

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056035.D
 Acq On : 6 Jun 2019 10:44
 Operator : JC/SP
 Sample : K3203-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB09-190604

Quant Time: Jun 06 17:53:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	348153	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	538101	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	500800	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	164877	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	184142	53.27	ug/l	0.00
Spiked Amount			Recovery	=	106.54%	
35) Dibromofluoromethane	7.59	113	162399	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
50) Toluene-d8	10.09	98	673825	53.04	ug/l	0.00
Spiked Amount			Recovery	=	106.08%	
62) 4-Bromofluorobenzene	12.40	95	215288	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	

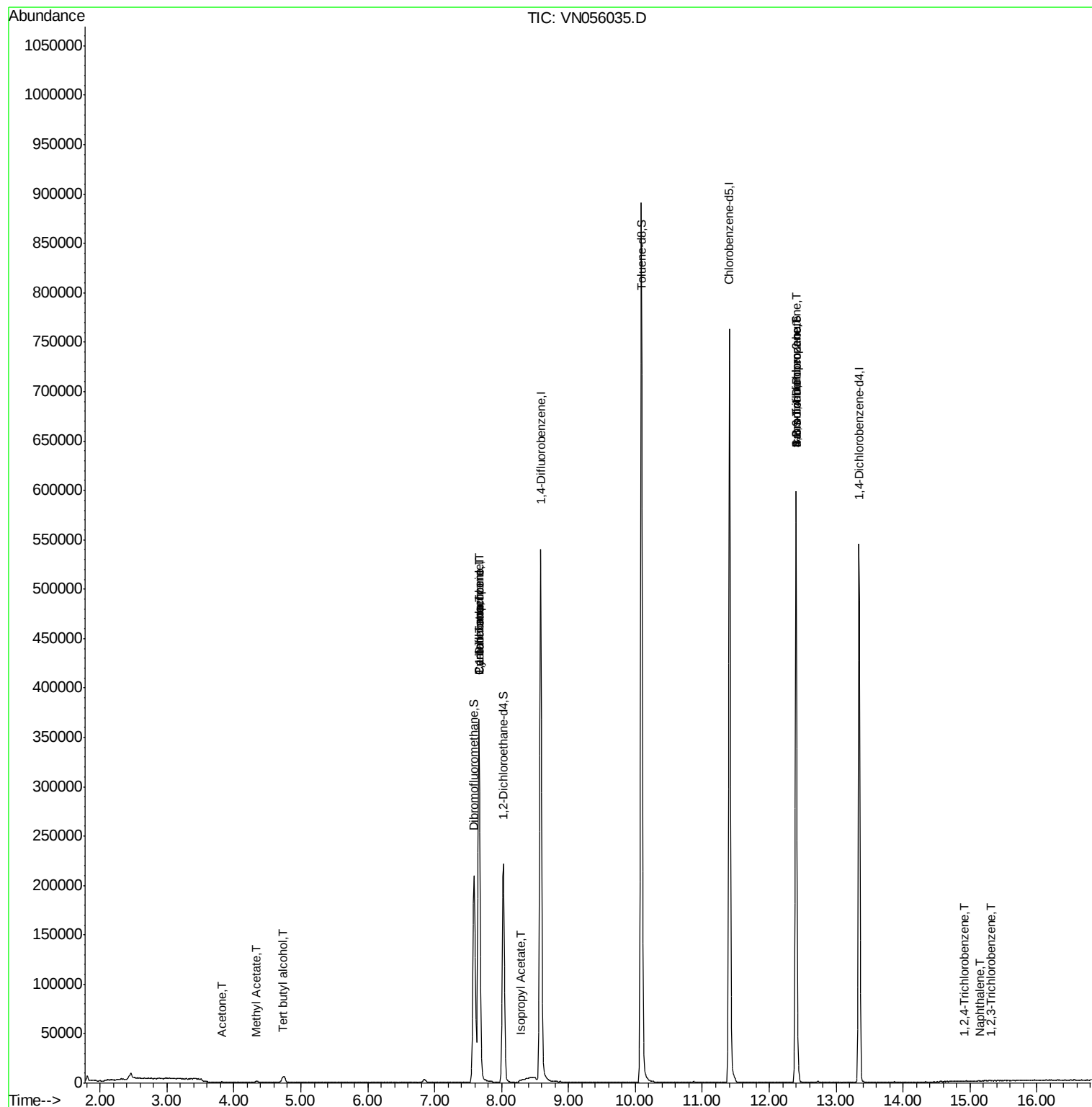
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	6234	10.363	ug/l #	74
16) Acetone	3.82	43	535	0.324	ug/l #	41
18) Methyl Acetate	4.34	43	2545	0.208	ug/l #	67
31) Cyclohexane	7.66	56	4998	0.911	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20313	4.390	ug/l #	48
38) Carbon Tetrachloride	7.66	117	29424	6.898	ug/l #	15
43) Isopropyl Acetate	8.28	43	1625	0.244	ug/l #	53
71) Bromoform	12.40	173	1403	3.201	ug/l #	1
73) Isopropylbenzene	12.41	105	181	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	97191	32.036	ug/l #	100
79) 2-Chlorotoluene	12.60	91	65	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	97191	106.686	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	61	4.288	ug/l #	84
95) Naphthalene	15.15	128	390	3.897	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	30	3.040	ug/l #	1

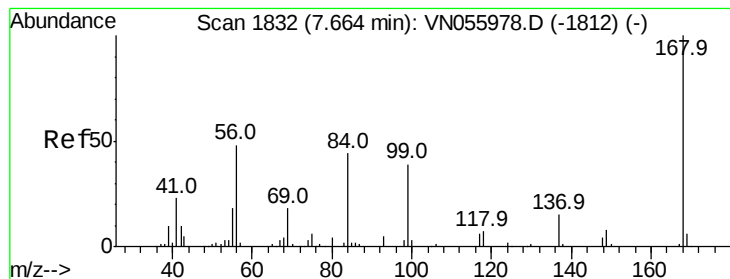
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

Instrument :

MSVOA_N

ClientSampleId :

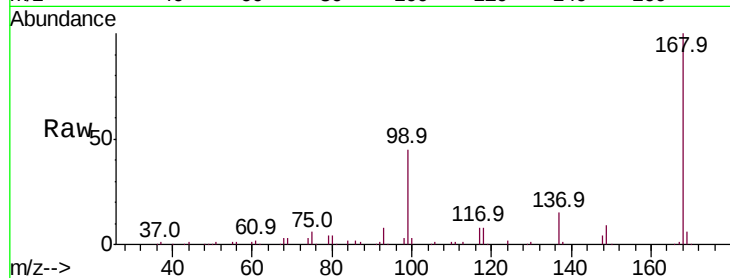
Z1-TB09-190604

Tot Ion:168 Resp: 348153

Ion Ratio Lower Upper

168 100

99 45.4 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

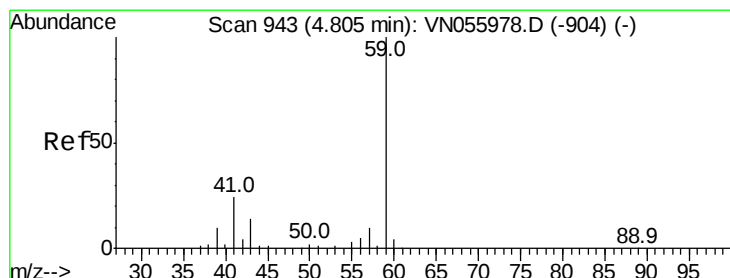
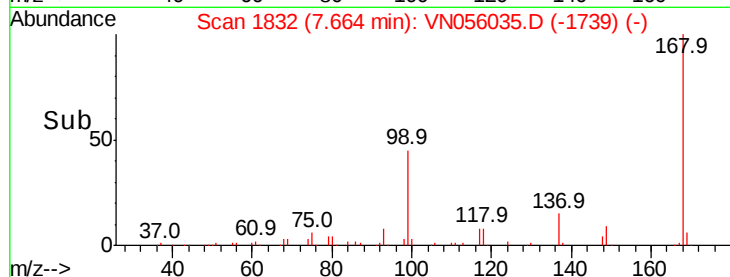
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 10.363 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056035.D

