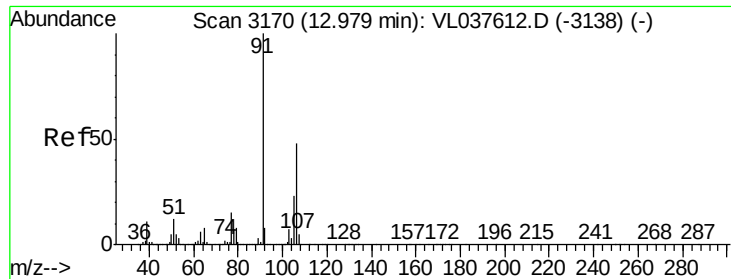
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10/4/2021 7:16:40 PM



#58
Ethyl Benzene
Concen: 0.181 ppbv m
RT: 12.70 min Scan# 3082
Delta R.T. 0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tgt Ion	Ratio	Lower	Upper
91	100		
106	24.6	25.3	37.9#





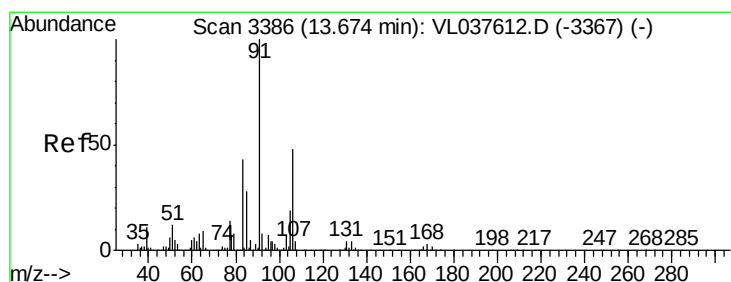
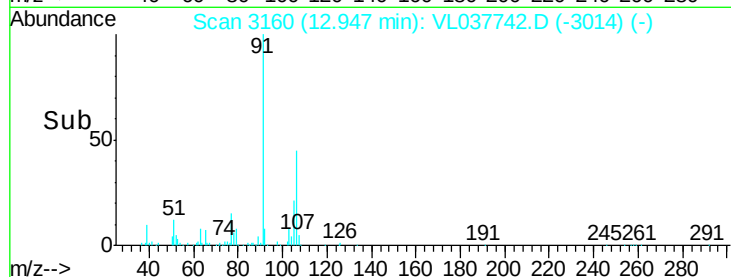
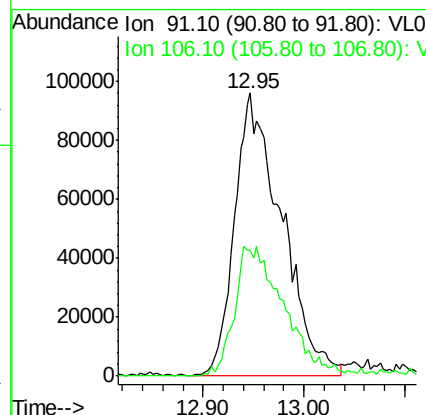
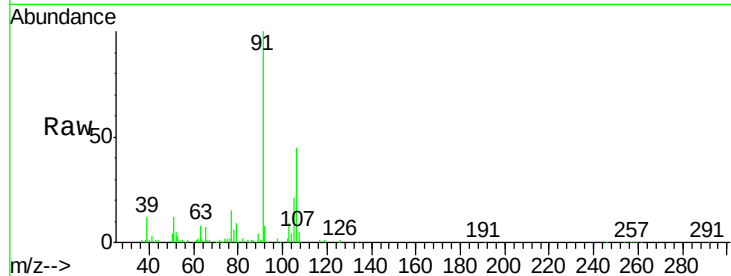
#59
m/p-Xylene
Concen: 0.860 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.03 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Instrument :
MSVOA_L
ClientSampled :
C0P00

