

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV051820\
 Data File : VV016104.D
 Acq On : 18 May 2020 16:14
 Operator : SY/MD
 Sample : L2655-05
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 19 04:50:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM051820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue May 19 04:04:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	292555	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	290651	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	137505	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	100182	47.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.96%
7) Chloroethane-d5	1.58	69	91697	48.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.98%
11) 1,1-Dichloroethene-d2	2.12	63	146296	36.67	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.34%
21) 2-Butanone-d5	3.93	46	140607	110.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.50%
24) Chloroform-d	4.38	84	186478	46.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.34%
26) 1,2-Dichloroethane-d4	5.06	65	142072	51.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.32%
32) Benzene-d6	5.08	84	389482	48.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.74%
36) 1,2-Dichloropropane-d6	6.10	67	124260	49.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.56%
41) Toluene-d8	7.34	98	358127	48.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.30%
43) trans-1,3-Dichloropropene-	7.64	79	57416	45.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.82%
47) 2-Hexanone-d5	8.12	63	89016	108.44	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.44%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	152729	48.14	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.28%
64) 1,2-Dichlorobenzene-d4	11.65	152	139241	51.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.54	64	1249	0.825	ug/L #	59
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1543	0.824	ug/L #	21
12) 1,1-Dichloroethene	2.12	96	1243	0.723	ug/L #	1
13) Acetone	2.20	43	9532	7.694	ug/L #	33
25) Chloroform	4.41	83	13845	3.397	ug/L	95
35) Methylcyclohexane	6.10	83	31605	9.493	ug/L #	16
39) cis-1,3-Dichloropropene	7.01	75	4266	1.266	ug/L #	66
48) 2-Hexanone	8.12	43	12737	5.986	ug/L #	79
51) Chlorobenzene	8.90	112	59647	10.285	ug/L	98
59) 1,2,3-Trichloropropane	11.21	75	3469	1.306	ug/L #	43
62) 1,3-Dichlorobenzene	11.21	146	9680	2.267	ug/L	97
63) 1,4-Dichlorobenzene	11.30	146	101430	23.225	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	424920	98.560	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.67	75	1149	1.725	ug/L #	6
67) 1,3,5-Trichlorobenzene	13.28	180	84907	28.793	ug/L	98
68) 1,2,4-trichlorobenzene	13.28	180	84907	32.061	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	71694	26.717	ug/L	98

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QLast Update : Tue May 19 04:04:01 2020
Response via : Initial Calibration

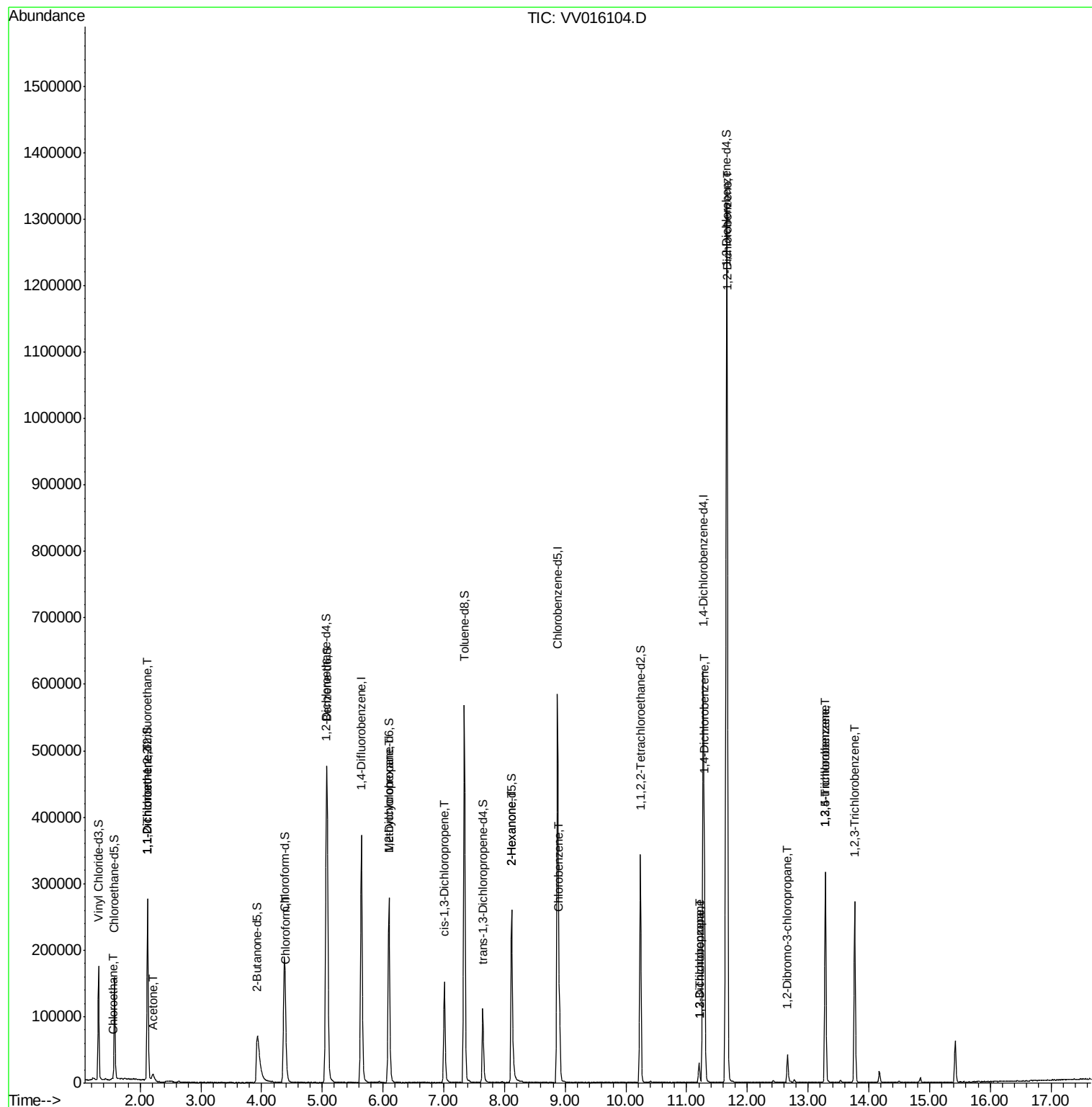
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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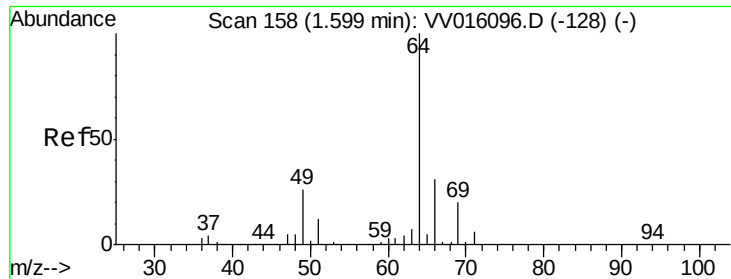
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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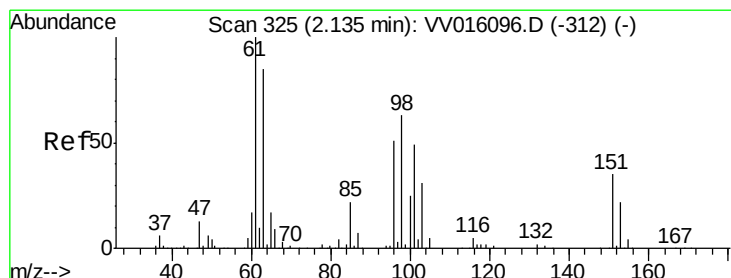
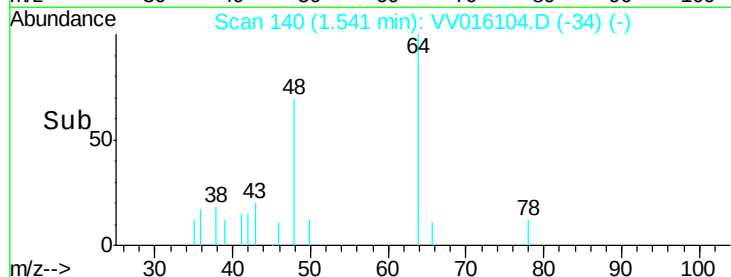
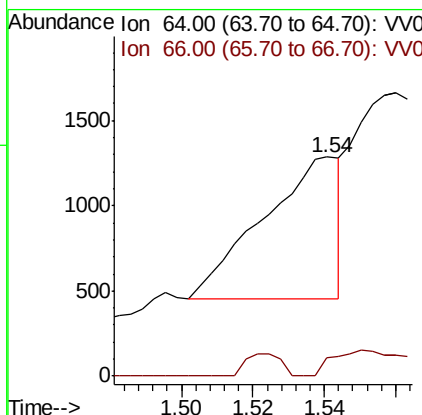
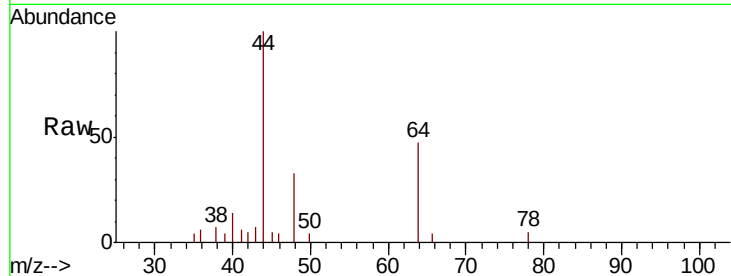




