

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037468.D
 Acq On : 16 Aug 2021 19:21
 Operator : SY/AP
 Sample : M3277-01DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DL

Quant Time: Aug 17 11:29:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1473198	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4412839	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3777948	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2659543	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

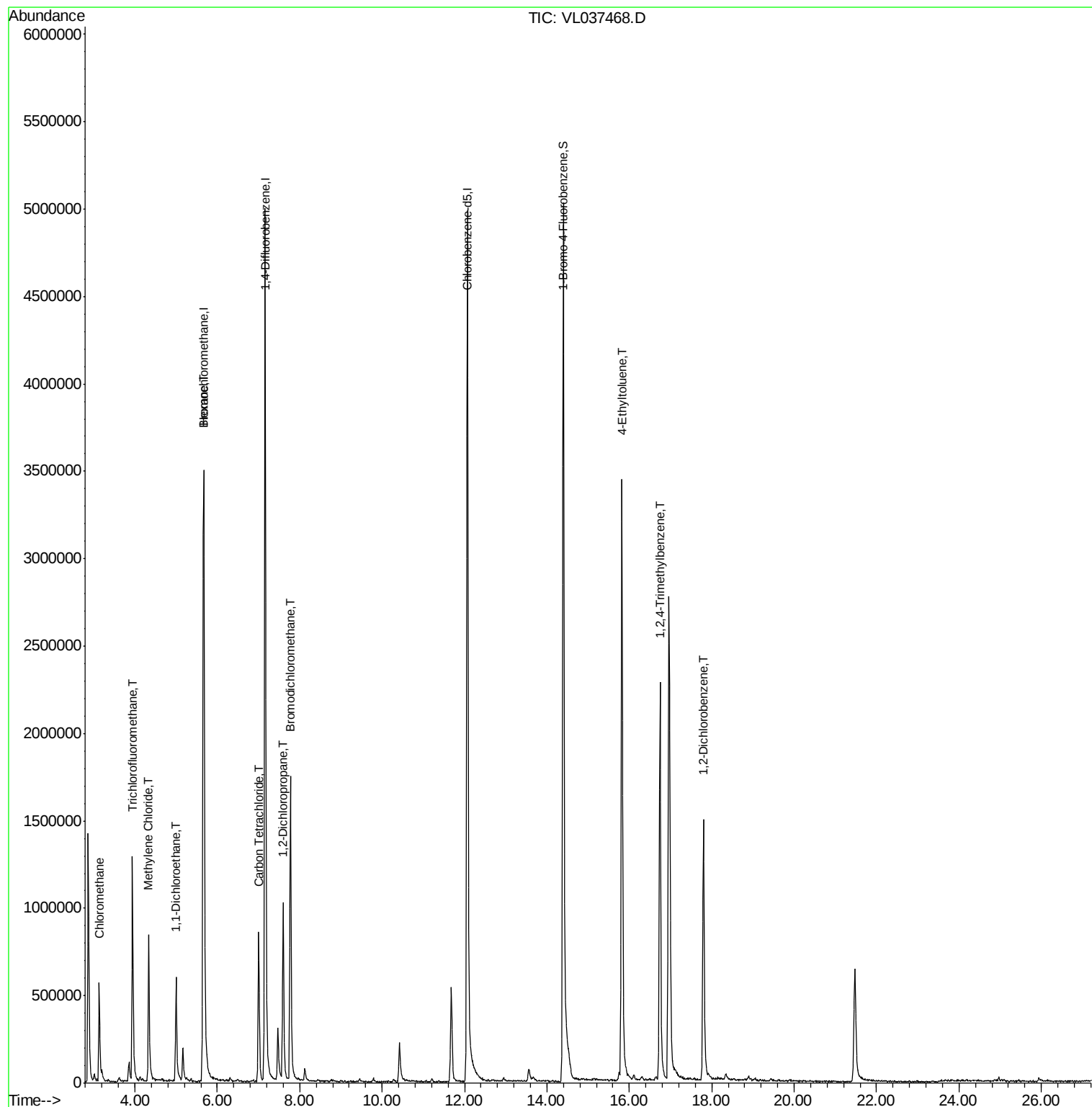
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	660066	6.548	ppbv	89
11) Trichlorofluoromethane	3.94	101	981589	4.424	ppbv	99
20) Methylene Chloride	4.33	84	364126	4.851	ppbv	94
24) 1,1-Dichloroethane	5.00	63	597613	3.728	ppbv	99
26) Hexane	5.67	57	1020099	5.482	ppbv #	45
35) Carbon Tetrachloride	7.01	117	569619	2.184	ppbv	92
39) 1,2-Dichloropropane	7.60	63	413659	2.902	ppbv	93
42) Bromodichloromethane	7.77	83	1355682	5.046	ppbv	99
72) 4-Ethyltoluene	15.82	105	3188700	6.320	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	1919840	3.847	ppbv #	67
77) 1,2-Dichlorobenzene	17.80	146	892126	3.016	ppbv	97

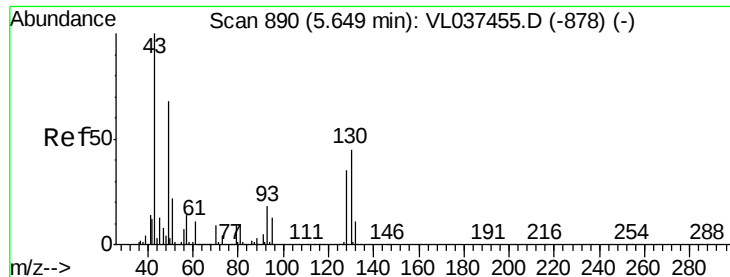
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL037468.D