Tot Ion: 91 Resp: 310048
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

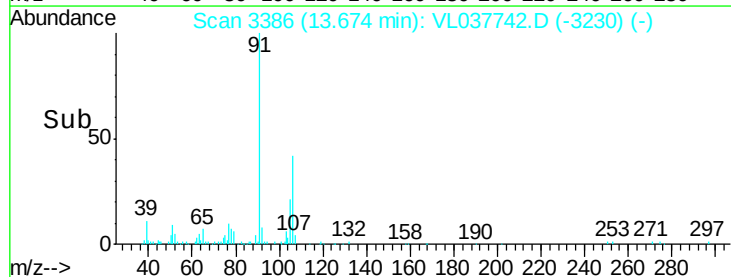
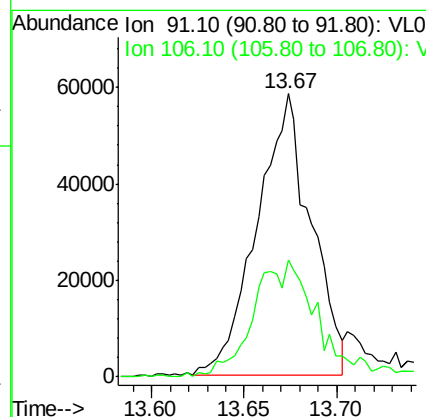
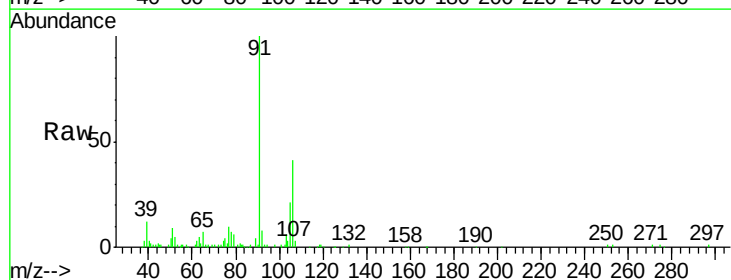
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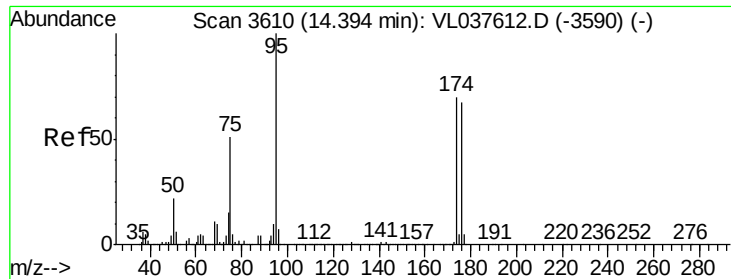
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10/4/2021 7:16:40 PM



#60
o-Xylene
Concen: 0.346 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. 0.00 min
Lab File: VL037742.D
Acq: 1 Oct 2021 15:24

Tgt Ion: 91 Resp: 118499
Ion Ratio Lower Upper
91 100
106 50.4 23.0 69.0





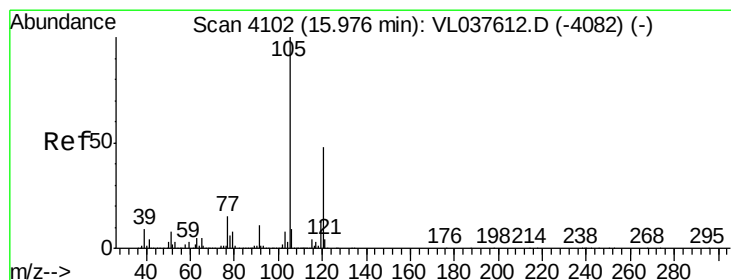
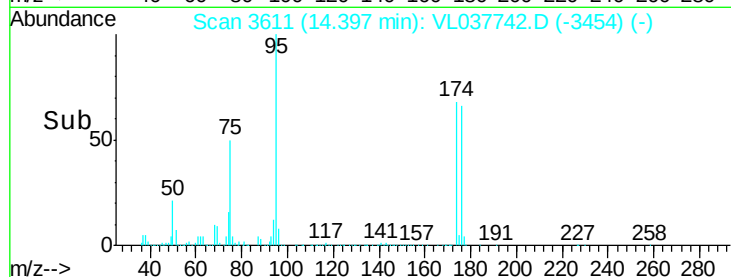
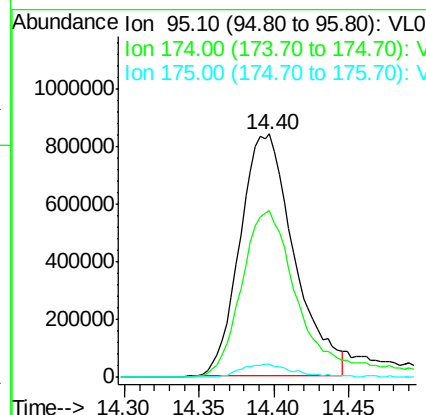
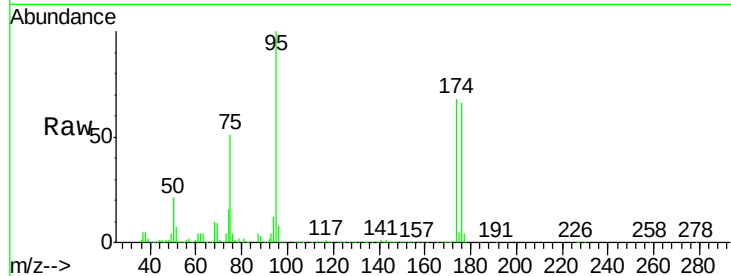
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.368 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. 0.00 min
 Lab File: VL037742.D
 Acq: 1 Oct 2021 15:24

Instrument :
 MSVOA_L
 ClientSampleID :
 C0P00

Tot Ion: 95 Resp: 2108753
 Ion Ratio Lower Upper
 95 100
 174 79.3 56.3 84.5
 175 5.7 4.4 6.6