#8
Chloroethane
Concen: 0.825 ug/L
RT: 1.54 min Scan# 140
Delta R.T. -0.06 min
Lab File: VV016104.D
Acq: 18 May 2020 16:14

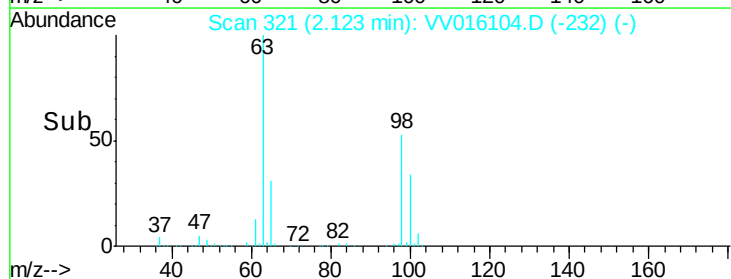
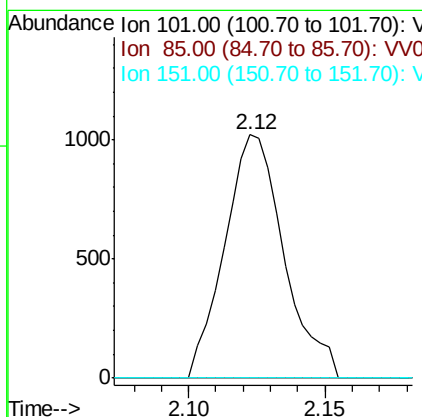
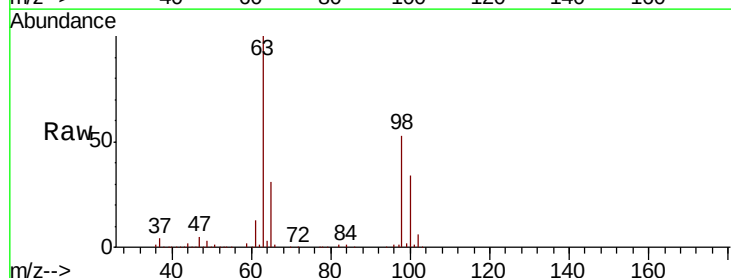
Instrument :
MSVOA_V
ClientSampleId :

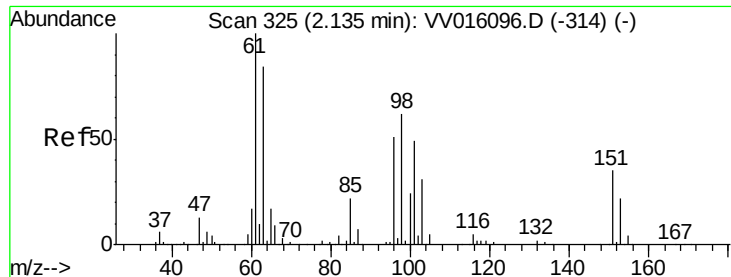
Tot Ion: 64 Resp: 1249
Ion Ratio Lower Upper
64 100
66 8.6 22.0 40.8#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.824 ug/L
RT: 2.12 min Scan# 321
Delta R.T. -0.01 min
Lab File: VV016104.D
Acq: 18 May 2020 16:14

Tgt Ion: 101 Resp: 1543
Ion Ratio Lower Upper
101 100
85 0.0 36.2 54.4#
151 0.0 56.9 85.3#





#12

1,1-Dichloroethene

Concen: 0.723 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV016104.D

Acq: 18 May 2020 16:14

Instrument :
MSVOA_V
ClientSampleId :