Acq: 16 Aug 2021 19:21

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DL

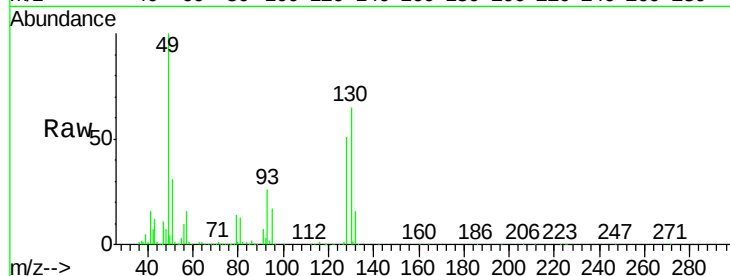
Tot Ion: 49 Resp: 1473198

Ion Ratio Lower Upper

49 100

128 54.6 27.5 82.4

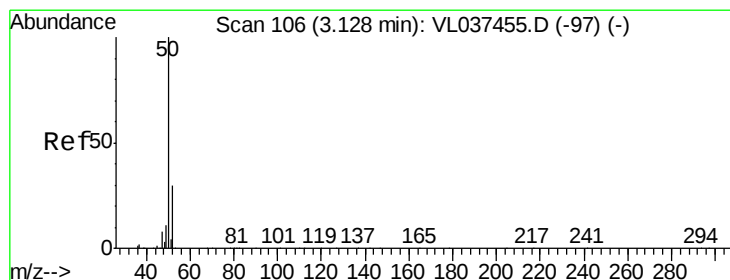
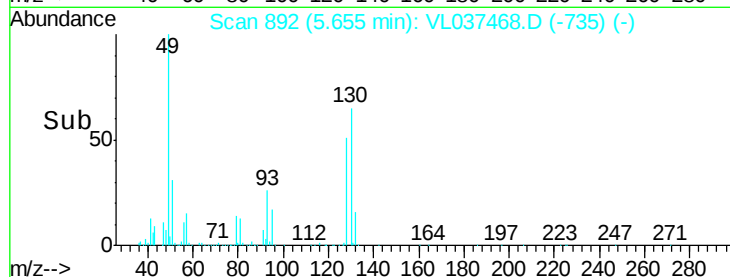
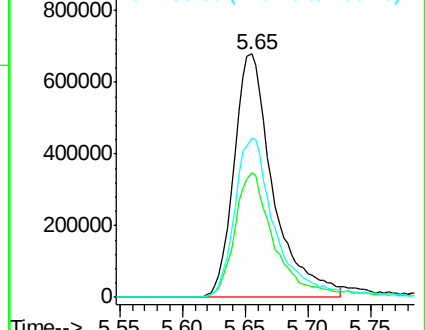
130 71.4 34.0 101.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#4

Chloromethane

Concen: 6.548 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL037468.D

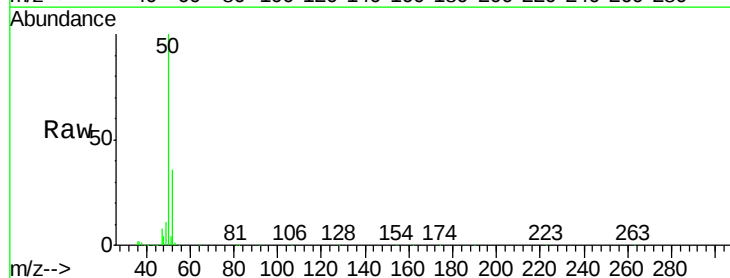
Acq: 16 Aug 2021 19:21

Tgt Ion: 50 Resp: 660066

Ion Ratio Lower Upper

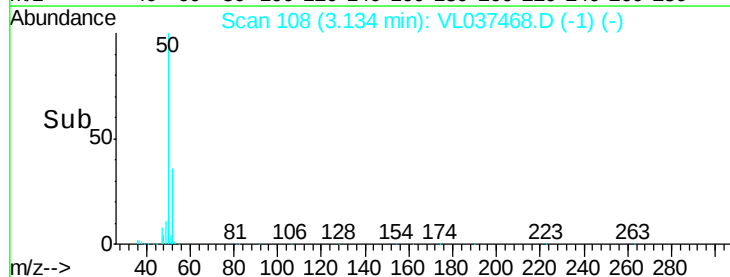
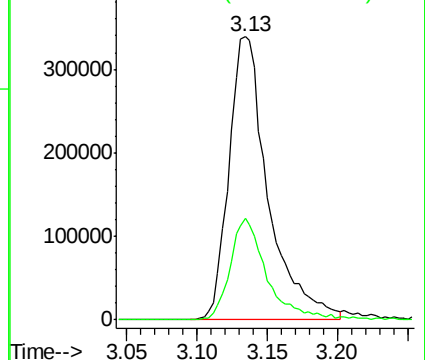
50 100

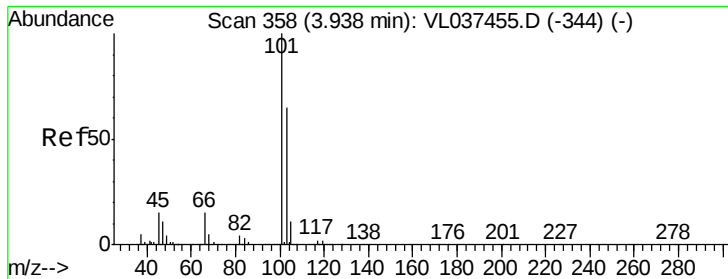
52 35.7 24.0 36.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

