

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051019\
 Data File : VN055556.D
 Acq On : 10 May 2019 16:58
 Operator : JC/SP
 Sample : K2758-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IW-25

Quant Time: May 11 00:59:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 06:48:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	854302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1429143	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1193189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	319076	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	582881	45.31	ug/l	0.00
Spiked Amount						
			Recovery	=	90.62%	
35) Dibromofluoromethane	7.59	113	449419	48.75	ug/l	0.00
Spiked Amount						
			Recovery	=	97.50%	
50) Toluene-d8	10.09	98	1754885	48.85	ug/l	0.00
Spiked Amount						
			Recovery	=	97.70%	
62) 4-Bromofluorobenzene	12.40	95	489306	40.39	ug/l	0.00
Spiked Amount						
			Recovery	=	80.78%	

Target Compounds

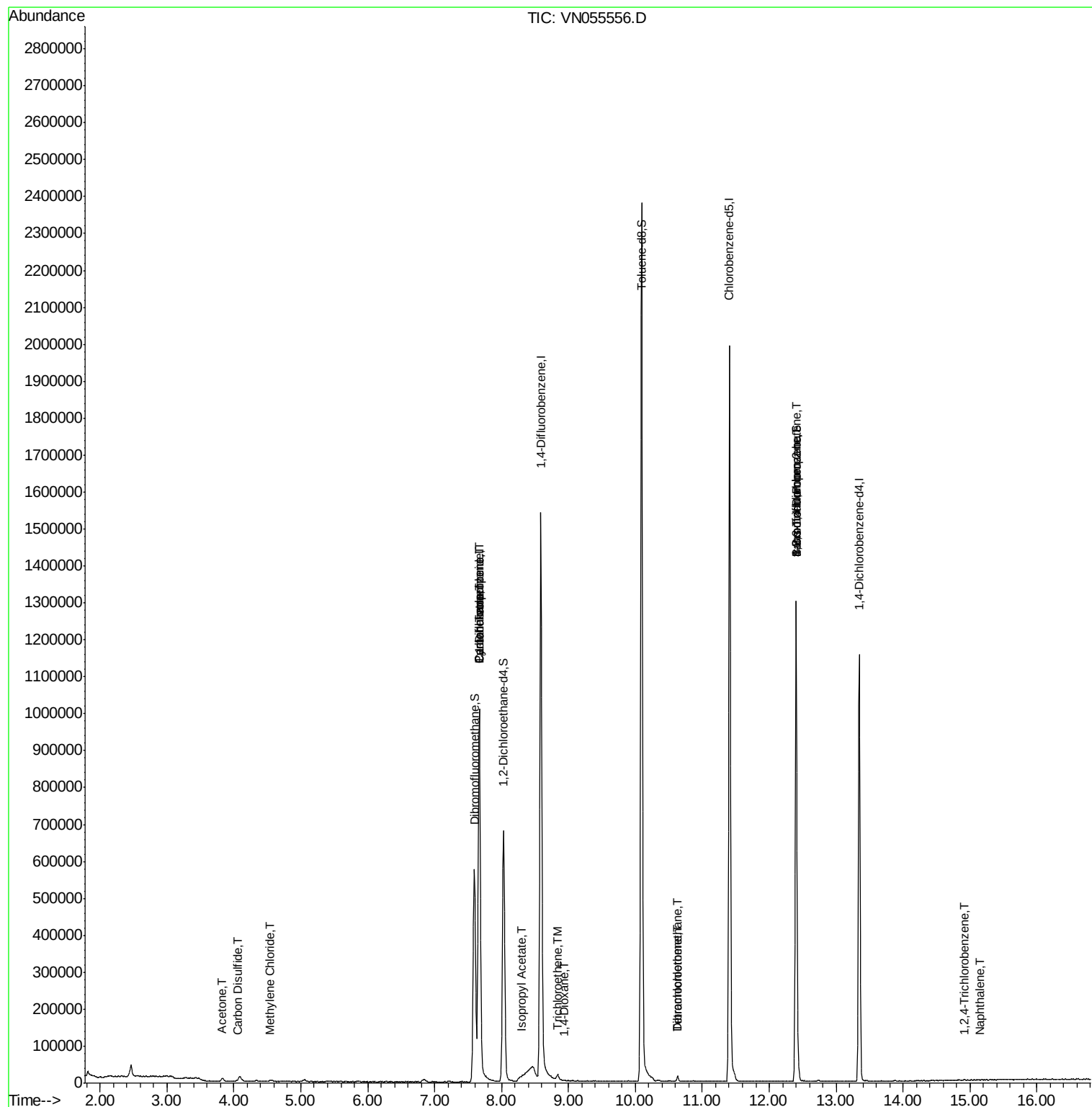
					Qvalue	
16) Acetone	3.83	43	14450	2.426	ug/l	99
17) Carbon Disulfide	4.05	76	5322	0.209	ug/l #	65
18) Methyl Acetate	4.33	43	2735	Below Cal		93
20) Methylene Chloride	4.55	84	3033	0.249	ug/l #	70
31) Cyclohexane	7.66	56	17920	0.863	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	66923	4.753	ug/l #	50
38) Carbon Tetrachloride	7.67	117	79921	6.741	ug/l #	15
43) Isopropyl Acetate	8.29	43	15991	0.685	ug/l #	63
44) Trichloroethene	8.84	130	4996	0.481	ug/l	82
49) 1,4-Dioxane	8.95	88	64	0.292	ug/l #	1
60) Dibromochloromethane	10.63	129	2780	0.302	ug/l #	11
64) Tetrachloroethene	10.63	164	2842	0.291	ug/l	89
71) Bromoform	12.40	173	3612	0.633	ug/l #	1
73) Isopropylbenzene	12.24	105	91	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.43	83	193	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	247223	28.461	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	247223	105.018	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	61	3.217	ug/l #	78
94) Hexachlorobutadiene	15.01	225	108	Below Cal	#	19
95) Naphthalene	15.14	128	123	2.946	ug/l #	70

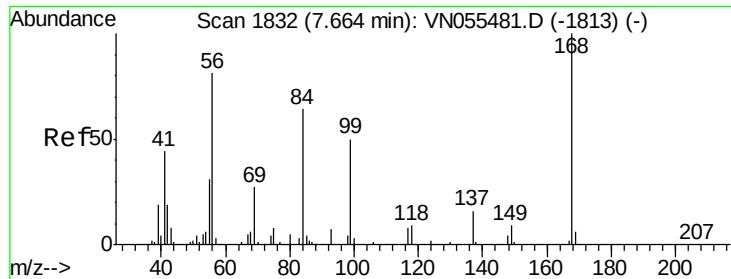
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051019\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
Quant Title : SW846 8260
QLast Update : Fri May 10 06:48:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampled :

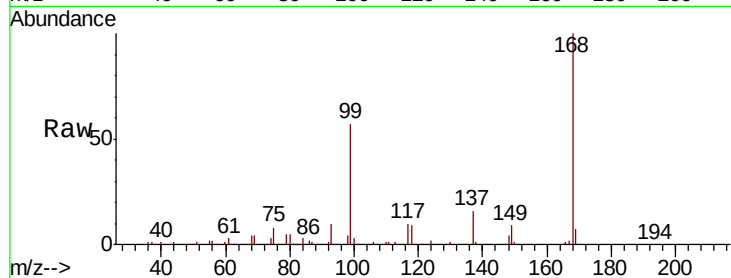
IW-25

Tot Ion:168 Resp: 854302

Ion Ratio Lower Upper

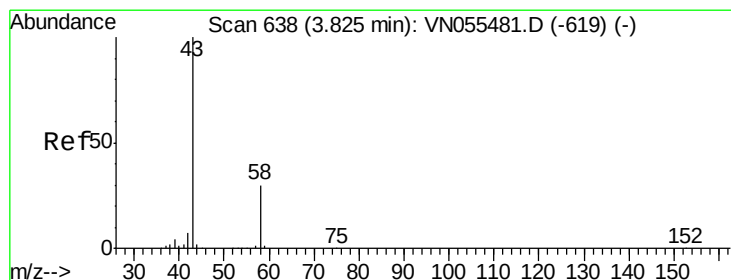
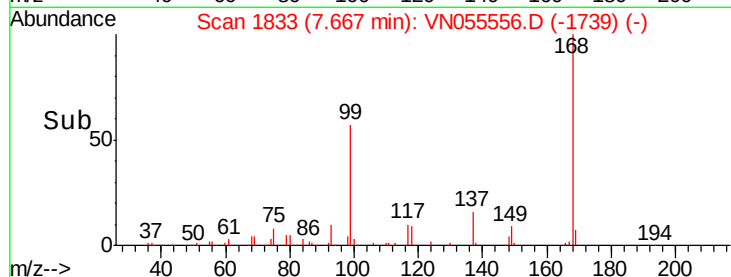
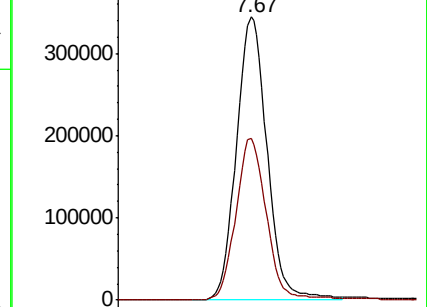
168 100

99 57.2 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): VN055556.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055556.D (-1739) (-)