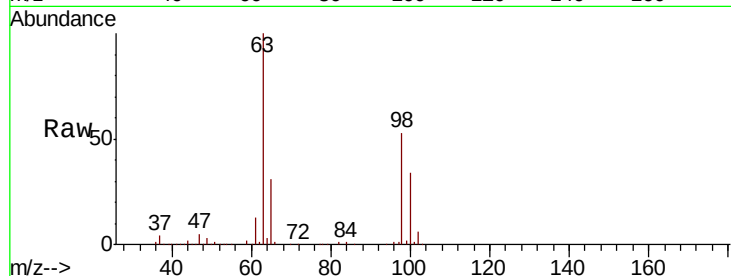
Tot Ion: 96 Resp: 1243

Ion Ratio Lower Upper

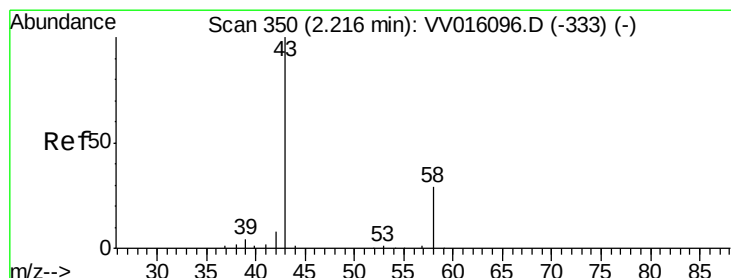
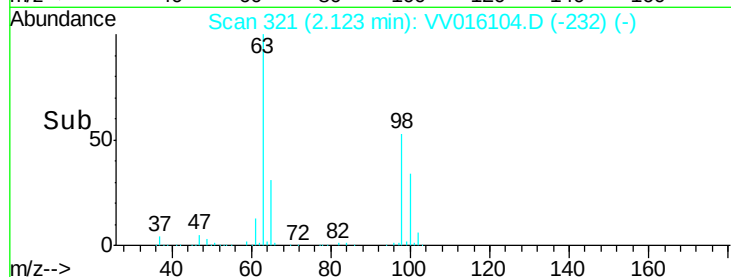
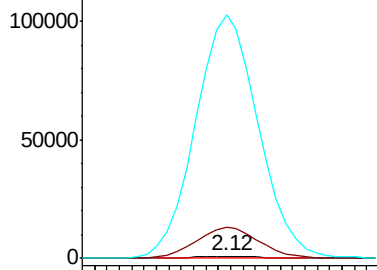
96 100

61 1529.1 136.8 254.2#

63 11841.7 116.6 216.5#



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 63.00 (62.70 to 63.70): VV0



#13

Acetone

Concen: 7.694 ug/L

RT: 2.20 min Scan# 346

Delta R.T. -0.01 min

Lab File: VV016104.D

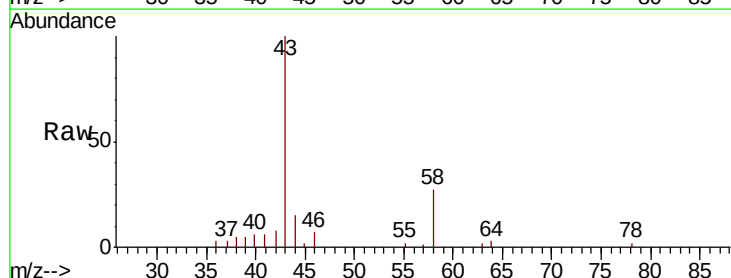
Acq: 18 May 2020 16:14

Tgt Ion: 43 Resp: 9532

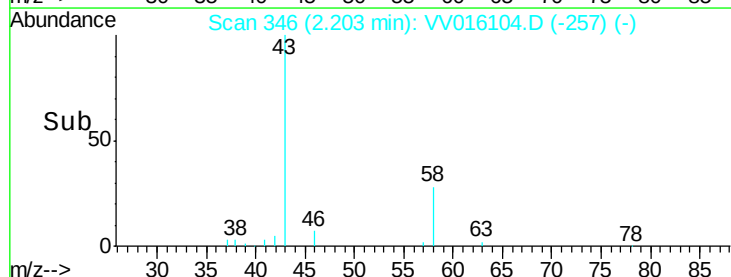
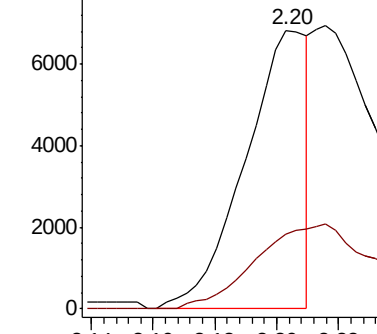
Ion Ratio Lower Upper

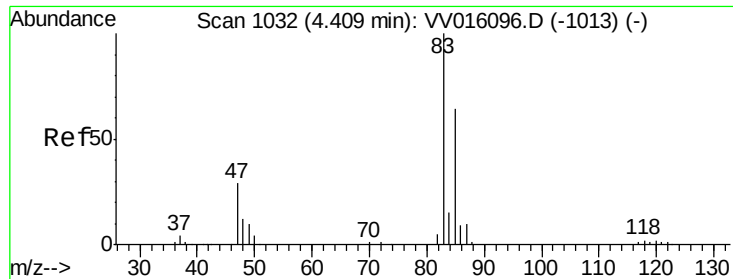
43 100

58 64.7 0.0 57.8#



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0

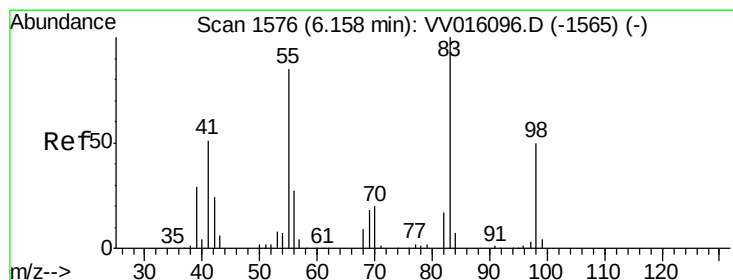
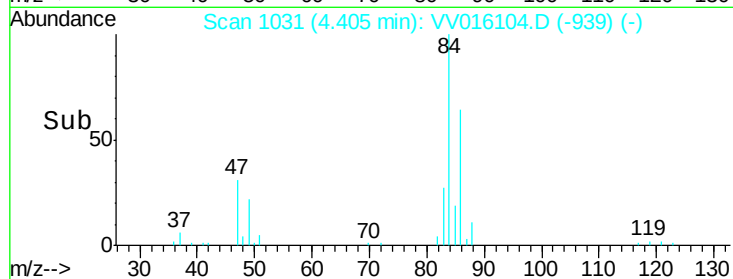
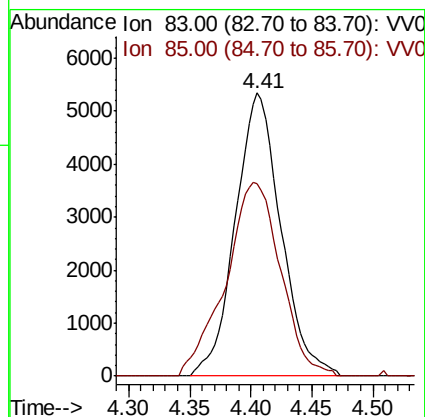
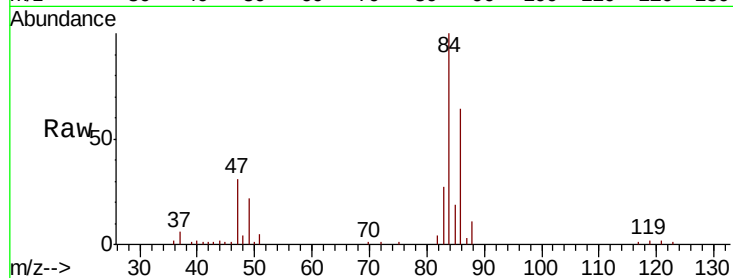