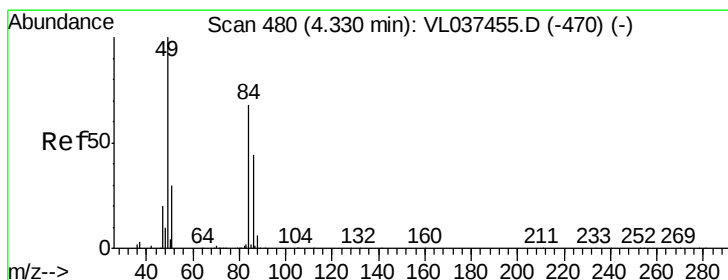
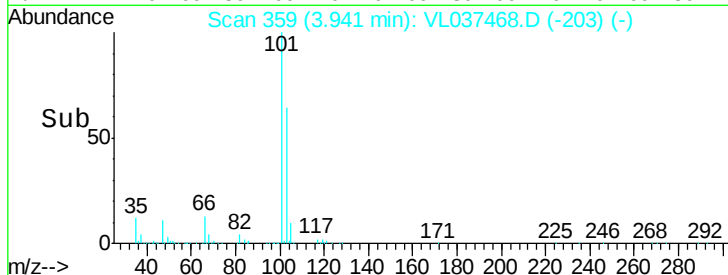
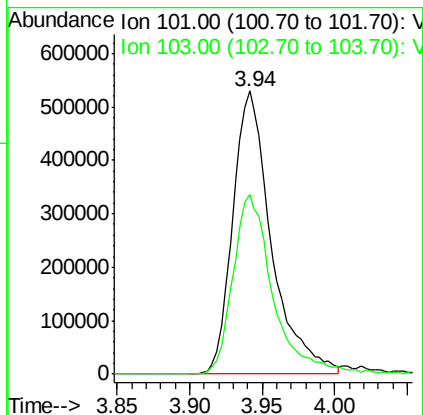
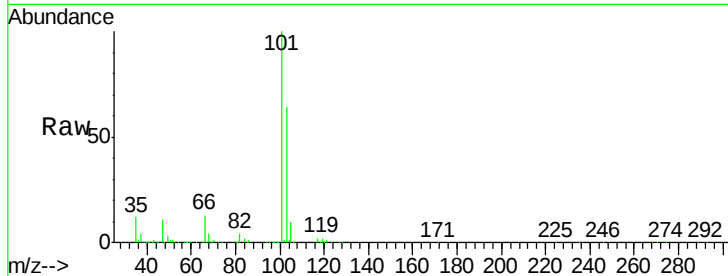




#11
 Trichlorofluoromethane
 Concen: 4.424 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. 0.00 min
 Lab File: VL037468.D
 Acq: 16 Aug 2021 19:21

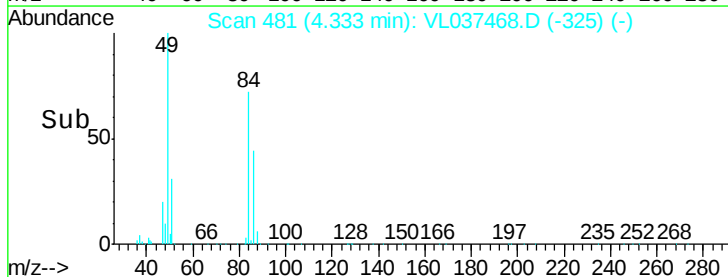
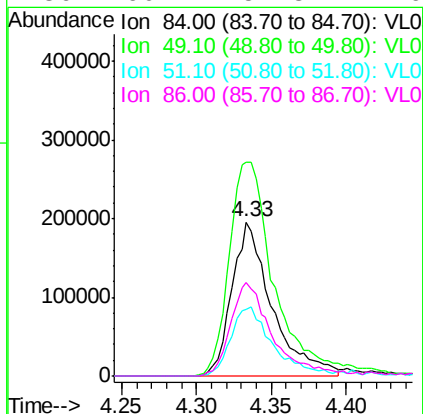
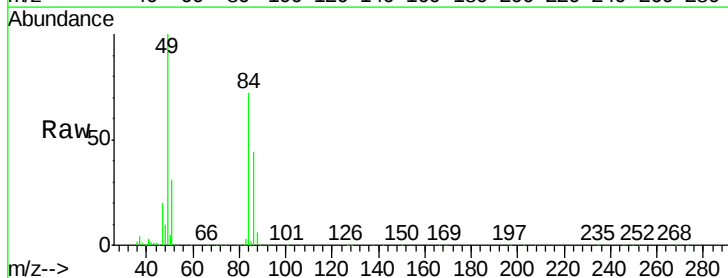
Instrument :
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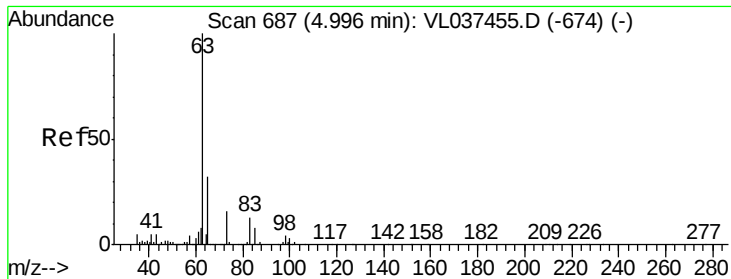
Tot Ion:101 Resp: 981589
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.8 77.6



#20
 Methylene Chloride
 Concen: 4.851 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. 0.00 min
 Lab File: VL037468.D
 Acq: 16 Aug 2021 19:21

Tgt Ion: 84 Resp: 364126
 Ion Ratio Lower Upper
 84 100
 49 138.5 118.2 177.2
 51 43.3 36.6 55.0
 86 60.2 51.8 77.6