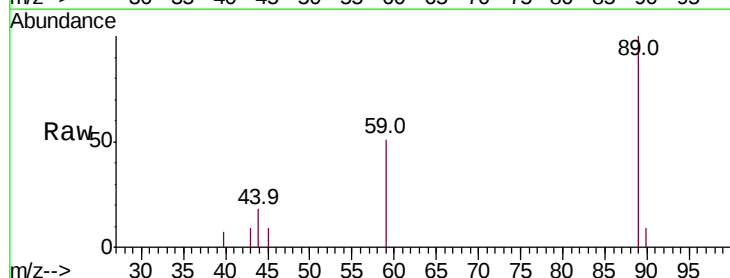
Acq: 6 Jun 2019 10:44

Tgt Ion: 59 Resp: 6234

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN055978.D (-904) (-)

4.74

2000

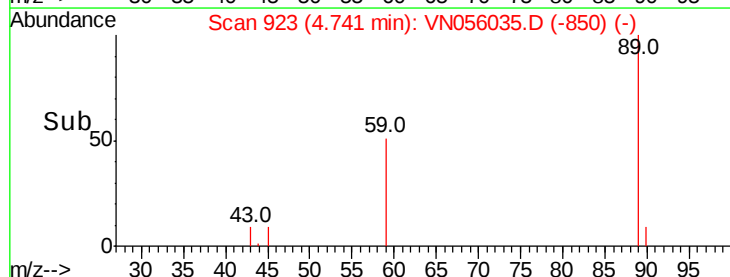
1500

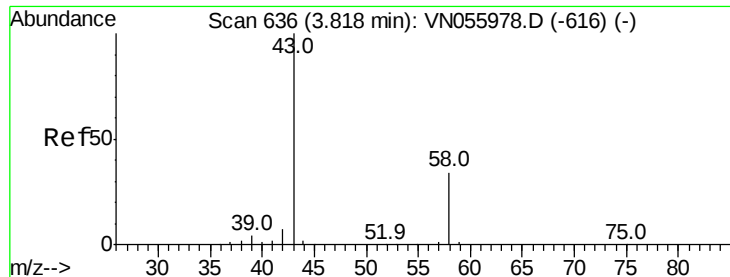
1000

500

0

Time--> 4.65 4.70 4.75 4.80





#16

Acetone

Concen: 0.324 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

Instrument :

MSVOA_N

ClientSampleId :

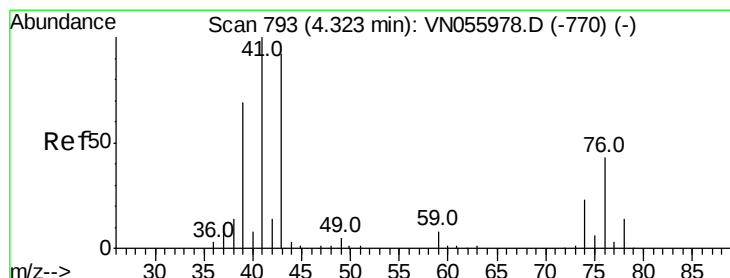
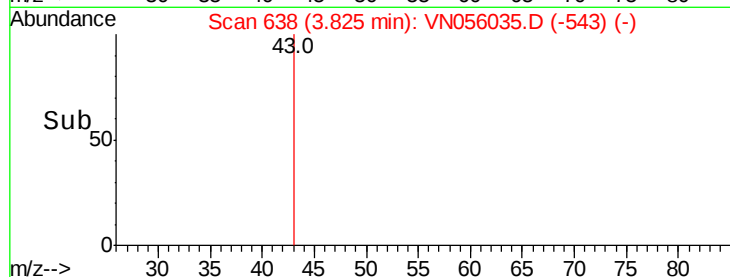
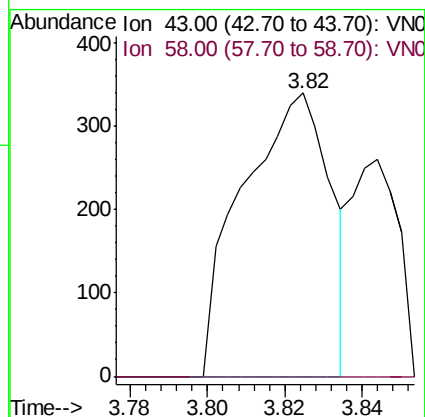
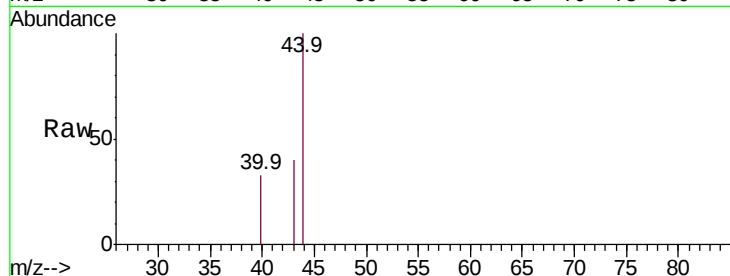
Z1-TB09-190604

Tot Ion: 43 Resp: 535

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



#18

Methyl Acetate

Concen: 0.208 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN056035.D

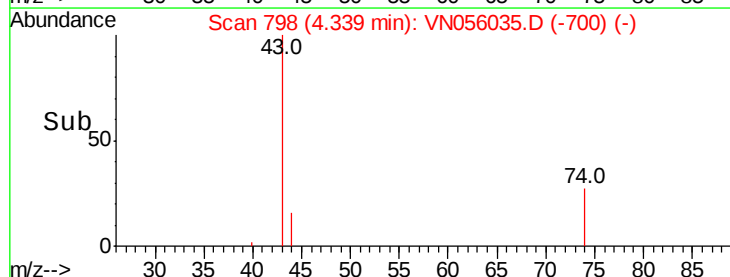
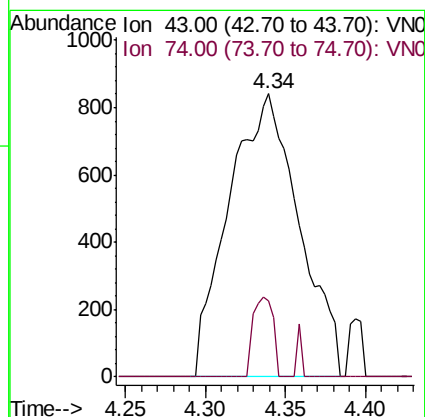
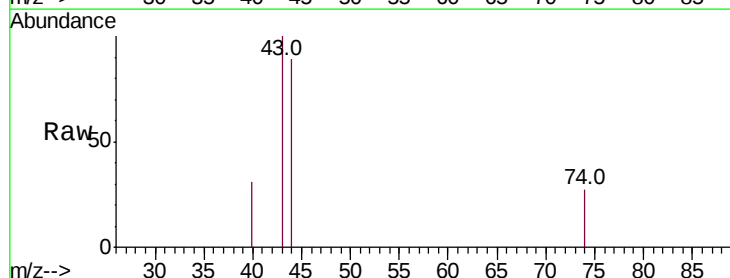
Acq: 6 Jun 2019 10:44

