

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV051820\
 Data File : VV016095.D
 Acq On : 18 May 2020 12:24
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 19 04:47:00 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	335310	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	322747	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	152400	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	122097	50.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.98%
7) Chloroethane-d5	1.58	69	107883	50.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.58%
11) 1,1-Dichloroethene-d2	2.13	63	175668	38.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.84%
21) 2-Butanone-d5	3.93	46	147092	100.85	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.85%
24) Chloroform-d	4.38	84	222943	48.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.32%
26) 1,2-Dichloroethane-d4	5.06	65	158905	49.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.86%
32) Benzene-d6	5.08	84	450710	50.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.86%
36) 1,2-Dichloropropane-d6	6.10	67	143220	51.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.30%
41) Toluene-d8	7.34	98	415284	50.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.56%
43) trans-1,3-Dichloropropene-	7.64	79	70428	50.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.32%
47) 2-Hexanone-d5	8.12	63	98742	108.32	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.32%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	171663	48.72	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.44%
64) 1,2-Dichlorobenzene-d4	11.65	152	156005	51.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.52%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2490	1.160	ug/L #	61
12) 1,1-Dichloroethene	2.13	96	2134	1.083	ug/L #	1
14) Carbon disulfide	2.32	76	11945	2.108	ug/L #	93
17) trans-1,2-Dichloroethene	2.79	96	1813	0.832	ug/L	91
25) Chloroform	4.41	83	8629	1.847	ug/L	98
35) Methylcyclohexane	6.16	83	2099	0.568	ug/L #	79
40) 4-Methyl-2-pentanone	7.26	43	4746	1.524	ug/L	97
44) trans-1,3-Dichloropropene	7.64	75	3593	0.958	ug/L	85
46) Tetrachloroethene	8.01	164	1270	0.698	ug/L	96
48) 2-Hexanone	8.17	43	9604	4.065	ug/L #	72
59) 1,2,3-Trichloropropane	11.27	75	22475	7.622	ug/L	97
62) 1,3-Dichlorobenzene	11.21	146	5484	1.159	ug/L	96
63) 1,4-Dichlorobenzene	11.30	146	6698	1.384	ug/L	97
65) 1,2-Dichlorobenzene	11.67	146	4973	1.041	ug/L	92
66) 1,2-Dibromo-3-chloropropan	12.46	75	1265	1.713	ug/L #	81
67) 1,3,5-Trichlorobenzene	12.67	180	6553	2.005	ug/L	97
68) 1,2,4-trichlorobenzene	13.29	180	9804	3.340	ug/L	96

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

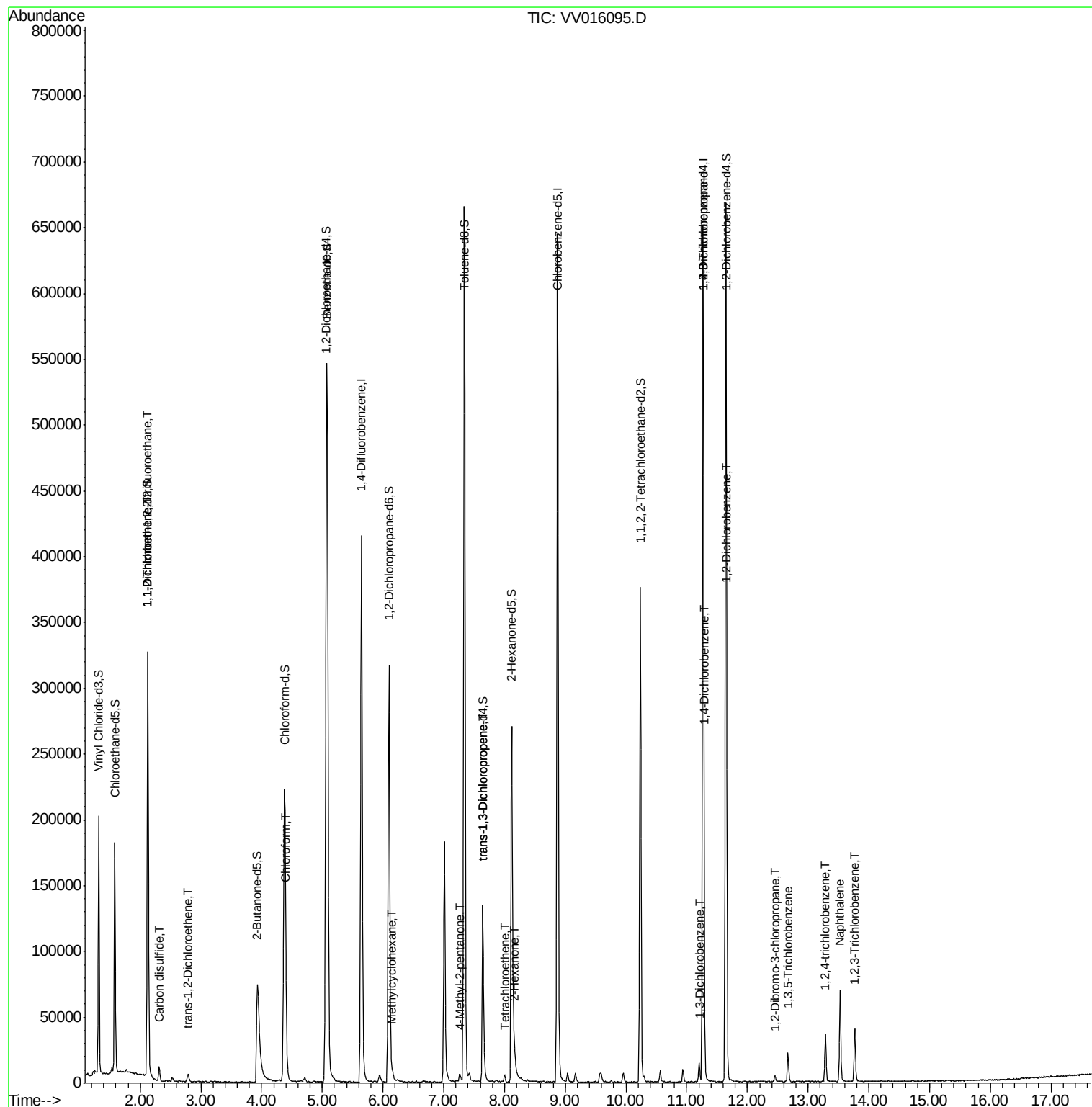
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	13.53	128	52935	6.207	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	11103	3.733	ug/L	95

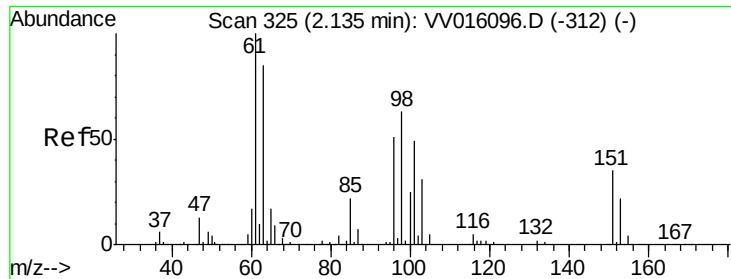
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_V
ClientSampled :

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Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.160 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV016095.D

Acq: 18 May 2020 12:24

Instrument :

MSVOA_V

ClientSampleId :

