

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051019\
 Data File : VN055547.D
 Acq On : 10 May 2019 13:12
 Operator : JC/SP
 Sample : K2758-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IW-19

Quant Time: May 11 00:56:25 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

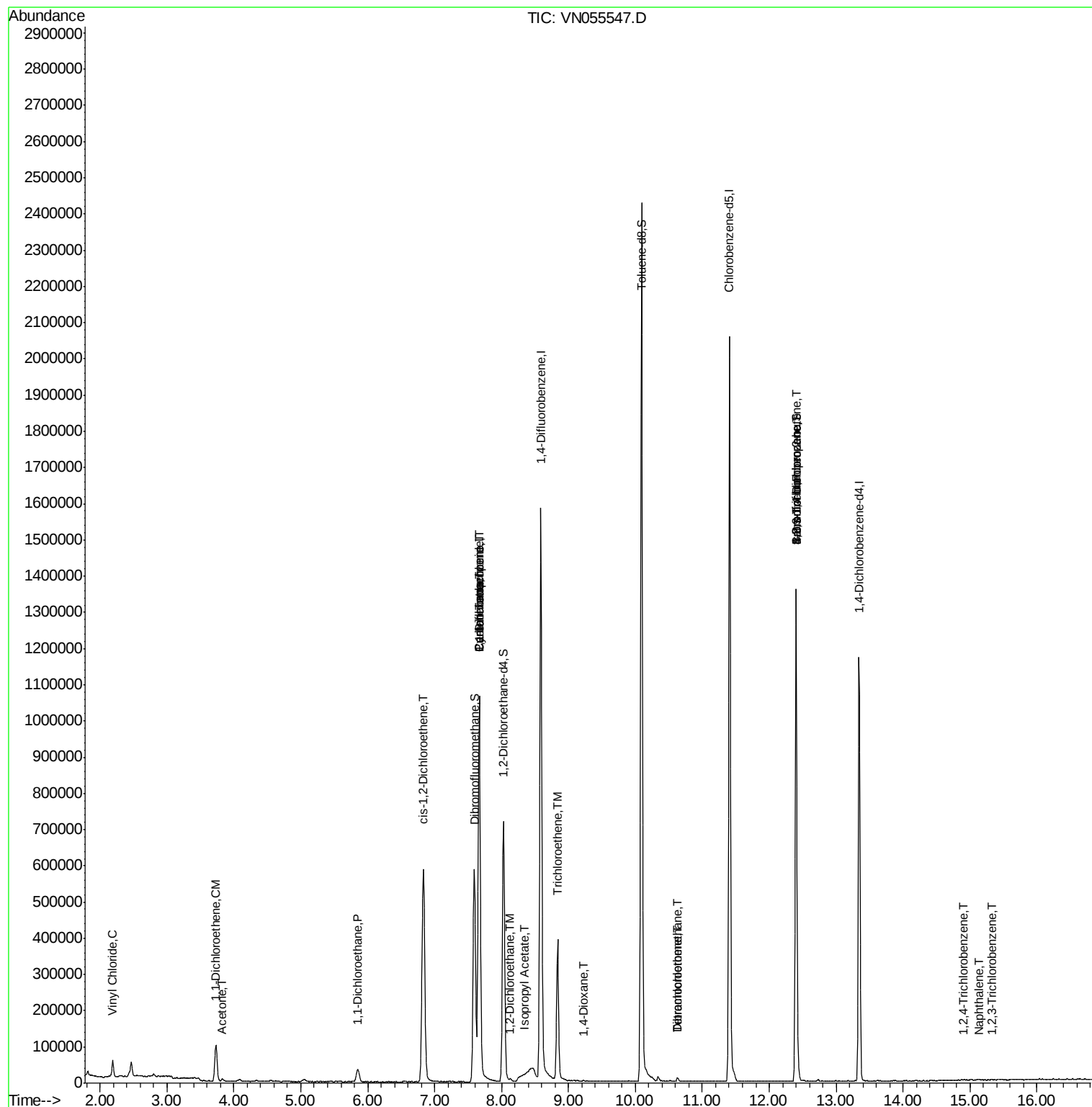
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	892214	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1458679	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1223764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	326180	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	600980	44.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.48%	
35) Dibromofluoromethane	7.59	113	464572	49.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.74%	
50) Toluene-d8	10.09	98	1741986	47.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.02%	
62) 4-Bromofluorobenzene	12.40	95	502473	40.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.28%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.19	62	32376	2.324	ug/l	96
12) 1,1-Dichloroethene	3.73	96	51555	5.287	ug/l	97
16) Acetone	3.83	43	7590	1.220	ug/l #	70
18) Methyl Acetate	4.33	43	5350	Below Cal	#	72
24) 1,1-Dichloroethane	5.85	63	54509	2.488	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	391724	32.059	ug/l	90
31) Cyclohexane	7.66	56	19317	0.891	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	71725	4.991	ug/l #	51
38) Carbon Tetrachloride	7.66	117	84847	7.012	ug/l #	16
42) 1,2-Dichloroethane	8.12	62	3850	0.246	ug/l	88
43) Isopropyl Acetate	8.33	43	30181	1.267	ug/l #	63
44) Trichloroethene	8.83	130	144369	13.604	ug/l	95
49) 1,4-Dioxane	9.21	88	182	0.814	ug/l #	60
60) Dibromochloromethane	10.63	129	2205	0.235	ug/l #	11
64) Tetrachloroethene	10.63	164	2459	0.245	ug/l #	86
71) Bromoform	12.40	173	3599	0.615	ug/l #	1
73) Isopropylbenzene	12.25	105	553	Below Cal	#	72
75) 1,1,2,2-Tetrachloroethane	12.40	83	232	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	249607	28.110	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	249607	103.721	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	409	3.284	ug/l	92
94) Hexachlorobutadiene	15.01	225	370	Below Cal	#	48
95) Naphthalene	15.13	128	1692	3.054	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.31	180	701	2.550	ug/l #	72

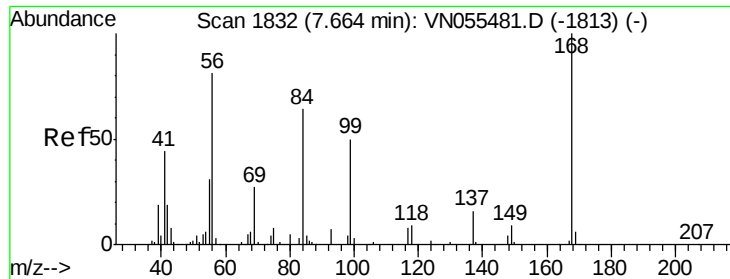
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampled :

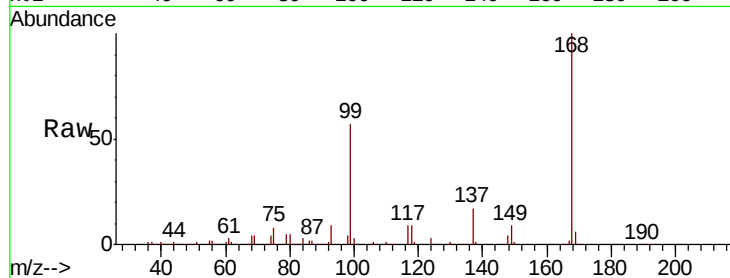
IW-19

Tot Ion:168 Resp: 892214

Ion Ratio Lower Upper

168 100

99 56.7 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

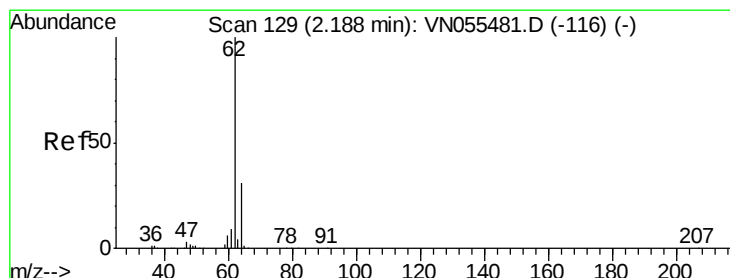
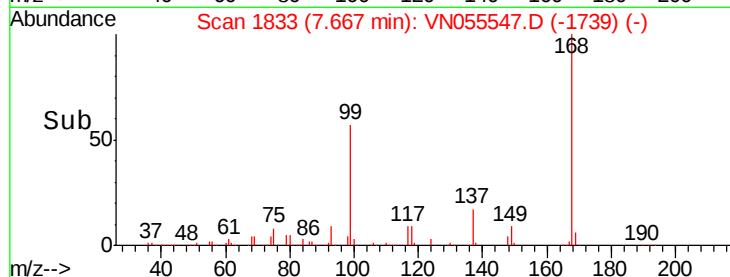
200000

100000

0

7.60 7.70 7.80

Time-->



#4

Vinyl Chloride

Concen: 2.324 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055547.D

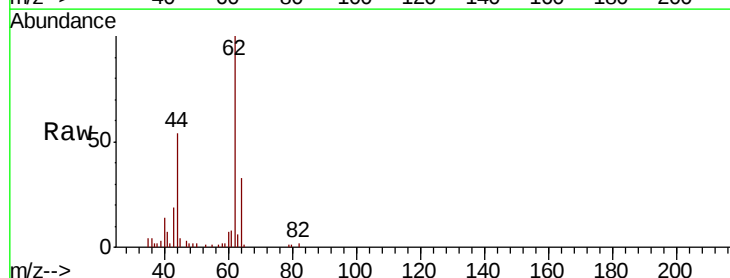
Acq: 10 May 2019 13:12

Tgt Ion: 62 Resp: 32376

Ion Ratio Lower Upper

62 100

64 33.4 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

25000

20000

15000

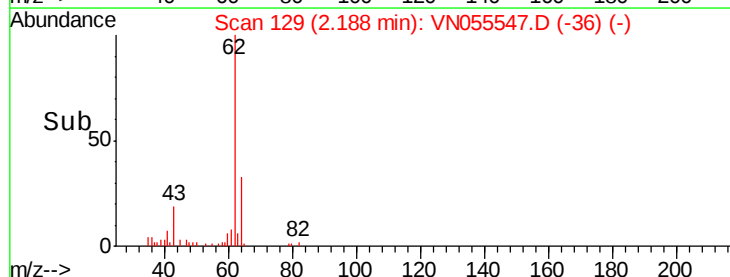
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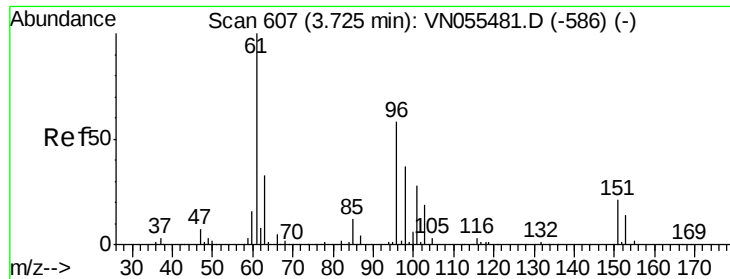
5000