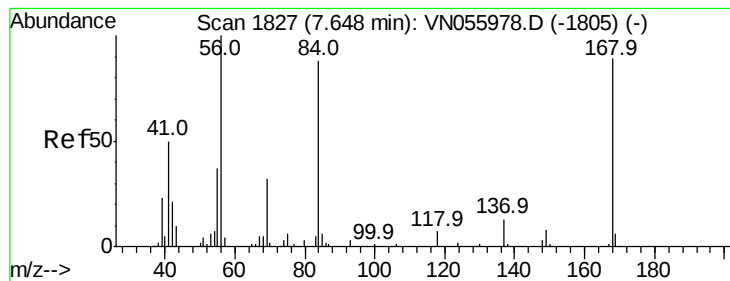
Tgt Ion: 43 Resp: 2545

Ion Ratio Lower Upper

43 100

74 7.9 19.3 28.9#





#31

Cyclohexane

Concen: 0.911 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

Instrument :

MSVOA_N

ClientSampled :

Z1-TB09-190604

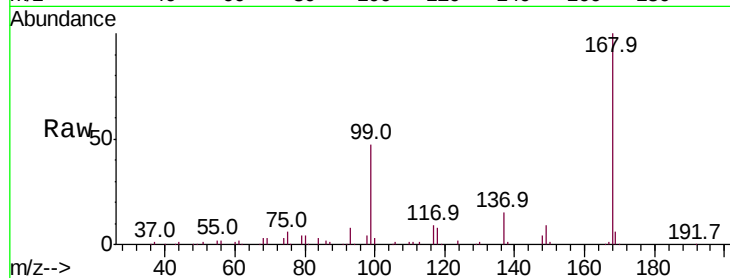
Tot Ion: 56 Resp: 4998

Ion Ratio Lower Upper

56 100

69 169.5 25.6 38.4#

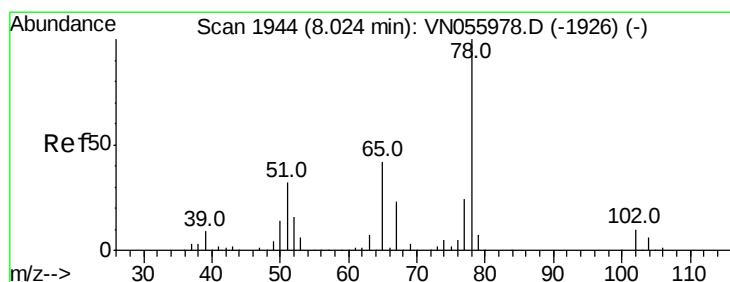
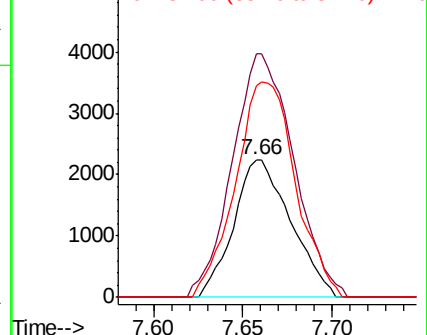
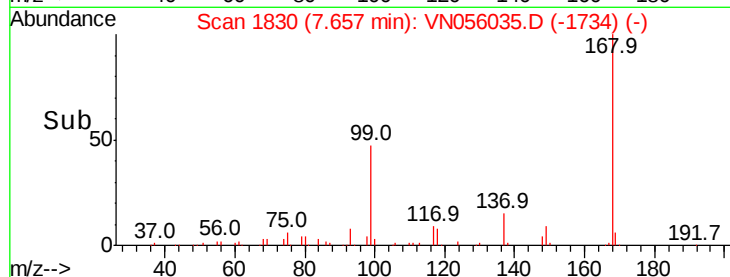
84 153.5 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.269 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056035.D

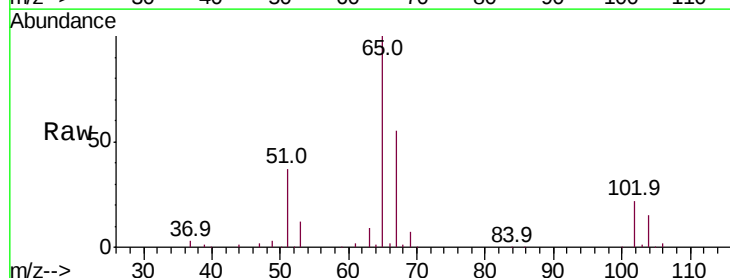
Acq: 6 Jun 2019 10:44

Tgt Ion: 65 Resp: 184142

Ion Ratio Lower Upper

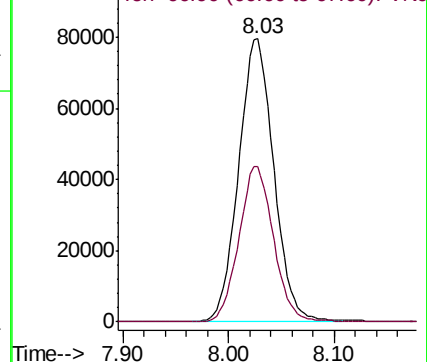
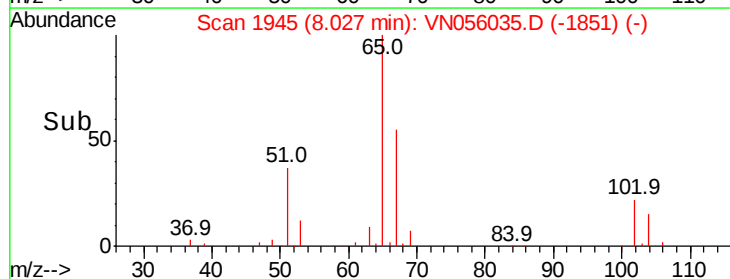
65 100

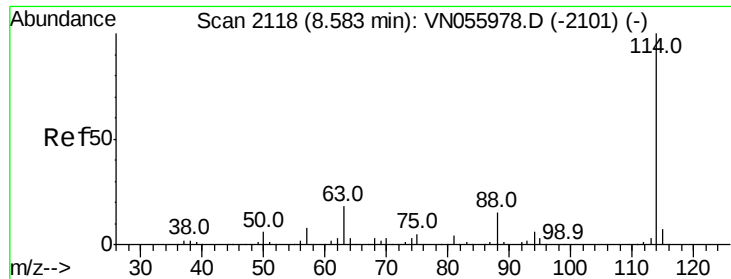
67 54.3 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