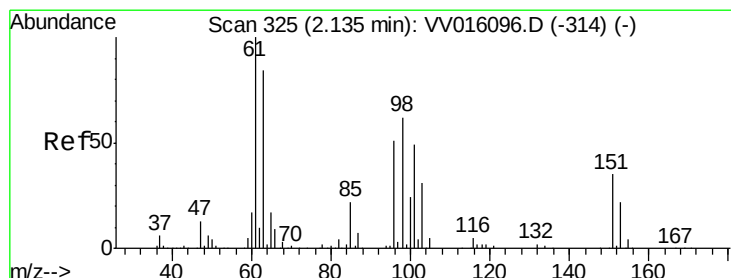
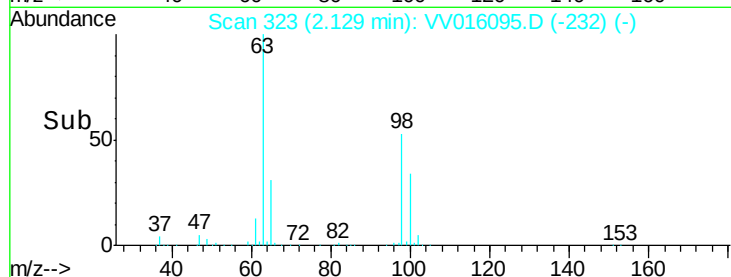
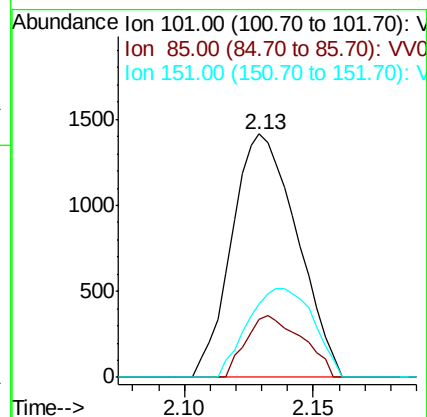
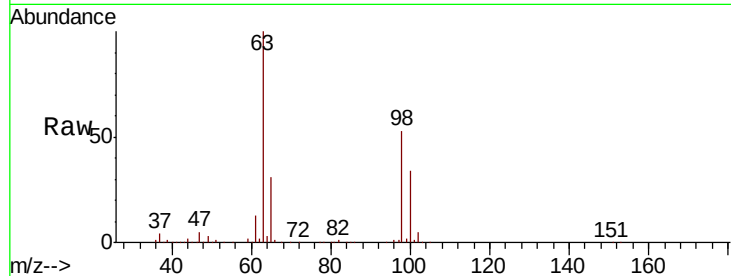
Tot Ion:101 Resp: 2490

Ion Ratio Lower Upper

101 100

85 22.0 36.2 54.4#

151 37.0 56.9 85.3#



#12

1,1-Dichloroethene

Concen: 1.083 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV016095.D

Acq: 18 May 2020 12:24

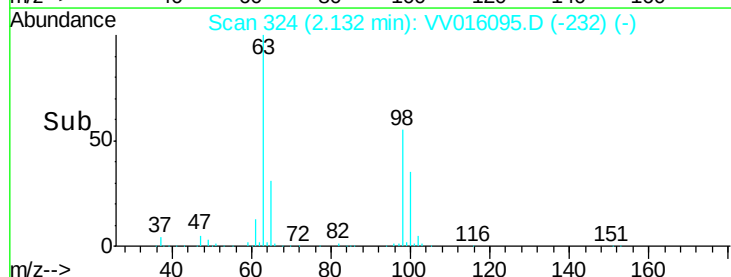
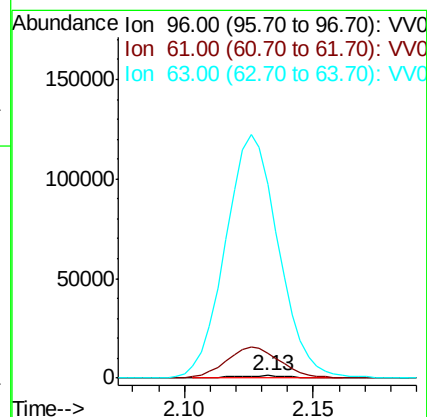
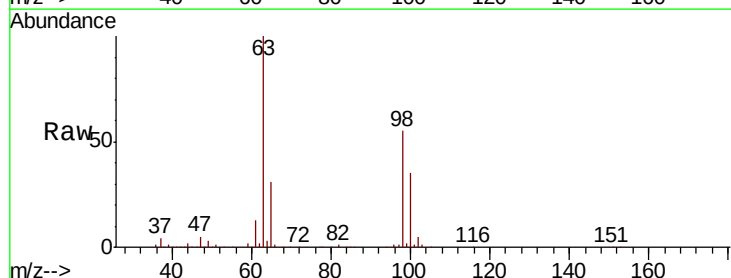
Tgt Ion: 96 Resp: 2134

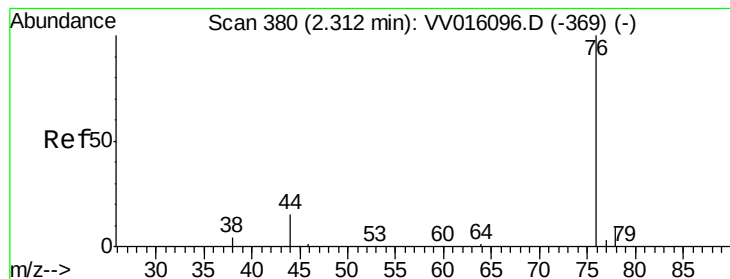
Ion Ratio Lower Upper

96 100

61 1069.0 136.8 254.2#

63 8243.2 116.6 216.5#





#14

Carbon disulfide

Concen: 2.108 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV016095.D

Acq: 18 May 2020 12:24

Instrument :

MSVOA_V

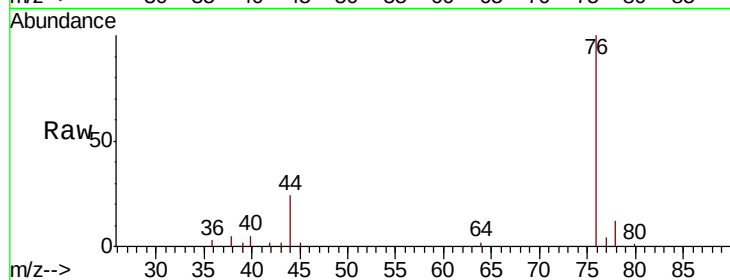
ClientSampleId :

Tot Ion: 76 Resp: 11945

Ion Ratio Lower Upper

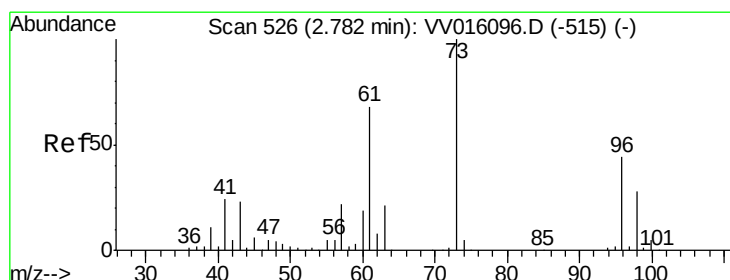
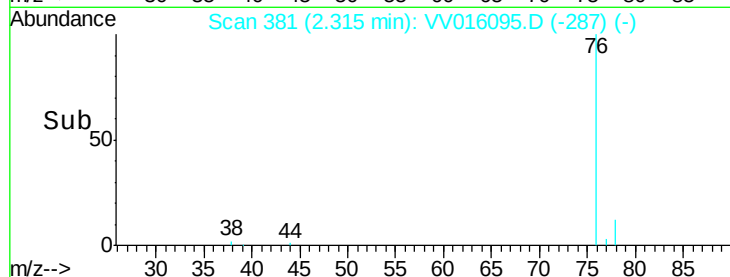
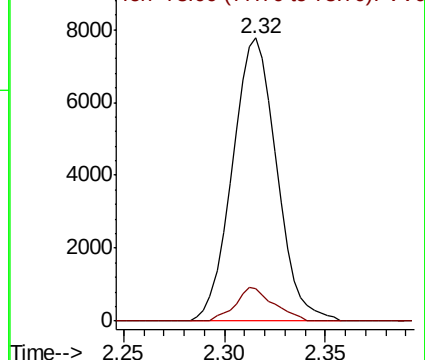
76 100