#24

1,1-Dichloroethane

Concen: 3.728 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.00 min

Lab File: VL037468.D

Acq: 16 Aug 2021 19:21

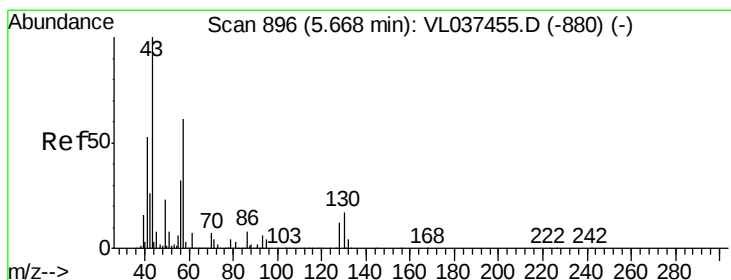
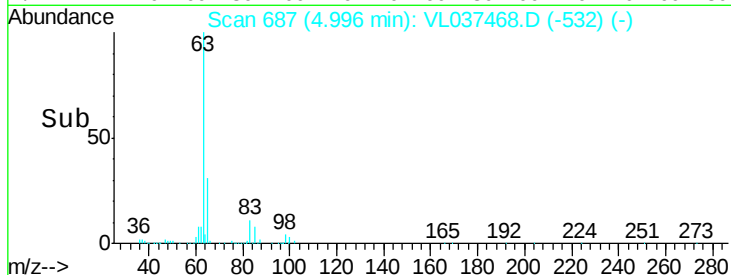
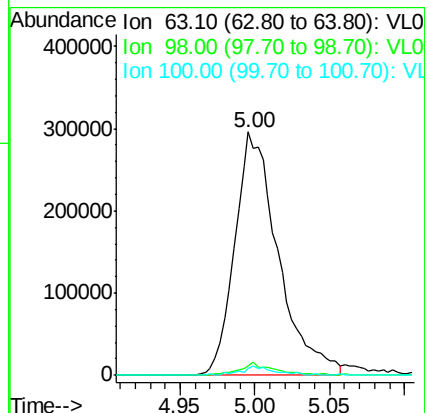
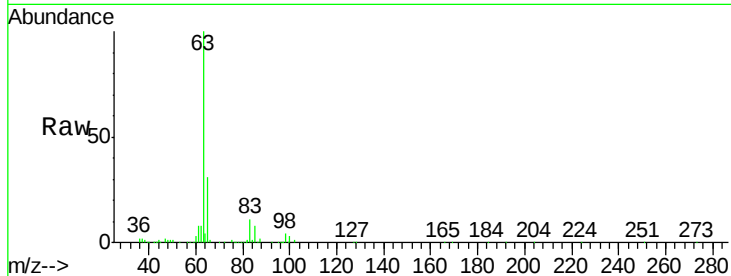
Instrument :

MSVOA_L

ClientSampleId :

E057-1100DL

Tot Ion:	63	Resp:	597613
Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.1	6.3
100	3.0	1.6	4.7



#26

Hexane

Concen: 5.482 ppbv

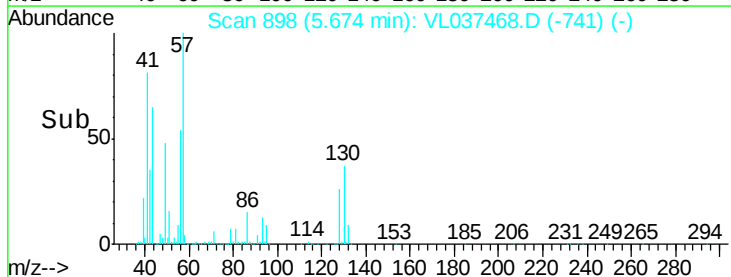
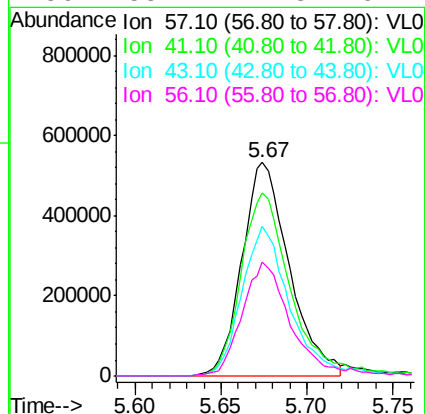
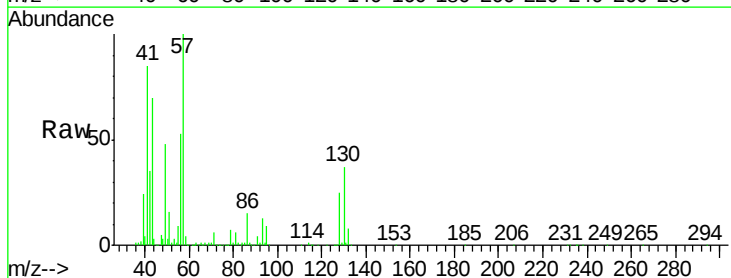
RT: 5.67 min Scan# 898

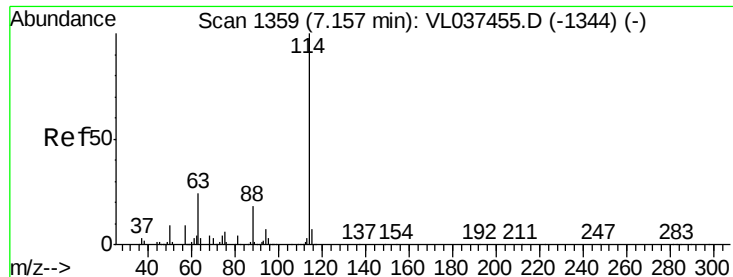
Delta R.T. 0.01 min

Lab File: VL037468.D

Acq: 16 Aug 2021 19:21

Tgt Ion:	57	Resp:	1020099
Ion	Ratio	Lower	Upper
57	100		
41	91.6	72.3	108.5
43	72.4	172.3	258.5#
56	55.7	42.8	64.2