#16

Acetone

Concen: 2.426 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.00 min

Lab File: VN055556.D

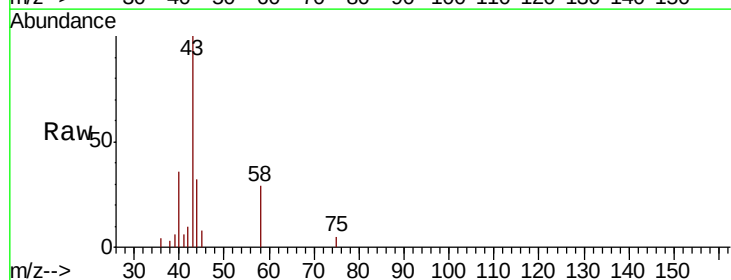
Acq: 10 May 2019 16:58

Tgt Ion: 43 Resp: 14450

Ion Ratio Lower Upper

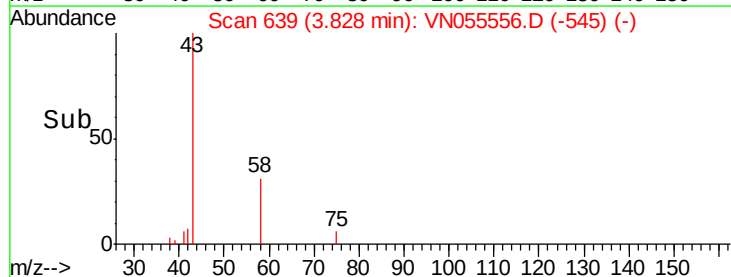
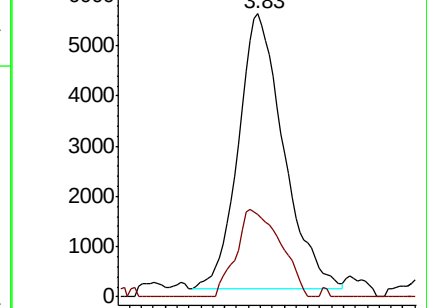
43 100

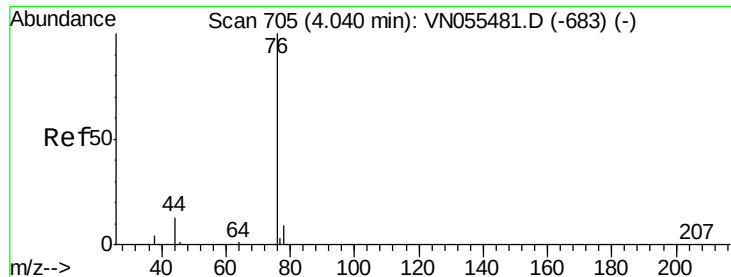
58 29.9 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN055556.D (-545) (-)

Ion 58.00 (57.70 to 58.70): VN055556.D (-545) (-)





#17

Carbon Disulfide

Concen: 0.209 ug/l

RT: 4.05 min Scan# 707

Delta R.T. 0.01 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampled :

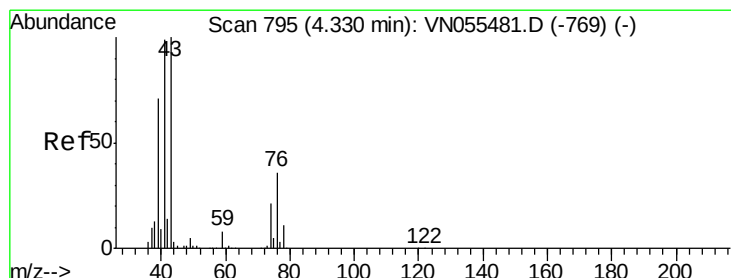
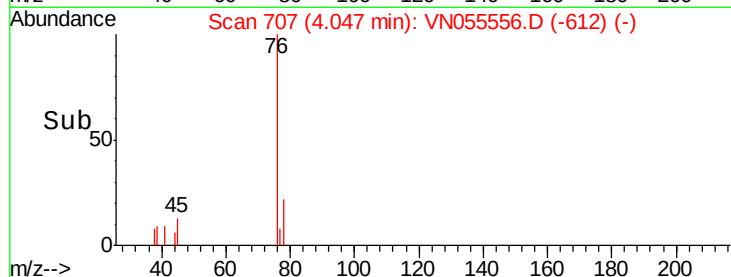
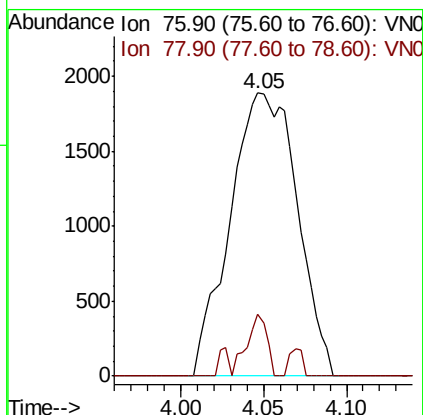
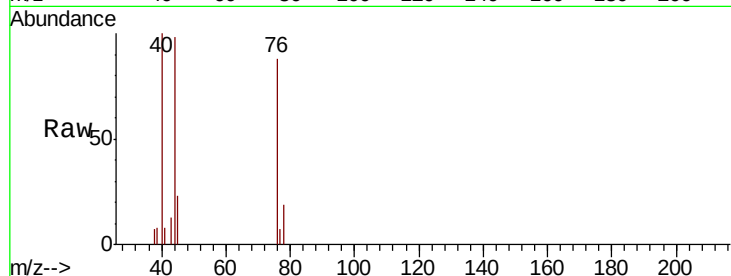
IW-25

Tot Ion: 76 Resp: 5322

Ion Ratio Lower Upper

76 100

78 21.9 7.4 11.0#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN055556.D

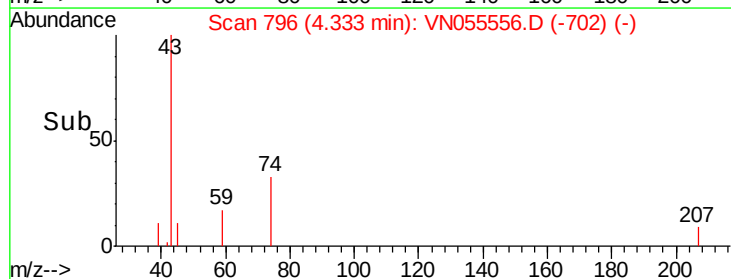
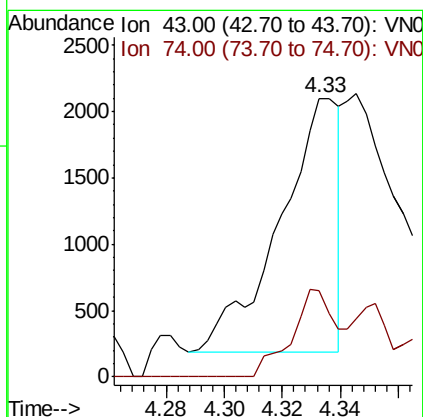
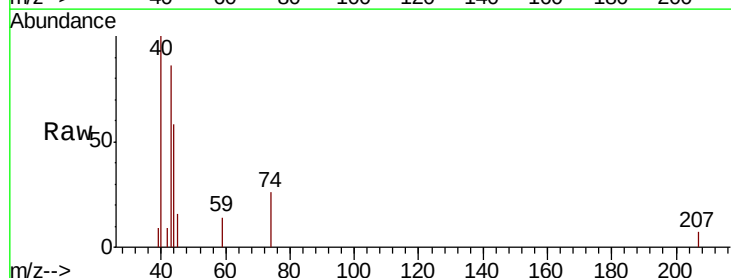
Acq: 10 May 2019 16:58

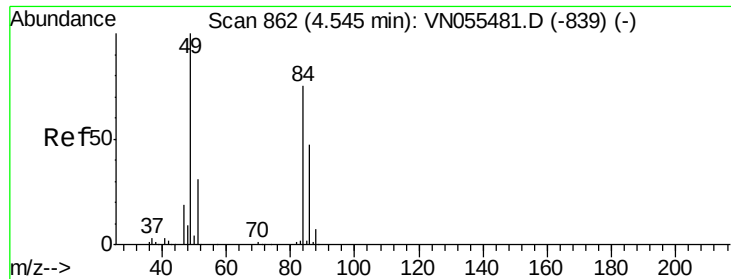
Tgt Ion: 43 Resp: 2735

Ion Ratio Lower Upper

43 100

74 23.8 16.3 24.5





#20

Methylene Chloride

Concen: 0.249 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.00 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

IW-25

Tot Ion: 84 Resp: 3033

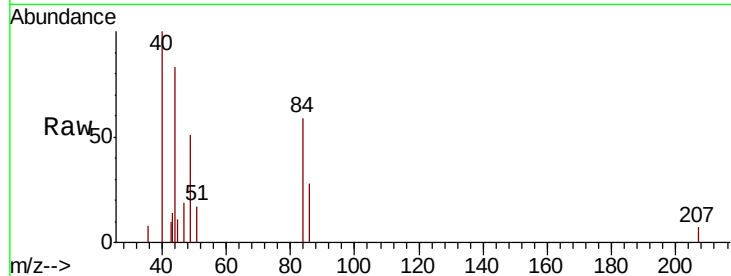
Ion Ratio Lower Upper

84 100

49 87.8 107.0 160.6#

51 28.9 33.0 49.4#

86 48.3 50.6 76.0#

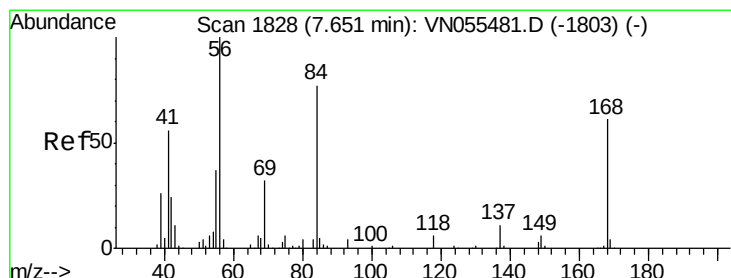
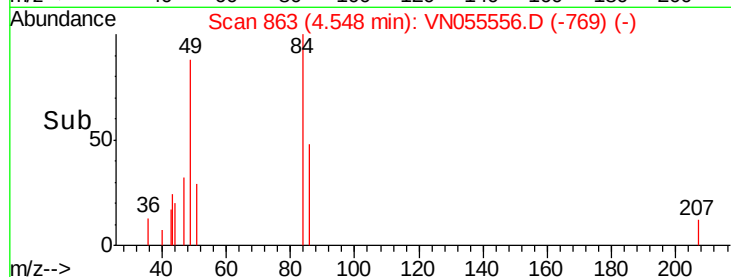
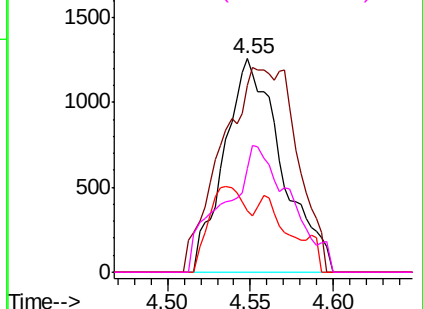