#25
Chloroform
Concen: 3.397 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VV016104.D
Acq: 18 May 2020 16:14

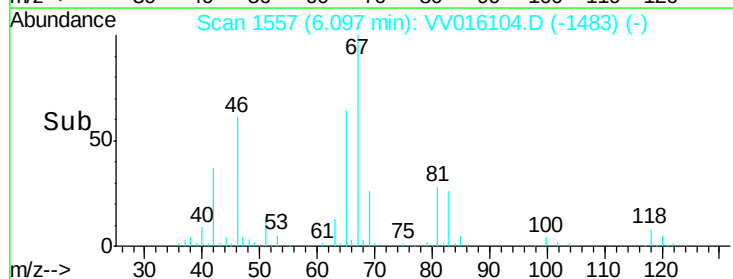
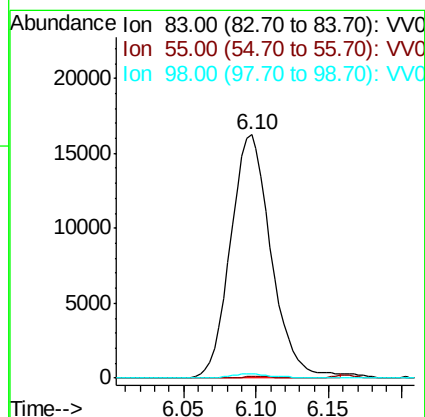
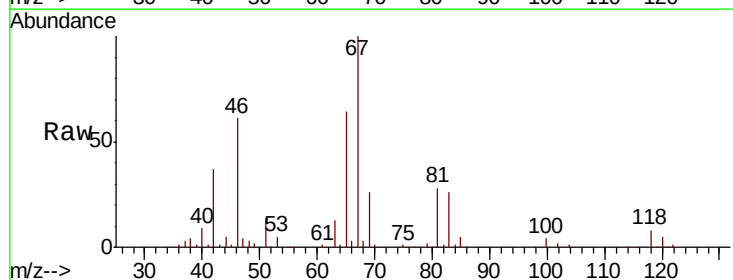
Instrument :
MSVOA_V
ClientSampleId :

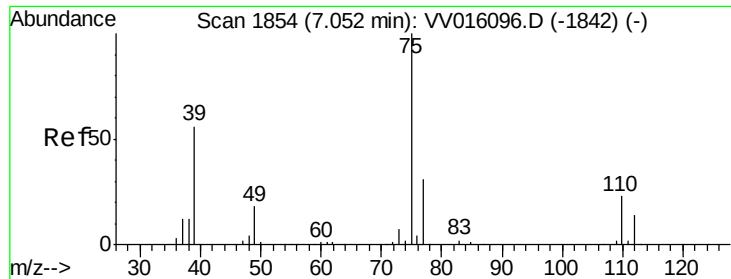
Tot Ion: 83 Resp: 13845
Ion Ratio Lower Upper
83 100
85 68.1 45.1 83.9



#35
Methylcyclohexane
Concen: 9.493 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.06 min
Lab File: VV016104.D
Acq: 18 May 2020 16:14

Tgt Ion: 83 Resp: 31605
Ion Ratio Lower Upper
83 100
55 0.0 66.2 99.2#
98 1.6 39.9 59.9#

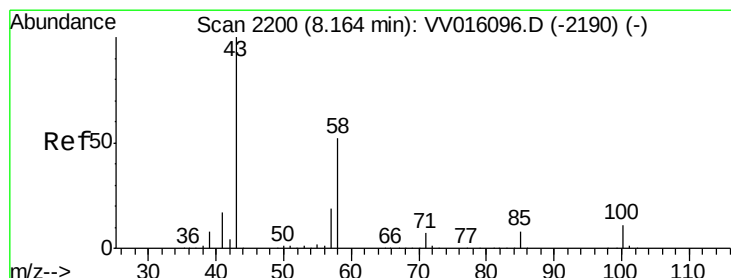
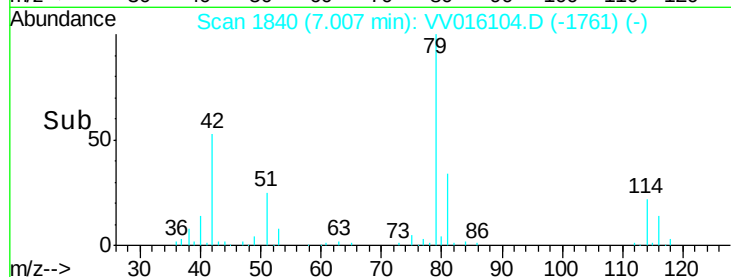
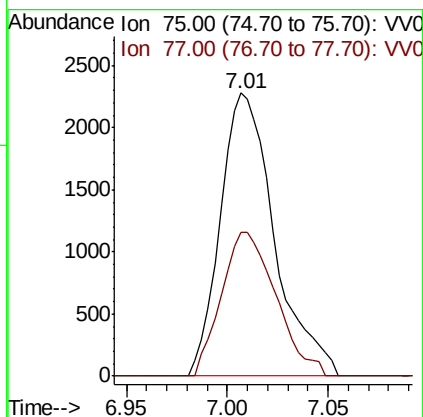
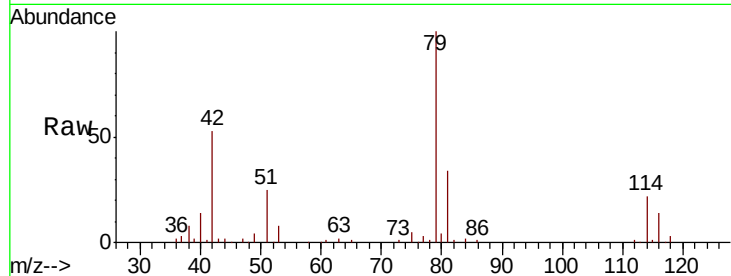




#39
 cis-1,3-Dichloropropene
 Concen: 1.266 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.05 min
 Lab File: VV016104.D
 Acq: 18 May 2020 16:14