78 11.5 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0



#17

trans-1,2-Dichloroethene

Concen: 0.832 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.01 min

Lab File: VV016095.D

Acq: 18 May 2020 12:24

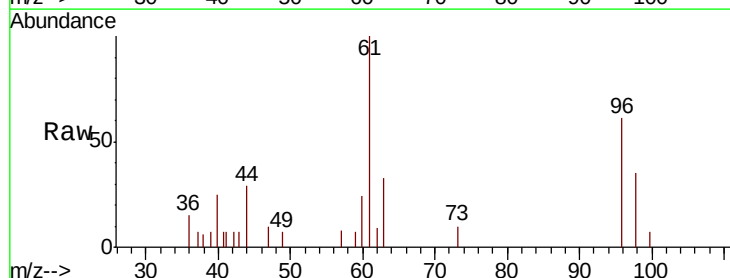
Tgt Ion: 96 Resp: 1813

Ion Ratio Lower Upper

96 100

61 165.2 107.1 198.9

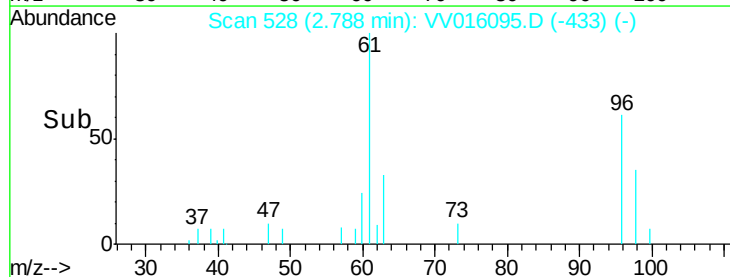
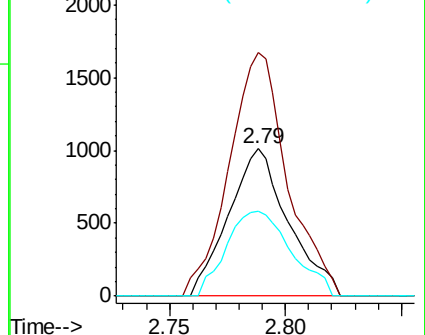
98 58.0 44.0 81.8

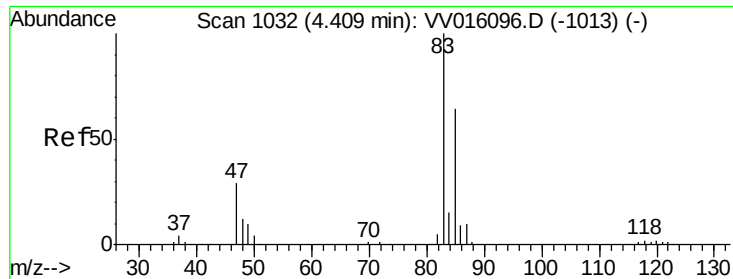


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

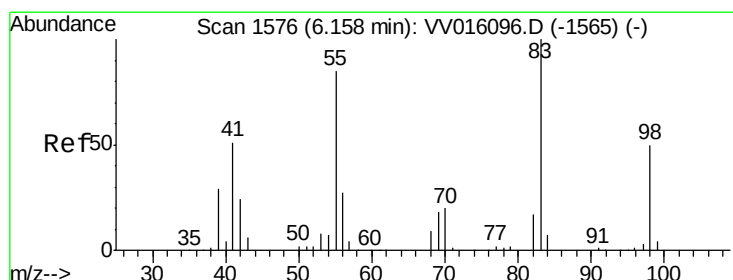
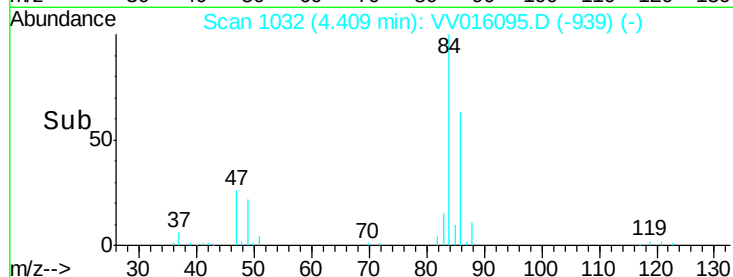
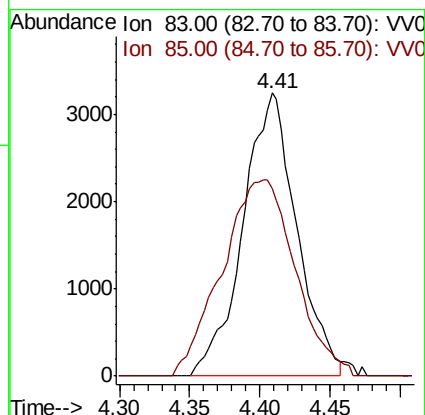
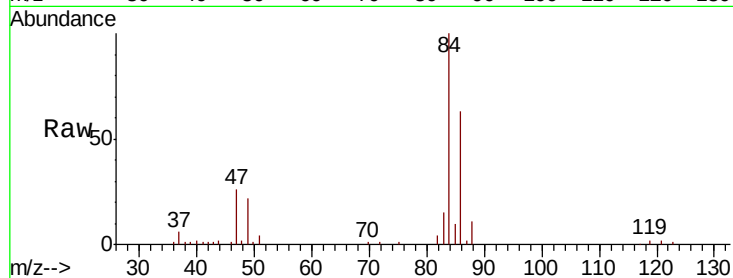




#25
Chloroform
Concen: 1.847 ug/L
RT: 4.41 min Scan# 1032
Delta R.T. -0.00 min
Lab File: VV016095.D
Acq: 18 May 2020 12:24

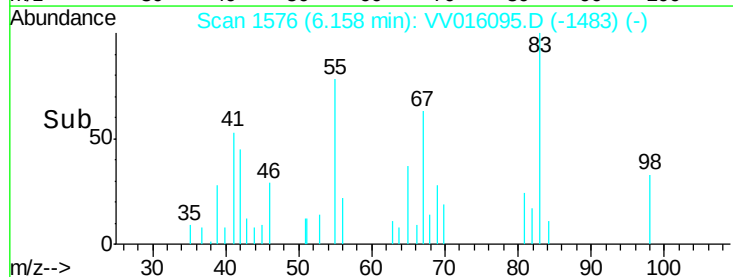
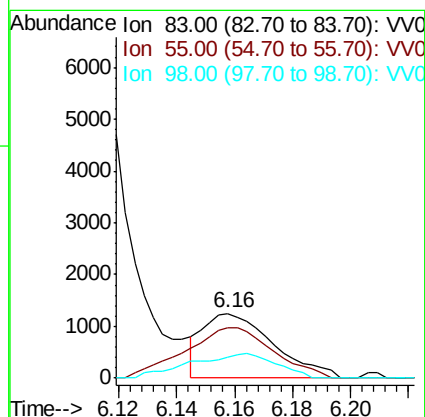
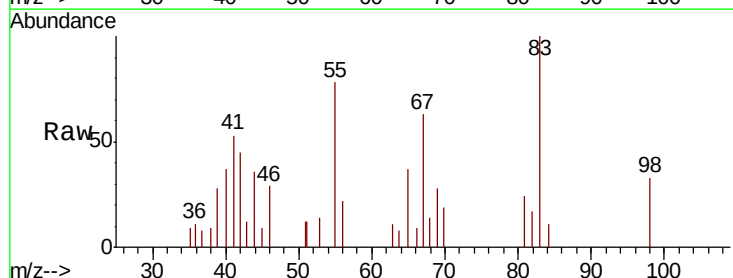
Instrument :
MSVOA_V
ClientSampleId :