0

2.15 2.20 2.25

Time-->

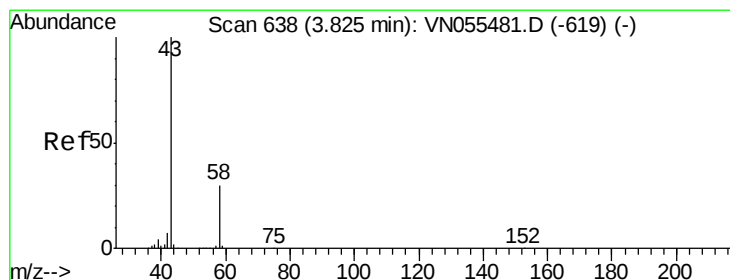
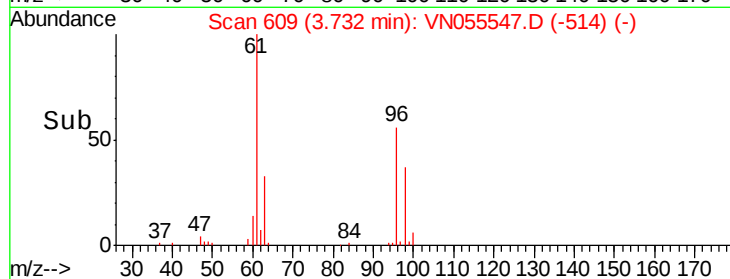
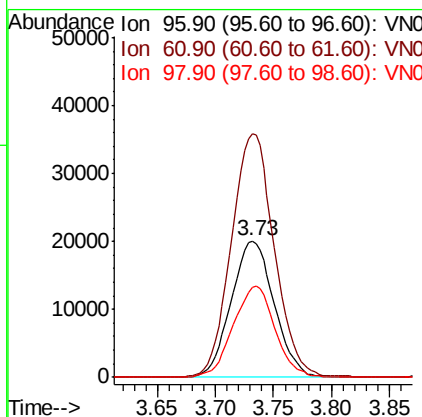
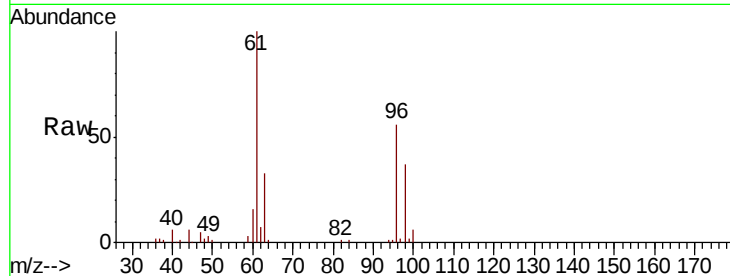




#12
 1,1-Dichloroethene
 Concen: 5.287 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. 0.01 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

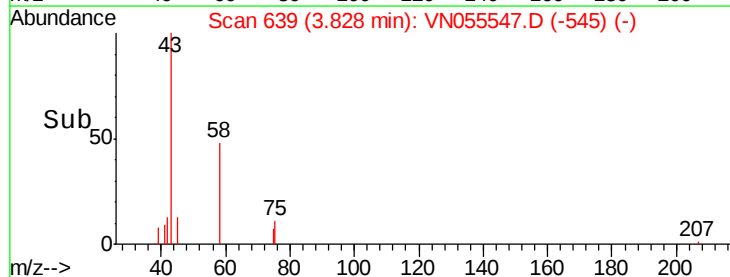
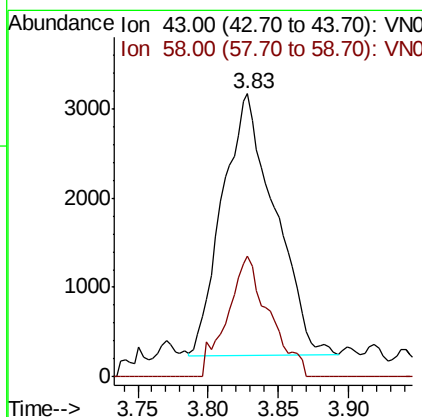
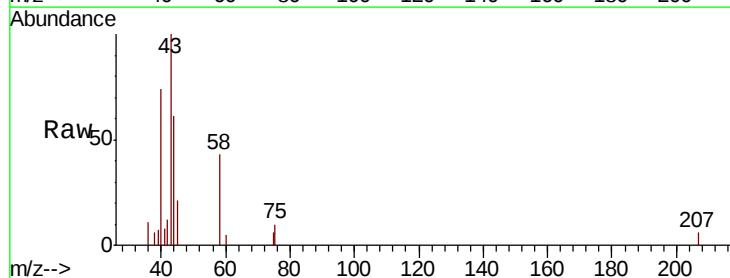
Instrument :
 MSVOA_N
 ClientSampled :
 IW-19

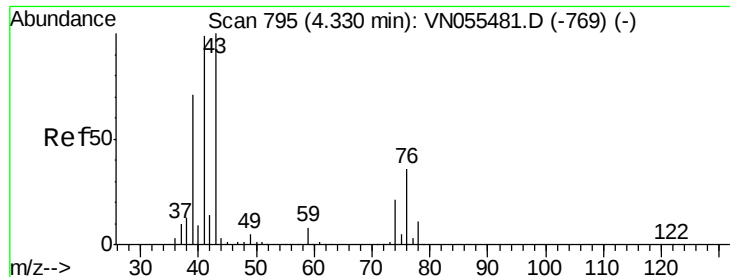
Tot Ion: 96 Resp: 51555
 Ion Ratio Lower Upper
 96 100
 61 177.3 138.7 208.1
 98 65.7 50.6 76.0



#16
 Acetone
 Concen: 1.220 ug/l
 RT: 3.83 min Scan# 639
 Delta R.T. 0.00 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

Tgt Ion: 43 Resp: 7590
 Ion Ratio Lower Upper
 43 100
 58 46.3 24.2 36.2#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampleId :

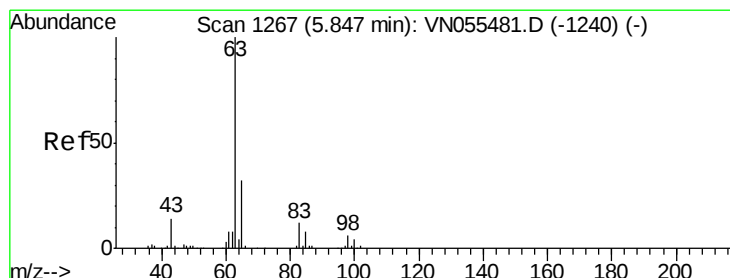
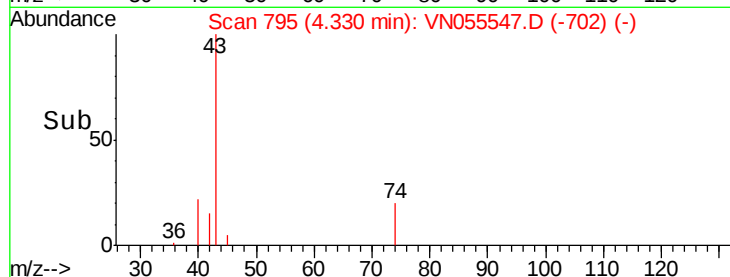
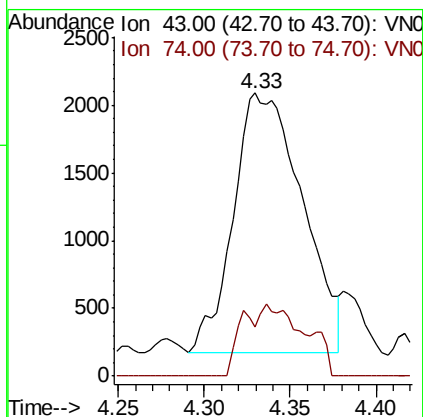
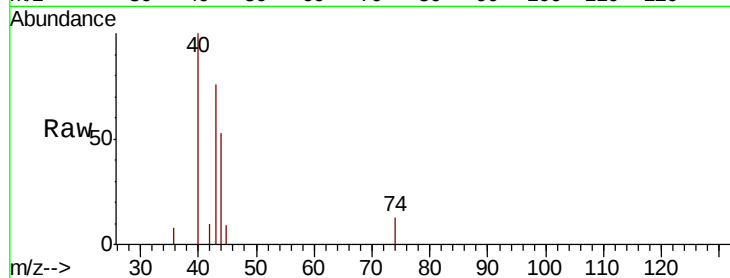
IW-19

Tot Ion: 43 Resp: 5350

Ion Ratio Lower Upper

43 100

74 7.6 16.3 24.5#



#24

1,1-Dichloroethane

Concen: 2.488 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.01 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

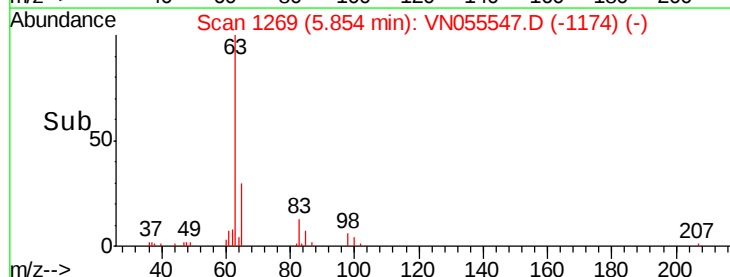
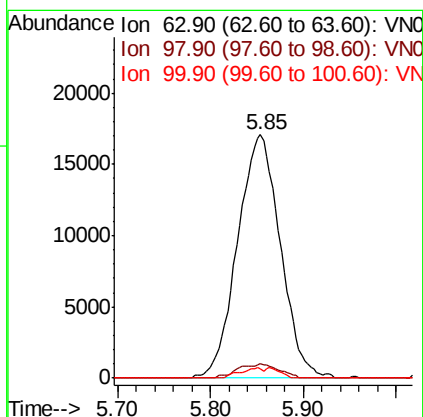
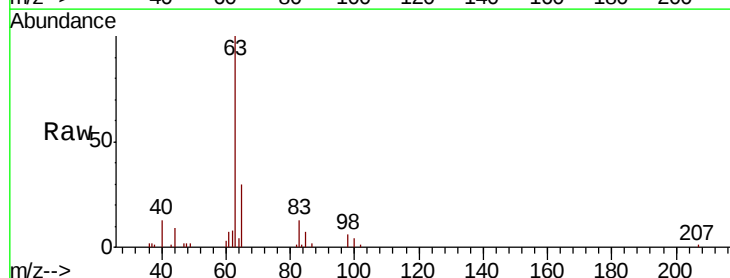
Tgt Ion: 63 Resp: 54509

