

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081821\
 Data File : VL037488.D
 Acq On : 18 Aug 2021 12:58
 Operator : SY/AP
 Sample : M2940-15 0.03 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 01:40:35 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	1389358	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4065806	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3334275	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2443682	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

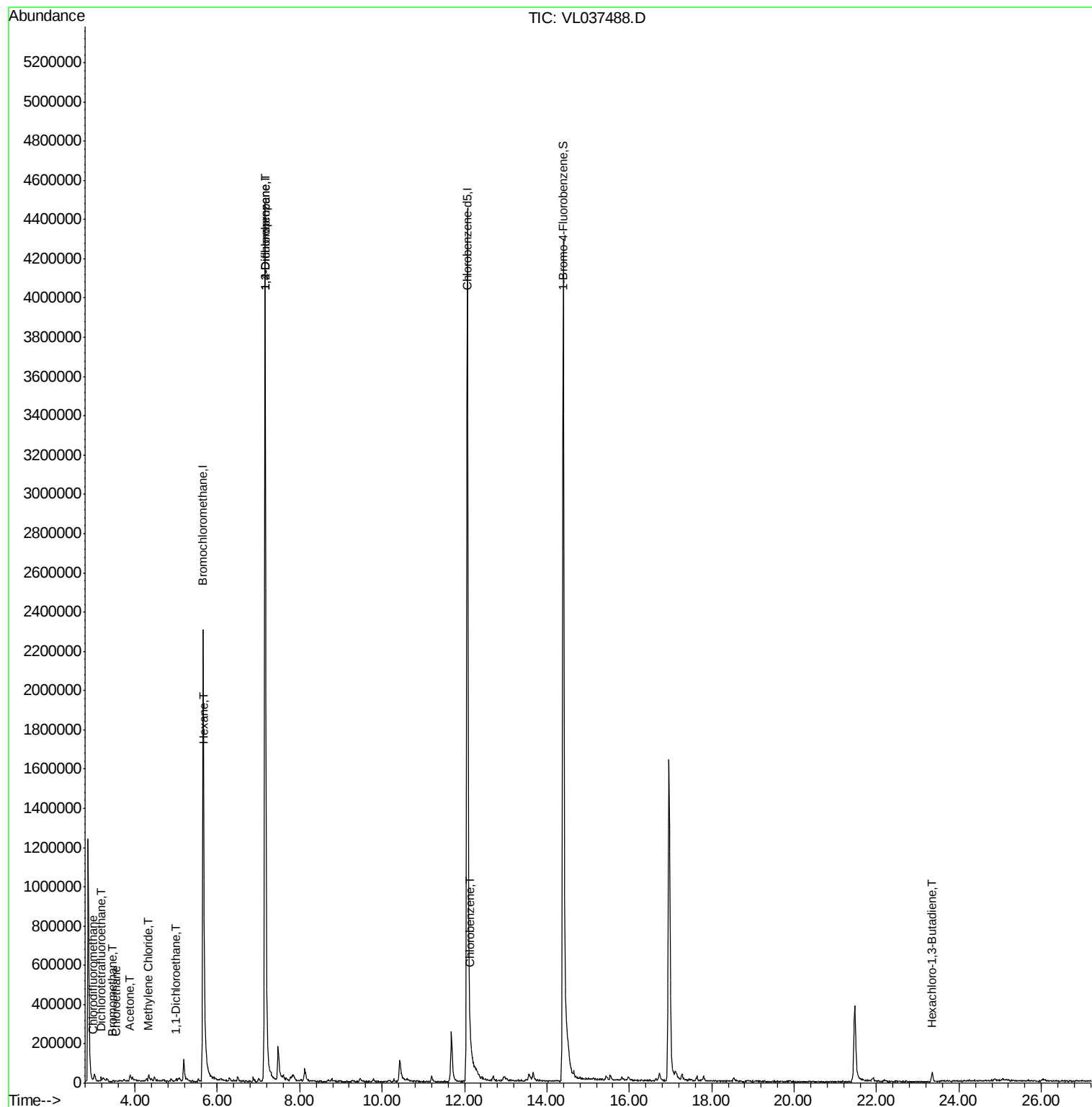
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	13670	0.051	ppbv	95
6) Bromomethane	3.47	94	2121	0.040	ppbv #	27
7) Chloroethane	3.55	64	1114	0.034	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	7145	0.031	ppbv #	13
15) Acetone	3.87	43	23526	0.166	ppbv #	44
20) Methylene Chloride	4.33	84	4063	0.057	ppbv	95
24) 1,1-Dichloroethane	5.00	63	4669	0.031	ppbv #	89
26) Hexane	5.68	57	5839	0.033	ppbv #	1
39) 1,2-Dichloropropane	7.16	63	921206	7.014	ppbv #	29
57) Chlorobenzene	12.13	112	9722	0.035	ppbv #	31
78) Hexachloro-1,3-Butadiene	23.36	225	7123	0.033	ppbv #	27

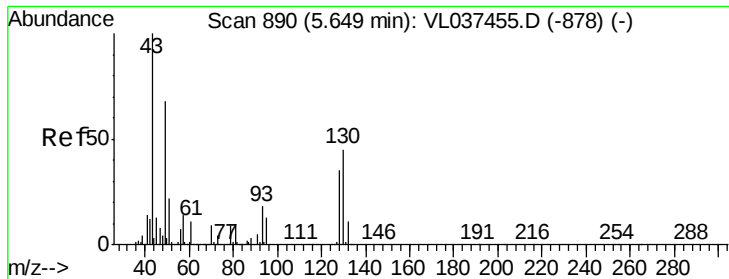
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Instrument :

MSVOA_L

ClientSampleId :