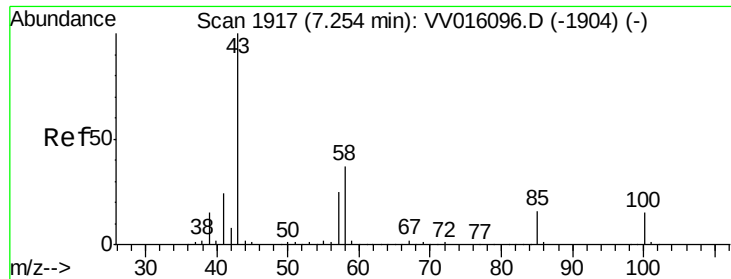
Tot Ion: 83 Resp: 8629
Ion Ratio Lower Upper
83 100
85 66.3 45.1 83.9



#35
Methylcyclohexane
Concen: 0.568 ug/L
RT: 6.16 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VV016095.D
Acq: 18 May 2020 12:24

Tgt Ion: 83 Resp: 2099
Ion Ratio Lower Upper
83 100
55 97.8 66.2 99.2
98 30.1 39.9 59.9#

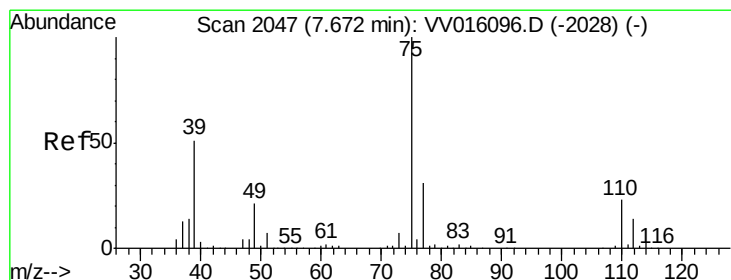
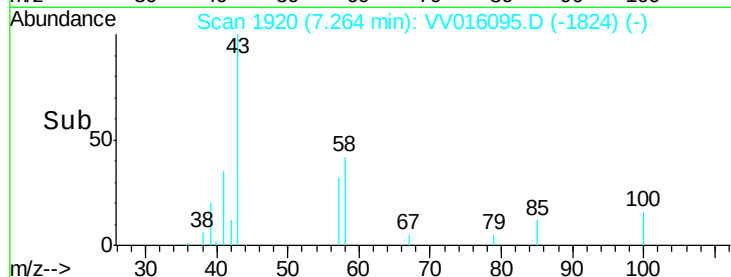
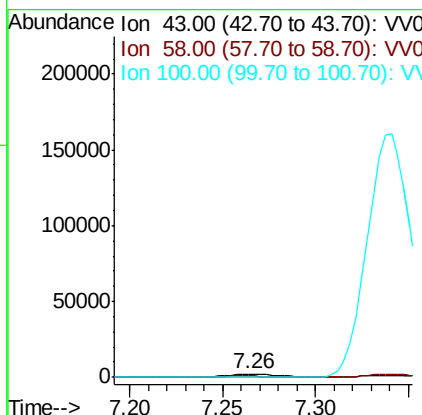
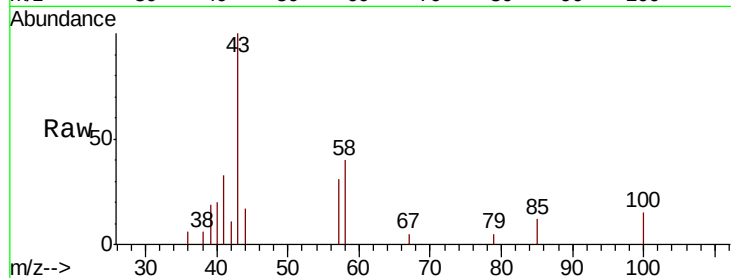




#40
4-Methyl-2-pentanone
Concen: 1.524 ug/L
RT: 7.26 min Scan# 1920
Delta R.T. 0.01 min
Lab File: VV016095.D
Acq: 18 May 2020 12:24

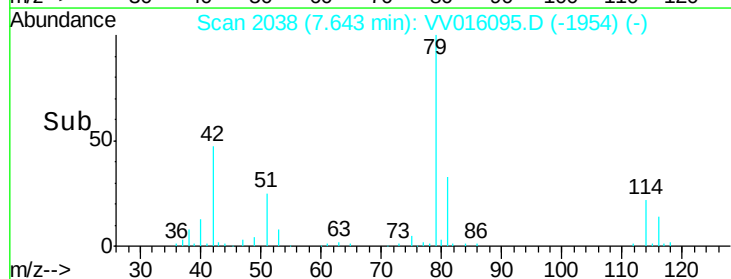
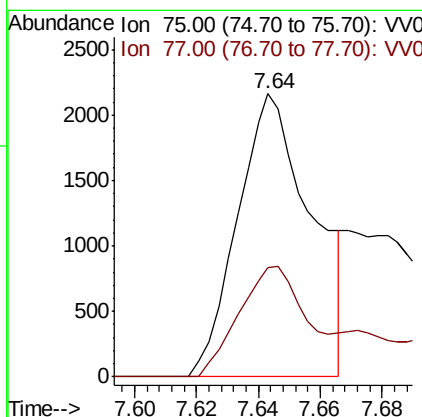
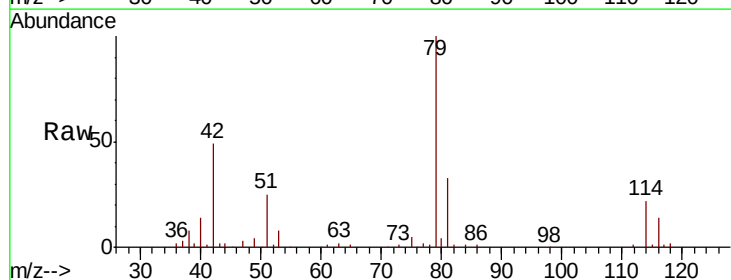
Instrument :
MSVOA_V
ClientSampleId :

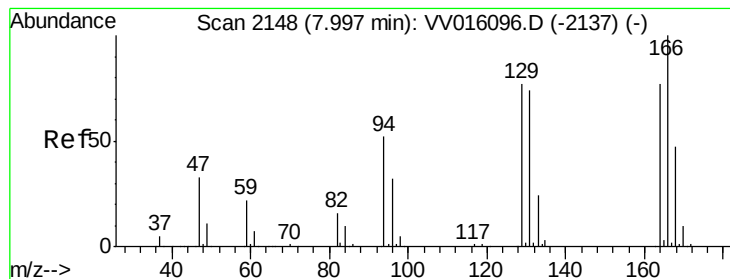
Tot Ion: 43 Resp: 4746
Ion Ratio Lower Upper
43 100
58 38.6 29.4 44.2
100 14.6 11.0 16.6



#44
trans-1,3-Dichloropropene
Concen: 0.958 ug/L
RT: 7.64 min Scan# 2038
Delta R.T. -0.03 min
Lab File: VV016095.D
Acq: 18 May 2020 12:24