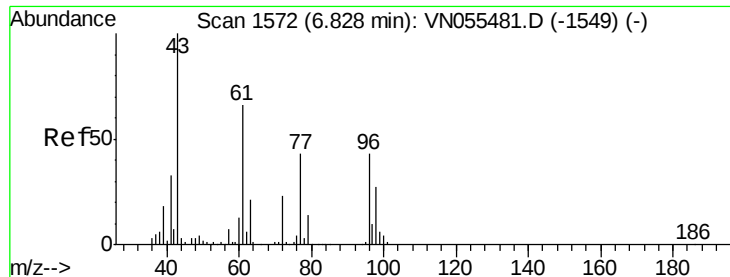
Ion Ratio Lower Upper

63 100

98 5.9 3.0 9.0

100 3.7 1.9 5.7

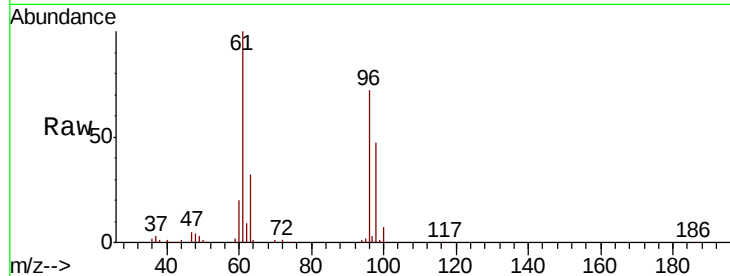




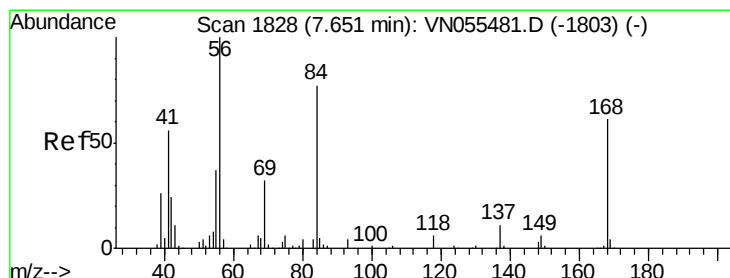
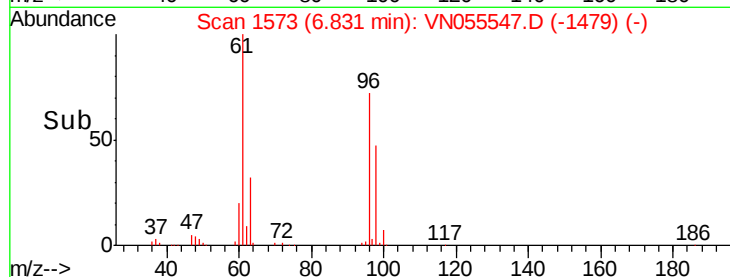
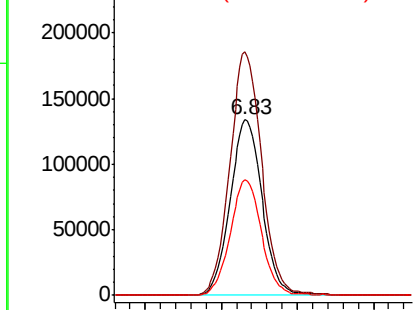
#27
 cis-1,2-Dichloroethene
 Concen: 32.059 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

Instrument :
 MSVOA_N
 ClientSampleId :
 IW-19

Tot Ion: 96 Resp: 391724
 Ion Ratio Lower Upper
 96 100
 61 137.8 0.0 310.8
 98 64.0 0.0 129.4

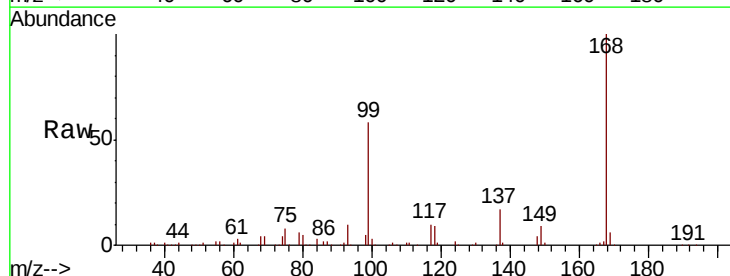


Abundance Ion 95.90 (95.60 to 96.60): VNO
 Ion 60.90 (60.60 to 61.60): VNO
 Ion 97.90 (97.60 to 98.60): VNO

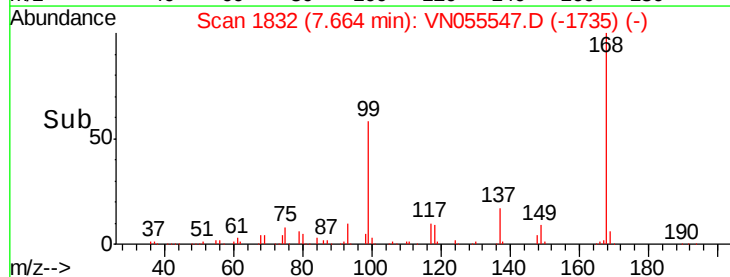
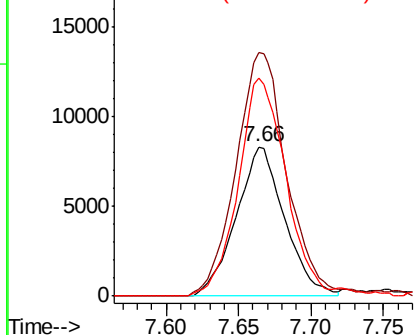


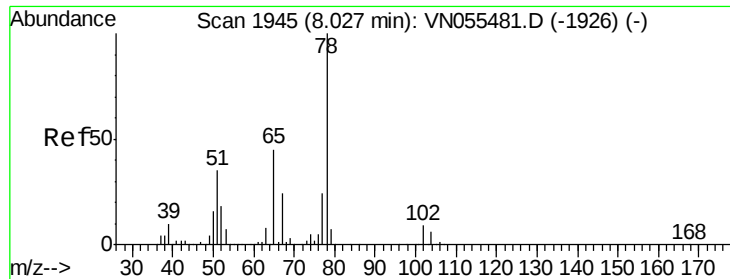
#31
 Cyclohexane
 Concen: 0.891 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. 0.01 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

Tgt Ion: 56 Resp: 19317
 Ion Ratio Lower Upper
 56 100
 69 163.4 26.0 39.0#
 84 146.4 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: 44.737 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampleId :

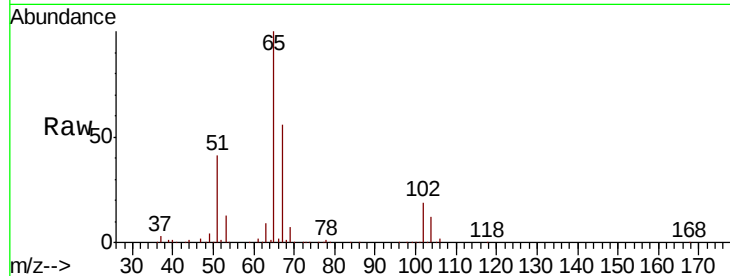
IW-19

Tot Ion: 65 Resp: 600980

Ion Ratio Lower Upper

65 100

67 54.8 0.0 109.6



Abundance Ion 64.90 (64.60 to 65.60): VN055547.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN055547.D (-1852) (-)

8.03

250000

200000

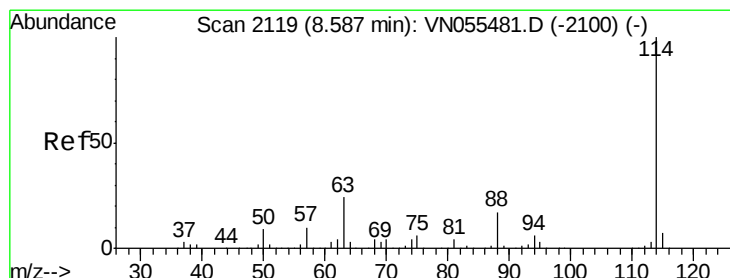
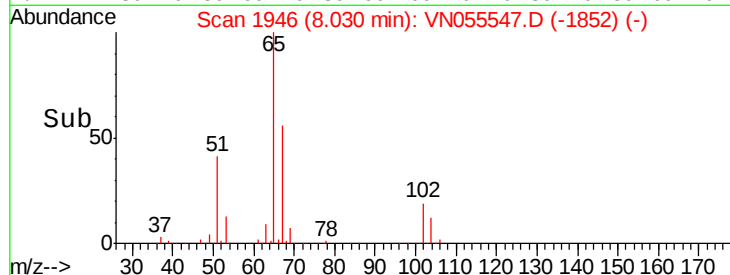
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

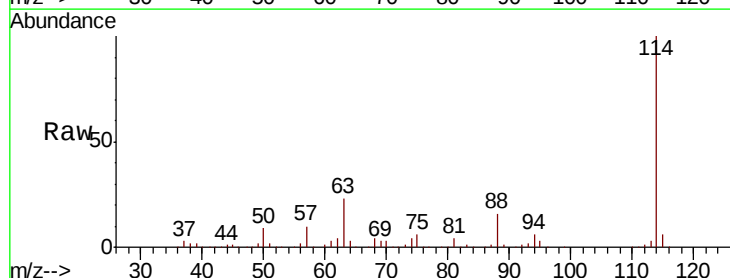
Tgt Ion: 114 Resp: 1458679

Ion Ratio Lower Upper

114 100

63 22.9 0.0 47.4

88 15.9 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): VN055547.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN055547.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN055547.D (-2026) (-)

8.59

800000

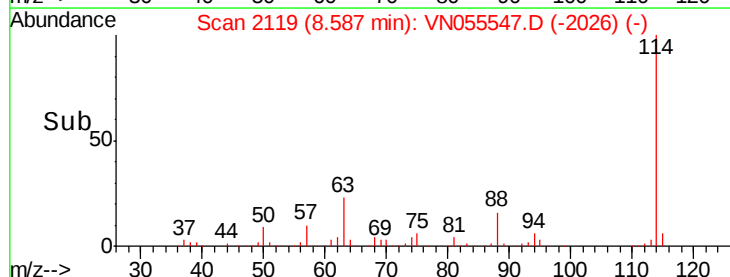
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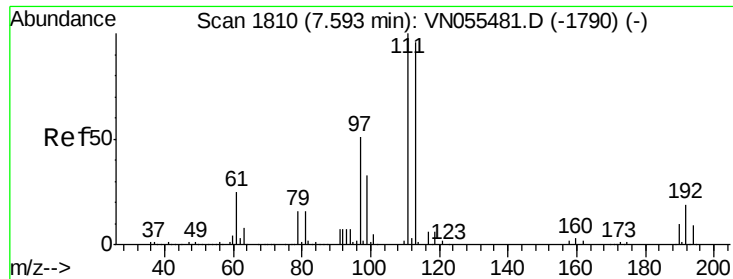
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200000

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Time-->

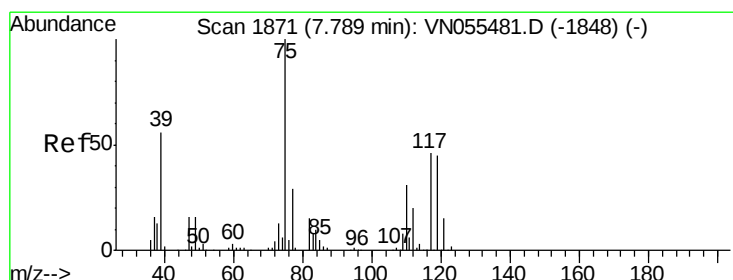
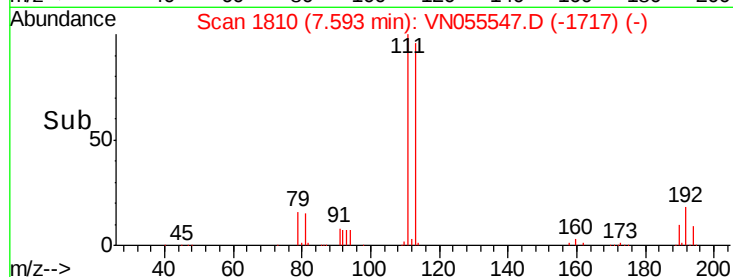
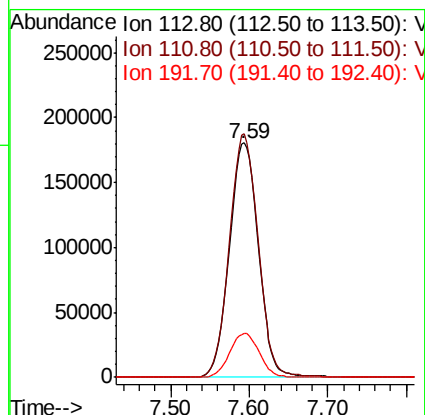
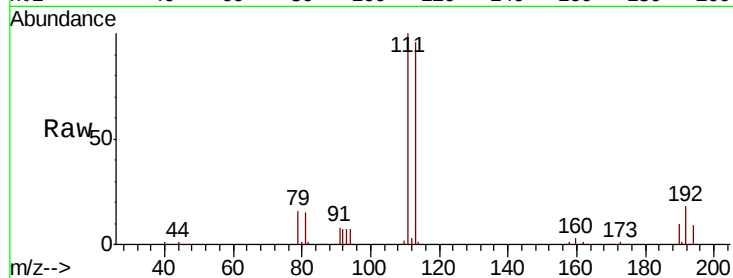