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#31

Cyclohexane

Concen: 0.863 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

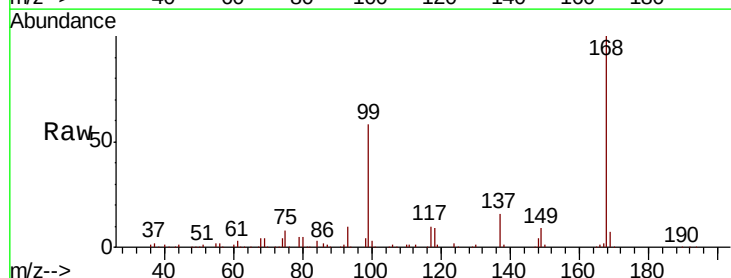
Tgt Ion: 56 Resp: 17920

Ion Ratio Lower Upper

56 100

69 185.8 26.0 39.0#

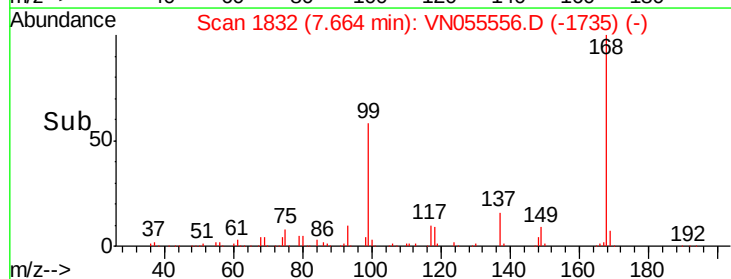
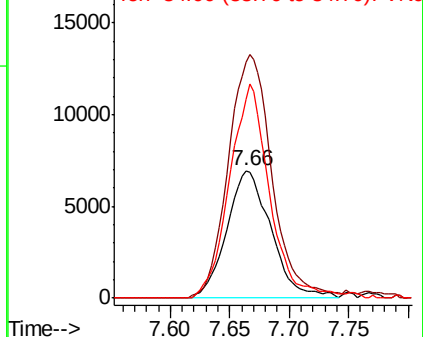
84 156.8 61.9 92.9#

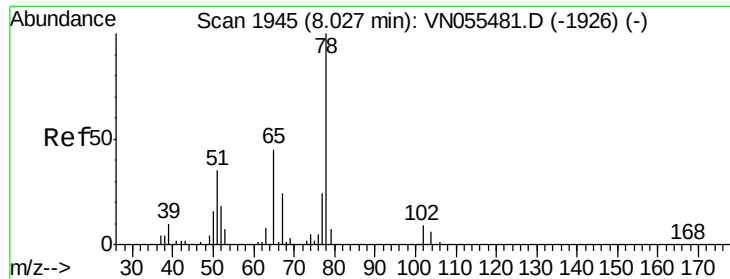


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

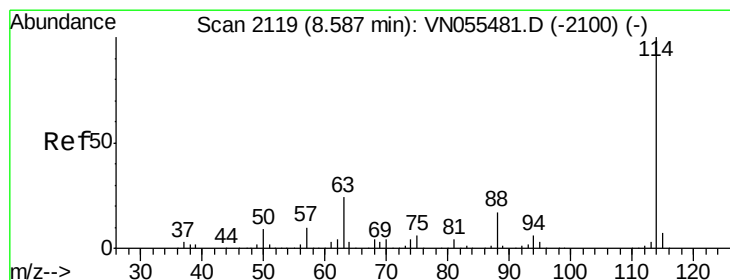
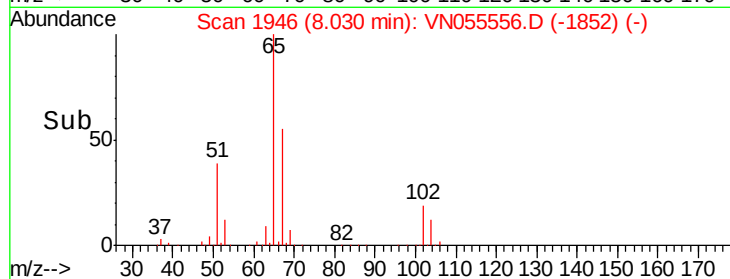
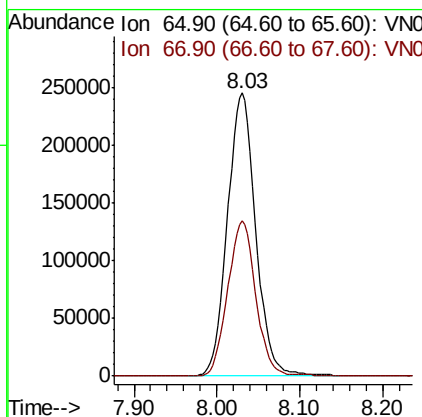
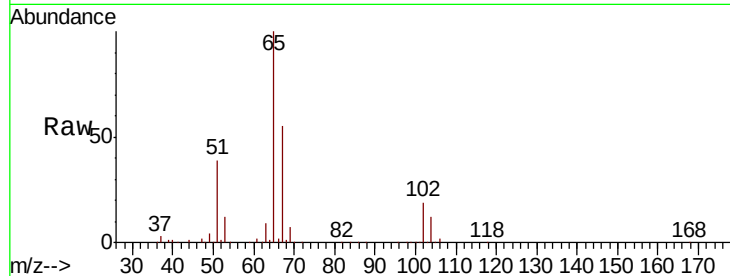




#33
 1,2-Dichloroethane-d4
 Concen: 45.315 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055556.D
 Acq: 10 May 2019 16:58

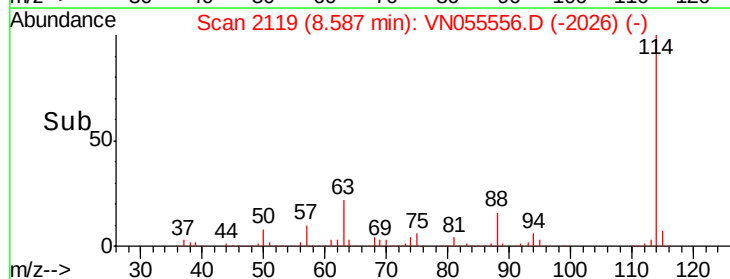
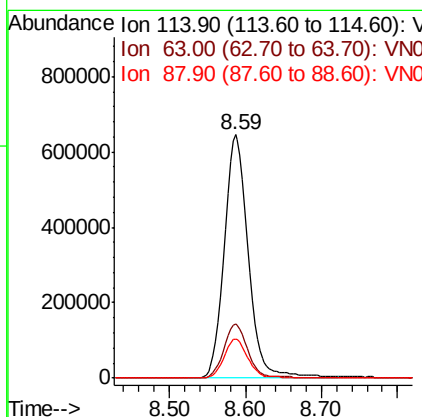
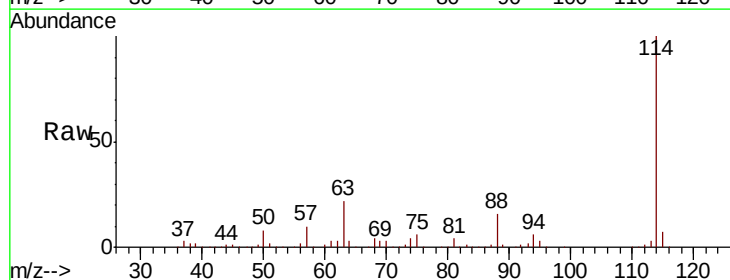
Instrument :
 MSVOA_N
 ClientSampled :
 IW-25

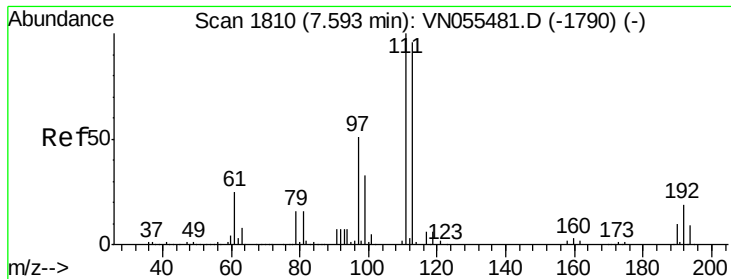
Tot Ion: 65 Resp: 582881
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055556.D
 Acq: 10 May 2019 16:58

Tgt Ion: 114 Resp: 1429143
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 47.4
 88 16.1 0.0 34.0

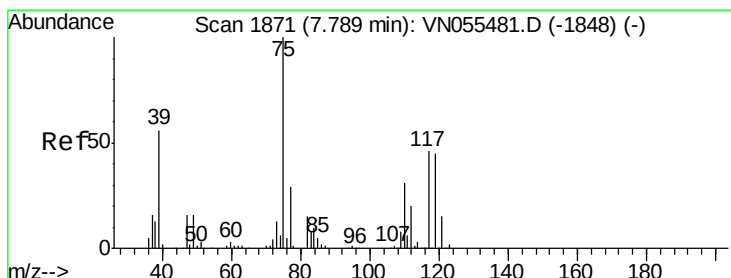
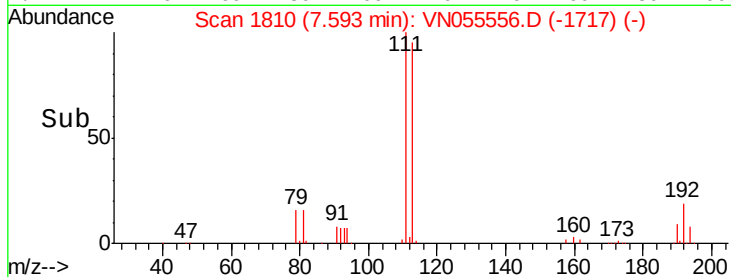
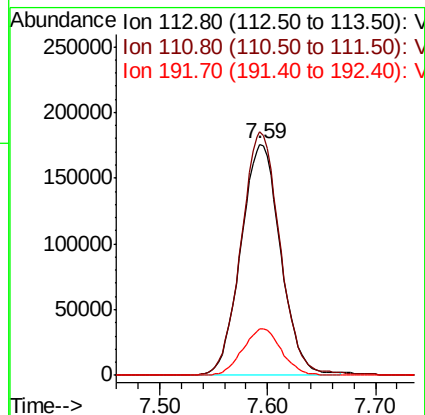
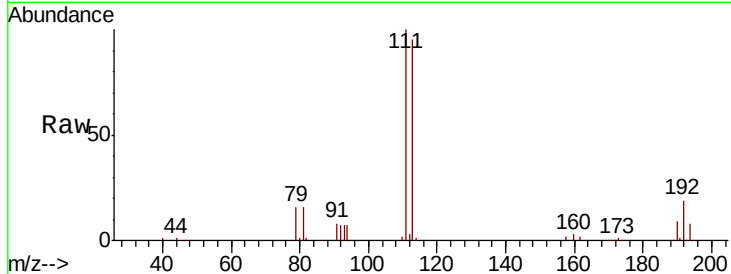