Tgt Ion: 75 Resp: 3593
Ion Ratio Lower Upper
75 100
77 38.5 21.3 39.6





#46

Tetrachloroethene

Concen: 0.698 ug/L

RT: 8.01 min Scan# 2151

Delta R.T. 0.01 min

Lab File: VV016095.D

Acq: 18 May 2020 12:24

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 1270

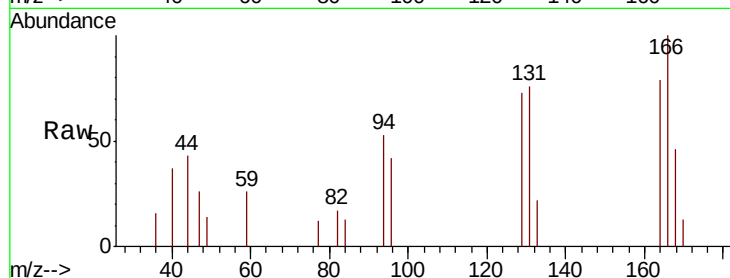
Ion Ratio Lower Upper

164 100

129 91.8 70.3 130.7

131 95.6 67.1 124.5

166 126.4 90.9 168.9

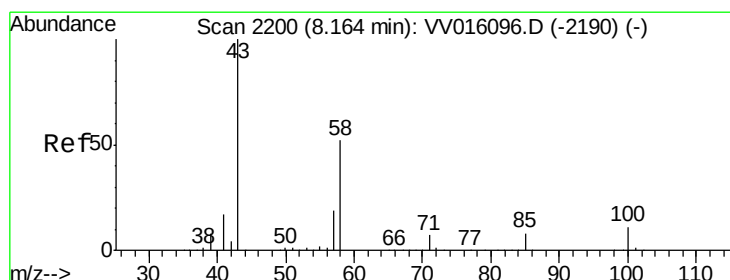
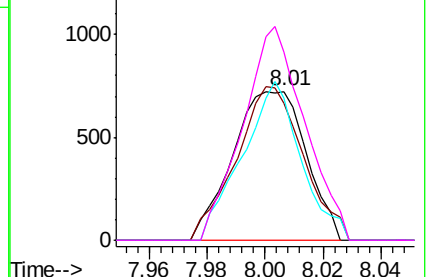
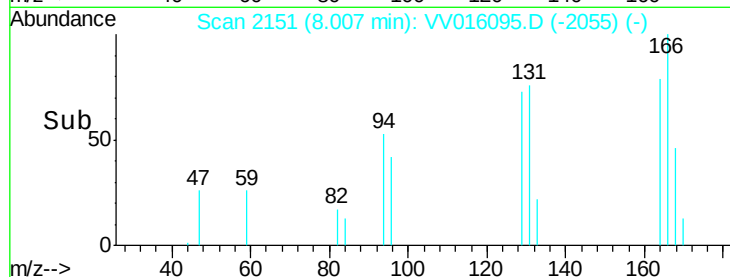


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 4.065 ug/L

RT: 8.17 min Scan# 2203

Delta R.T. 0.01 min

Lab File: VV016095.D

Acq: 18 May 2020 12:24

Tgt Ion: 43 Resp: 9604

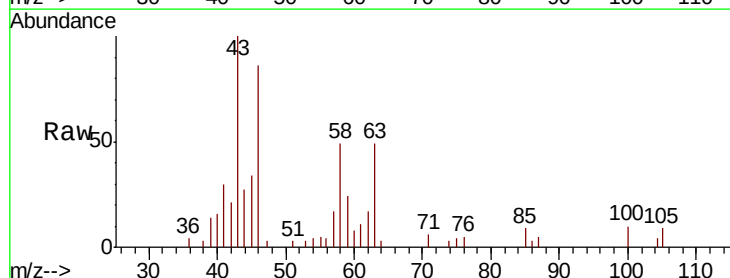
Ion Ratio Lower Upper

43 100

58 31.6 40.9 61.3#

57 1.1 15.0 22.4#

100 7.8 9.0 13.6#

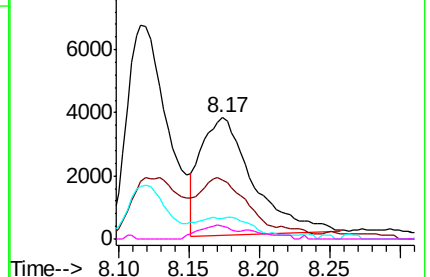
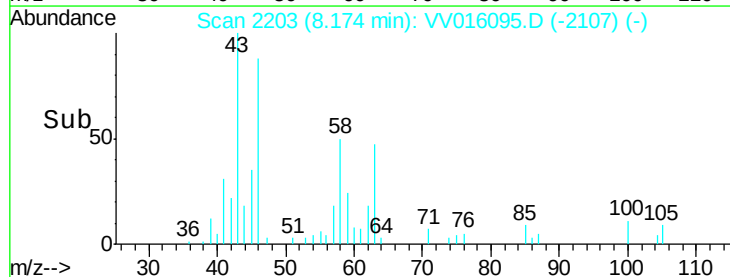


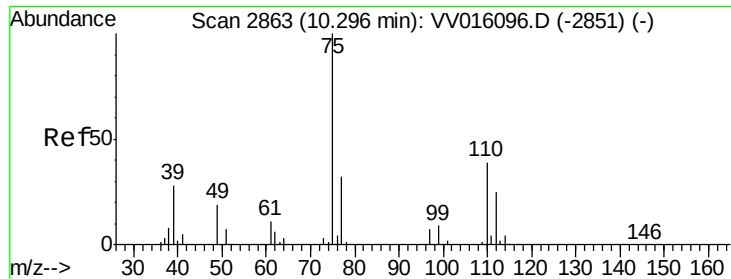
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0

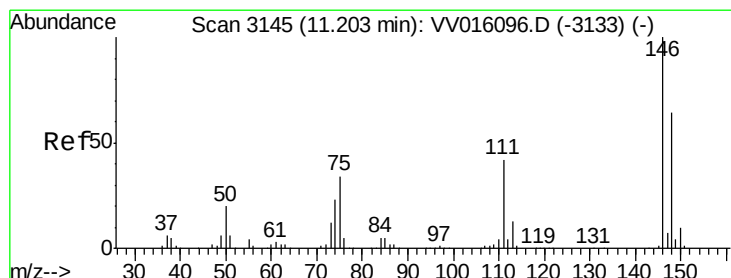
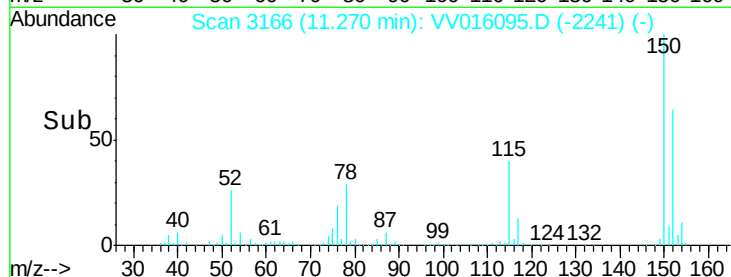
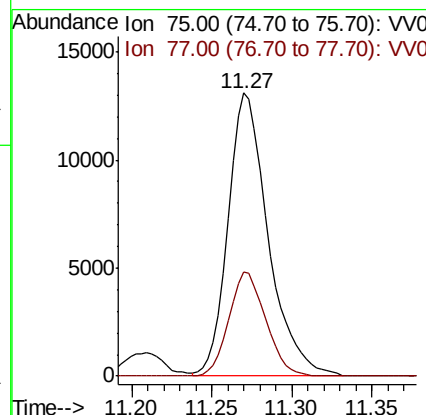
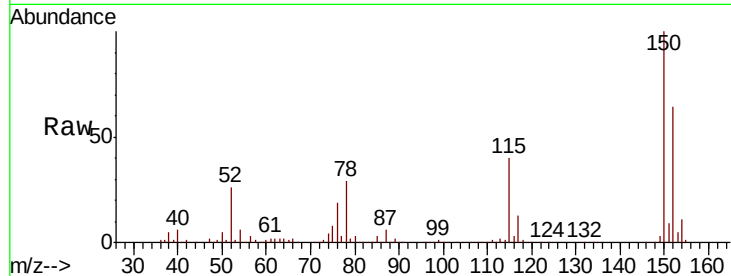