#35
 Dibromofluoromethane
 Concen: 49.372 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

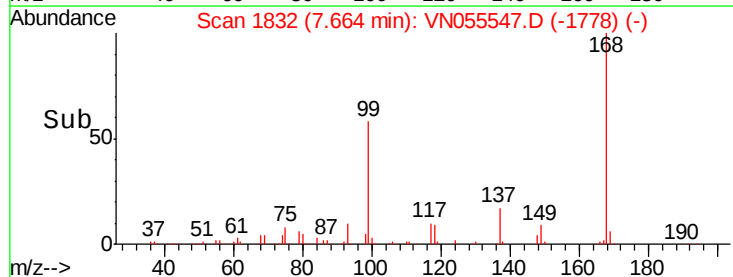
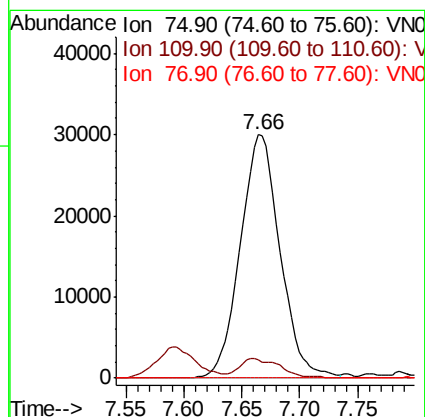
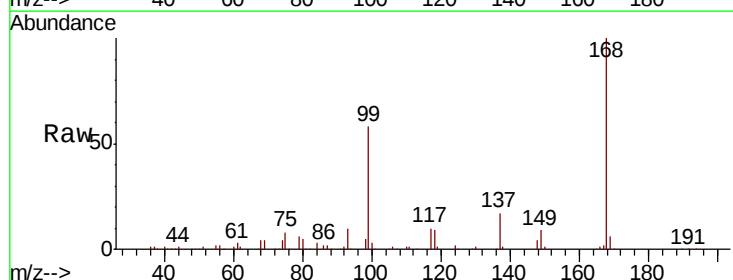
Instrument :
 MSVOA_N
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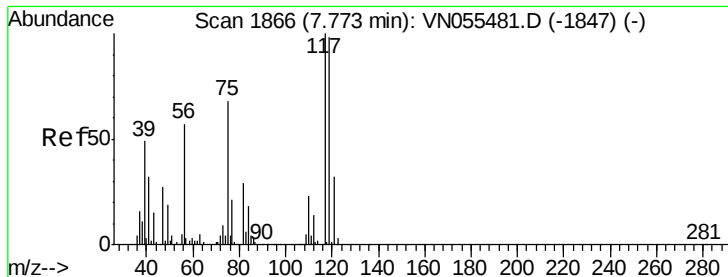
Tot Ion:113 Resp: 464572
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.9 124.3
 192 19.1 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.991 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

Tgt Ion: 75 Resp: 71725
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.1 48.3#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 7.012 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampled :

IW-19

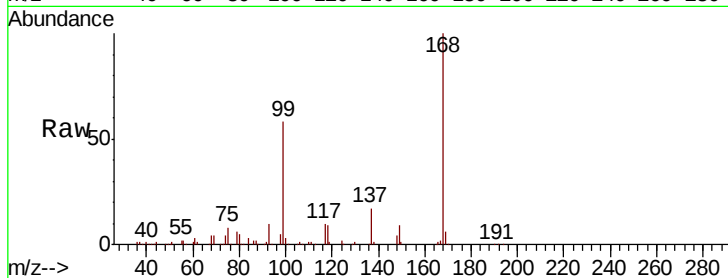
Tot Ion:117 Resp: 84847

Ion Ratio Lower Upper

117 100

119 5.8 77.8 116.6#

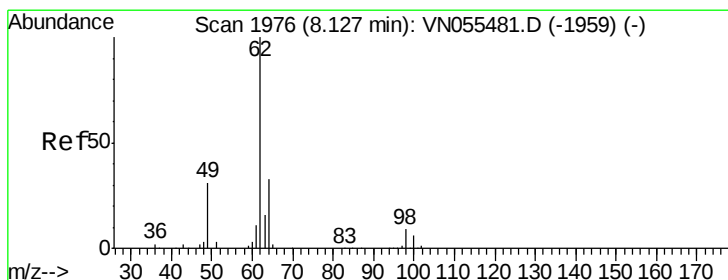
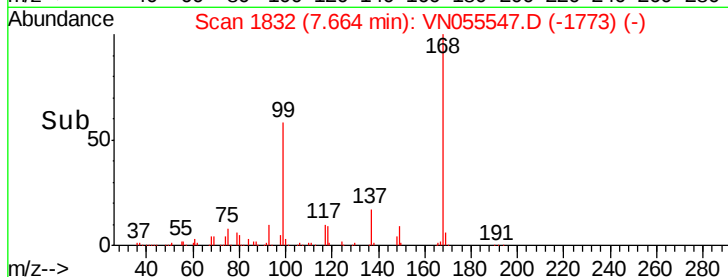
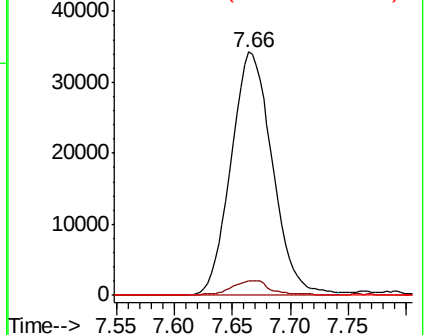
121 0.0 25.2 37.8#



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



#42

1,2-Dichloroethane

Concen: 0.246 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN055547.D

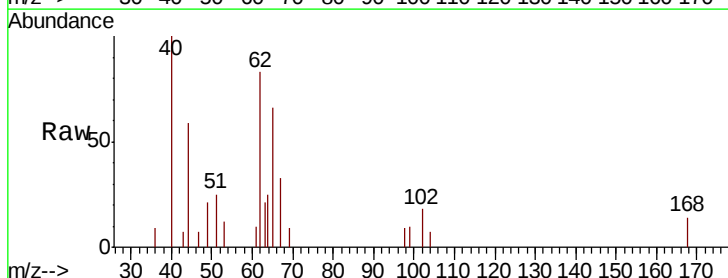
Acq: 10 May 2019 13:12

Tgt Ion: 62 Resp: 3850

Ion Ratio Lower Upper

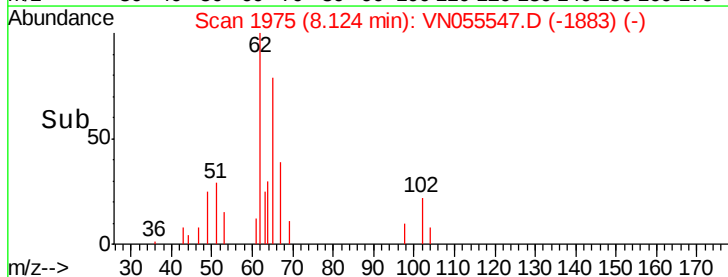
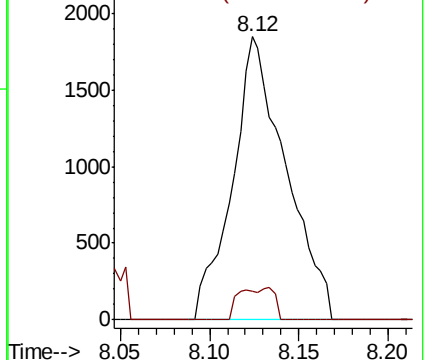
62 100

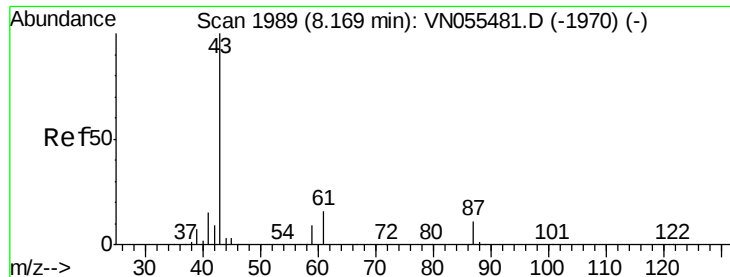
98 4.5 0.0 17.4



Abundance Ion 61.90 (61.60 to 62.60): V

Ion 97.90 (97.60 to 98.60): V





#43

Isopropyl Acetate

Concen: 1.267 ug/l

RT: 8.33 min Scan# 2038

Delta R.T. 0.16 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampled :

IW-19

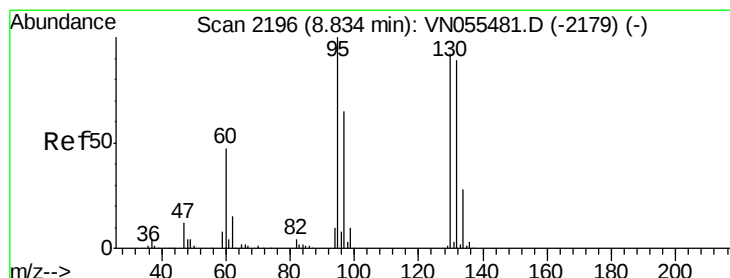
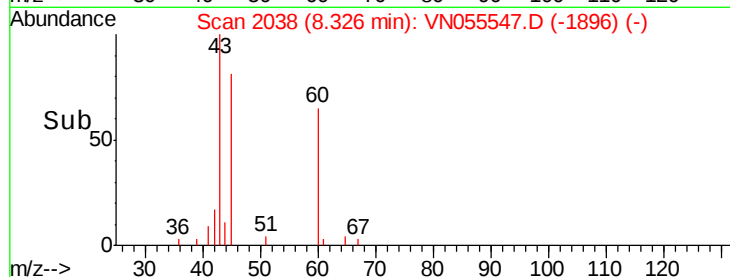
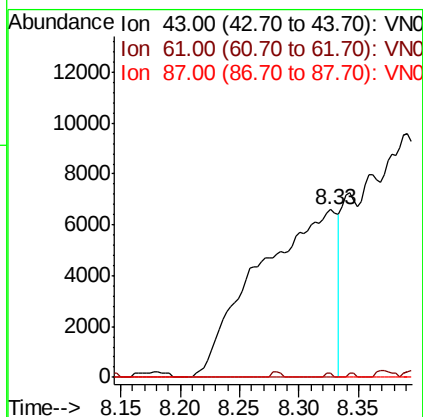
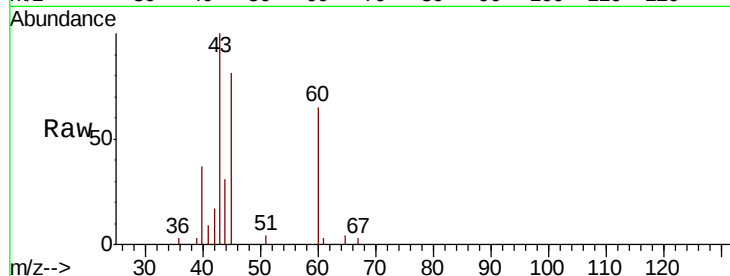
Tot Ion: 43 Resp: 30181