#35
 Dibromofluoromethane
 Concen: 48.749 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055556.D
 Acq: 10 May 2019 16:58

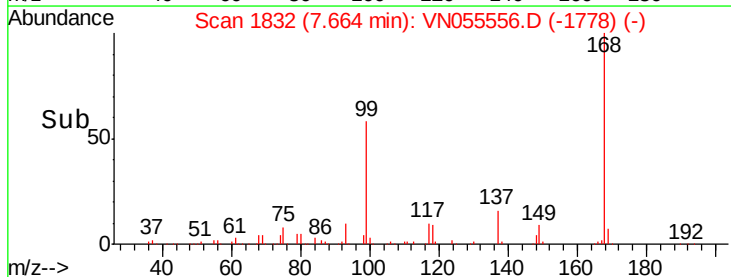
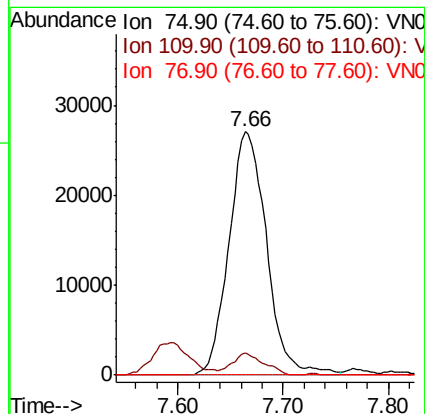
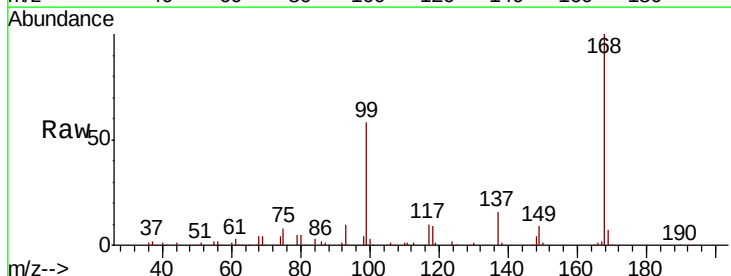
Instrument :
 MSVOA_N
 ClientSampleId :
 IW-25

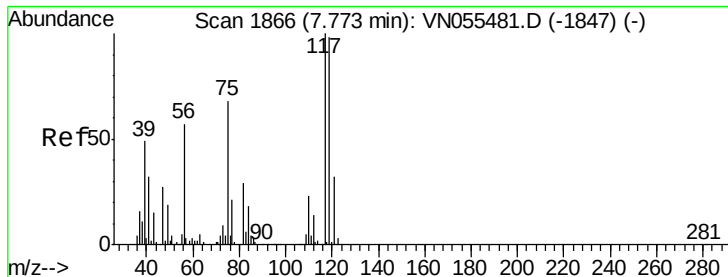
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.9	124.3
192	19.7	15.6	23.4



#36
 1,1-Dichloropropene
 Concen: 4.753 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055556.D
 Acq: 10 May 2019 16:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	16.1	48.3#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.741 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampled :

IW-25

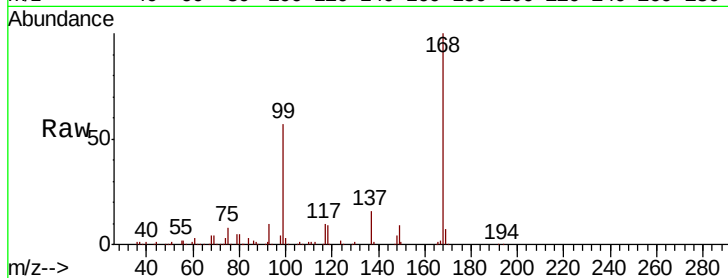
Tot Ion:117 Resp: 79921

Ion Ratio Lower Upper

117 100

119 4.6 77.8 116.6#

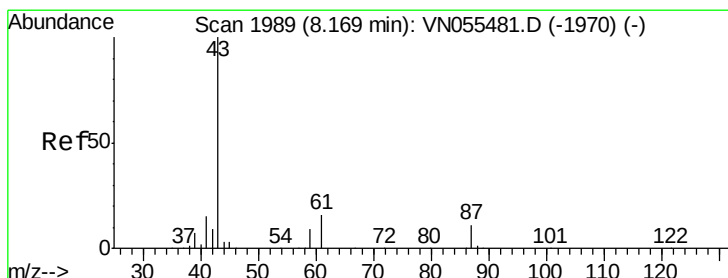
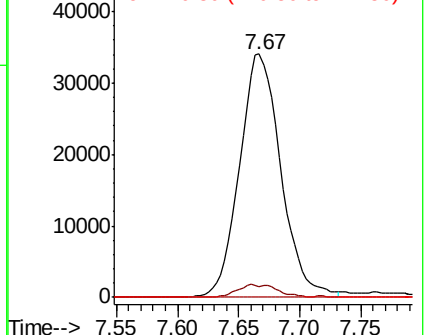
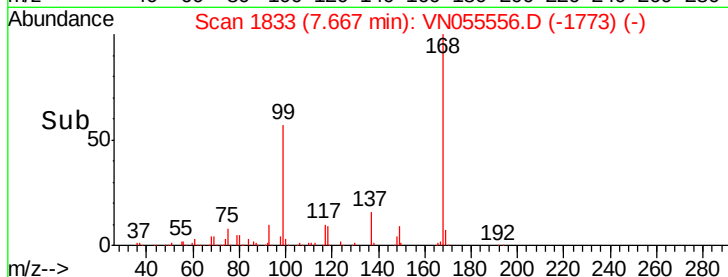
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.685 ug/l

RT: 8.29 min Scan# 2028

Delta R.T. 0.13 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

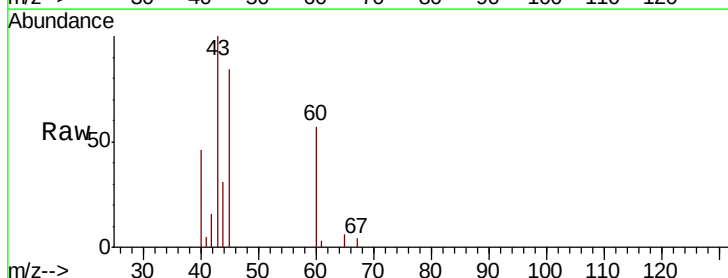
Tgt Ion: 43 Resp: 15991

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

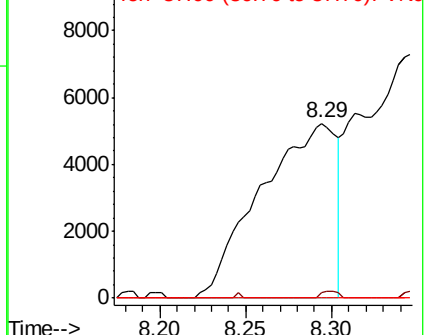
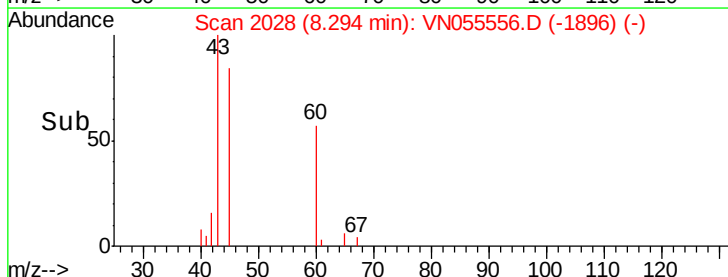
87 0.0 9.0 13.6#

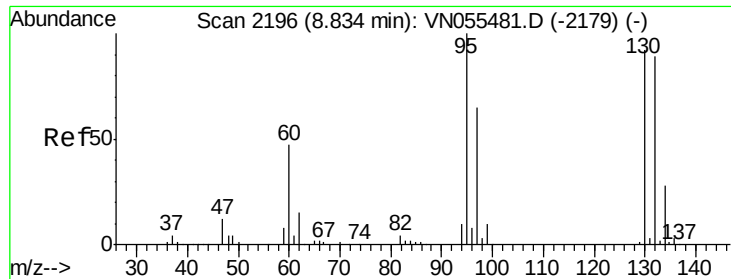


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#44

Trichloroethene

Concen: 0.481 ug/l

RT: 8.84 min Scan# 2198

Delta R.T. 0.01 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampled :

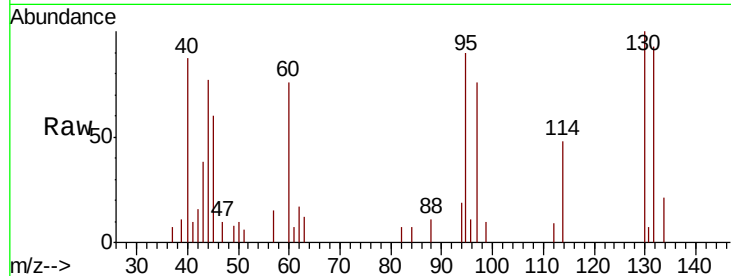
IW-25

Tot Ion:130 Resp: 4996

Ion Ratio Lower Upper

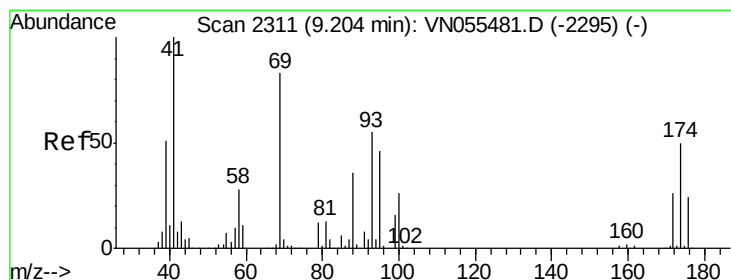
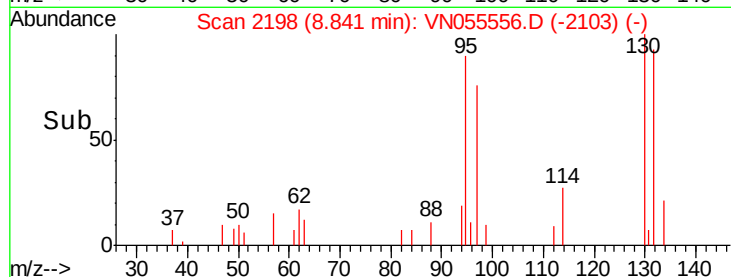
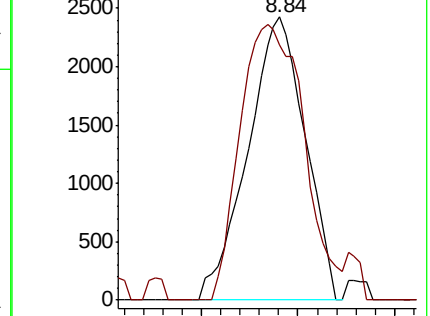
130 100

95 90.0 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#49

1,4-Dioxane

Concen: 0.292 ug/l

RT: 8.95 min Scan# 2232

Delta R.T. -0.25 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

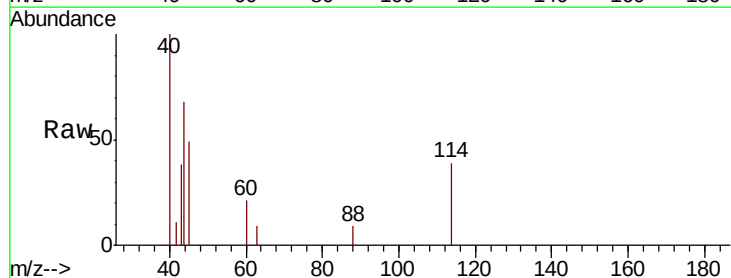
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 359.4 27.8 41.8#

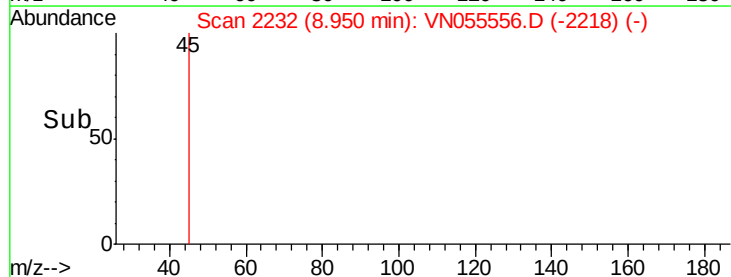
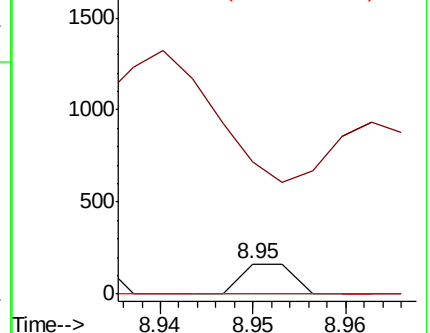
58 0.0 61.8 92.6#

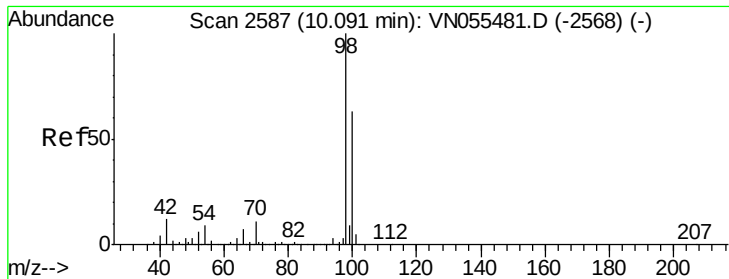


Abundance Ion 88.00 (87.70 to 88.70): VN

Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#50

Toluene-d8

Concen: 48.847 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampled :

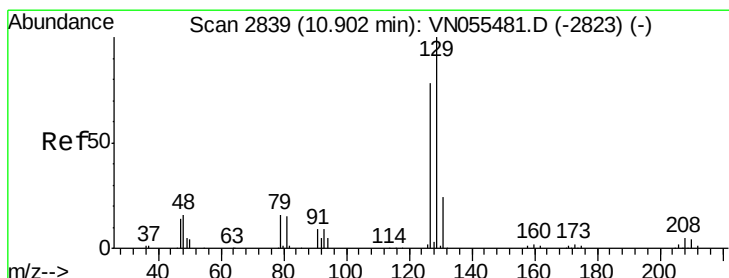
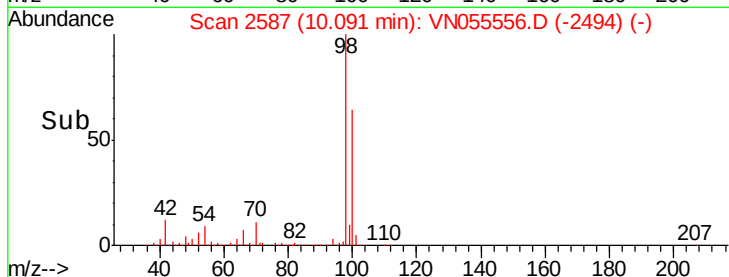
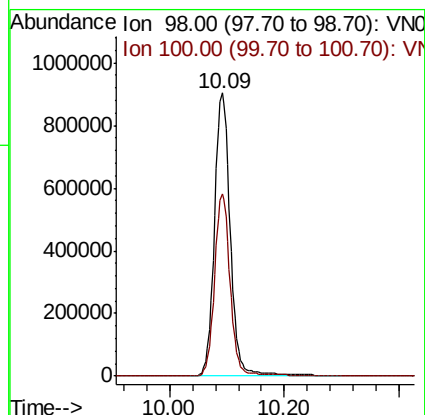
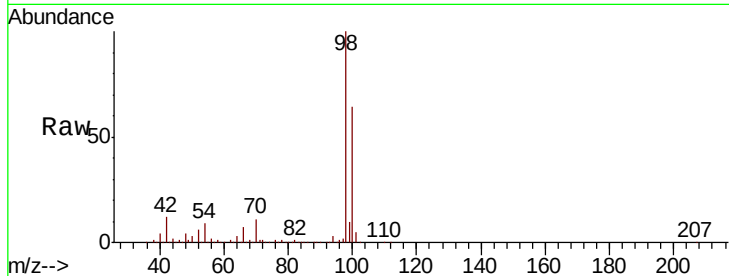
IW-25

Tot Ion: 98 Resp: 1754885

Ion Ratio Lower Upper

98 100

100 62.6 50.4 75.6



#60

Dibromochloromethane

Concen: 0.302 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN055556.D

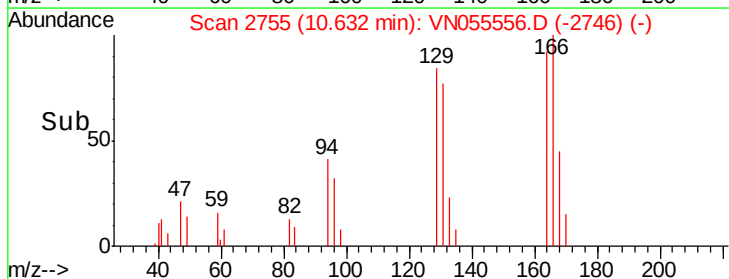
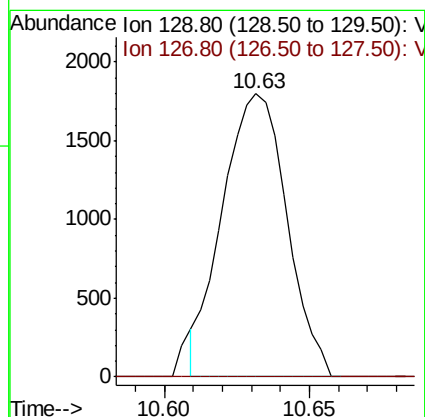
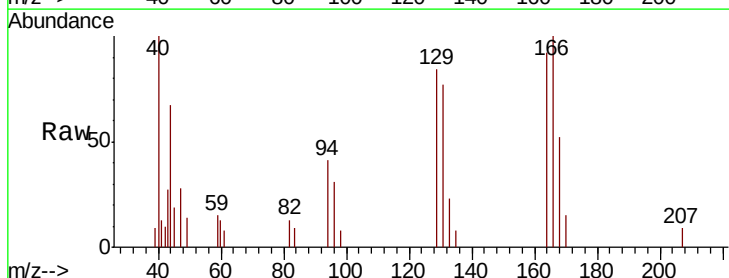
Acq: 10 May 2019 16:58