#59
 1,2,3-Trichloropropane
 Concen: 7.622 ug/L
 RT: 11.27 min Scan# 3166
 Delta R.T. 0.97 min
 Lab File: VV016095.D
 Acq: 18 May 2020 12:24

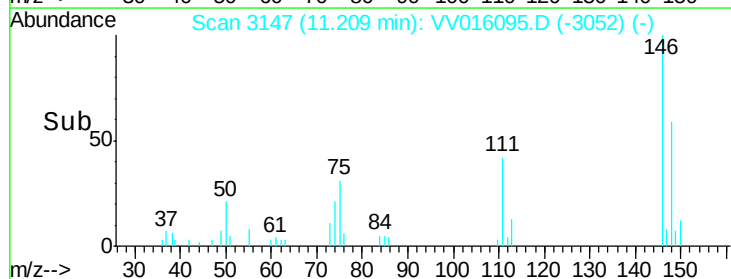
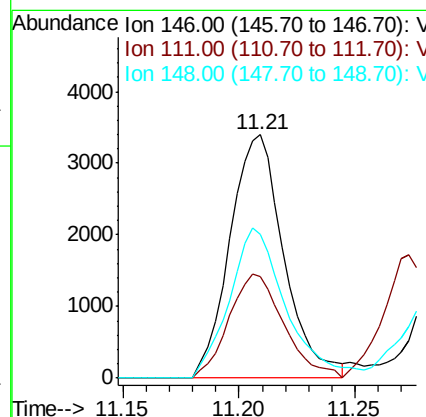
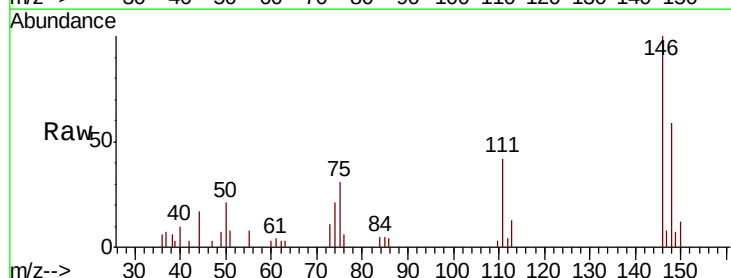
Instrument :
 MSVOA_V
 ClientSampled :

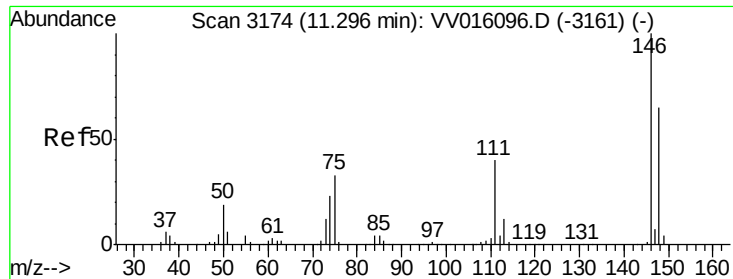
Tot Ion: 75 Resp: 22475
 Ion Ratio Lower Upper
 75 100
 77 33.7 25.5 38.3



#62
 1,3-Dichlorobenzene
 Concen: 1.159 ug/L
 RT: 11.21 min Scan# 3147
 Delta R.T. 0.01 min
 Lab File: VV016095.D
 Acq: 18 May 2020 12:24

Tgt Ion: 146 Resp: 5484
 Ion Ratio Lower Upper
 146 100
 111 41.9 29.1 54.1
 148 59.2 44.5 82.7

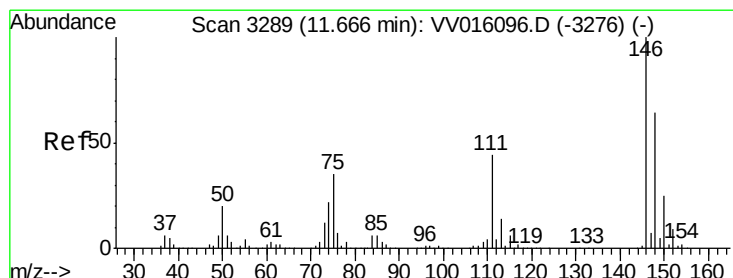
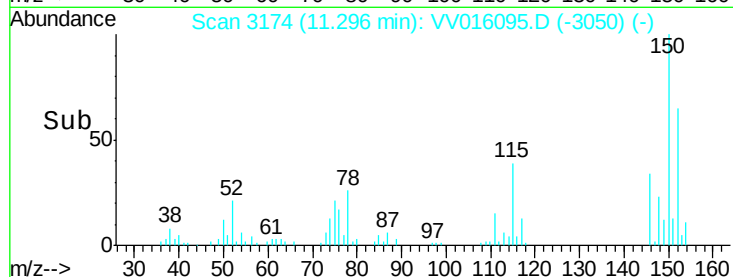
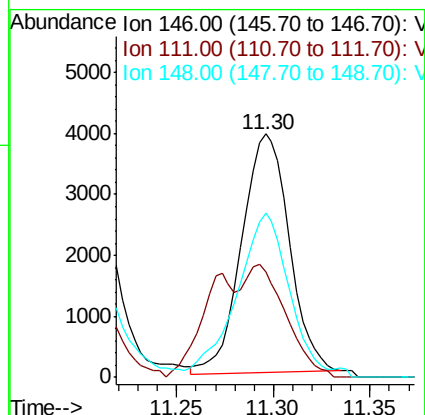
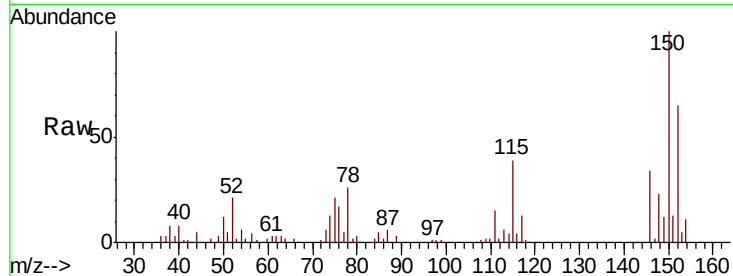




#63
 1,4-Dichlorobenzene
 Concen: 1.384 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. -0.00 min
 Lab File: VV016095.D
 Acq: 18 May 2020 12:24

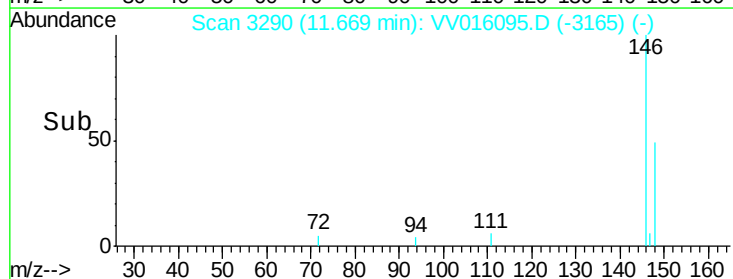
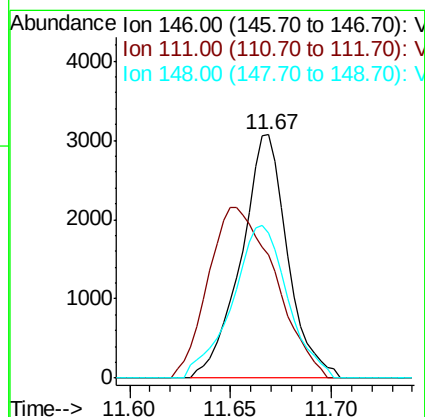
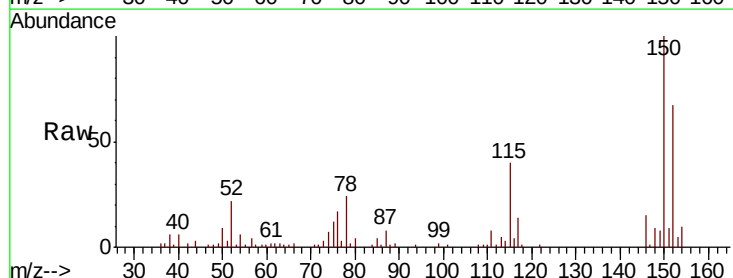
Instrument :
 MSVOA_V
 ClientSampleId :