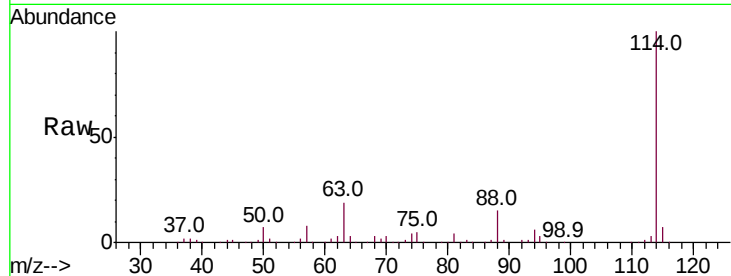




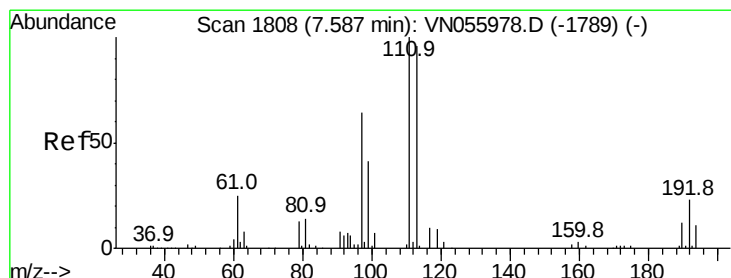
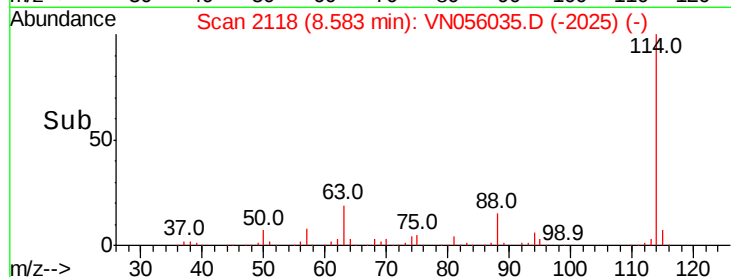
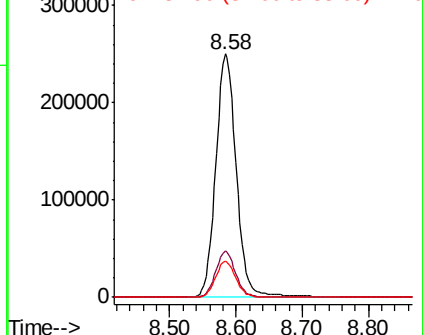
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN056035.D
Acq: 6 Jun 2019 10:44

Instrument :
MSVOA_N
ClientSampleId :
Z1-TB09-190604

Tot Ion:114 Resp: 538101
Ion Ratio Lower Upper
114 100
63 18.8 0.0 39.2
88 14.9 0.0 31.0

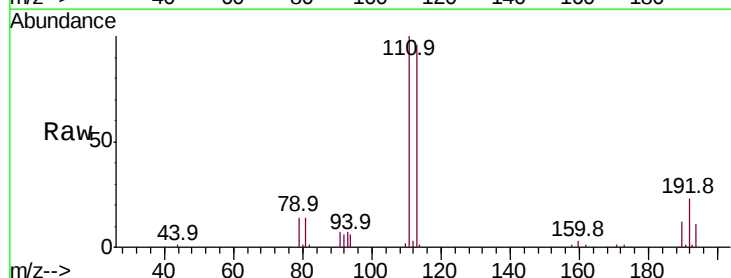


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

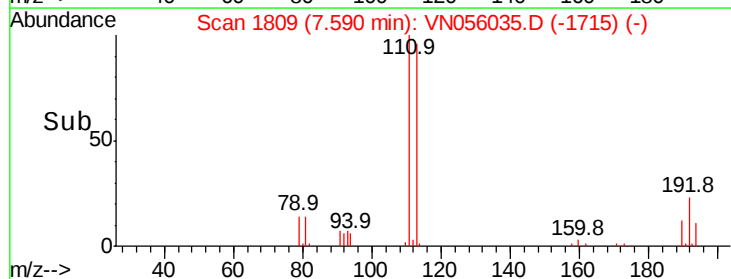
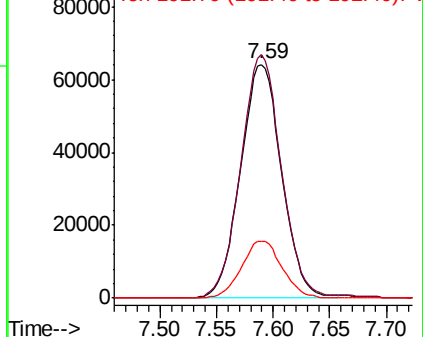


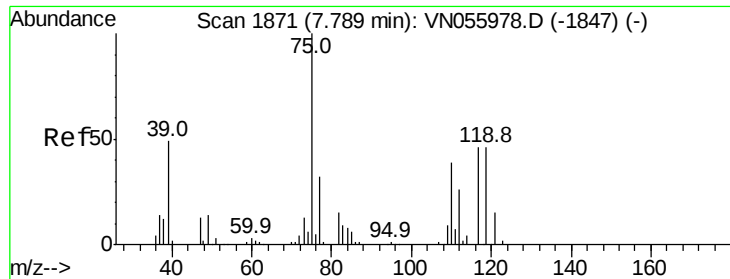
#35
Dibromofluoromethane
Concen: 49.191 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056035.D
Acq: 6 Jun 2019 10:44

Tgt Ion:113 Resp: 162399
Ion Ratio Lower Upper
113 100
111 102.5 81.9 122.9
192 24.1 19.5 29.3



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

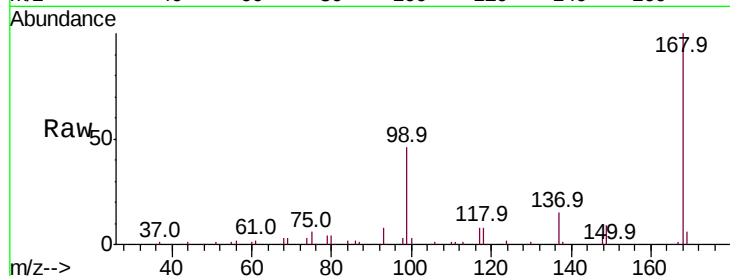




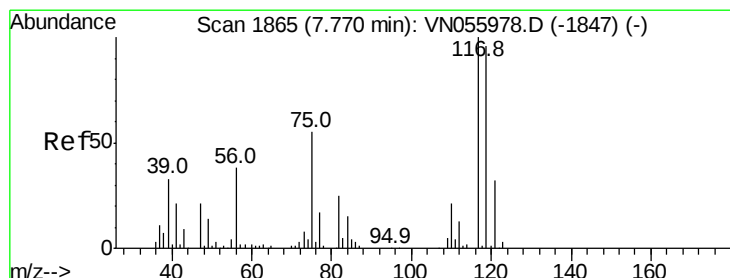
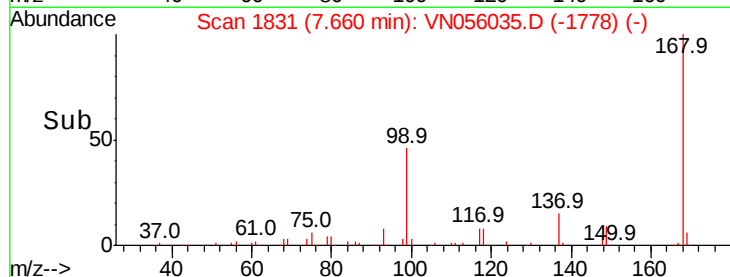
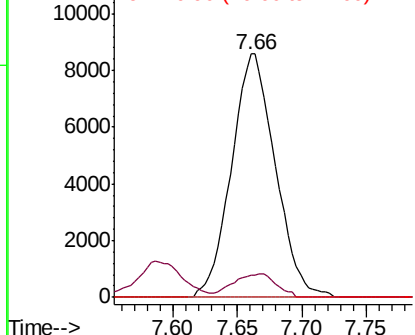
#36
 1,1-Dichloropropene
 Concen: 4.390 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056035.D
 Acq: 6 Jun 2019 10:44

Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB09-190604

Tot Ion: 75 Resp: 20313
 Ion Ratio Lower Upper
 75 100
 110 9.4 19.0 57.0#
 77 0.0 25.1 37.7#