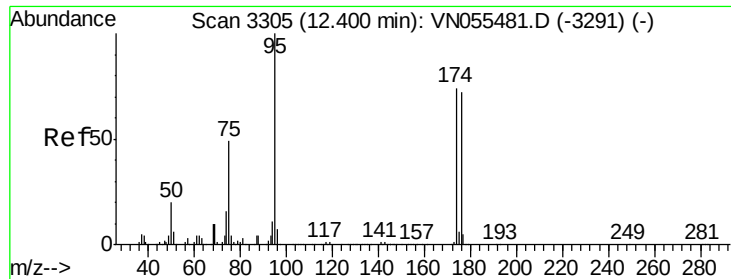
Tgt Ion: 129 Resp: 2780

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 40.393 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampled :

IW-25

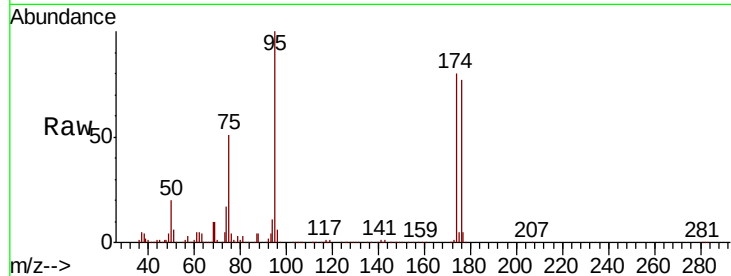
Tot Ion: 95 Resp: 489306

Ion Ratio Lower Upper

95 100

174 79.2 0.0 152.2

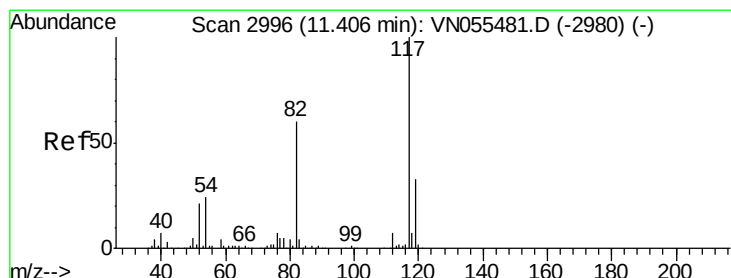
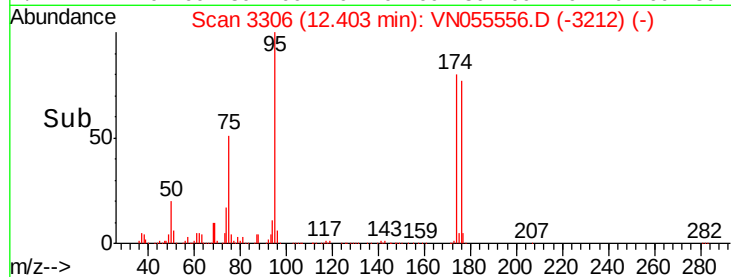
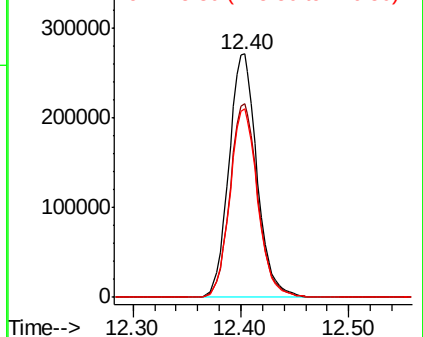
176 76.6 0.0 147.8



Abundance Ion 94.90 (94.60 to 95.60): VN055481.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055481.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055481.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

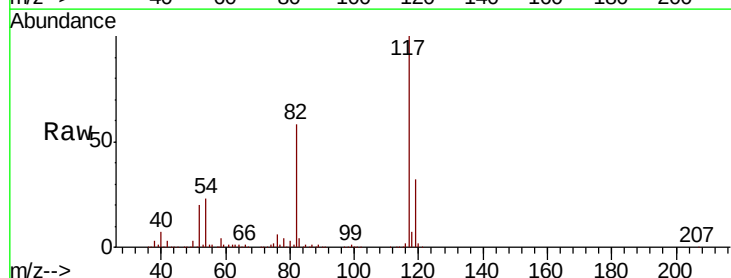
Tgt Ion: 117 Resp: 1193189

Ion Ratio Lower Upper

117 100

82 58.1 48.0 72.0

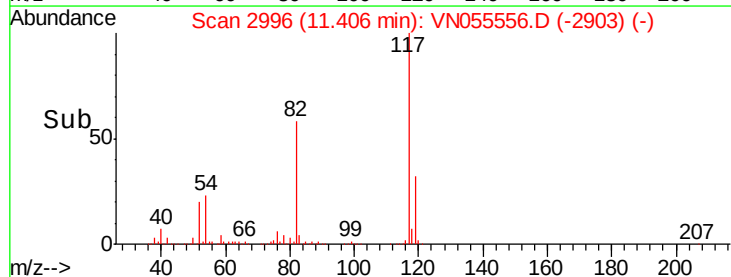
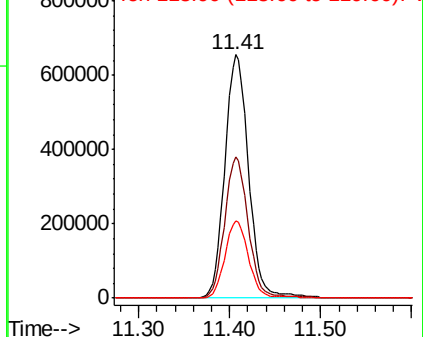
119 31.9 26.0 39.0

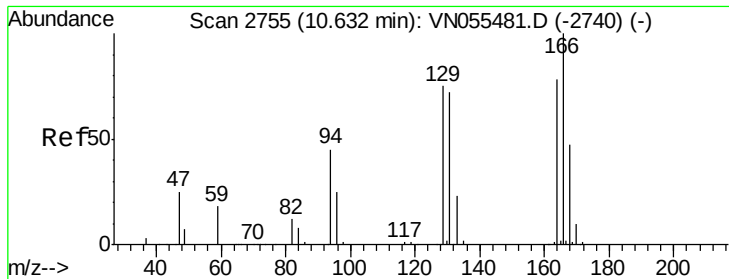


Abundance Ion 116.90 (116.60 to 117.60): VN055481.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN055481.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN055481.D (-2980) (-)





#64

Tetrachloroethene

Concen: 0.291 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

IW-25

Tot Ion:164 Resp: 2842

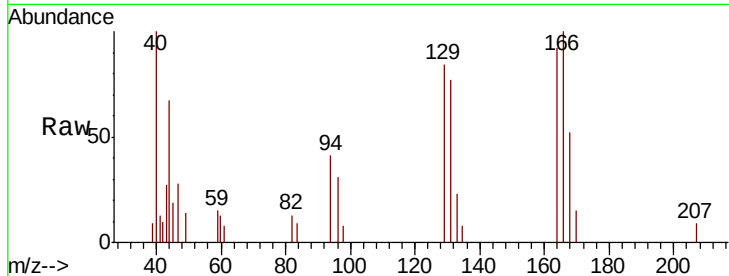
Ion Ratio Lower Upper

164 100

166 108.2 102.6 153.8

129 90.6 77.0 115.6

131 83.8 73.7 110.5



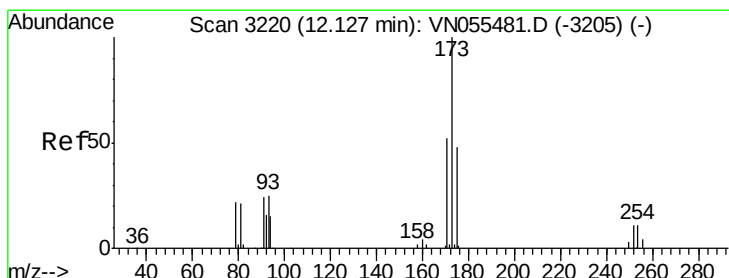
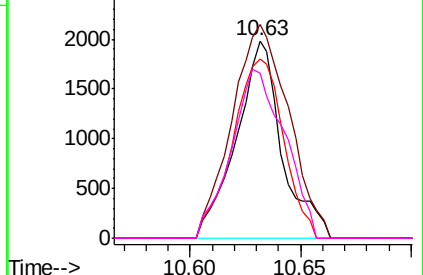
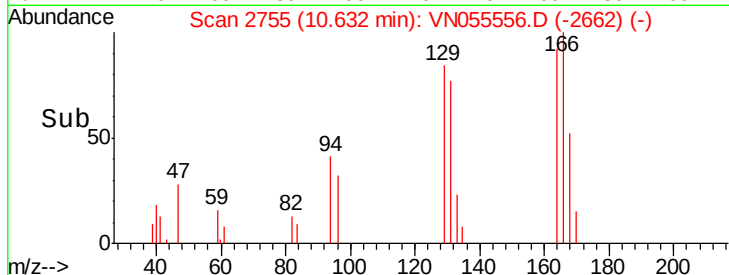
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



#71

Bromoform

Concen: 0.633 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

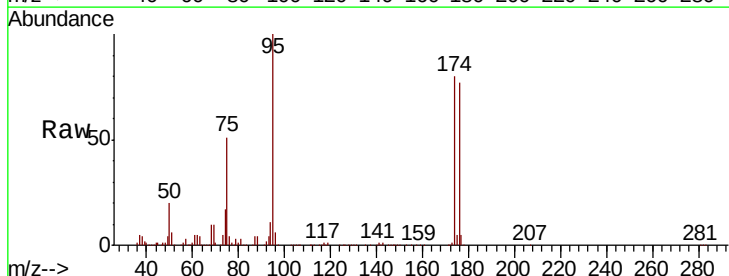
Tgt Ion:173 Resp: 3612

Ion Ratio Lower Upper

173 100

175 606.6 24.1 72.4#

254 0.0 0.1 0.1#

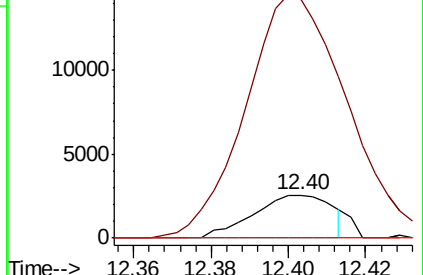
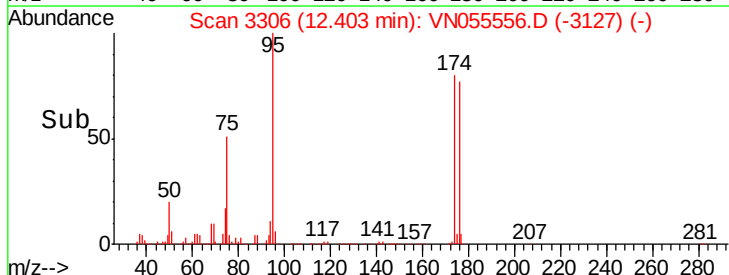