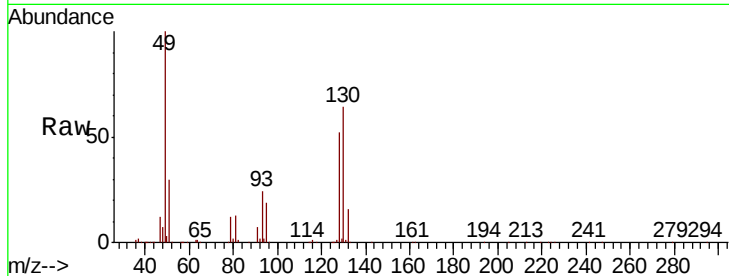
Tot Ion: 49 Resp: 1389358

Ion Ratio Lower Upper

49 100

128 56.6 27.5 82.4

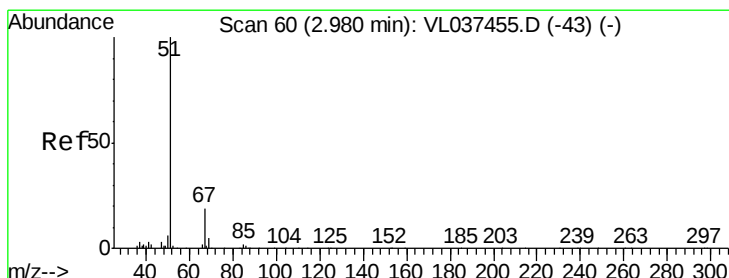
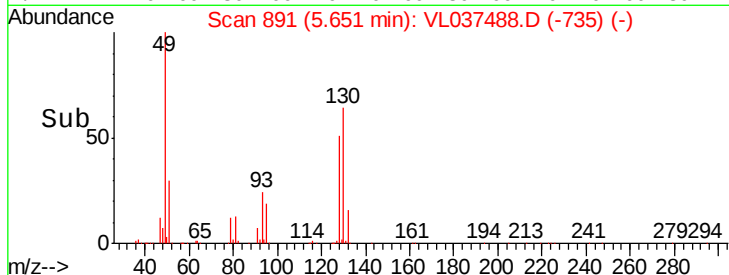
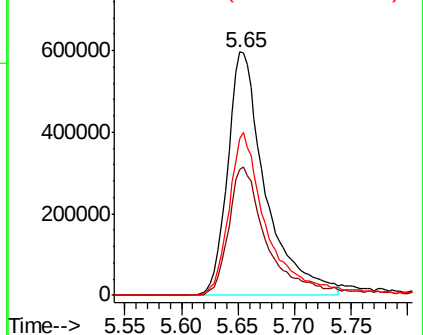
130 68.7 34.0 101.8



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



#3

Chlorodifluoromethane

Concen: 0.051 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL037488.D

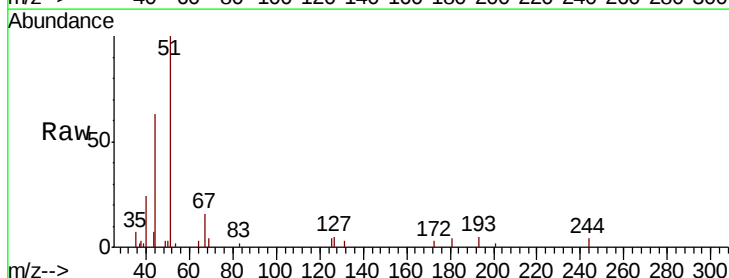
Acq: 18 Aug 2021 12:58

Tgt Ion: 51 Resp: 13670

Ion Ratio Lower Upper

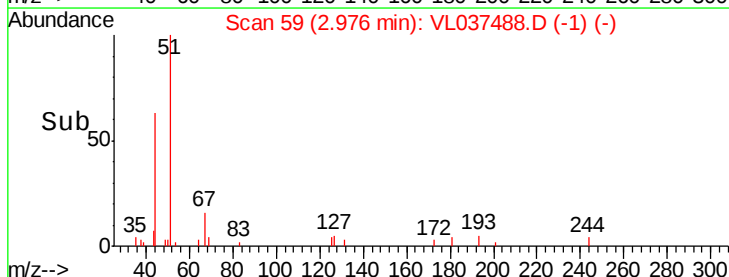
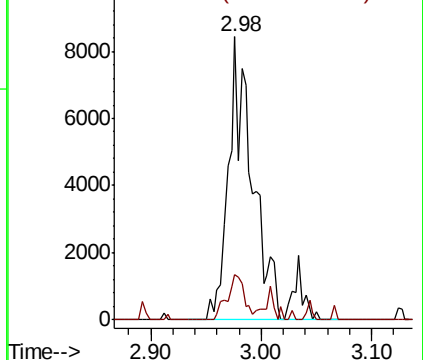
51 100

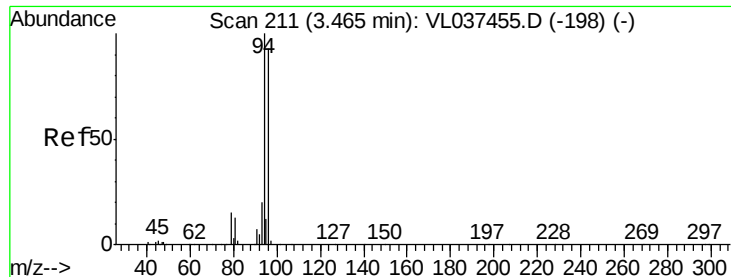
67 15.3 14.2 21.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#6

Bromomethane

Concen: 0.040 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Instrument :