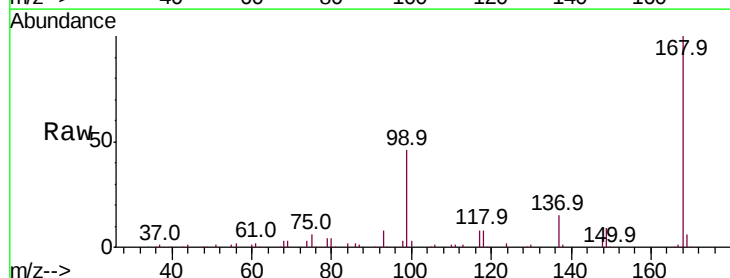


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

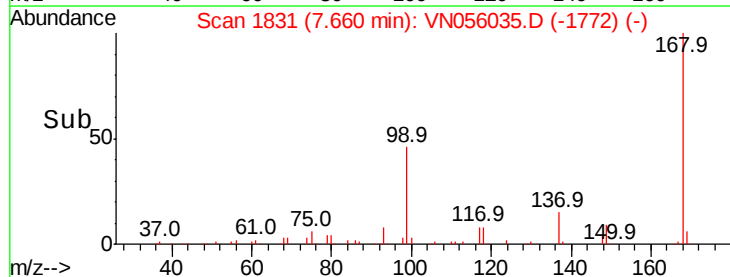
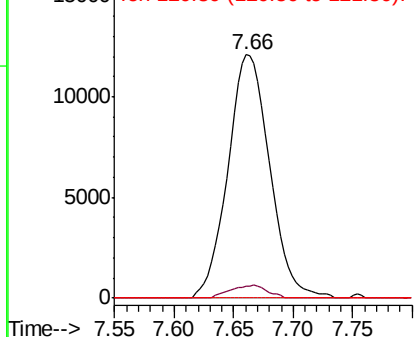


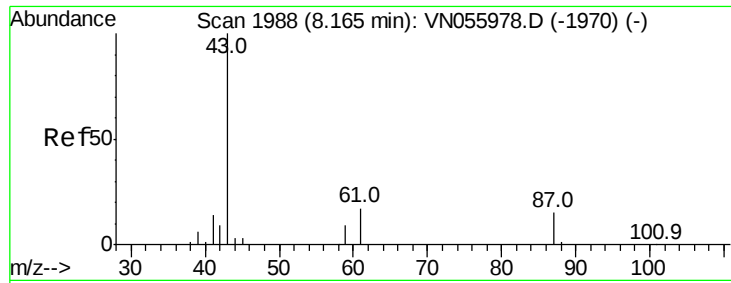
#38
 Carbon Tetrachloride
 Concen: 6.898 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN056035.D
 Acq: 6 Jun 2019 10:44

Tgt Ion: 117 Resp: 29424
 Ion Ratio Lower Upper
 117 100
 119 4.9 79.0 118.6#
 121 0.0 24.7 37.1#



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: 0.244 ug/l

RT: 8.28 min Scan# 2024

Delta R.T. 0.12 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB09-190604

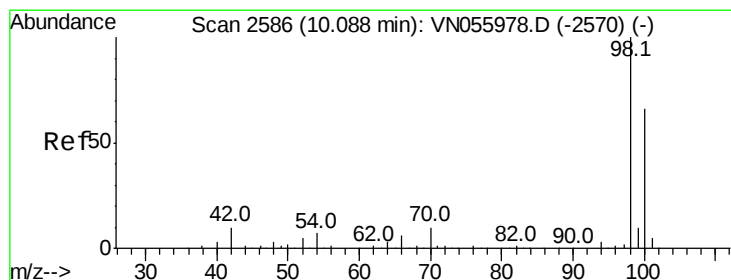
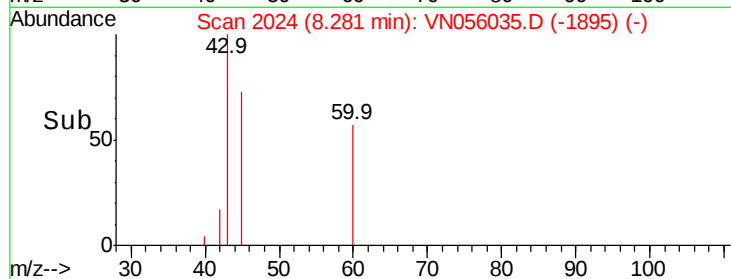
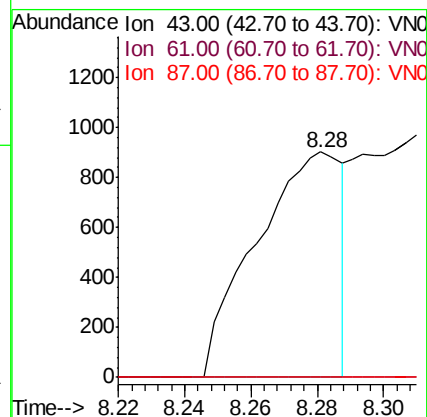
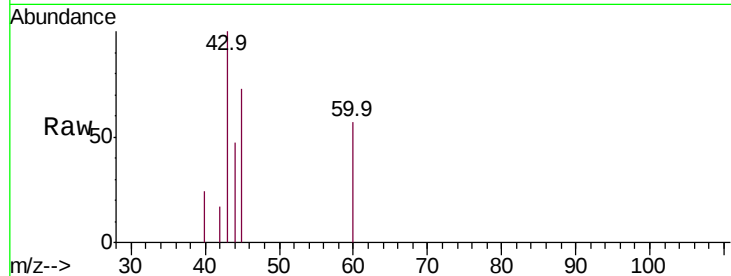
Tot Ion: 43 Resp: 1625

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#50

Toluene-d8

Concen: 53.041 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056035.D

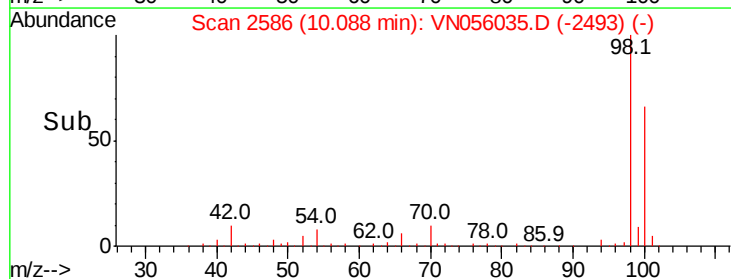
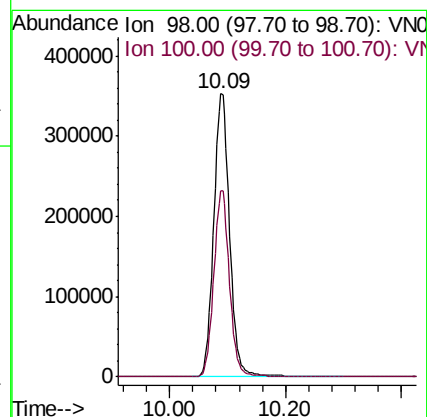
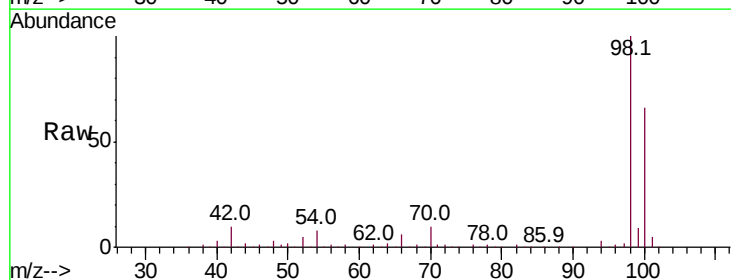
Acq: 6 Jun 2019 10:44