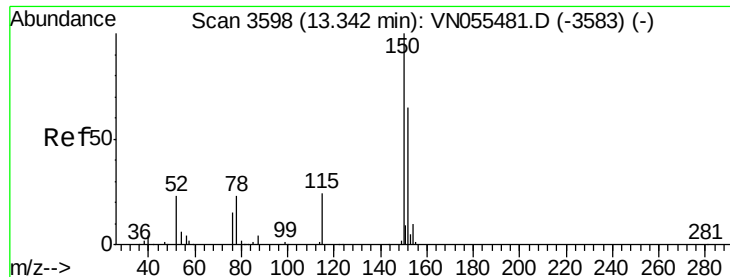
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

IW-25

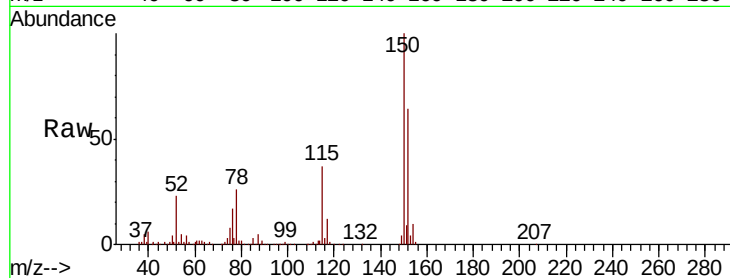
Tot Ion:152 Resp: 319076

Ion Ratio Lower Upper

152 100

115 58.0 30.1 90.5

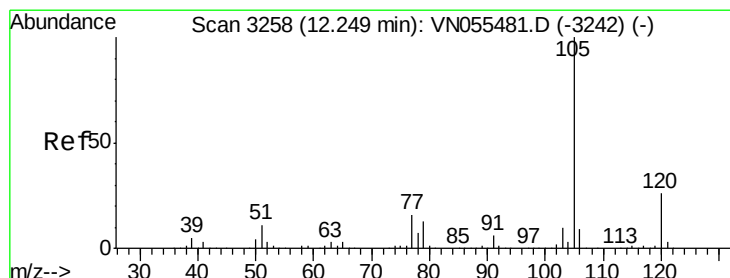
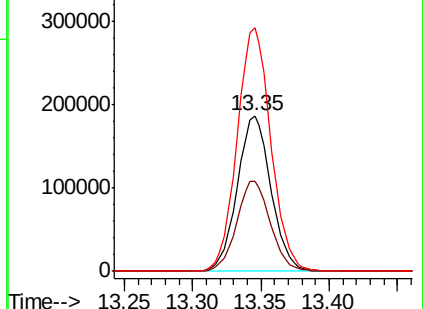
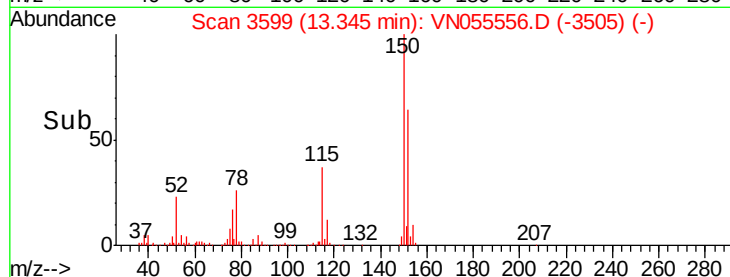
150 157.1 0.0 355.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN055556.D

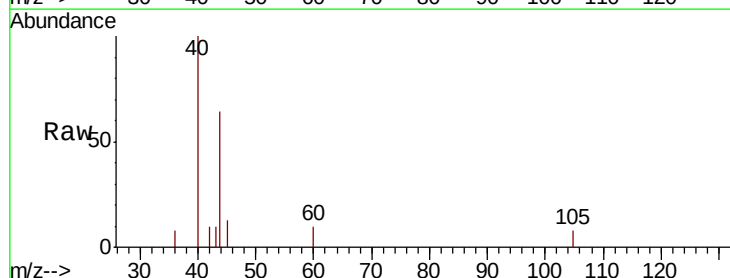
Acq: 10 May 2019 16:58

Tgt Ion:105 Resp: 91

Ion Ratio Lower Upper

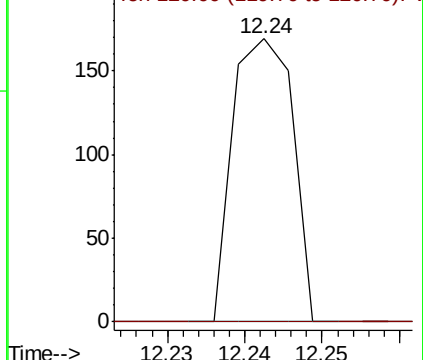
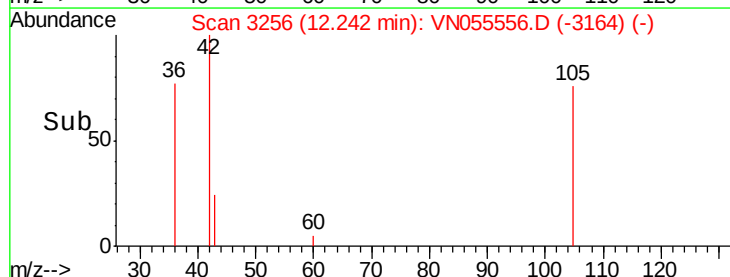
105 100

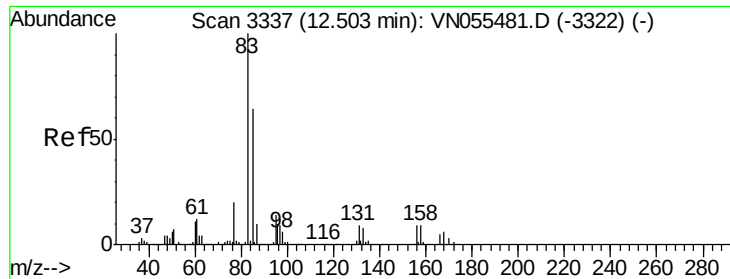
120 0.0 13.0 39.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.43 min Scan# 3313

Delta R.T. -0.08 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

IW-25

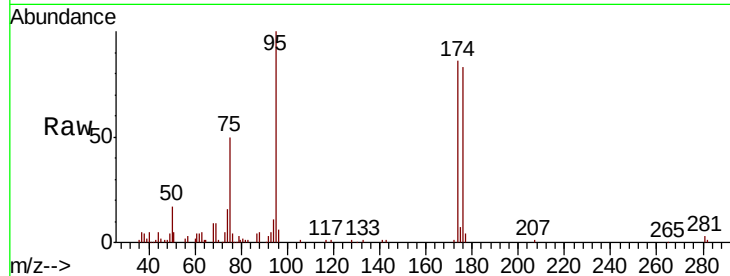
Tot Ion: 83 Resp: 193

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

300

200

100

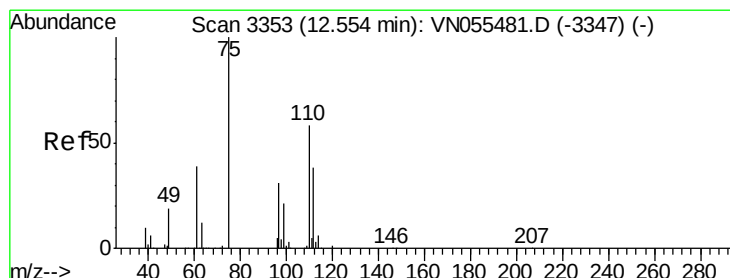
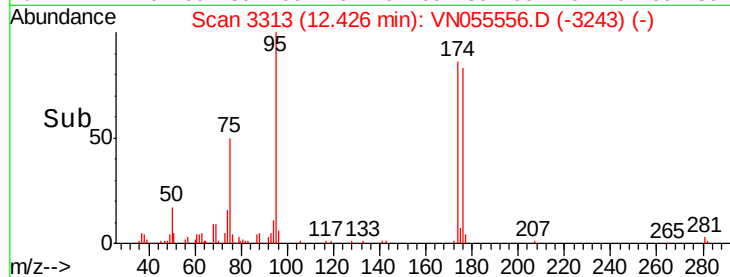
0