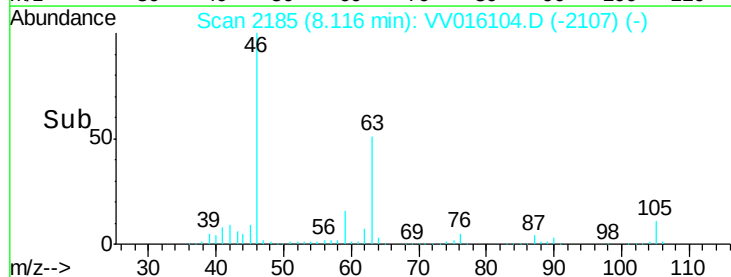
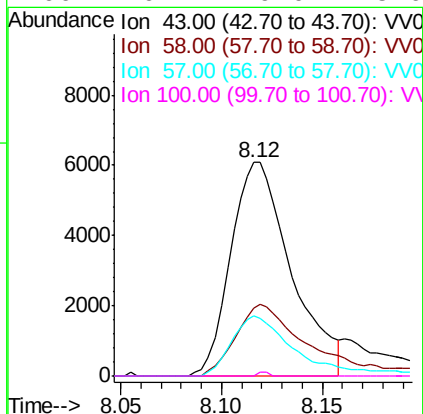
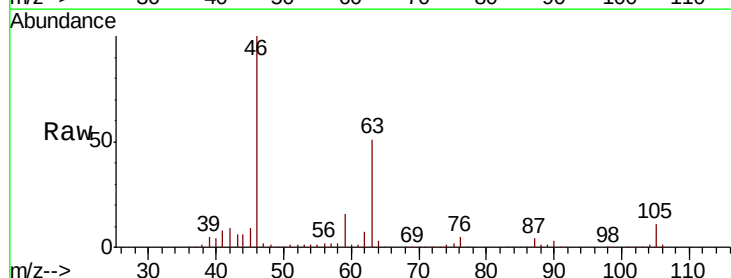
Instrument :
 MSVOA_V
 ClientSampled :

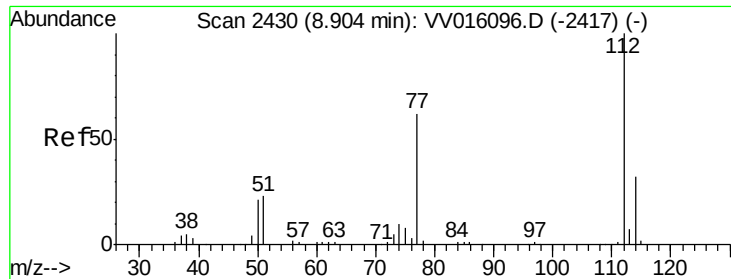
Tot Ion: 75 Resp: 4266
 Ion Ratio Lower Upper
 75 100
 77 50.8 22.3 41.3#



#48
 2-Hexanone
 Concen: 5.986 ug/L
 RT: 8.12 min Scan# 2185
 Delta R.T. -0.05 min
 Lab File: VV016104.D
 Acq: 18 May 2020 16:14

Tgt Ion: 43 Resp: 12737
 Ion Ratio Lower Upper
 43 100
 58 37.6 40.9 61.3#
 57 28.9 15.0 22.4#
 100 0.4 9.0 13.6#

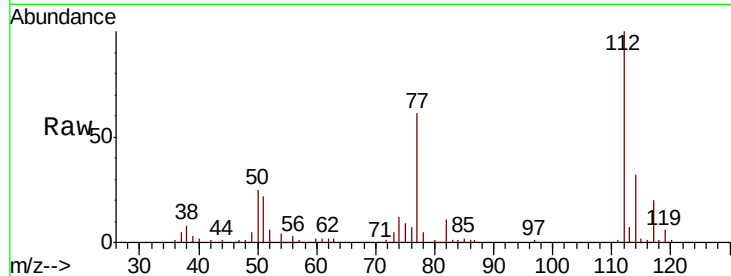




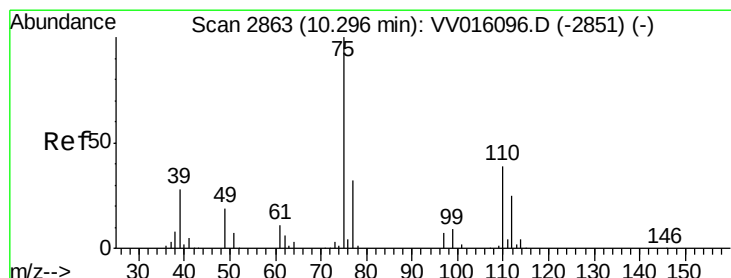
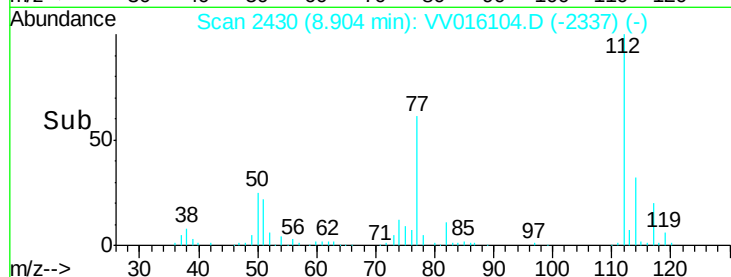
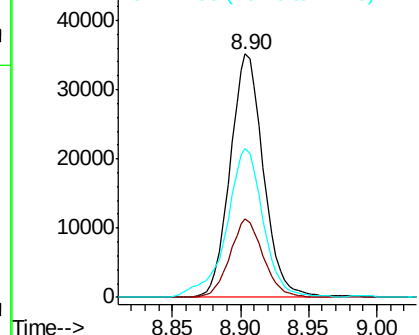
#51
Chlorobenzene
Concen: 10.285 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016104.D
Acq: 18 May 2020 16:14

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.9
77	61.2	50.4	75.6

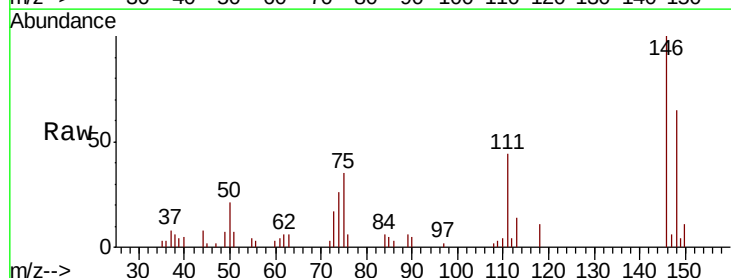


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

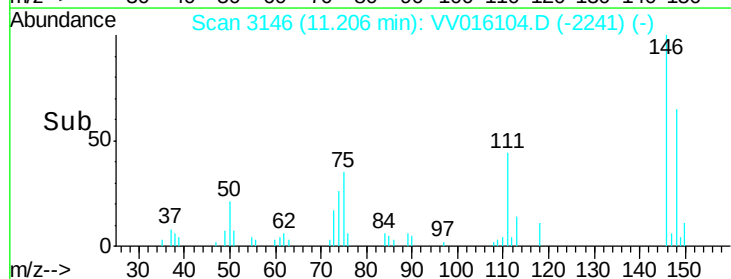
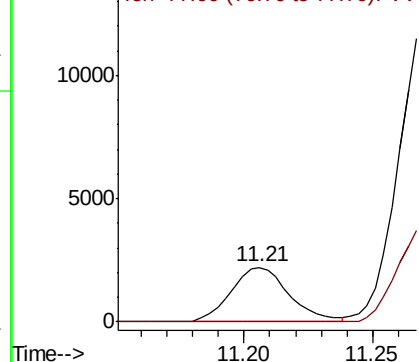