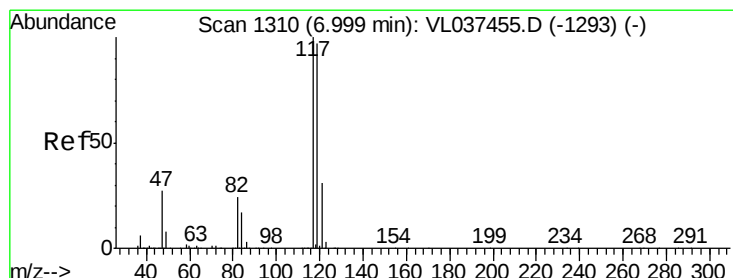
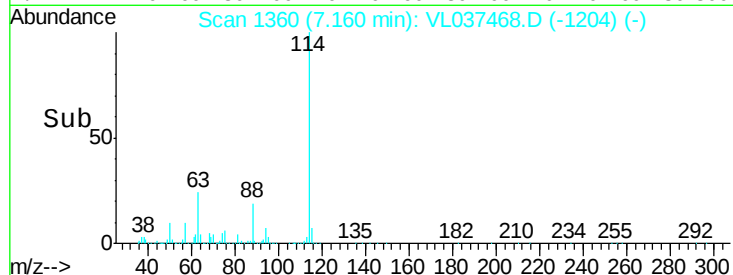
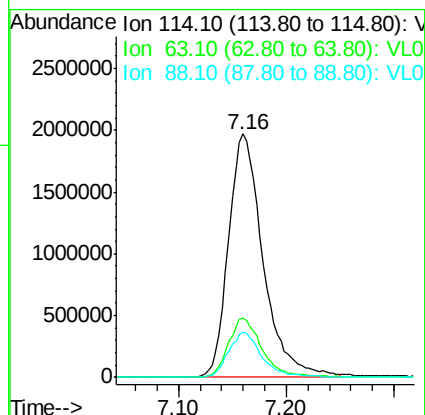
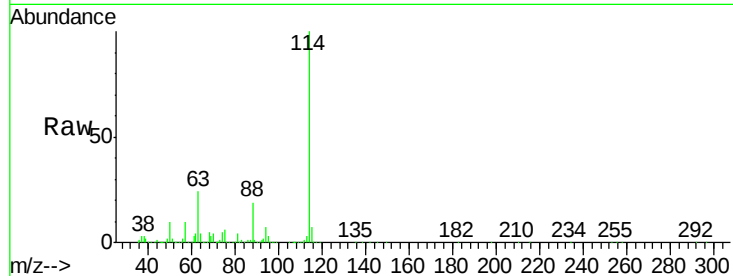




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL037468.D
 Acq: 16 Aug 2021 19:21

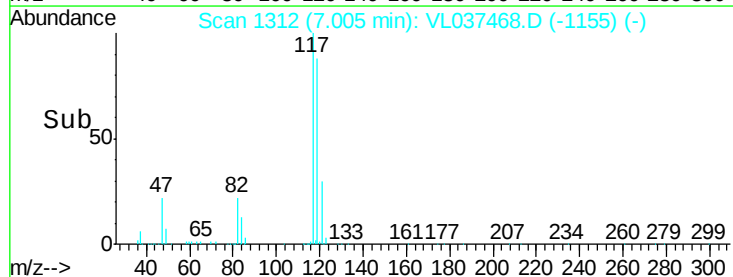
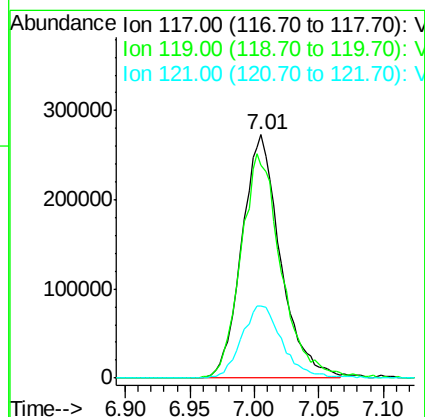
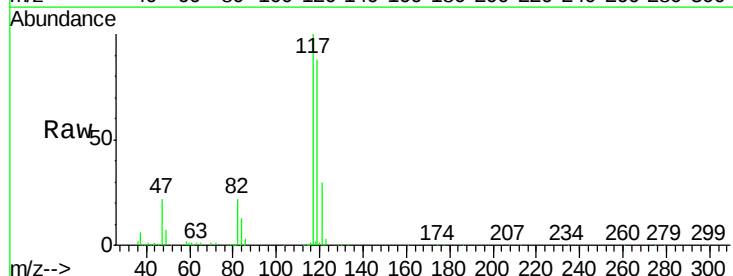
Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DL

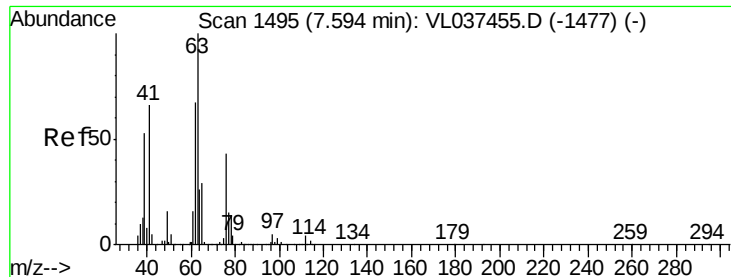
Tot Ion:114 Resp: 4412839
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.3 28.9
 88 18.0 14.2 21.4



#35
 Carbon Tetrachloride
 Concen: 2.184 ppbv
 RT: 7.01 min Scan# 1312
 Delta R.T. 0.01 min
 Lab File: VL037468.D
 Acq: 16 Aug 2021 19:21

Tgt Ion:117 Resp: 569619
 Ion Ratio Lower Upper
 117 100
 119 87.3 77.3 115.9
 121 29.8 25.2 37.8