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

87 0.0 9.0 13.6#



#44

Trichloroethene

Concen: 13.604 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN055547.D

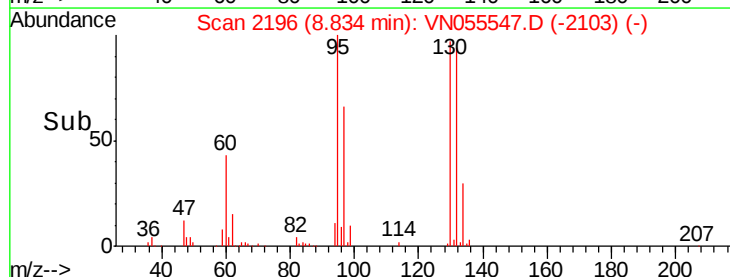
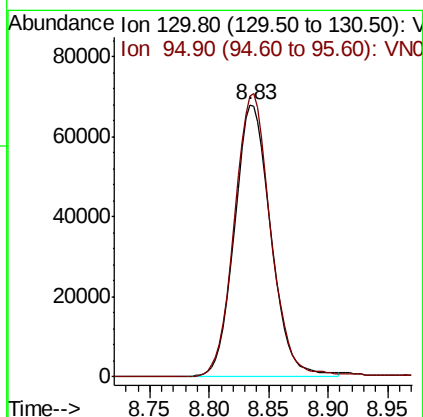
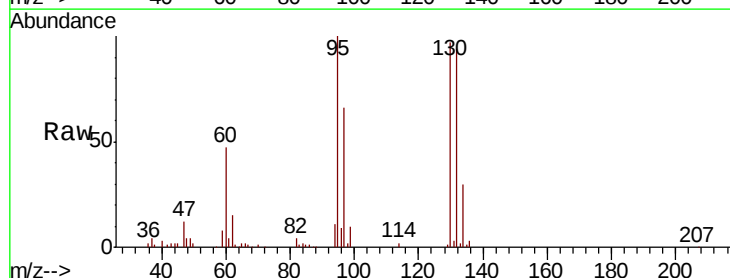
Acq: 10 May 2019 13:12

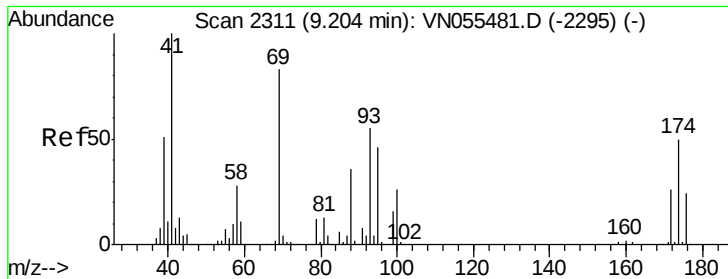
Tgt Ion:130 Resp: 144369

Ion Ratio Lower Upper

130 100

95 103.0 0.0 216.8





#49

1,4-Dioxane

Concen: 0.814 ug/l

RT: 9.21 min Scan# 2314

Delta R.T. 0.01 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampleId :

IW-19

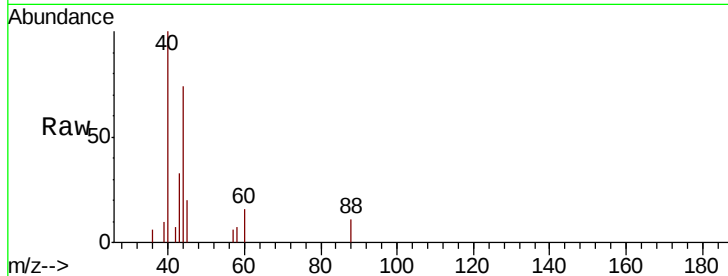
Tot Ion: 88 Resp: 182

Ion Ratio Lower Upper

88 100

43 66.5 27.8 41.8#

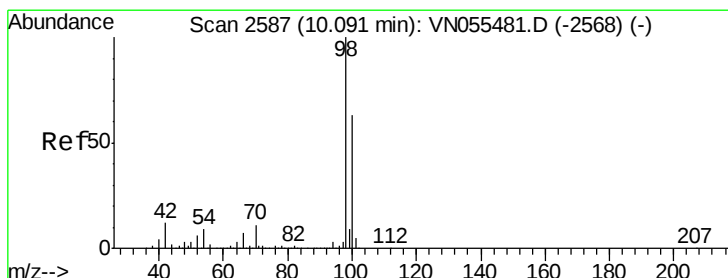
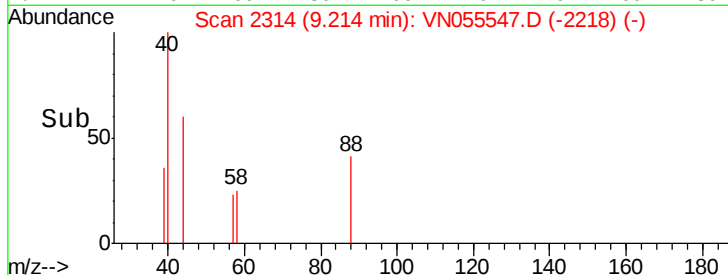
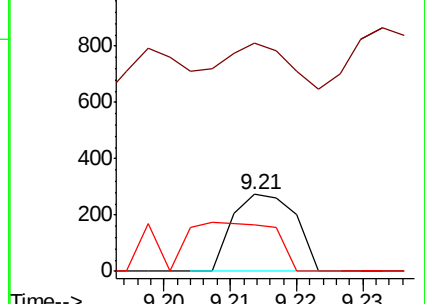
58 105.5 61.8 92.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 47.506 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055547.D

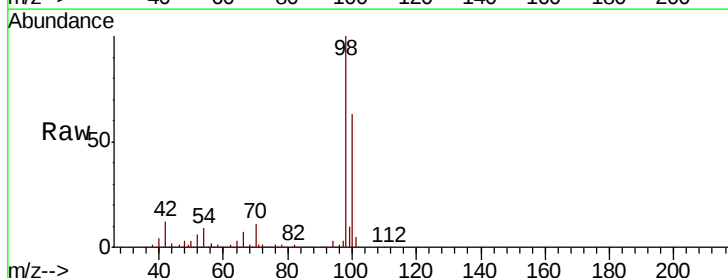
Acq: 10 May 2019 13:12

Tgt Ion: 98 Resp: 1741986

Ion Ratio Lower Upper

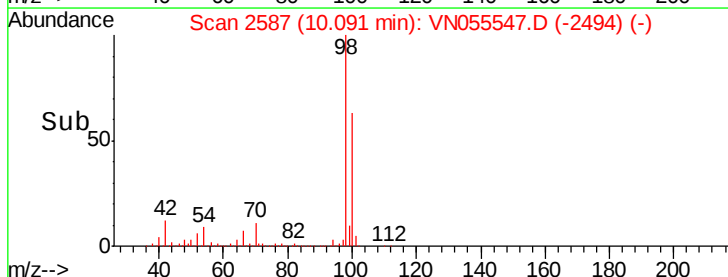
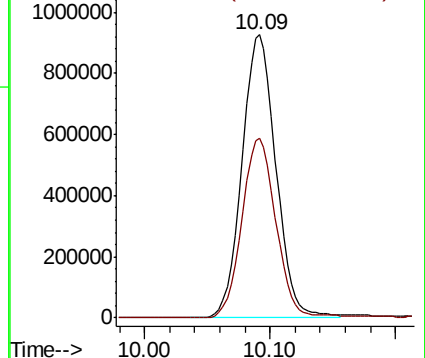
98 100

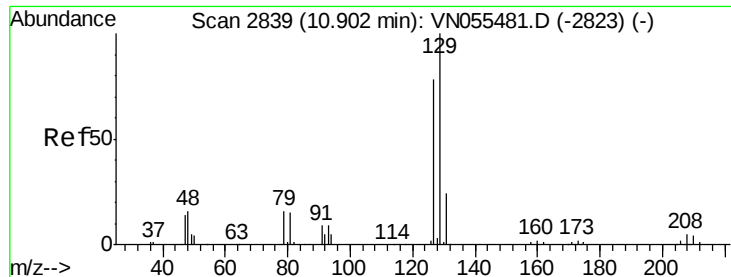
100 64.5 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

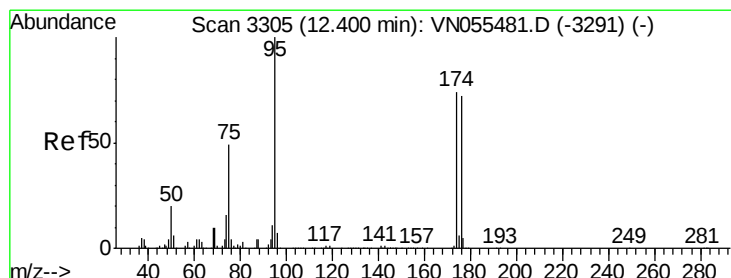
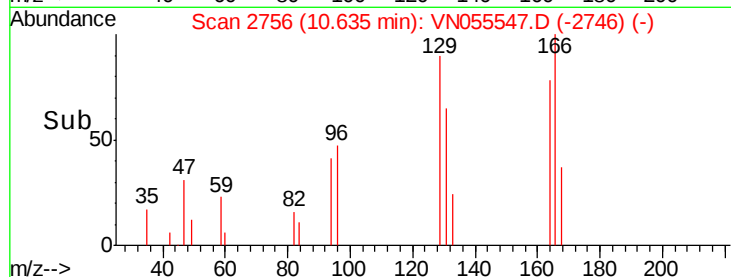
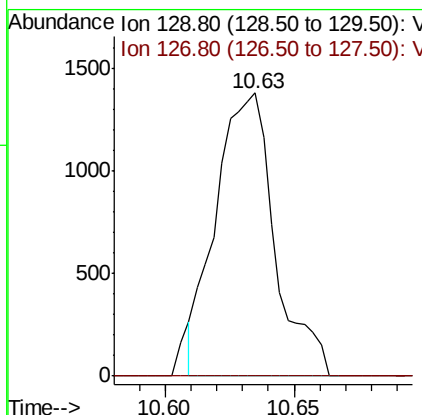
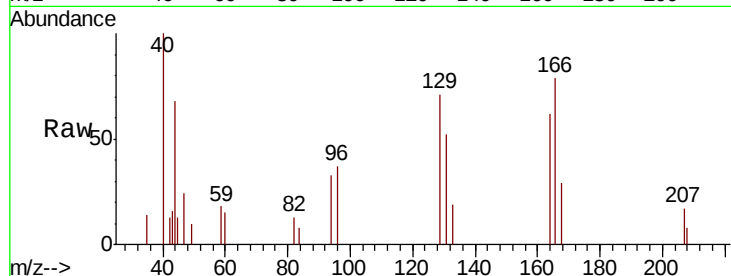