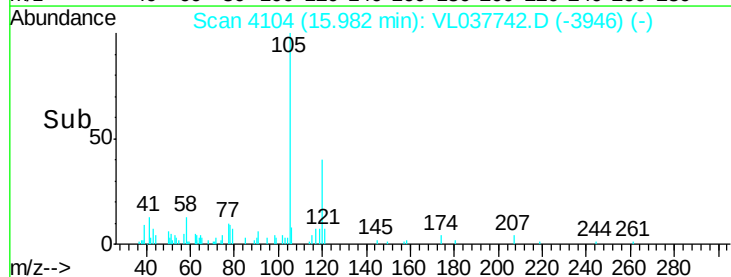
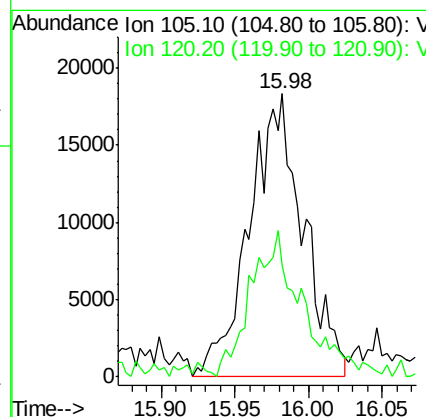
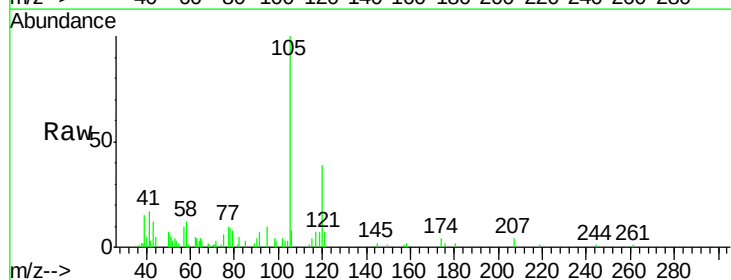
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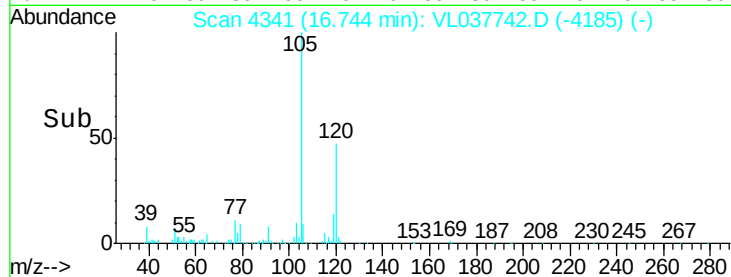
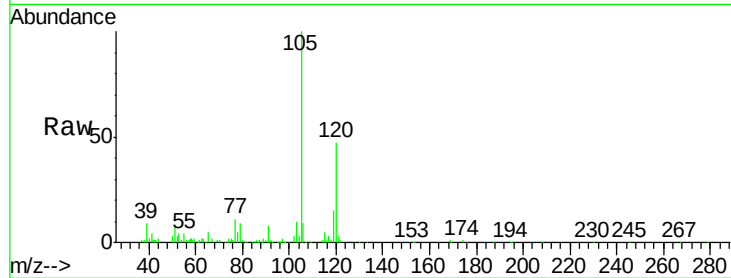
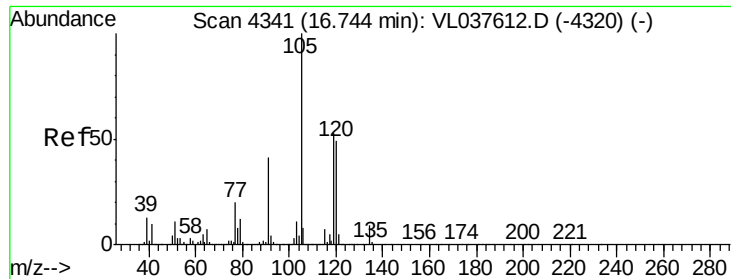
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.127 ppbv m
 RT: 15.98 min Scan# 4104
 Delta R.T. 0.01 min
 Lab File: VL037742.D
 Acq: 1 Oct 2021 15:24

Tgt Ion: 105 Resp: 46478
 Ion Ratio Lower Upper
 105 100
 120 39.4 38.3 57.5





#74

1,2,4-Trimethylbenzene

Concen: 0.465 ppbv m

RT: 16.74 min Scan# 4341

Delta R.T. 0.00 min

Lab File: VL037742.D

Acq: 1 Oct 2021 15:24

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	46.8	39.4	59.0
91	7.7	33.3	49.9#
77	10.5	15.7	23.5#

Instrument :

MSVOA_L

ClientSampleId :

C0P00

Manual Integrations
APPROVED

SAM

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