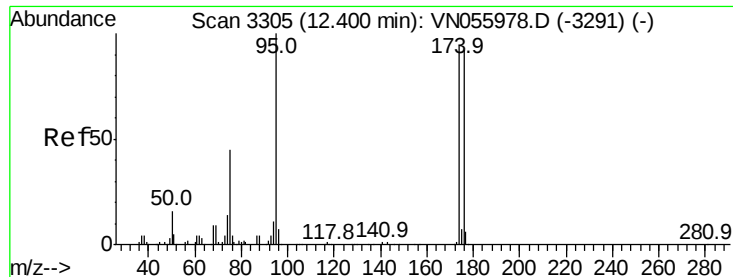
Tgt Ion: 98 Resp: 673825

Ion Ratio Lower Upper

98 100

100 65.0 51.9 77.9





#62

4-Bromofluorobenzene

Concen: 49.832 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB09-190604

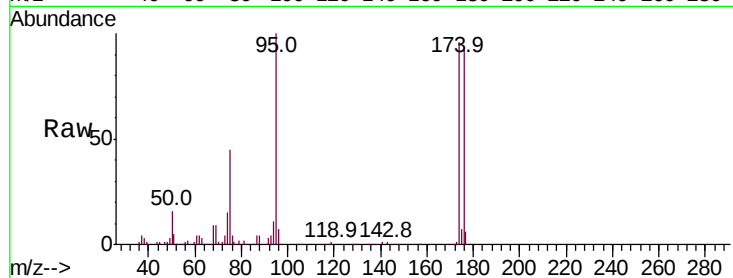
Tot Ion: 95 Resp: 215288

Ion Ratio Lower Upper

95 100

174 95.6 0.0 191.0

176 91.5 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

12.40

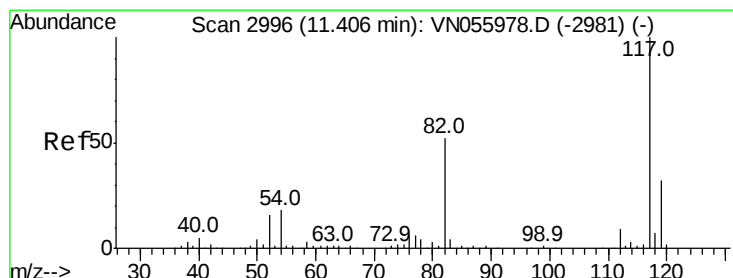
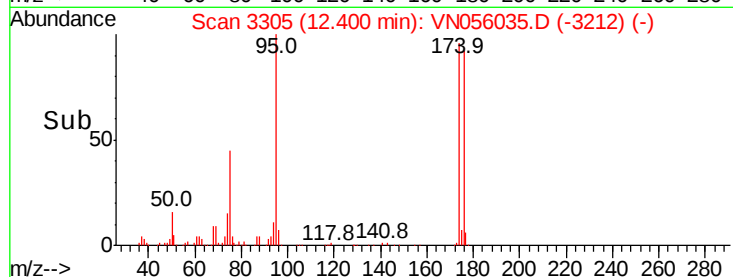
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

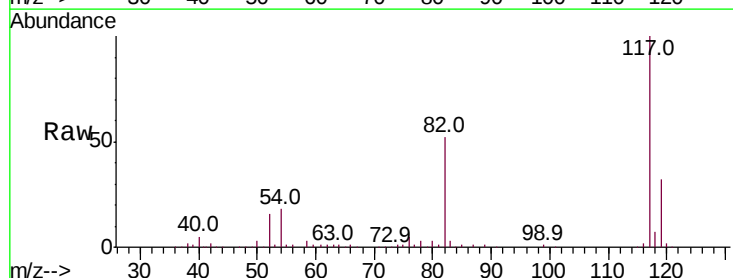
Tgt Ion: 117 Resp: 500800

Ion Ratio Lower Upper

117 100

82 51.9 41.8 62.8

119 32.1 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)

11.41

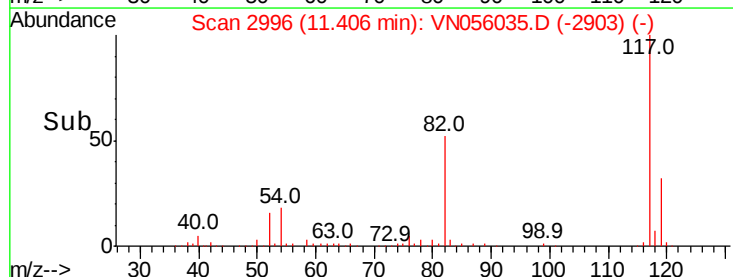
300000

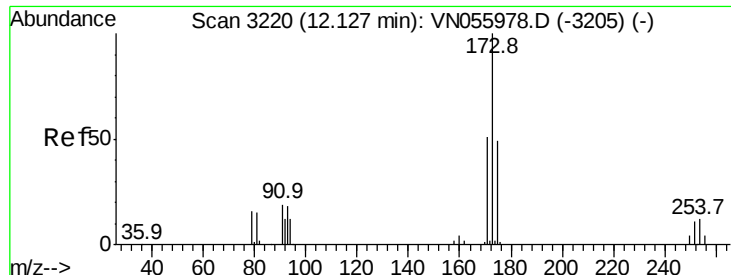
200000

100000

0

Time--> 11.30 11.40 11.50

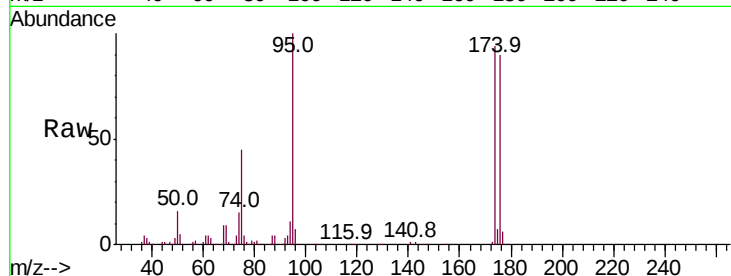




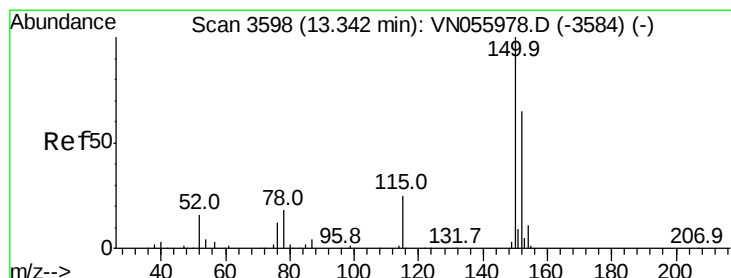
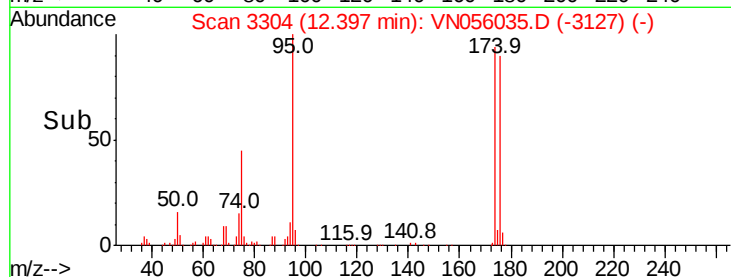
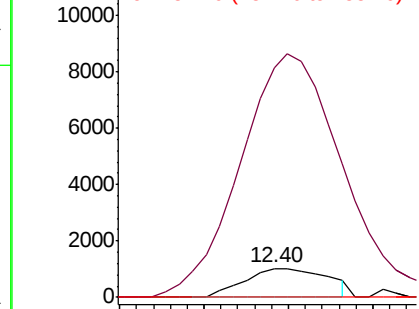
#71
Bromoform
Concen: 3.201 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN056035.D
Acq: 6 Jun 2019 10:44