#60
 Dibromochloromethane
 Concen: 0.235 ug/l
 RT: 10.63 min Scan# 2756
 Delta R.T. -0.27 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

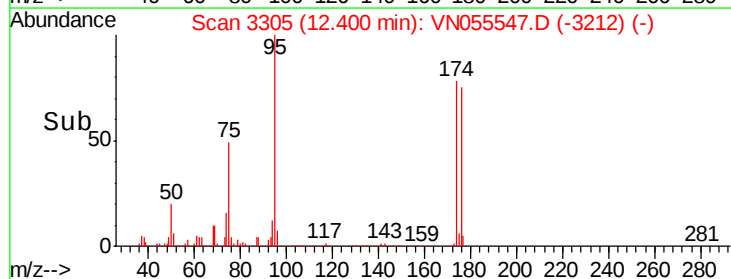
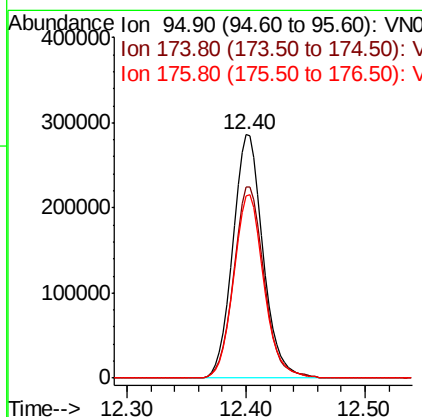
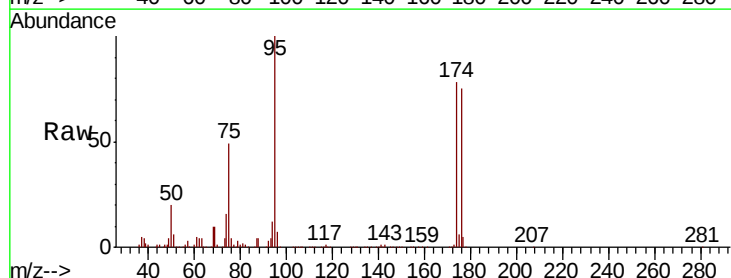
Instrument :
 MSVOA_N
 ClientSampleId :
 IW-19

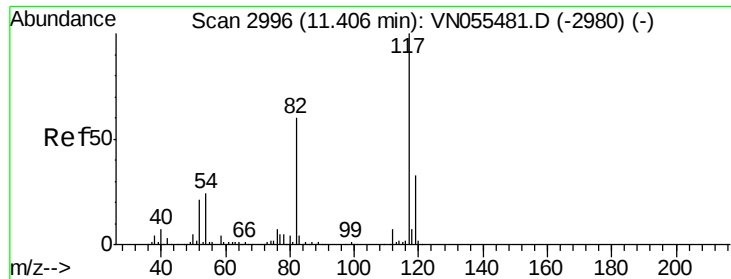
Tot Ion:129 Resp: 2205
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#



#62
 4-Bromofluorobenzene
 Concen: 40.640 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

Tgt Ion: 95 Resp: 502473
 Ion Ratio Lower Upper
 95 100
 174 79.1 0.0 152.2
 176 75.6 0.0 147.8

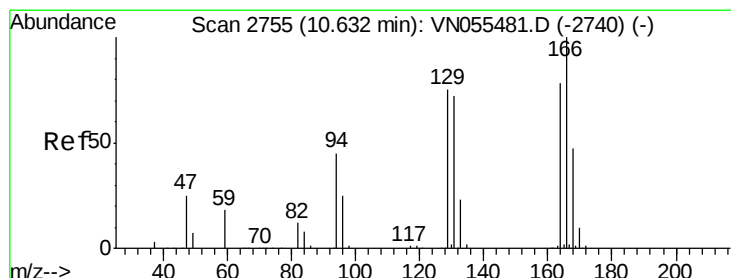
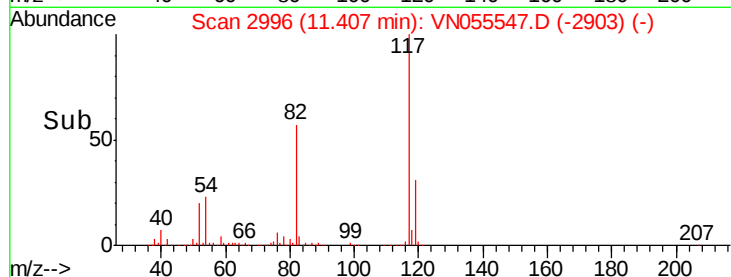
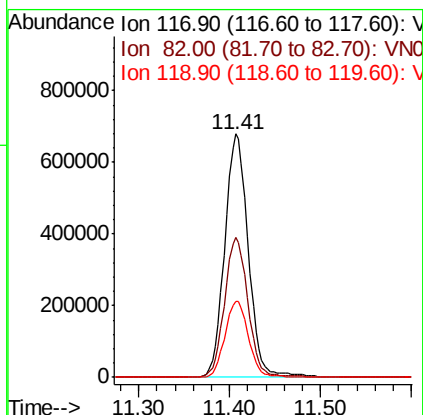
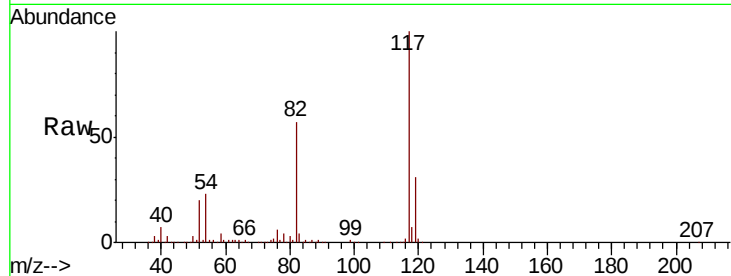




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055547.D
Acq: 10 May 2019 13:12

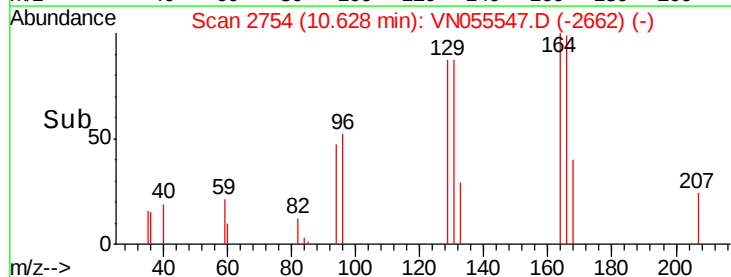
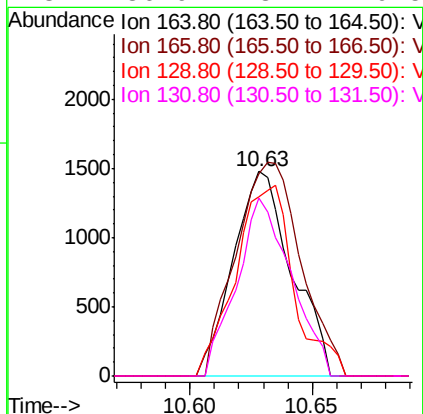
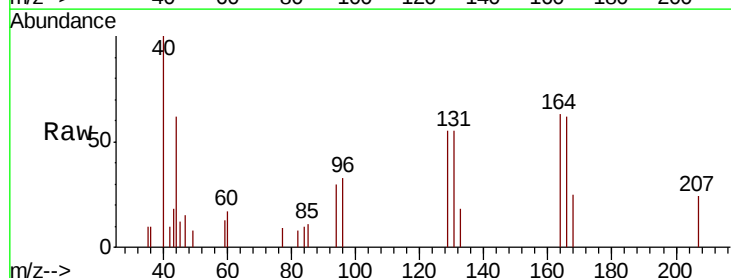
Instrument :
MSVOA_N
ClientSampled :
IW-19

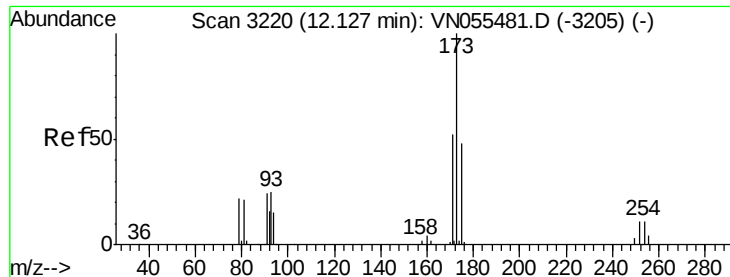
Tot Ion:117 Resp: 1223764
Ion Ratio Lower Upper
117 100
82 57.4 48.0 72.0
119 31.4 26.0 39.0



#64
Tetrachloroethene
Concen: 0.245 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN055547.D
Acq: 10 May 2019 13:12

Tgt Ion:164 Resp: 2459
Ion Ratio Lower Upper
164 100
166 99.2 102.6 153.8#
129 87.5 77.0 115.6
131 86.9 73.7 110.5





#71

Bromoform

Concen: 0.615 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampleId :

IW-19

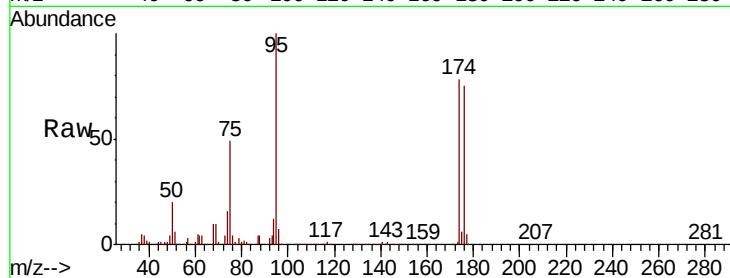
Tot Ion:173 Resp: 3599

Ion Ratio Lower Upper

173 100

175 737.5 24.1 72.4#

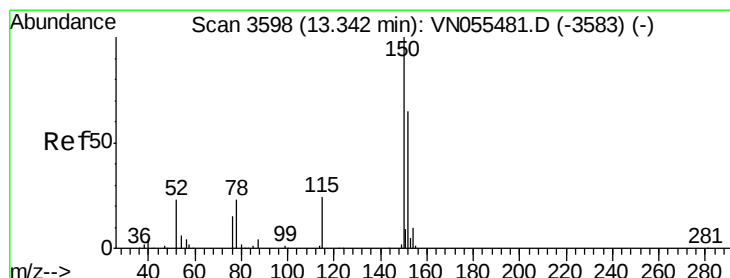
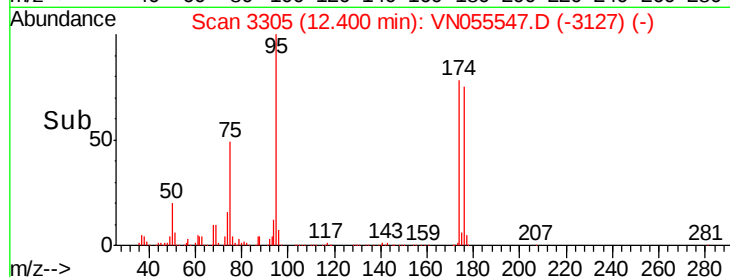
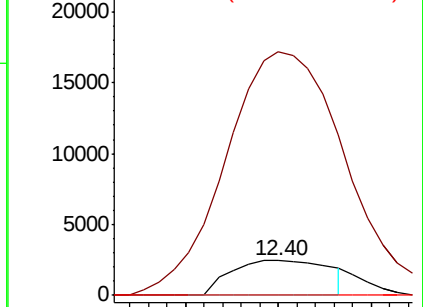
254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