MSVOA_L

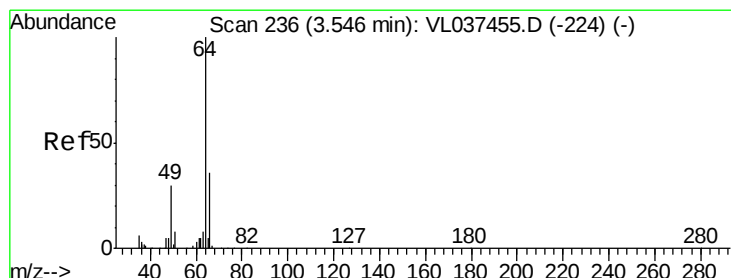
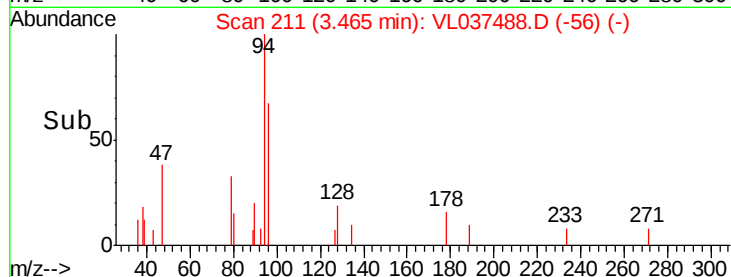
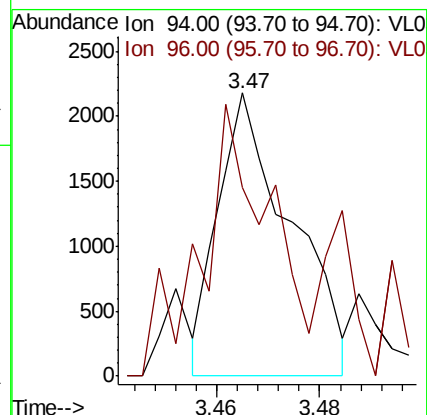
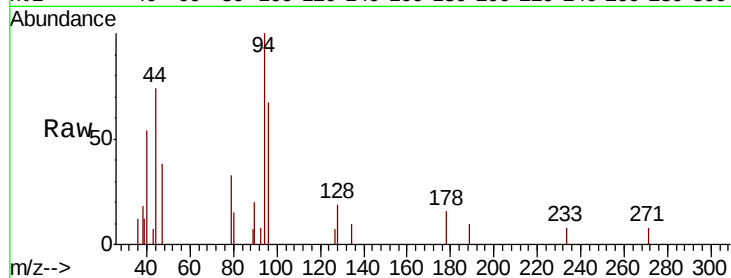
ClientSampleId :

Tot Ion: 94 Resp: 2121

Ion Ratio Lower Upper

94 100

96 23.0 74.5 111.7#



#7

Chloroethane

Concen: 0.034 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL037488.D

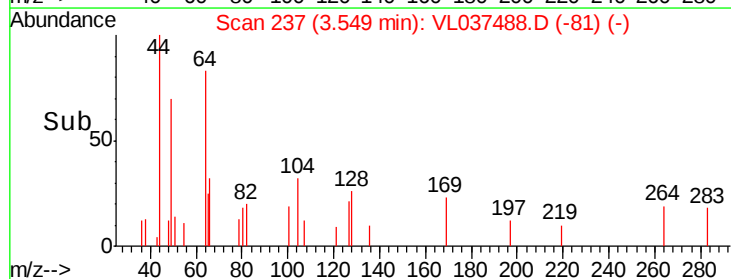
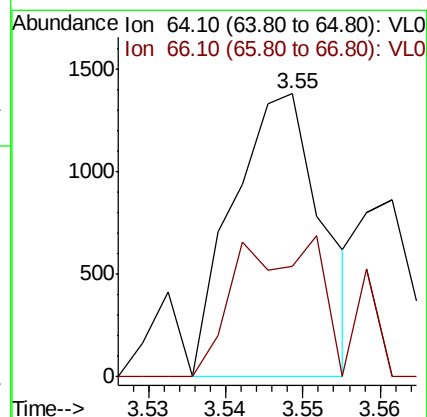
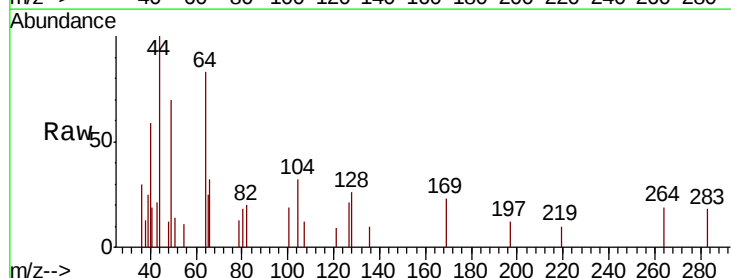
Acq: 18 Aug 2021 12:58

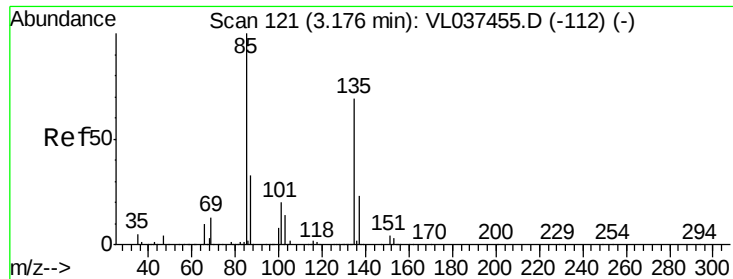
Tgt Ion: 64 Resp: 1114

Ion Ratio Lower Upper

64 100

66 39.1 28.6 43.0





#8

Dichlorotetrafluoroethane

Concen: 0.031 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Instrument :