Instrument :
MSVOA_N
ClientSampleId :
Z1-TB09-190604

Tot Ion:173 Resp: 1403
Ion Ratio Lower Upper
173 100
175 904.5 24.3 72.8#
254 0.0 0.0 0.0

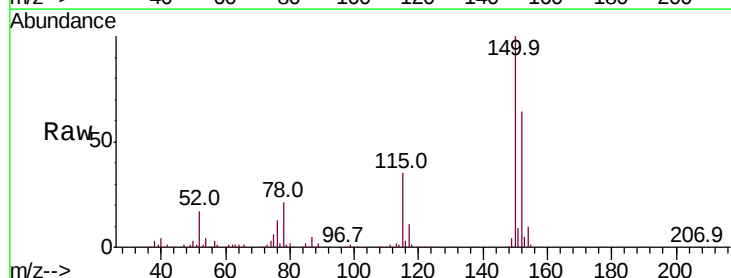


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

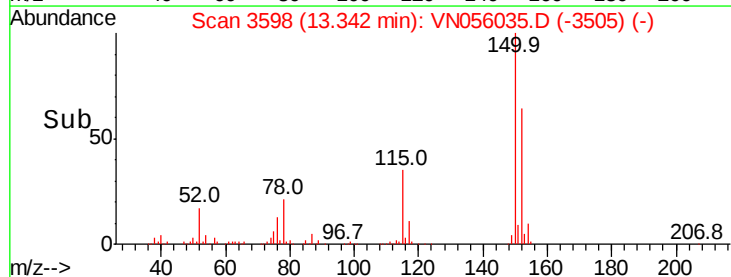
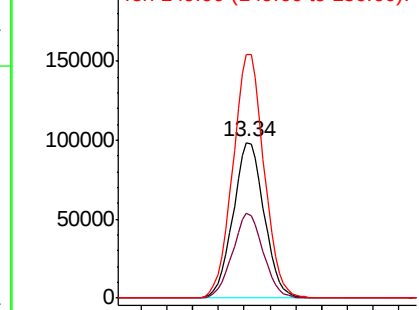


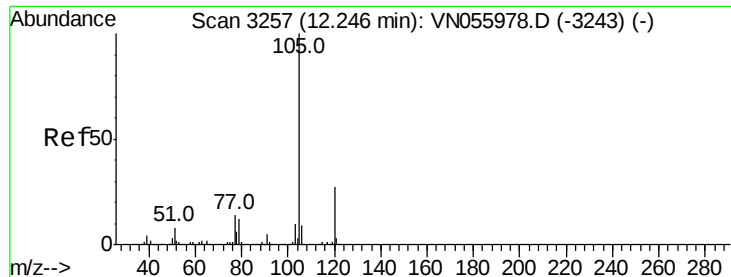
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056035.D
Acq: 6 Jun 2019 10:44

Tgt Ion:152 Resp: 164877
Ion Ratio Lower Upper
152 100
115 53.9 27.0 81.0
150 156.9 0.0 343.2



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: 12.41 min Scan# 3308

Delta R.T. 0.16 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

Instrument :

MSVOA_N

ClientSampleId :

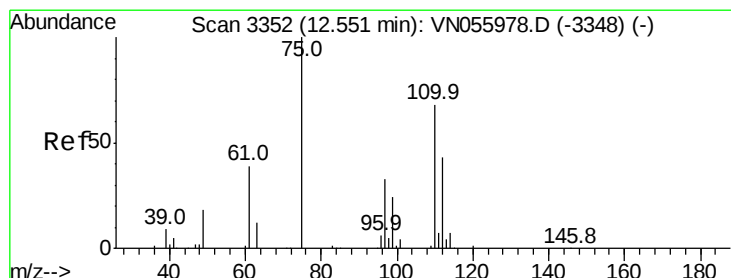
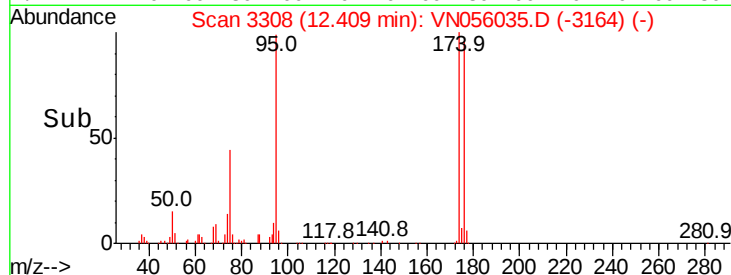
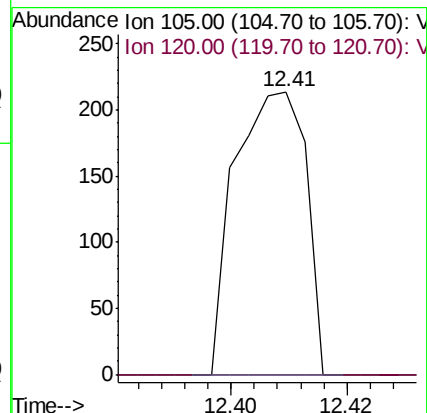
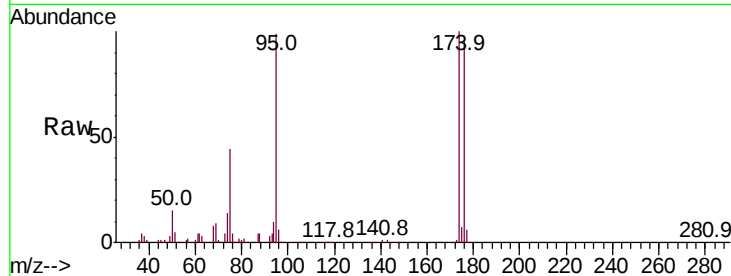
Z1-TB09-190604

Tot Ion:105 Resp: 181

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#76

1,2,3-Trichloropropane

Concen: 32.036 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056035.D

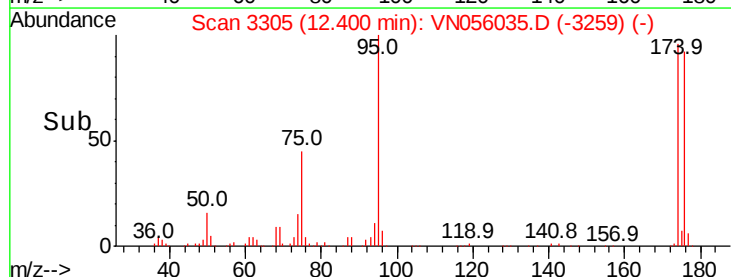
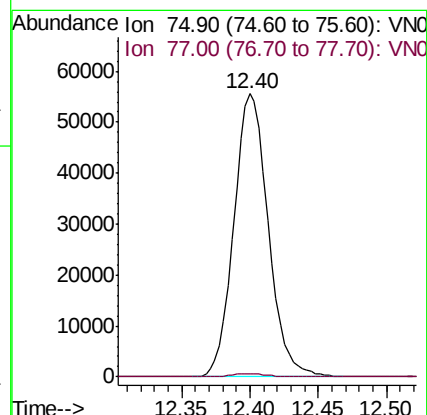
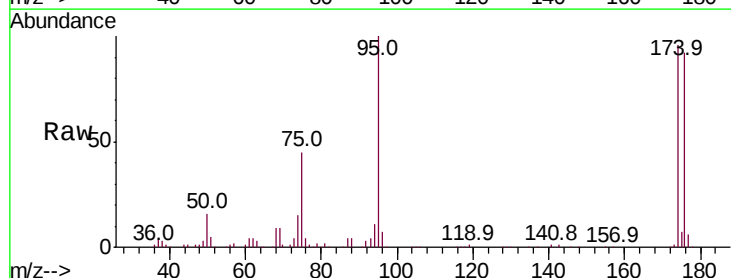
Acq: 6 Jun 2019 10:44