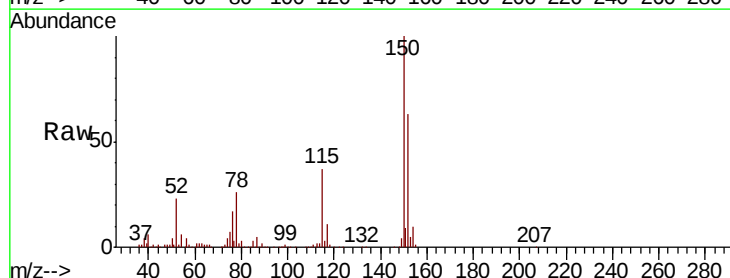
Tgt Ion:152 Resp: 326180

Ion Ratio Lower Upper

152 100

115 59.9 30.1 90.5

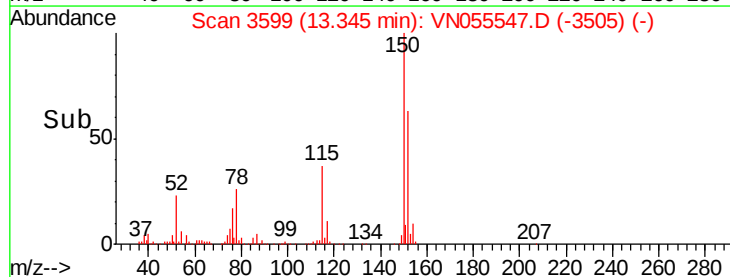
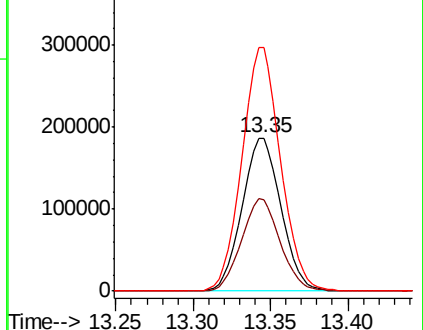
150 158.3 0.0 355.0

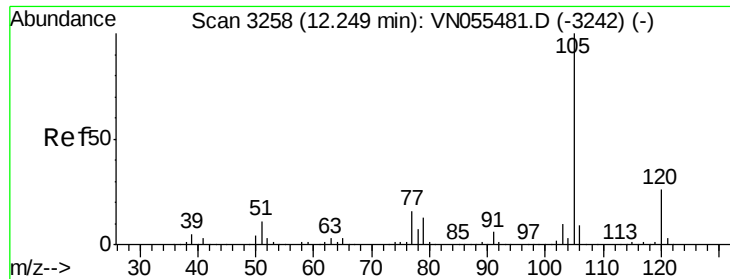


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampled :

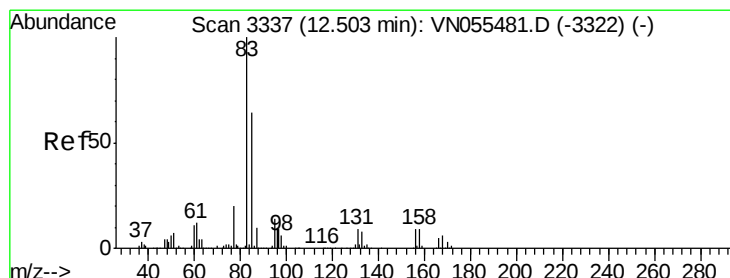
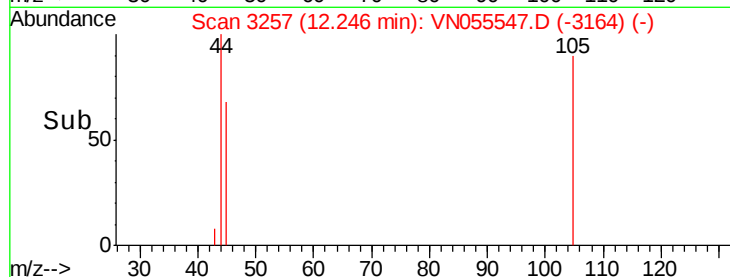
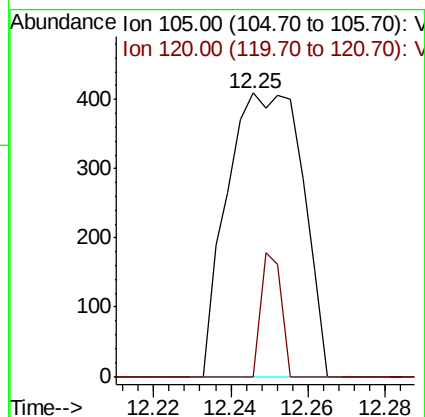
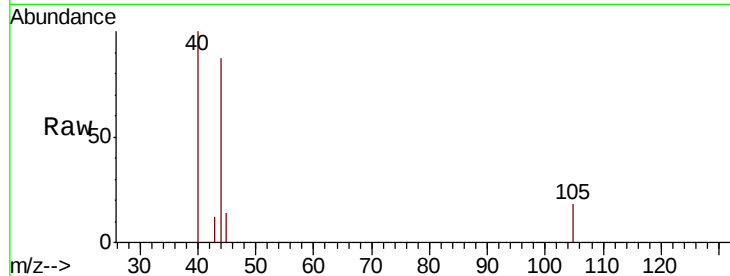
IW-19

Tot Ion:105 Resp: 553

Ion Ratio Lower Upper

105 100

120 11.8 13.0 39.0#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

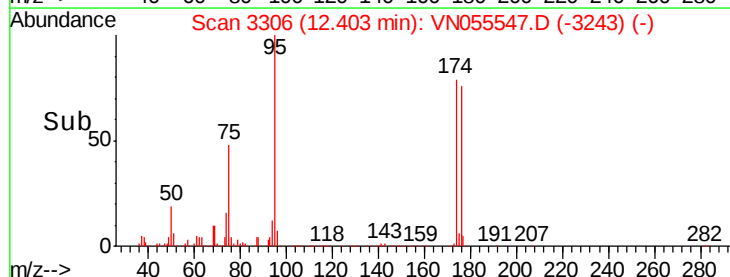
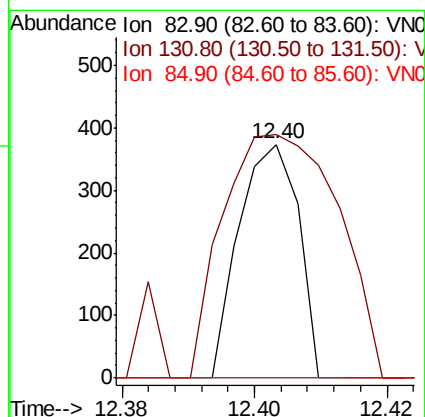
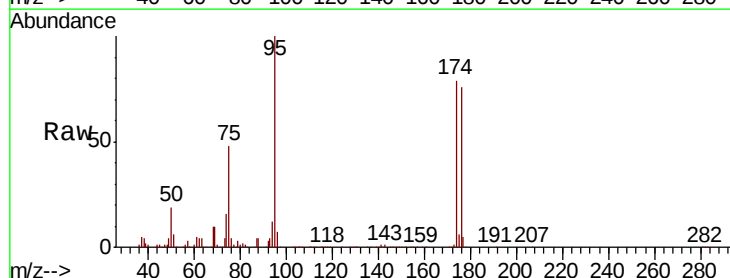
Tgt Ion: 83 Resp: 232

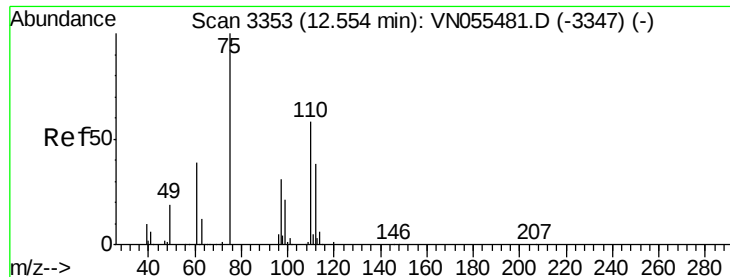
Ion Ratio Lower Upper

83 100

131 203.4 4.5 13.5#

85 0.0 32.0 96.0#





#76

1,2,3-Trichloropropane

Concen: 28.110 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampleId :

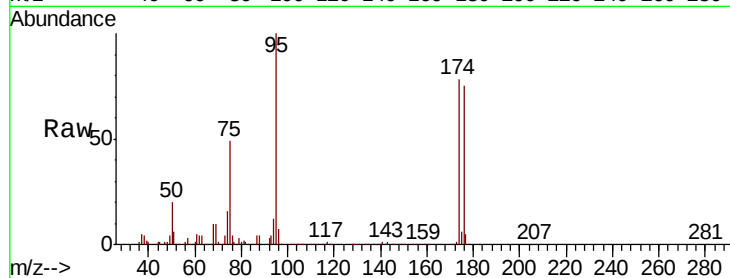
IW-19

Tot Ion: 75 Resp: 249607

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

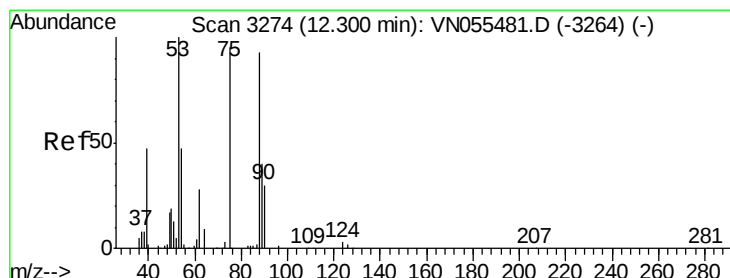
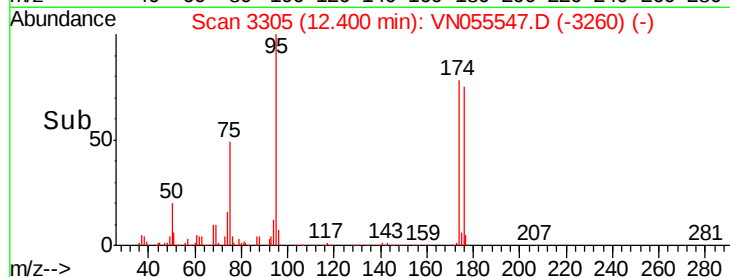
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 103.721 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