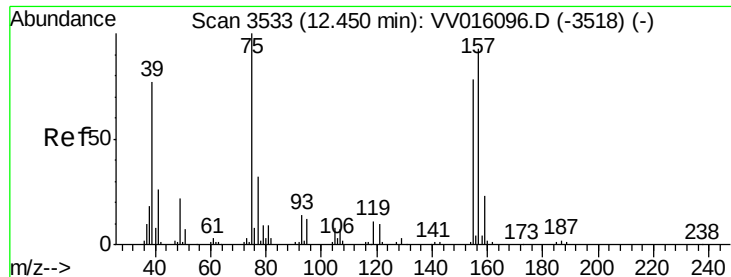
Tot Ion:146 Resp: 6698
 Ion Ratio Lower Upper
 146 100
 111 43.1 28.1 52.3
 148 67.3 45.7 84.9



#65
 1,2-Dichlorobenzene
 Concen: 1.041 ug/L
 RT: 11.67 min Scan# 3290
 Delta R.T. 0.00 min
 Lab File: VV016095.D
 Acq: 18 May 2020 12:24

Tgt Ion:146 Resp: 4973
 Ion Ratio Lower Upper
 146 100
 111 50.5 35.2 52.8
 148 59.3 51.4 77.2

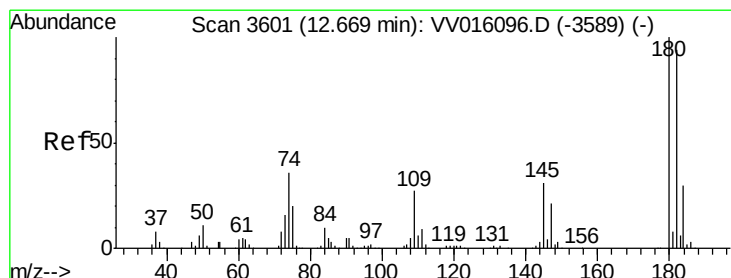
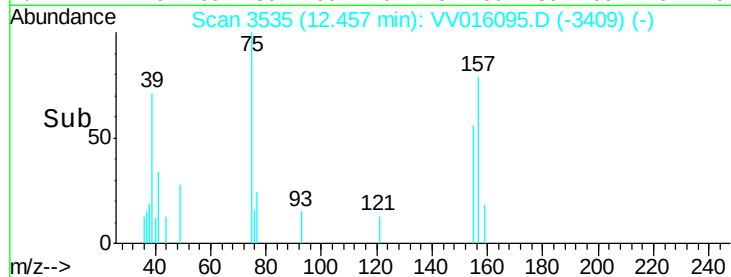
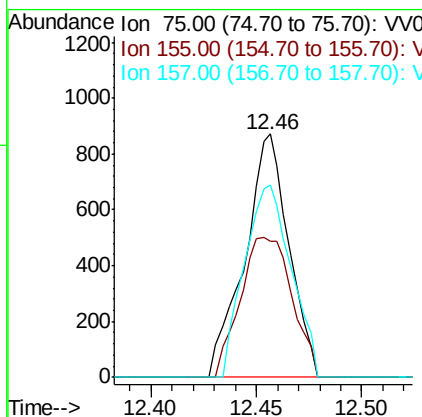
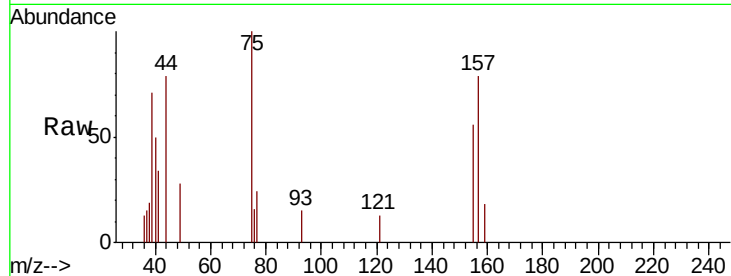




#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.713 ug/L
 RT: 12.46 min Scan# 3535
 Delta R.T. 0.01 min
 Lab File: VV016095.D
 Acq: 18 May 2020 12:24

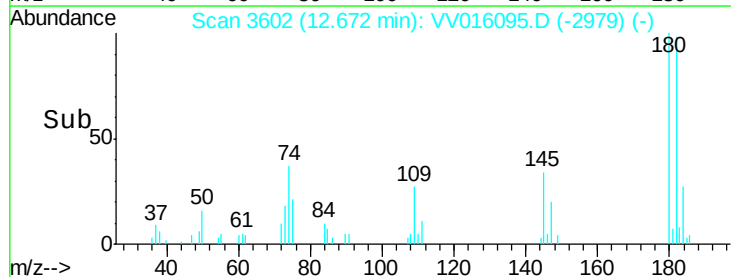
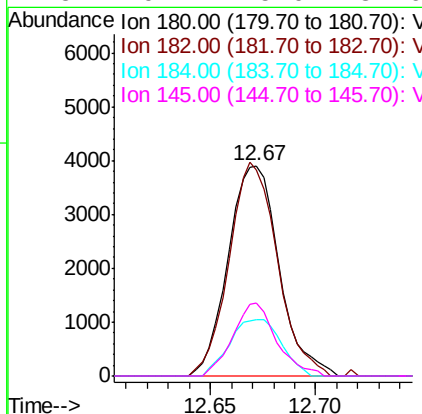
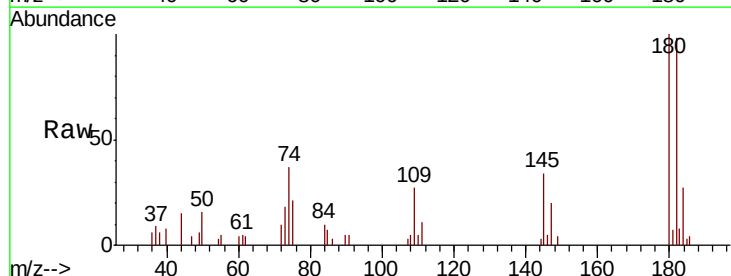
Instrument :
 MSVOA_V
 ClientSampled :

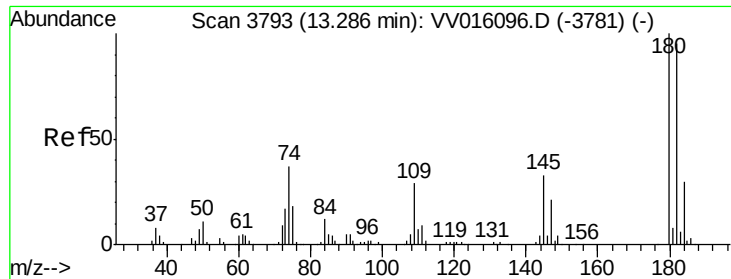
Tot Ion: 75 Resp: 1265
 Ion Ratio Lower Upper
 75 100
 155 56.0 62.1 93.1#
 157 79.1 74.6 111.8



#67
 1,3,5-Trichlorobenzene
 Concen: 2.005 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.00 min
 Lab File: VV016095.D
 Acq: 18 May 2020 12:24