12.42

12.43

12.44

Time-->



#76

1,2,3-Trichloropropane

Concen: 28.461 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN055556.D

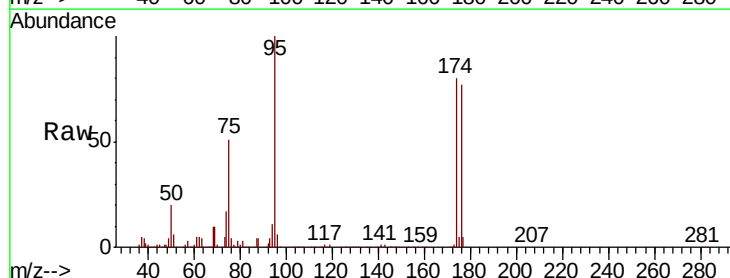
Acq: 10 May 2019 16:58

Tgt Ion: 75 Resp: 247223

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

150000

100000

50000

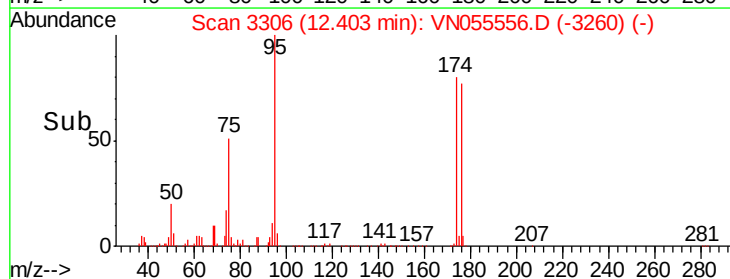
0

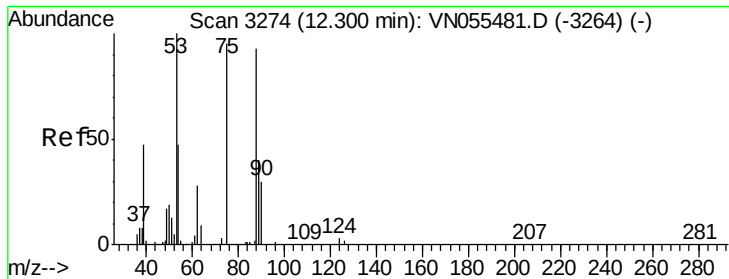
12.30

12.40

12.50

Time-->

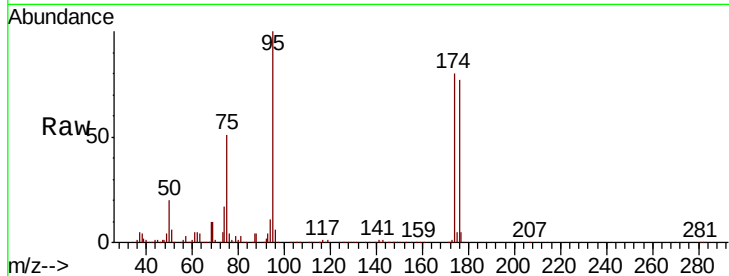




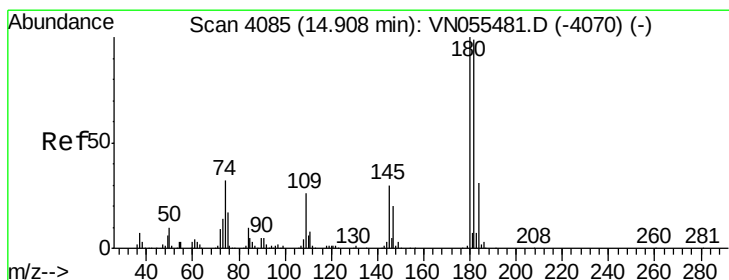
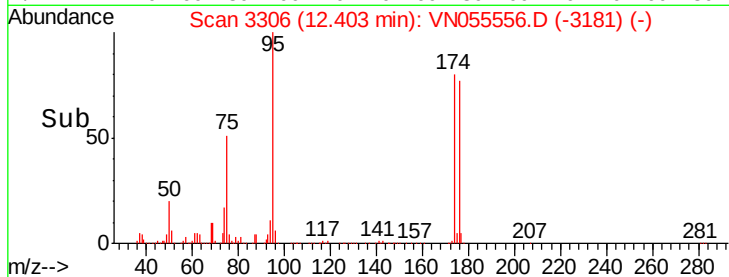
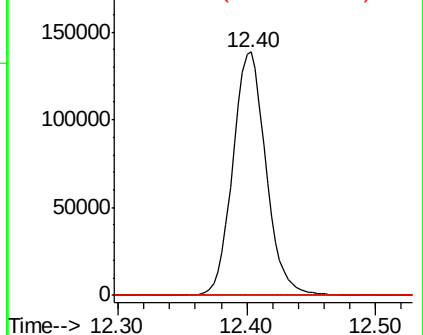
#81
trans-1,4-Dichloro-2-butene
Concen: 105.018 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN055556.D
Acq: 10 May 2019 16:58

Instrument :
MSVOA_N
ClientSampled :
IW-25

Tot Ion: 75 Resp: 247223
Ion Ratio Lower Upper
75 100
53 0.0 86.5 129.7#
89 0.0 35.7 53.5#

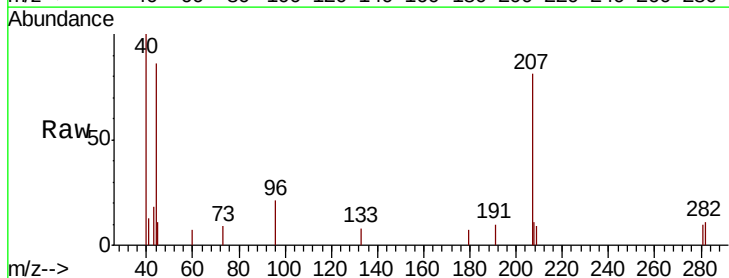


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

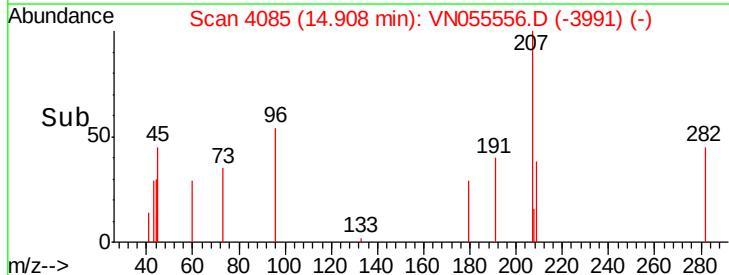
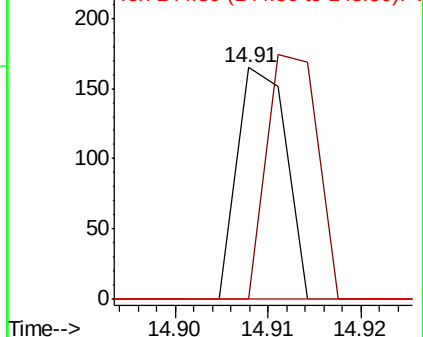


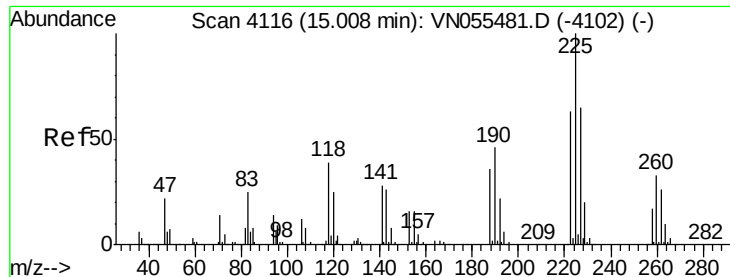
#93
1,2,4-Trichlorobenzene
Concen: 3.217 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN055556.D
Acq: 10 May 2019 16:58

Tgt Ion: 180 Resp: 61
Ion Ratio Lower Upper
180 100
182 108.2 48.7 146.1
145 0.0 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

Instrument :

MSVOA_N

ClientSampled :

IW-25

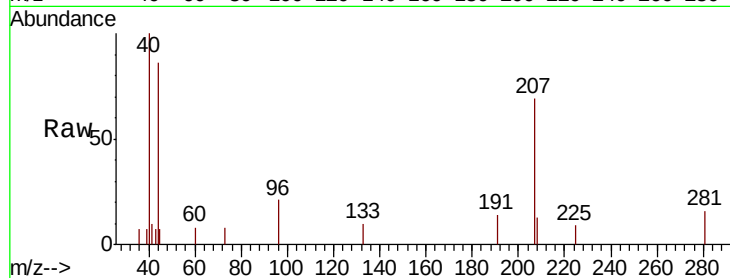
Tot Ion:225 Resp: 108

Ion Ratio Lower Upper

225 100

223 0.0 31.4 94.3#

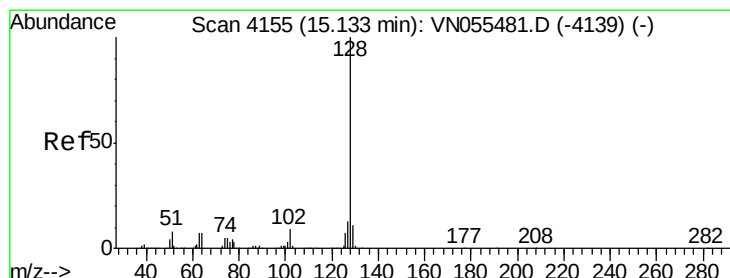
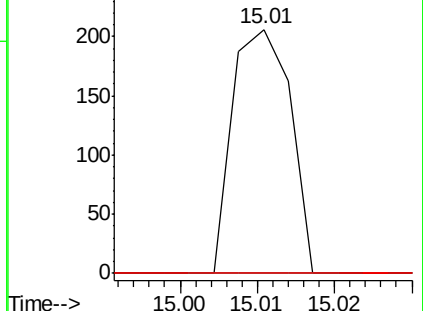
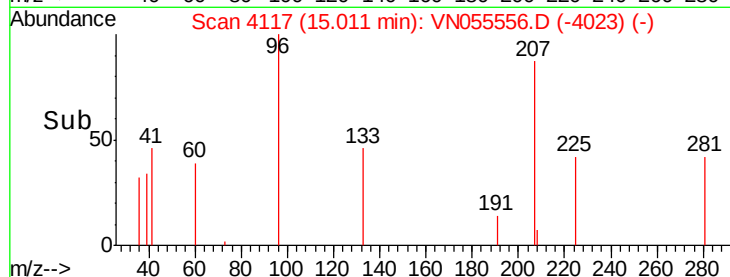
227 0.0 32.0 96.0#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.946 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN055556.D

Acq: 10 May 2019 16:58

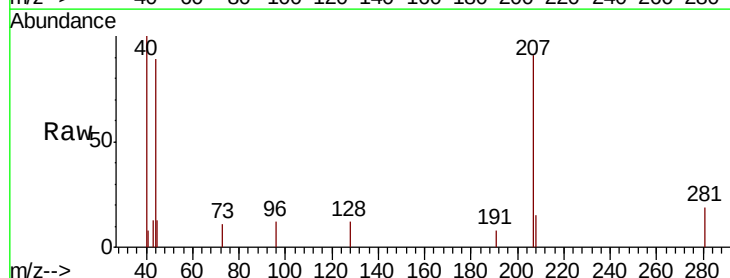
Tgt Ion:128 Resp: 123

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