MSVOA_L

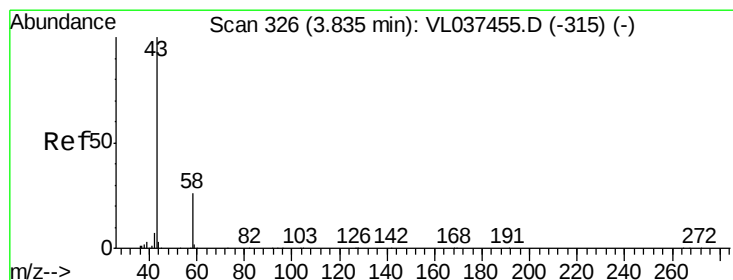
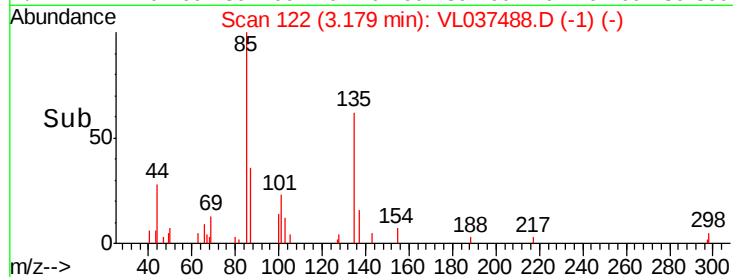
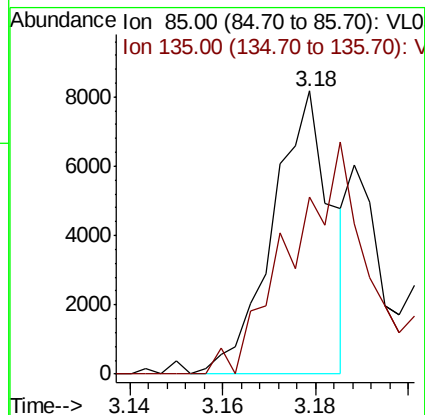
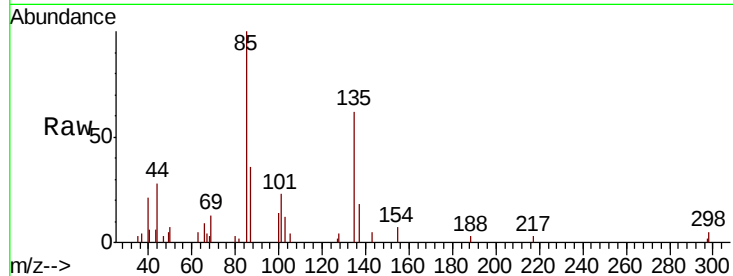
ClientSampleId :

Tot Ion: 85 Resp: 7145

Ion Ratio Lower Upper

85 100

135 0.0 58.8 88.2#



#15

Acetone

Concen: 0.166 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.04 min

Lab File: VL037488.D

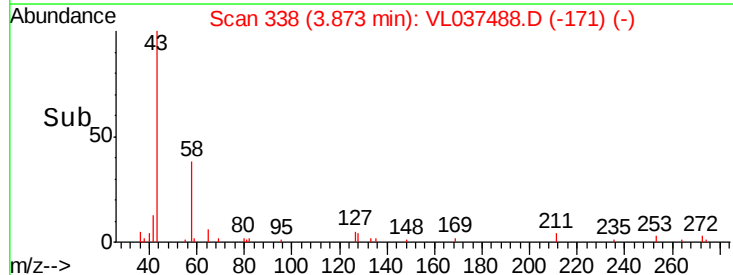
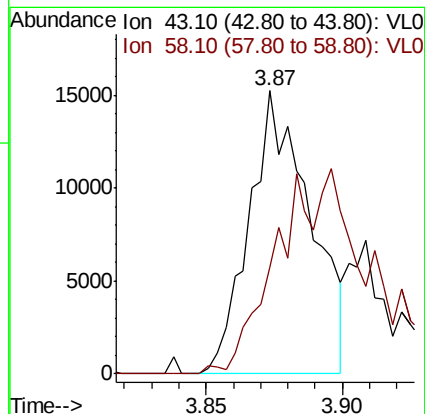
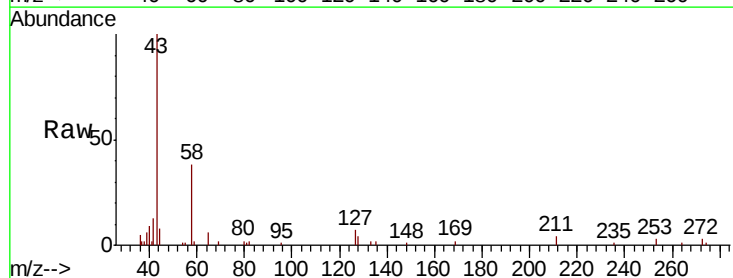
Acq: 18 Aug 2021 12:58