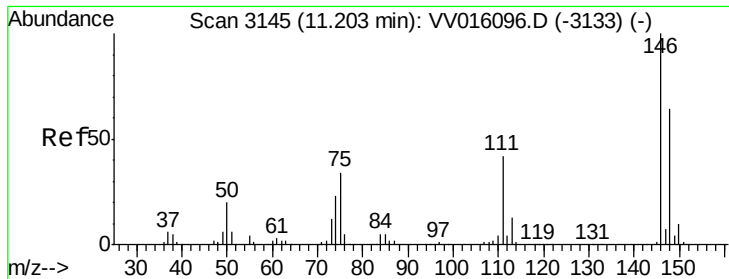
#59
1,2,3-Trichloropropane
Concen: 1.306 ug/L
RT: 11.21 min Scan# 3146
Delta R.T. 0.91 min
Lab File: VV016104.D
Acq: 18 May 2020 16:14

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.5	38.3#



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0





#62

1,3-Dichlorobenzene

Concen: 2.267 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV016104.D

Acq: 18 May 2020 16:14

Instrument :

MSVOA_V

ClientSampleId :

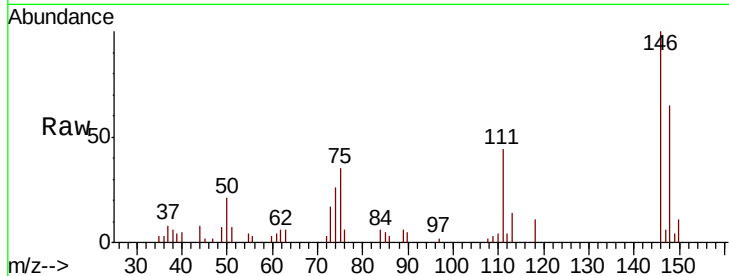
Tot Ion:146 Resp: 9680

Ion Ratio Lower Upper

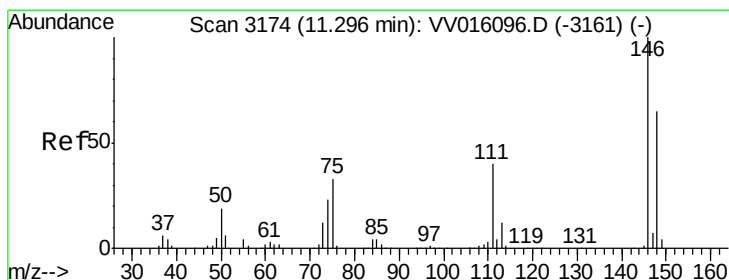
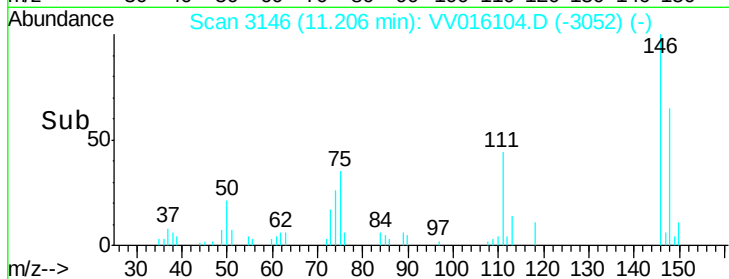
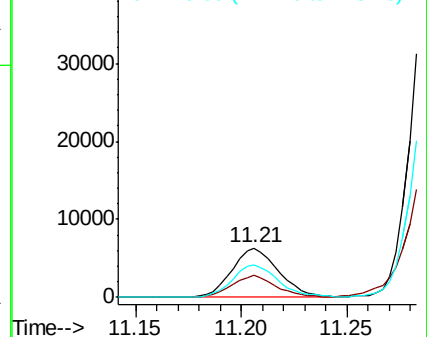
146 100

111 44.1 29.1 54.1

148 65.1 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 23.225 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VV016104.D

Acq: 18 May 2020 16:14

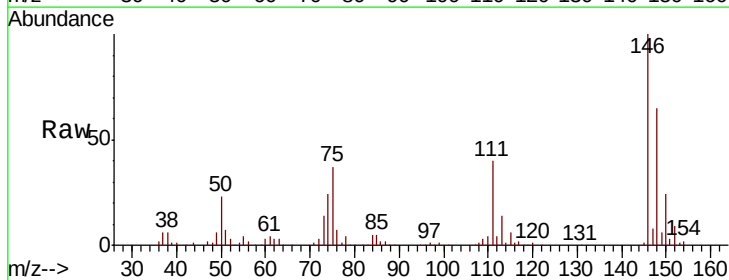
Tgt Ion:146 Resp: 101430

Ion Ratio Lower Upper

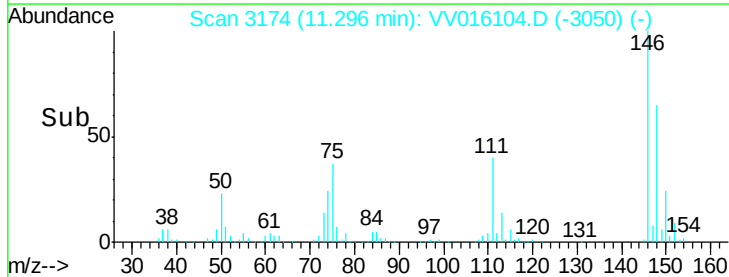
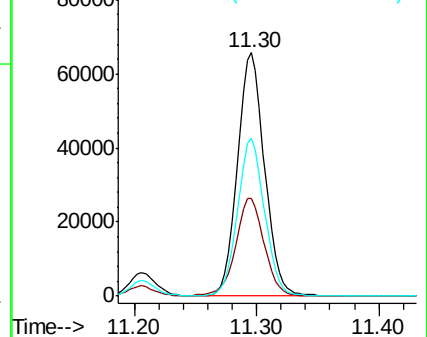
146 100