Tgt Ion: 180 Resp: 6553
 Ion Ratio Lower Upper
 180 100
 182 96.2 75.8 113.6
 184 27.2 24.3 36.5
 145 29.7 25.0 37.6

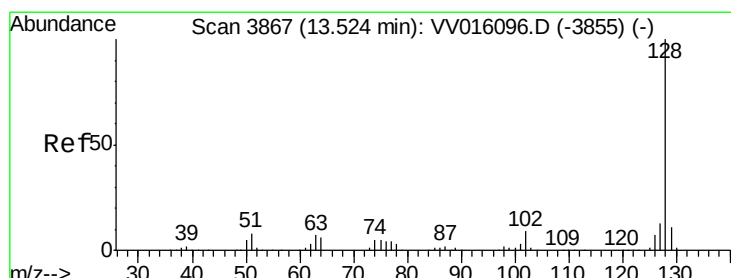
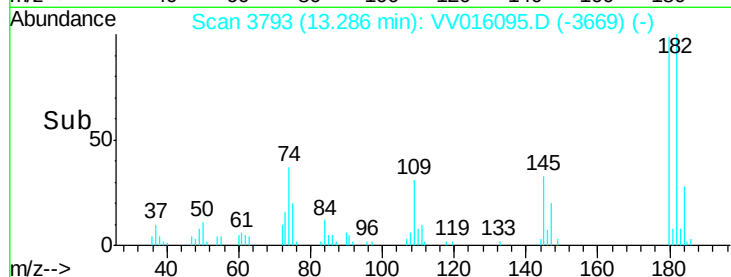
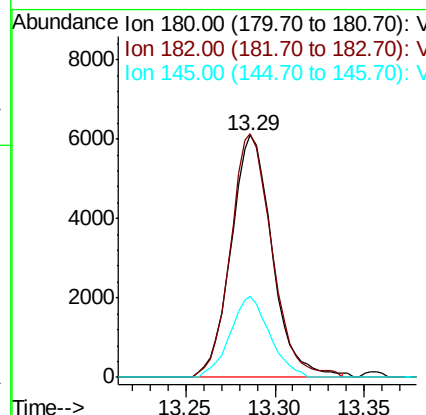
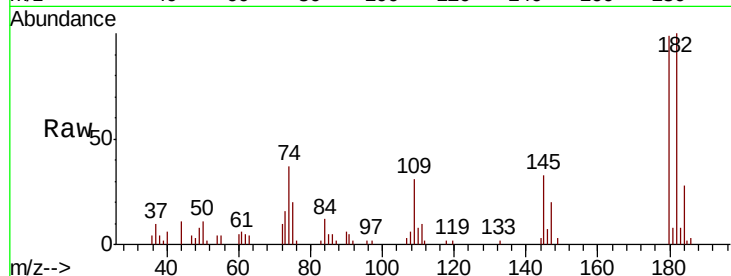




#68
 1,2,4-trichlorobenzene
 Concen: 3.340 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. -0.00 min
 Lab File: VV016095.D
 Acq: 18 May 2020 12:24

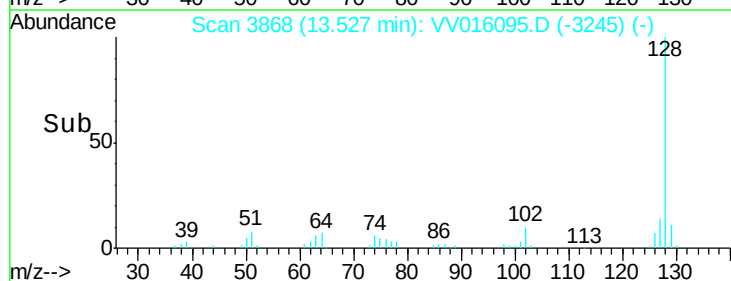
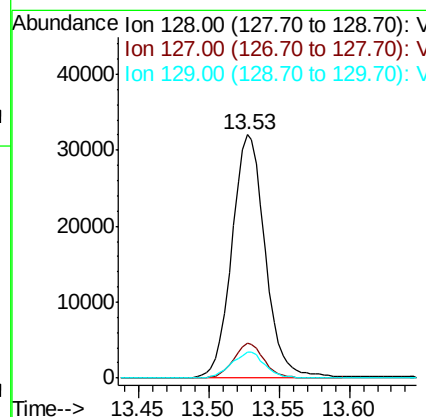
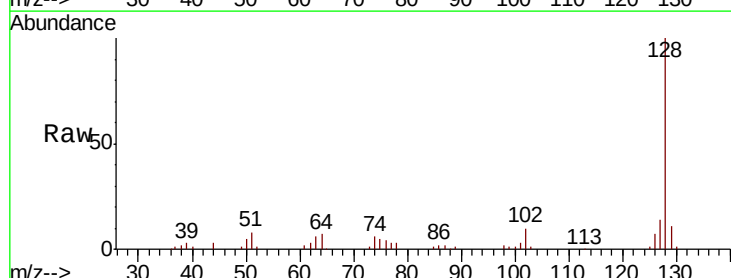
Instrument :
 MSVOA_V
 ClientSampleId :

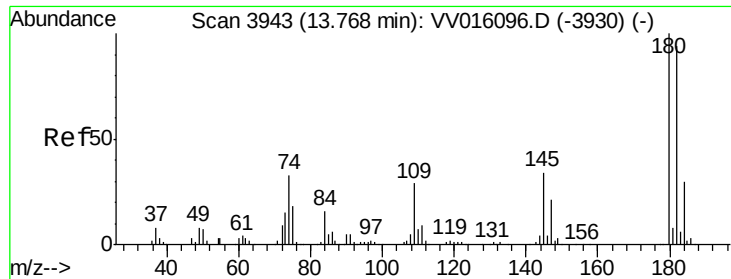
Tot Ion:180 Resp: 9804
 Ion Ratio Lower Upper
 180 100
 182 100.2 76.2 114.4
 145 31.8 26.2 39.2



#69
 Naphthalene
 Concen: 6.207 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.00 min
 Lab File: VV016095.D
 Acq: 18 May 2020 12:24

Tgt Ion:128 Resp: 52935
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.3 15.5
 129 10.6 8.6 13.0





#70

1,2,3-Trichlorobenzene

Concen: 3.733 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

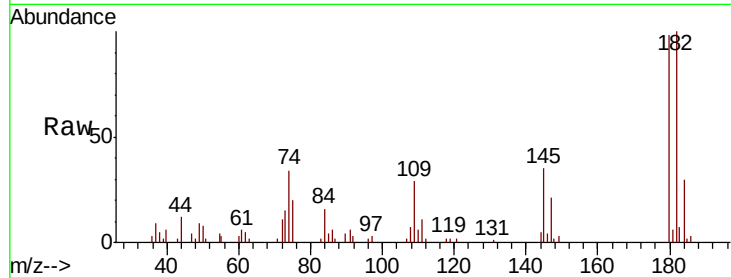
Lab File: VV016095.D

Acq: 18 May 2020 12:24

Instrument :

MSVOA_V

ClientSampleId :



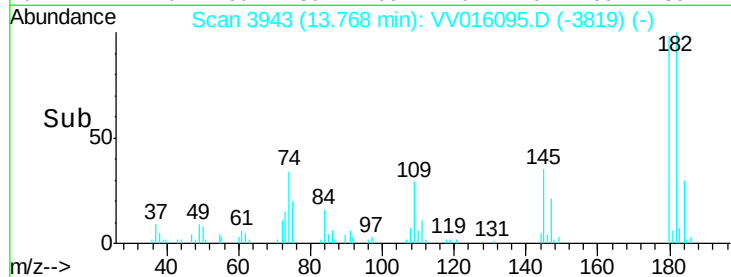
Tot Ion:180 Resp: 11103

Ion Ratio Lower Upper

180 100

182 100.3 75.3 112.9

145 35.4 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