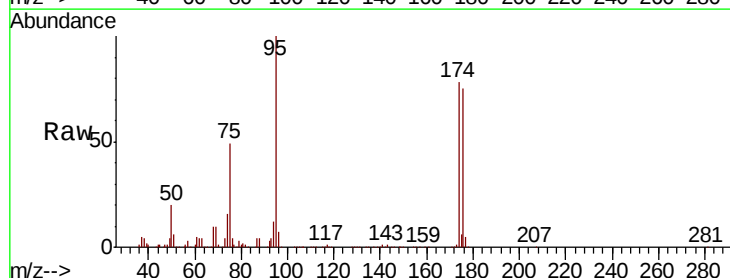
Tgt Ion: 75 Resp: 249607

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

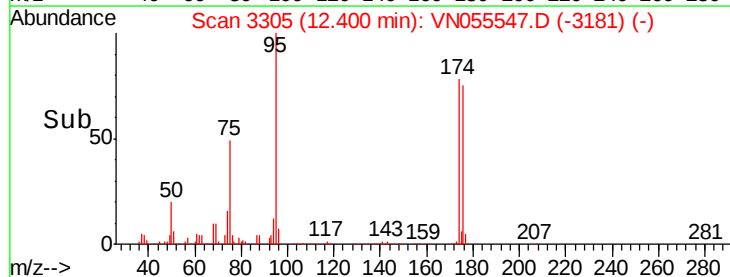
150000

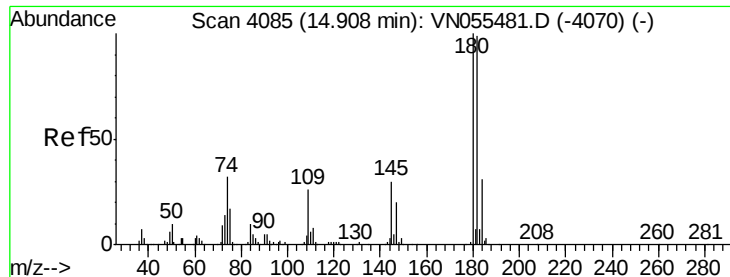
100000

50000

0

Time--> 12.30 12.40 12.50

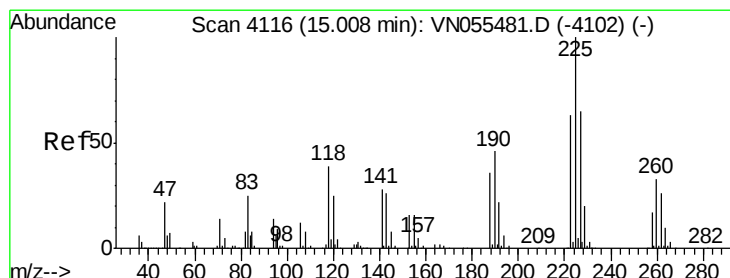
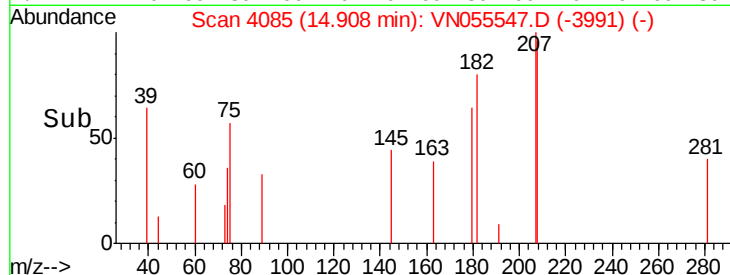
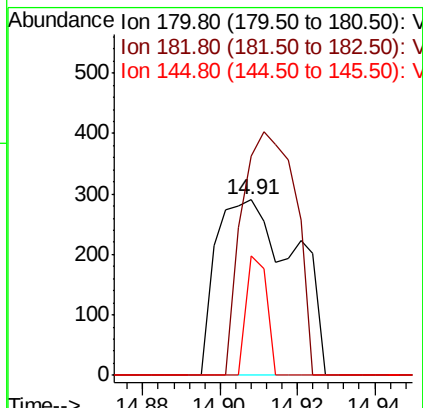
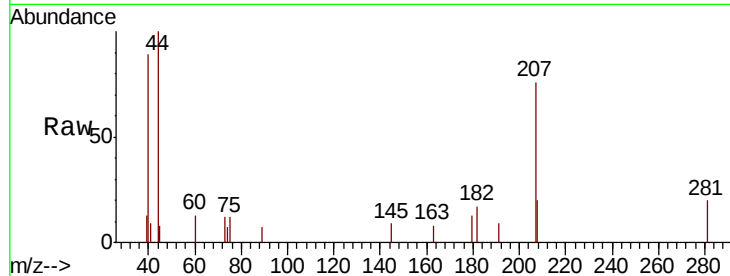




#93
 1,2,4-Trichlorobenzene
 Concen: 3.284 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

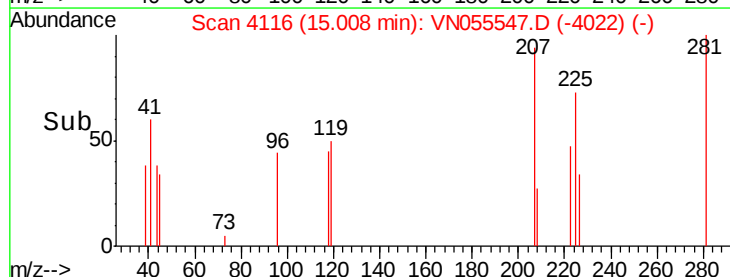
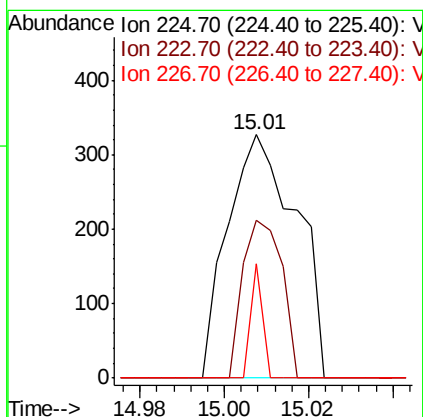
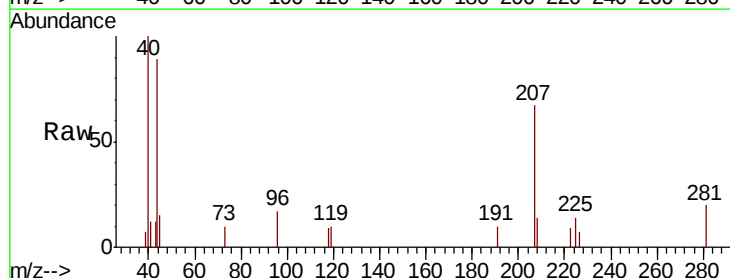
Instrument :
 MSVOA_N
 ClientSampled :
 IW-19

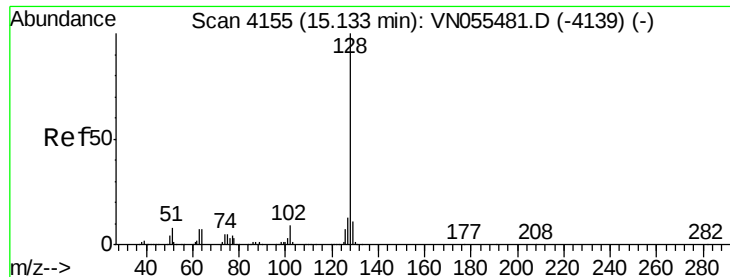
Tot Ion:180 Resp: 409
 Ion Ratio Lower Upper
 180 100
 182 94.6 48.7 146.1
 145 17.6 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055547.D
 Acq: 10 May 2019 13:12

Tgt Ion:225 Resp: 370
 Ion Ratio Lower Upper
 225 100
 223 37.3 31.4 94.3
 227 8.1 32.0 96.0#





#95

Naphthalene

Concen: 3.054 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_N

ClientSampleId :

IW-19

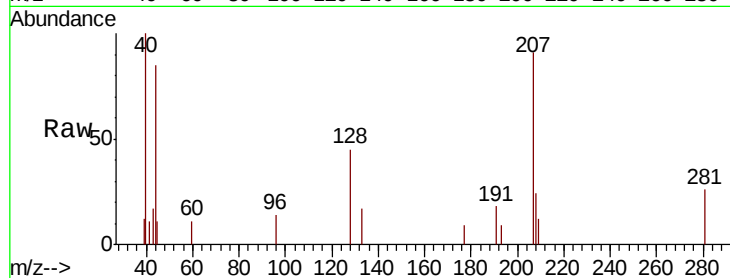
Tot Ion:128 Resp: 1692

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

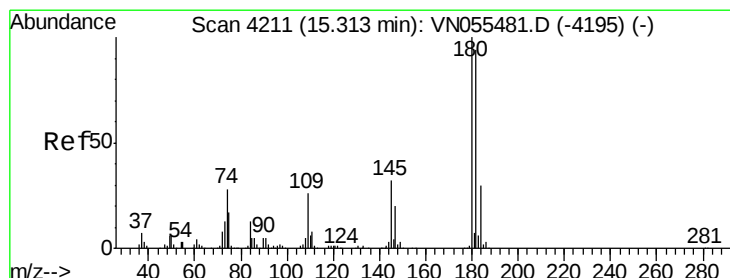
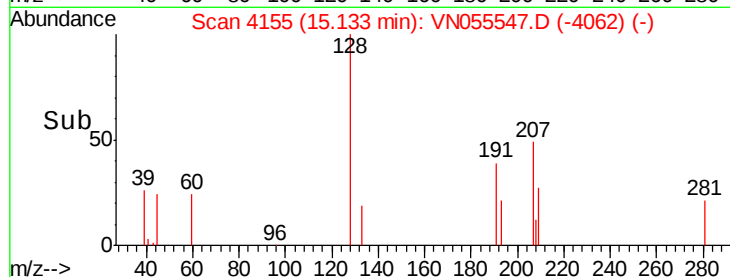
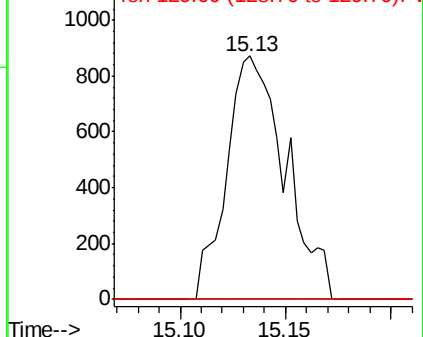
129 0.0 8.8 13.2#



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



#96

1,2,3-Trichlorobenzene

Concen: 2.550 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055547.D

Acq: 10 May 2019 13:12

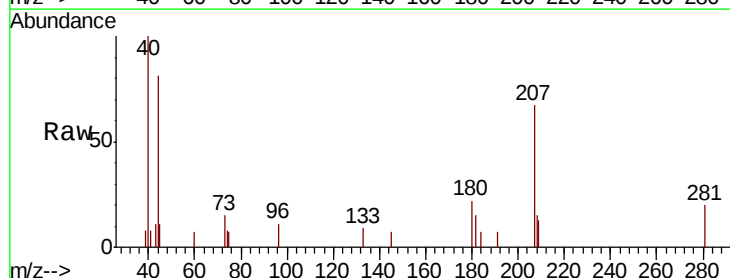
Tgt Ion:180 Resp: 701

Ion Ratio Lower Upper

180 100

182 69.2 47.1 141.3

145 13.4 15.8 47.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