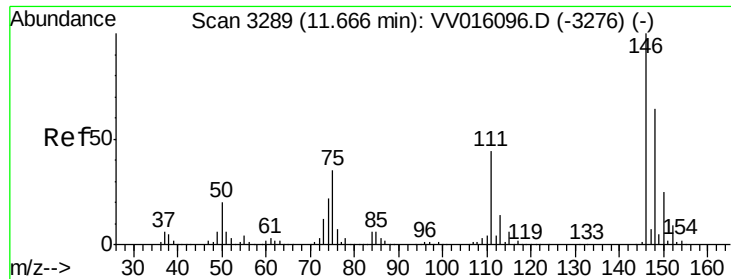
111 40.1 28.1 52.3

148 64.7 45.7 84.9



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 98.560 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV016104.D

Acq: 18 May 2020 16:14

Instrument :

MSVOA_V

ClientSampleId :

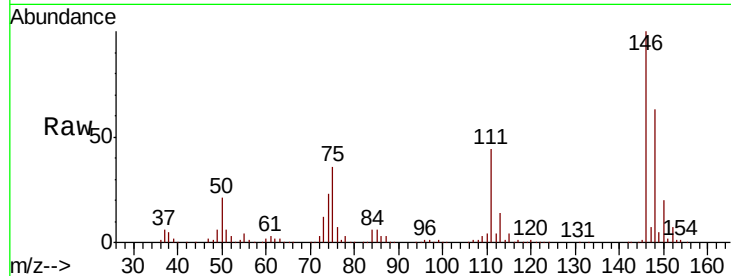
Tot Ion:146 Resp: 424920

Ion Ratio Lower Upper

146 100

111 44.2 35.2 52.8

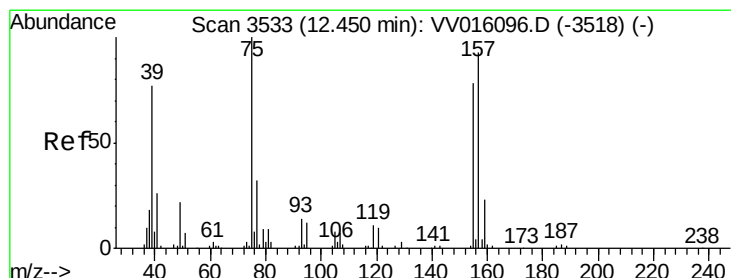
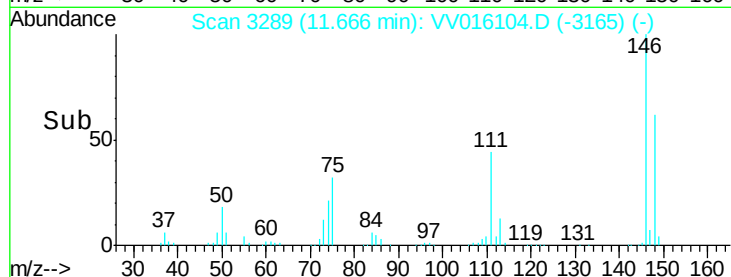
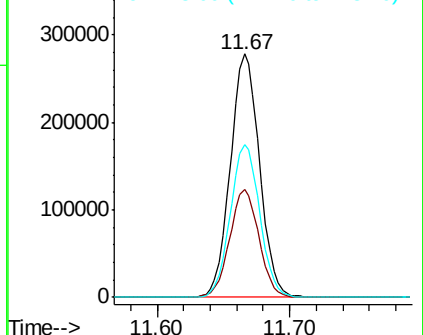
148 62.6 51.4 77.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 1.725 ug/L

RT: 12.67 min Scan# 3600

Delta R.T. 0.22 min

Lab File: VV016104.D

Acq: 18 May 2020 16:14

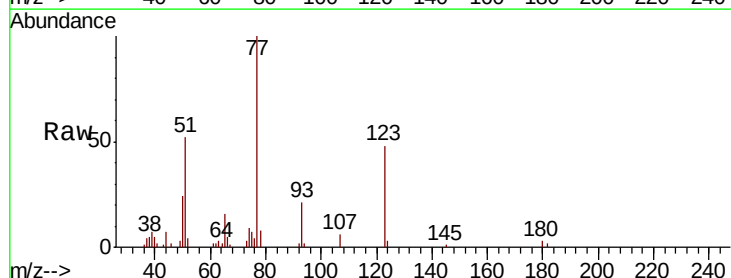
Tgt Ion: 75 Resp: 1149

Ion Ratio Lower Upper

75 100

155 0.0 62.1 93.1#

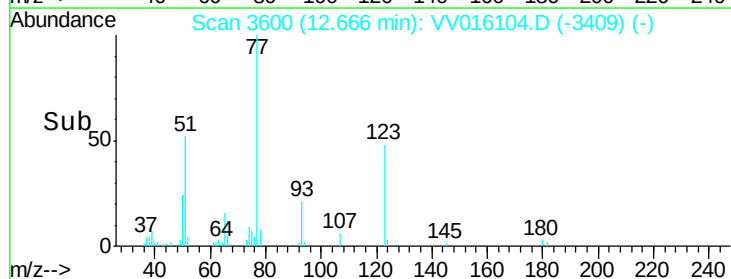
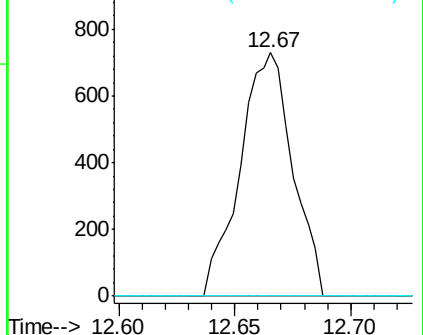
157 0.0 74.6 111.8#