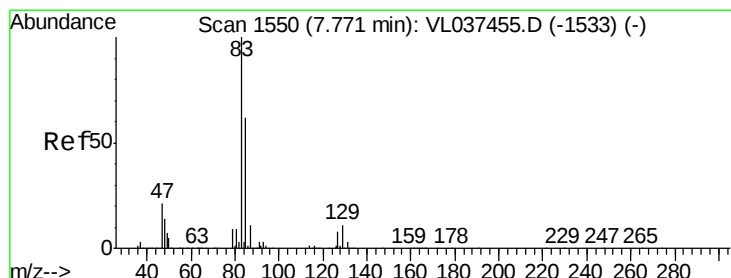
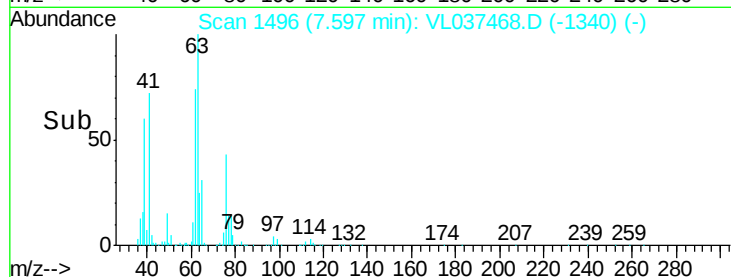
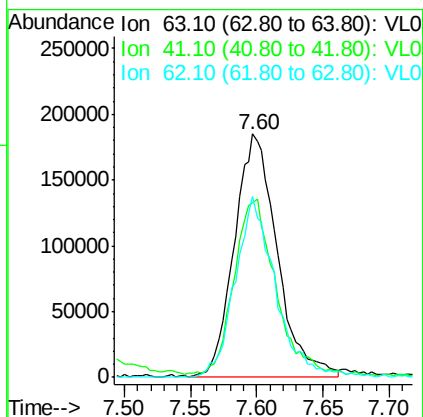
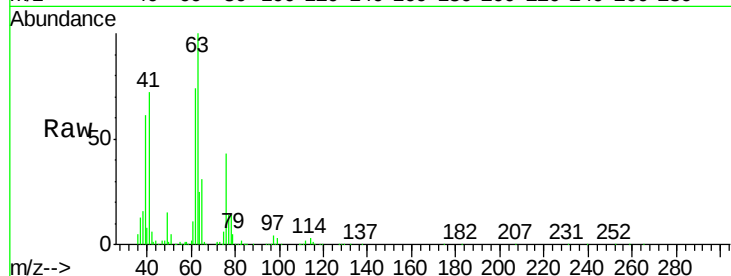




#39
 1,2-Dichloropropane
 Concen: 2.902 ppbv
 RT: 7.60 min Scan# 1496
 Delta R.T. 0.00 min
 Lab File: VL037468.D
 Acq: 16 Aug 2021 19:21

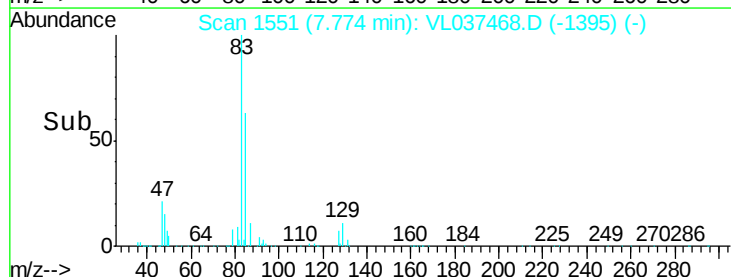
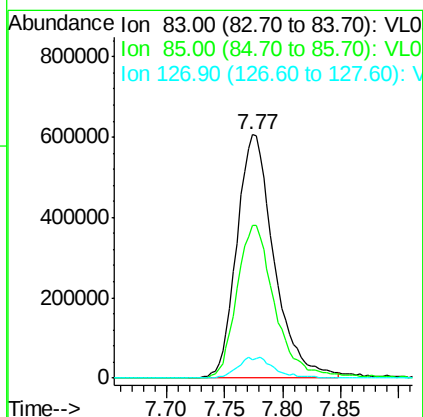
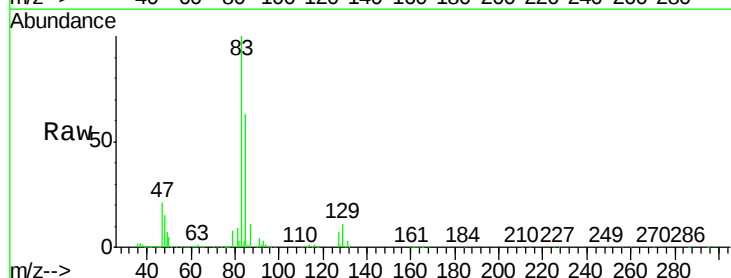
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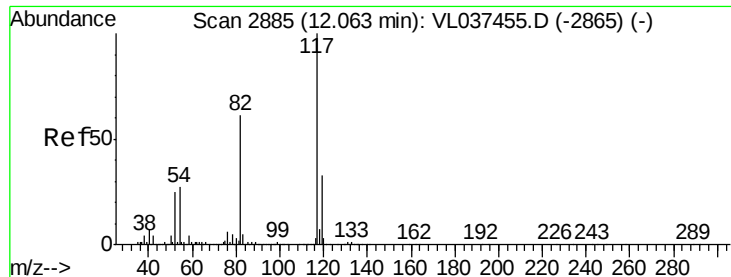
Tot Ion: 63 Resp: 413659
 Ion Ratio Lower Upper
 63 100
 41 70.0 52.4 78.6
 62 74.0 53.6 80.4



#42
 Bromodichloromethane
 Concen: 5.046 ppbv
 RT: 7.77 min Scan# 1551
 Delta R.T. 0.00 min
 Lab File: VL037468.D
 Acq: 16 Aug 2021 19:21

Tgt Ion: 83 Resp: 1355682
 Ion Ratio Lower Upper
 83 100
 85 62.7 49.5 74.3
 127 7.4 6.3 9.5