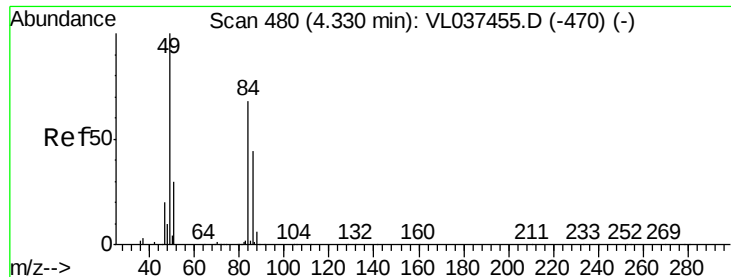
Tgt Ion: 43 Resp: 23526

Ion Ratio Lower Upper

43 100

58 0.0 24.8 37.2#

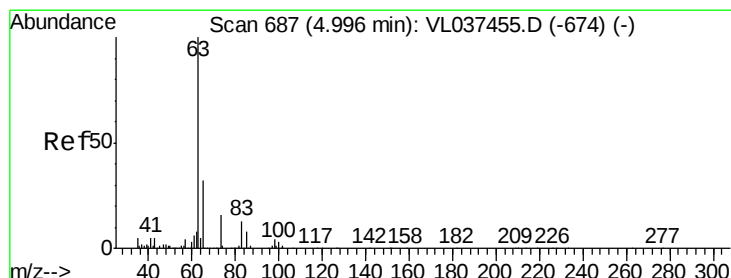
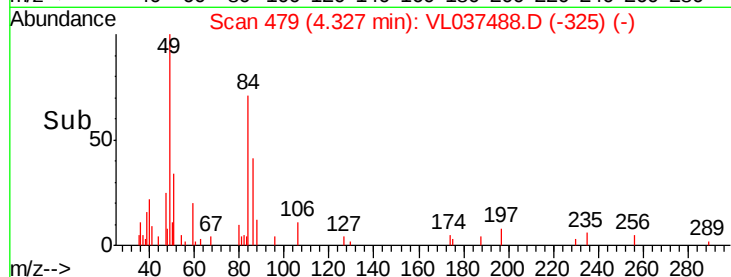
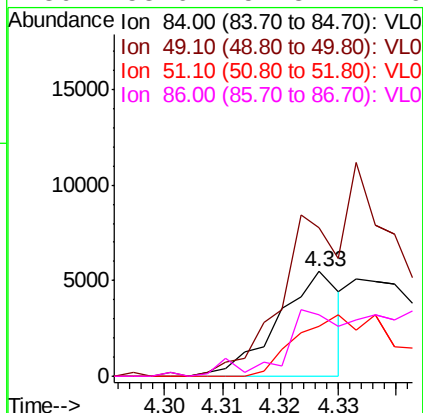
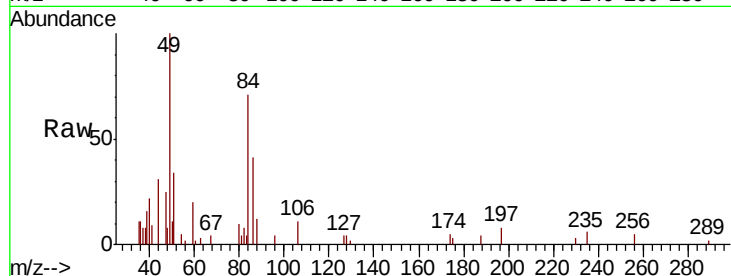




#20
Methvlene Chloride
Concen: 0.057 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037488.D
Acq: 18 Aug 2021 12:58

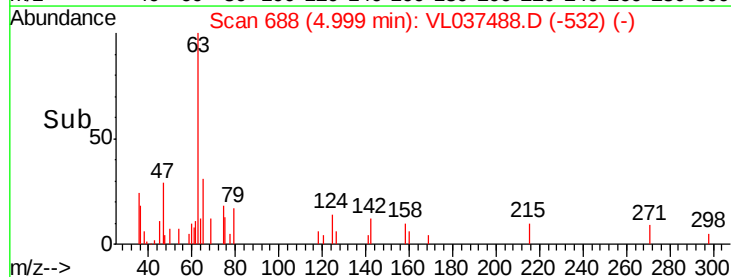
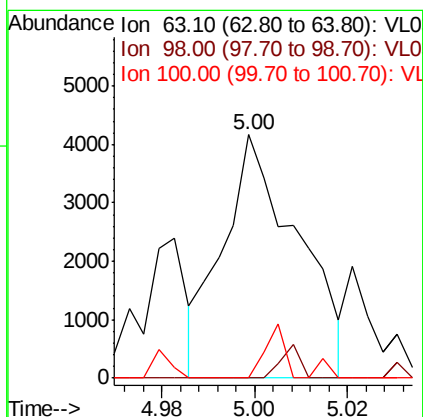
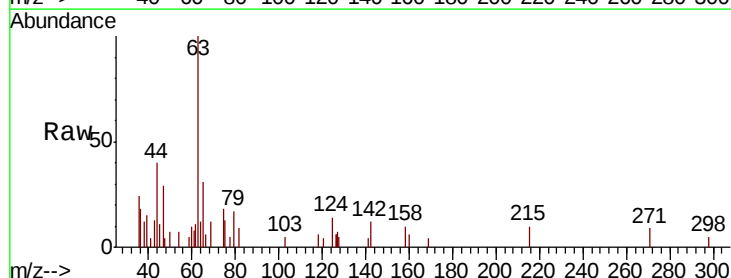
Instrument :
MSVOA_L
ClientSampled :

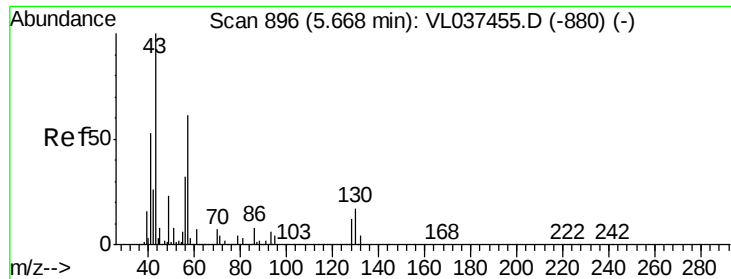
Tot Ion:	84	Resp:	4063
Ion	Ratio	Lower	Upper
84	100		
49	141.3	118.2	177.2
51	48.0	36.6	55.0
86	58.6	51.8	77.6



#24
1,1-Dichloroethane
Concen: 0.031 ppbv
RT: 5.00 min Scan# 688
Delta R.T. 0.00 min
Lab File: VL037488.D
Acq: 18 Aug 2021 12:58

Tgt Ion:	63	Resp:	4669
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.3#
100	0.0	1.6	4.7#