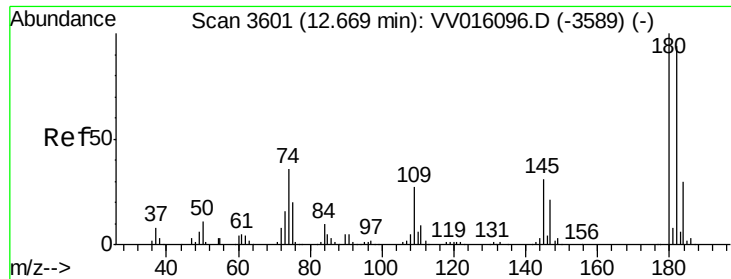


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

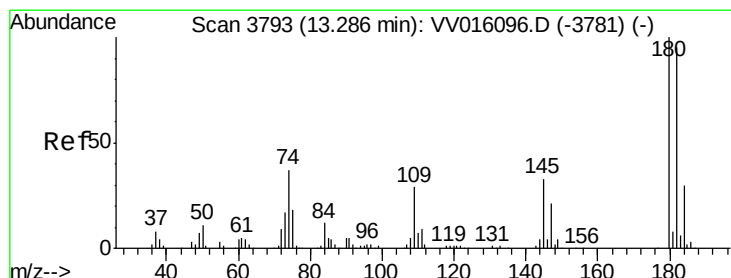
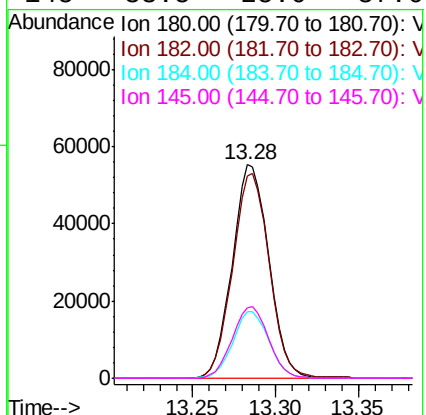
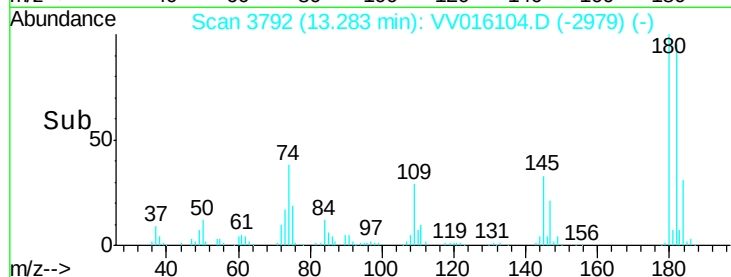
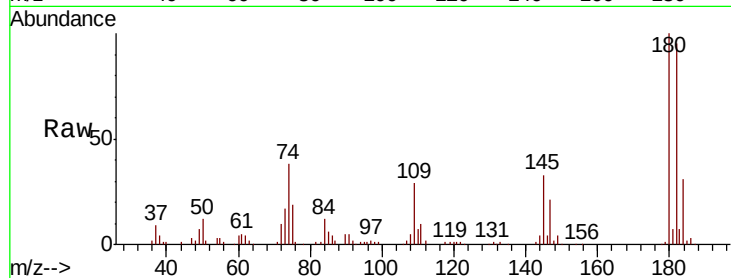




#67
 1,3,5-Trichlorobenzene
 Concen: 28.793 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.61 min
 Lab File: VV016104.D
 Acq: 18 May 2020 16:14

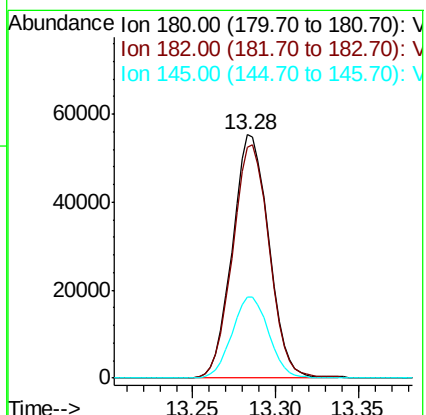
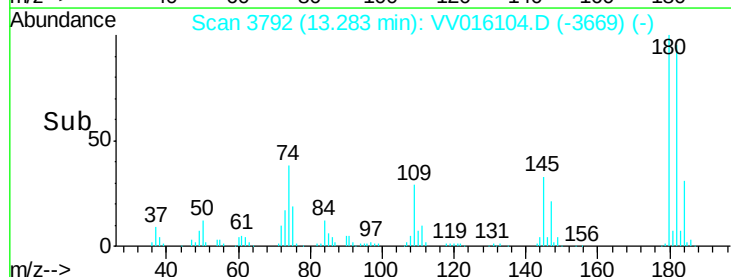
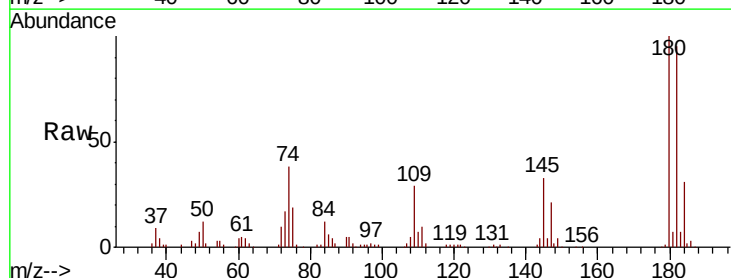
Instrument :
 MSVOA_V
 ClientSampleId :

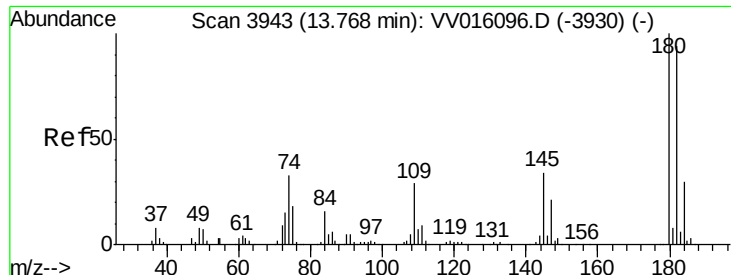
Tot Ion:180	Resp:	84907
Ion Ratio	Lower	Upper
180	100	
182	96.3	75.8 113.6
184	31.2	24.3 36.5
145	33.5	25.0 37.6



#68
 1,2,4-trichlorobenzene
 Concen: 32.061 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV016104.D
 Acq: 18 May 2020 16:14

Tgt Ion:180	Resp:	84907
Ion Ratio	Lower	Upper
180	100	
182	96.3	76.2 114.4
145	33.5	26.2 39.2





#70

1,2,3-Trichlorobenzene

Concen: 26.717 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

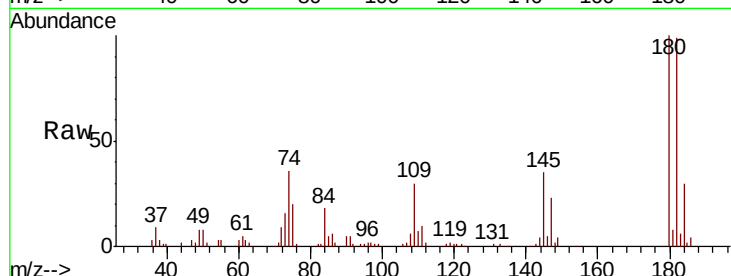
Lab File: VV016104.D

Acq: 18 May 2020 16:14

Instrument :

MSVOA_V

ClientSampleId :



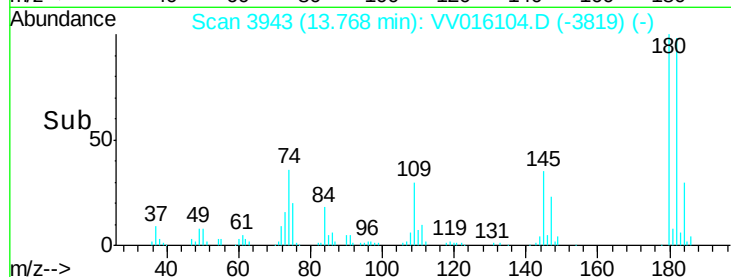
Tot Ion:180 Resp: 71694

Ion Ratio Lower Upper

180 100

182 96.0 75.3 112.9

145 34.1 27.4 41.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