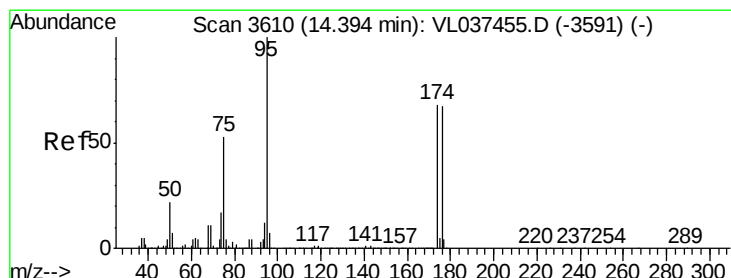
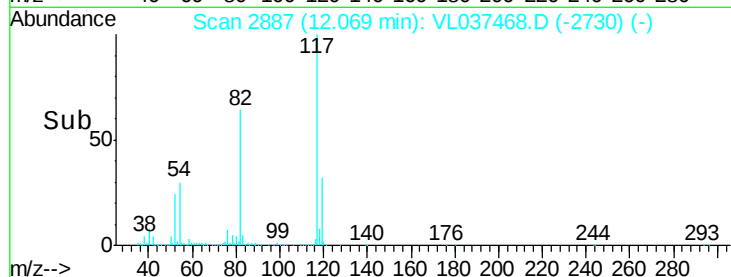
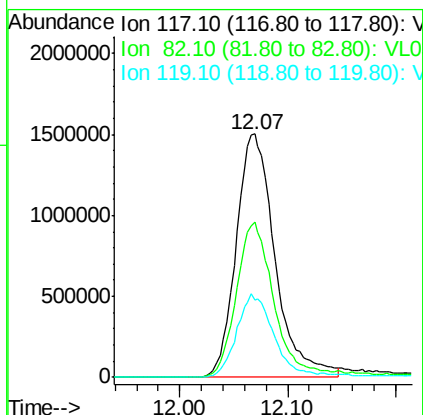
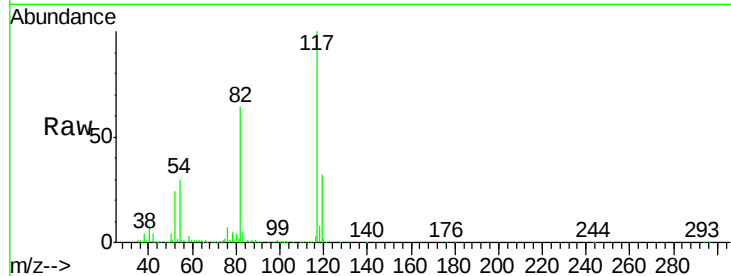




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. 0.01 min
Lab File: VL037468.D
Acq: 16 Aug 2021 19:21

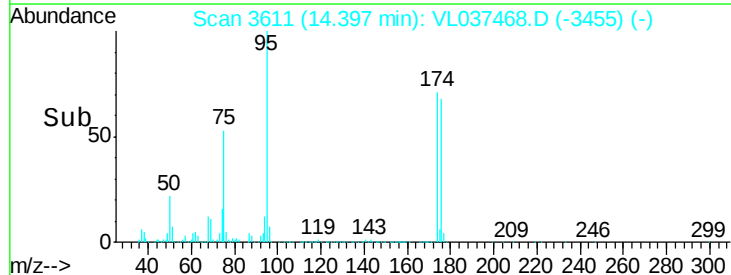
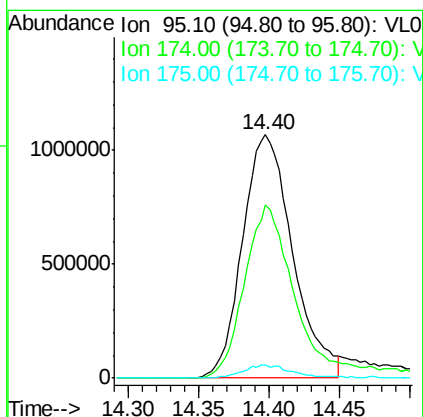
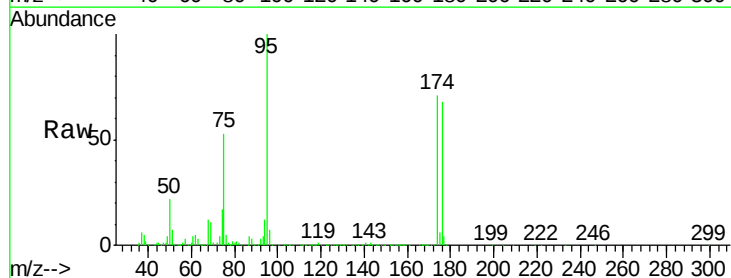
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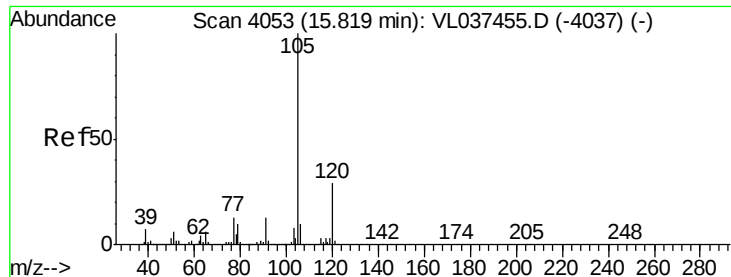
Tot Ion:117 Resp: 3777948
Ion Ratio Lower Upper
117 100
82 65.8 52.9 79.3
119 35.1 24.8 37.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.909 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. 0.00 min
Lab File: VL037468.D
Acq: 16 Aug 2021 19:21

Tgt Ion: 95 Resp: 2659543
Ion Ratio Lower Upper
95 100
174 77.6 59.6 89.4
175 5.7 4.6 7.0