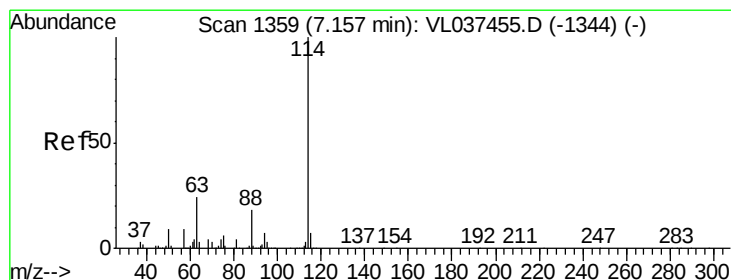
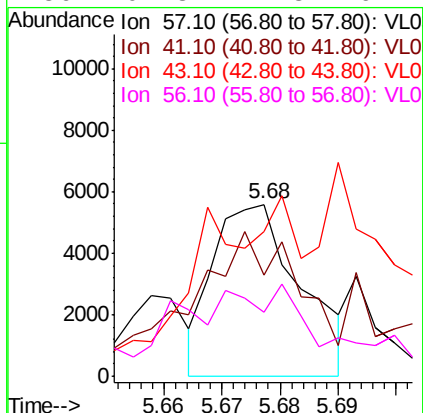
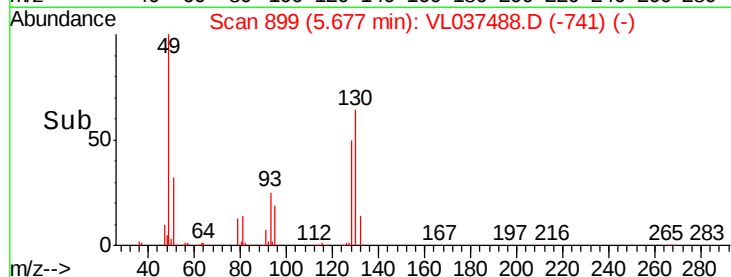
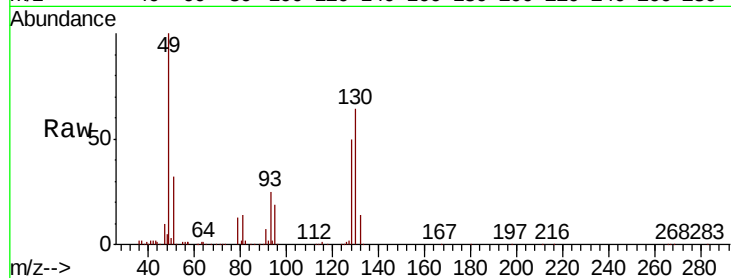




#26
Hexane
Concen: 0.033 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL037488.D
Acq: 18 Aug 2021 12:58

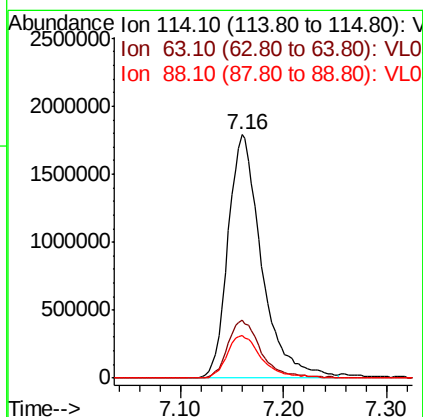
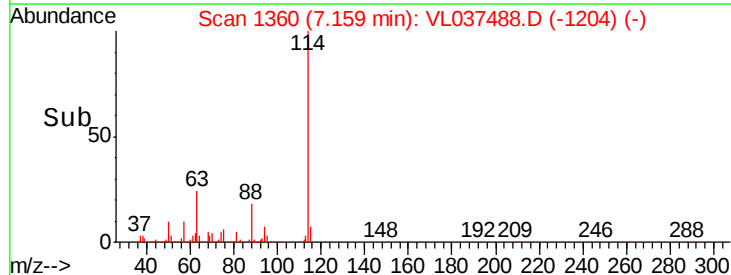
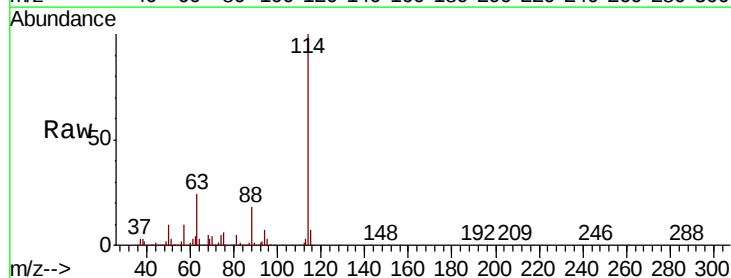
Instrument :
MSVOA_L
ClientSampleId :

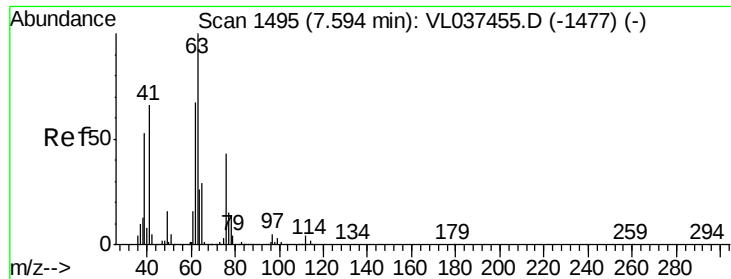
Tot Ion: 57 Resp: 5839
Ion Ratio Lower Upper
57 100
41 154.8 72.3 108.5#
43 0.0 172.3 258.5#
56 102.3 42.8 64.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037488.D
Acq: 18 Aug 2021 12:58

Tgt Ion: 114 Resp: 4065806
Ion Ratio Lower Upper
114 100
63 24.1 19.3 28.9
88 18.2 14.2 21.4

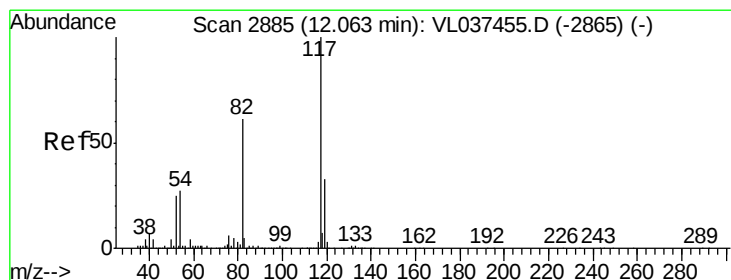
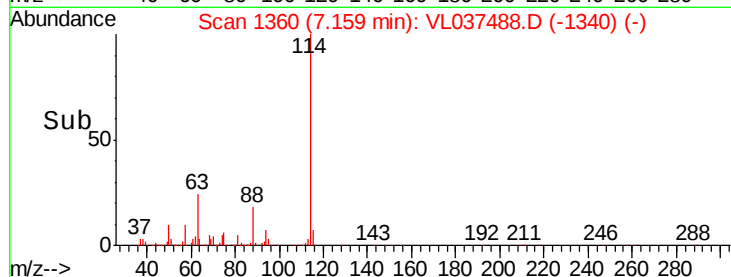
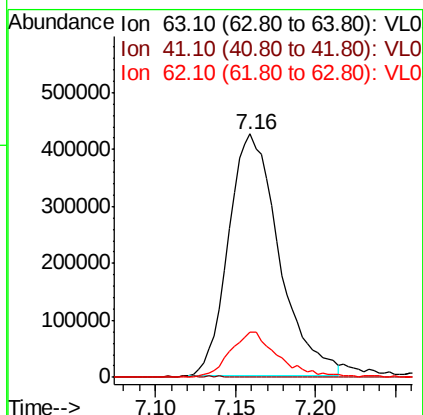
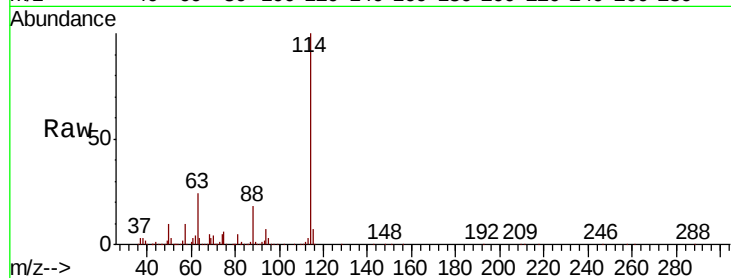




#39
 1,2-Dichloropropane
 Concen: 7.014 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.43 min
 Lab File: VL037488.D
 Acq: 18 Aug 2021 12:58

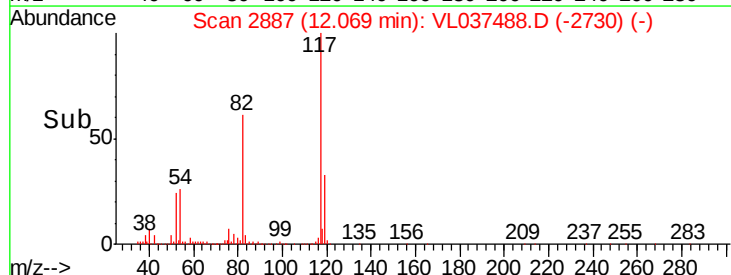
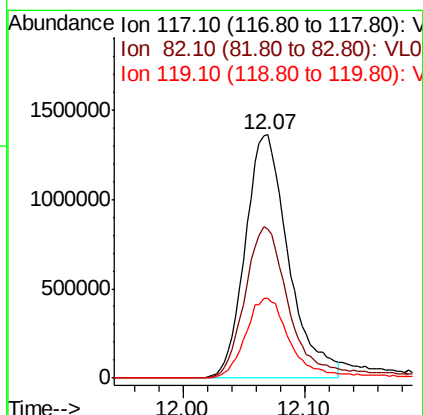
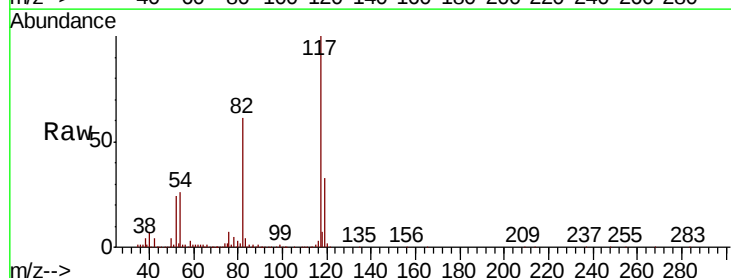
Instrument :
 MSVOA_L
 ClientSampleId :

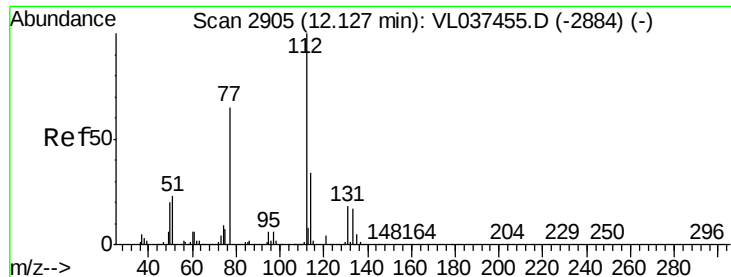
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.4	78.6#
62	18.6	53.6	80.4#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min Scan# 2887
 Delta R.T. 0.01 min
 Lab File: VL037488.D
 Acq: 18 Aug 2021 12:58