#72

4-Ethyltoluene

Concen: 6.320 ppbv

RT: 15.82 min Scan# 4054

Delta R.T. 0.00 min

Lab File: VL037468.D

Acq: 16 Aug 2021 19:21

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DL

Tot Ion:105 Resp: 3188700

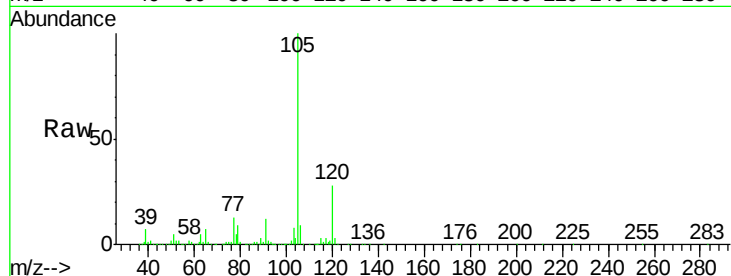
Ion Ratio Lower Upper

105 100

120 30.9 24.7 37.1

91 12.9 9.8 14.8

77 13.6 10.6 15.8

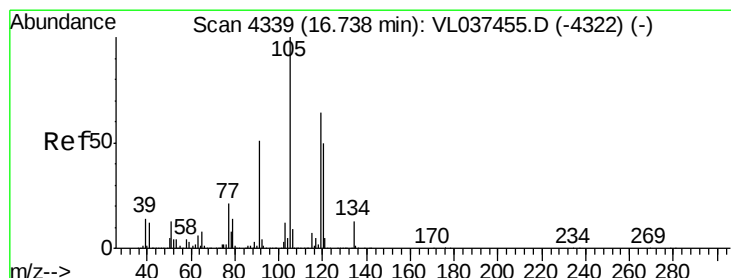
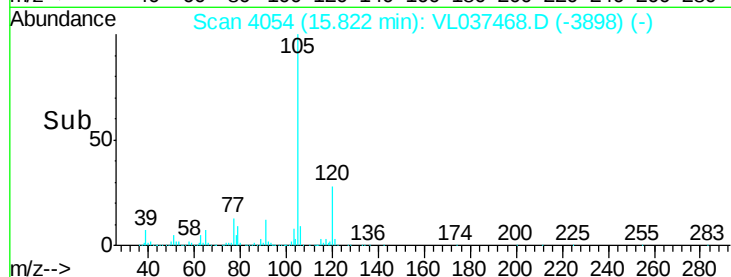
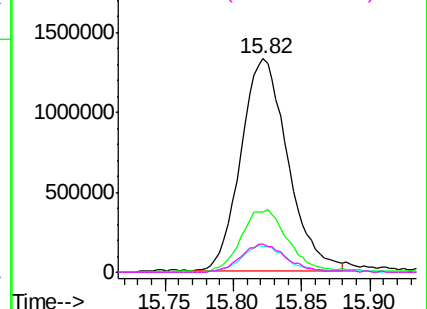


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#74

1,2,4-Trimethylbenzene

Concen: 3.847 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. 0.00 min

Lab File: VL037468.D

Acq: 16 Aug 2021 19:21

Tgt Ion:105 Resp: 1919840

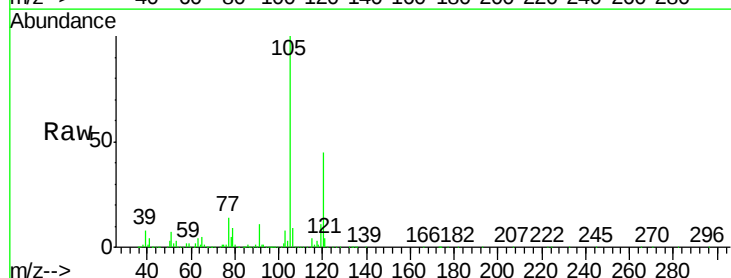
Ion Ratio Lower Upper

105 100

120 44.8 40.4 60.6

91 11.2 44.6 67.0#

77 14.1 17.8 26.6#

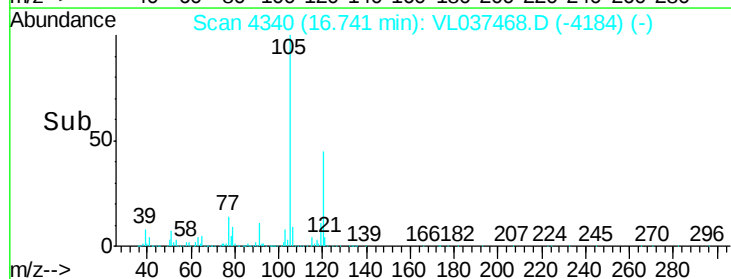
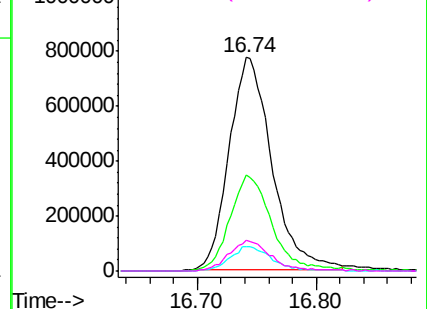


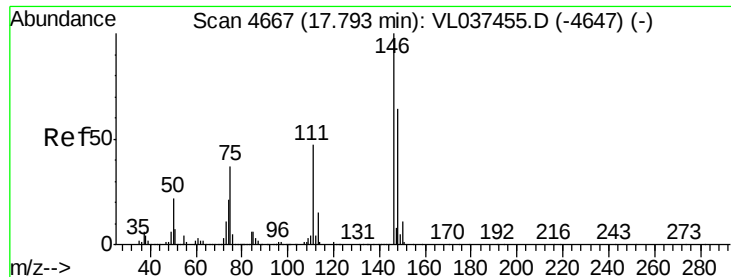
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#77

1,2-Dichlorobenzene

Concen: 3.016 ppbv

RT: 17.80 min Scan# 4669

Delta R.T. 0.01 min

Lab File: VL037468.D

Acq: 16 Aug 2021 19:21

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DL

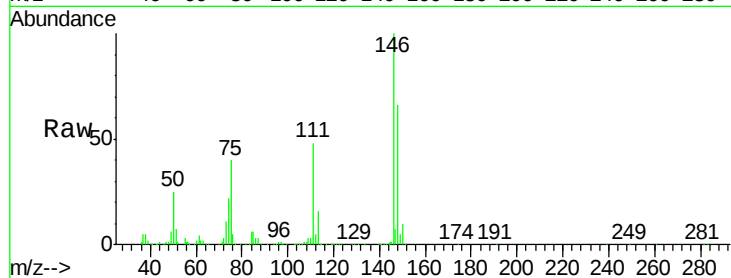
Tot Ion:146 Resp: 892126

Ion Ratio Lower Upper

146 100

111 49.6 23.4 70.3

148 66.8 32.5 97.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