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.5	52.9	79.3
119	34.8	24.8	37.2





#57

Chlorobenzene

Concen: 0.035 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. 0.01 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Instrument :

MSVOA_L

ClientSampleId :

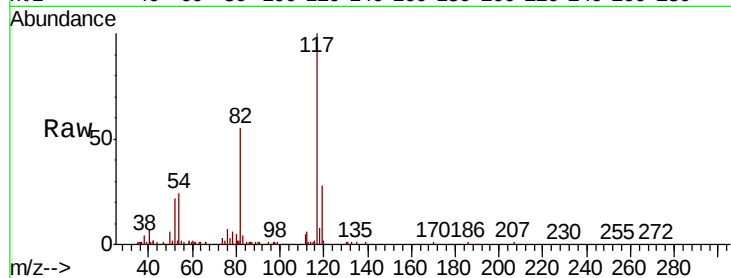
Tot Ion:112 Resp: 9722

Ion Ratio Lower Upper

112 100

77 3.6 51.6 77.4#

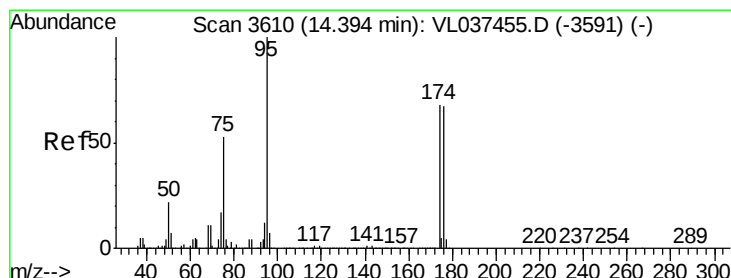
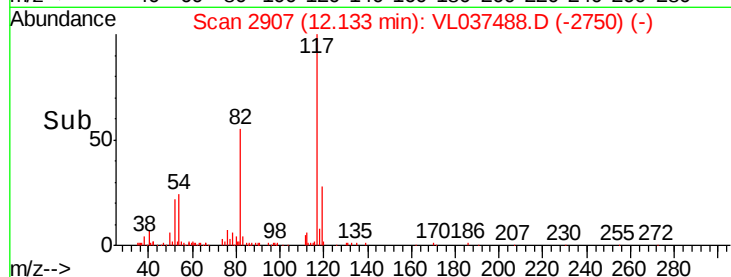
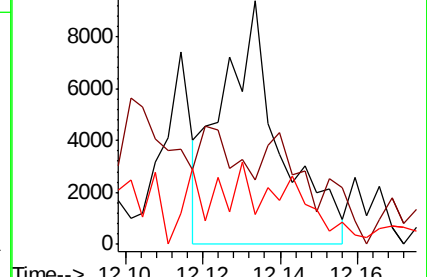
114 3.6 30.7 37.5#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.316 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

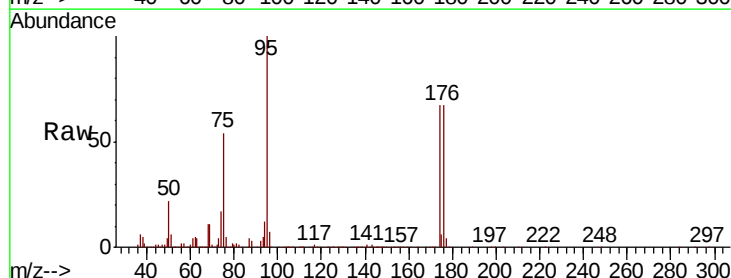
Tgt Ion: 95 Resp: 2443682

Ion Ratio Lower Upper

95 100

174 74.3 59.6 89.4

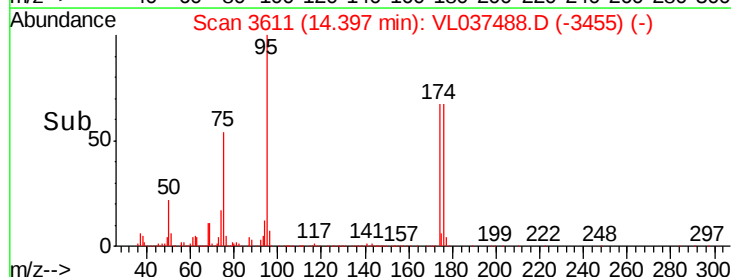
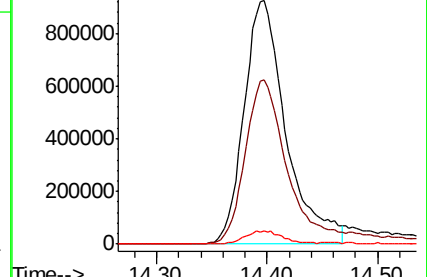
175 5.2 4.6 7.0

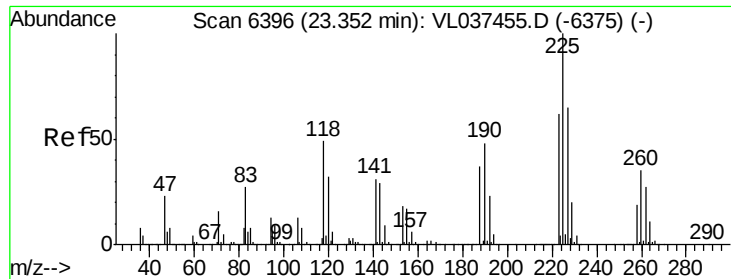


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.033 ppbv

RT: 23.36 min Scan# 6399

Delta R.T. 0.01 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:225 Resp: 7123

Ion Ratio Lower Upper

225 100

223 137.1 51.4 77.0#

227 108.6 52.9 79.3#