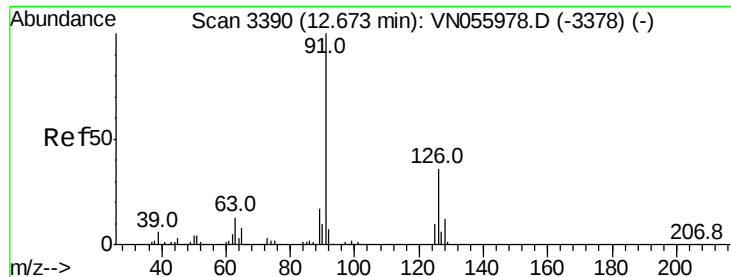
Tgt Ion: 75 Resp: 97191

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.60 min Scan# 3366

Delta R.T. -0.08 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

Instrument :

MSVOA_N

ClientSampleId :

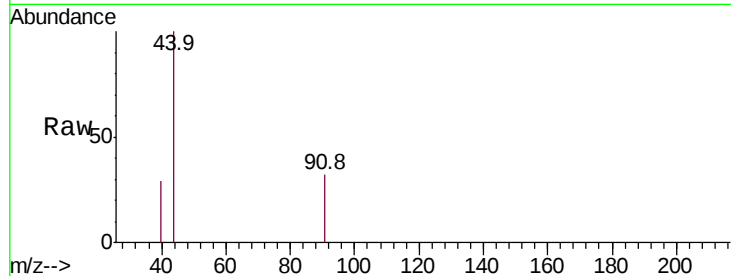
Z1-TB09-190604

Tot Ion: 91 Resp: 65

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

200

150

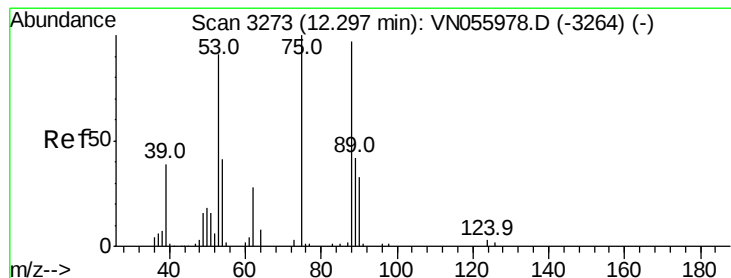
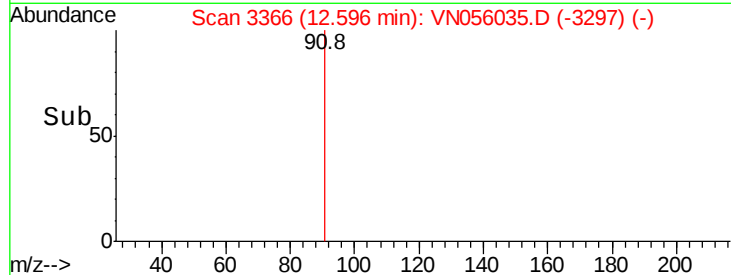
100

50

0

12.58 12.59 12.60

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 106.686 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

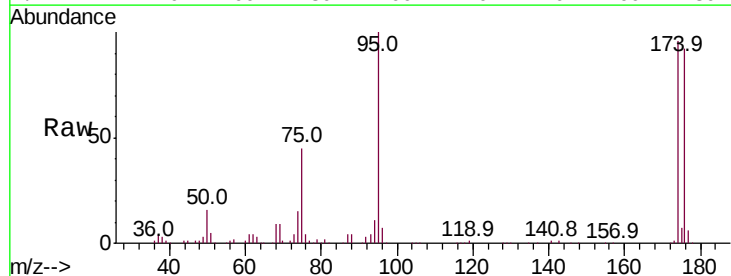
Tgt Ion: 75 Resp: 97191

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



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

60000

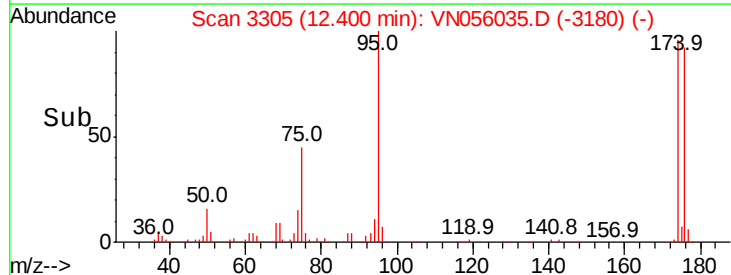
40000

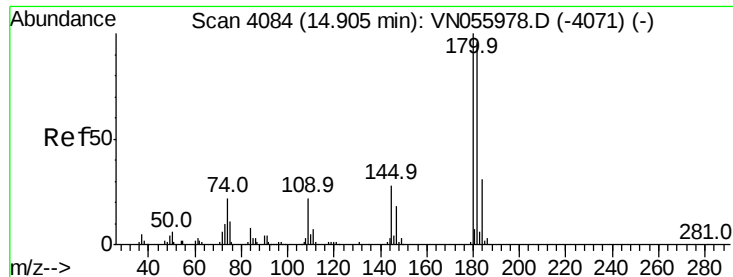
20000

0

12.35 12.40 12.45 12.50

Time-->

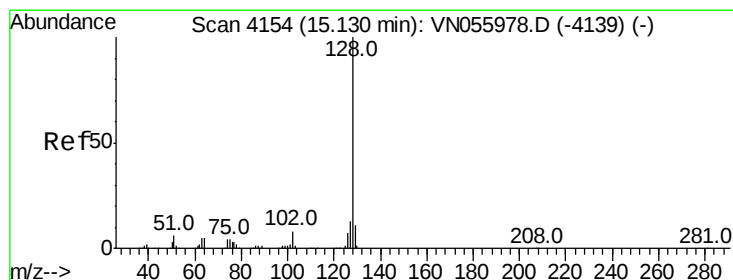
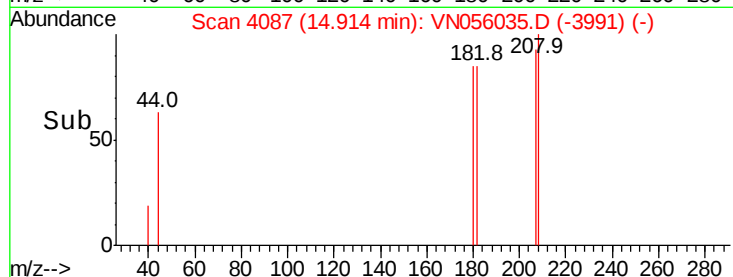
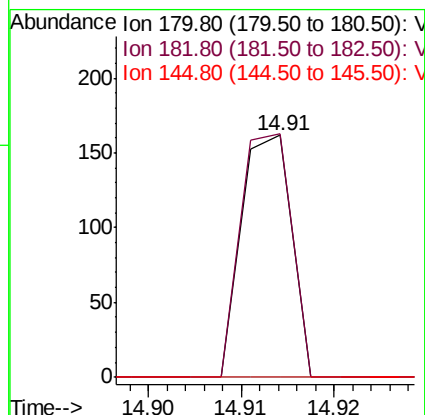
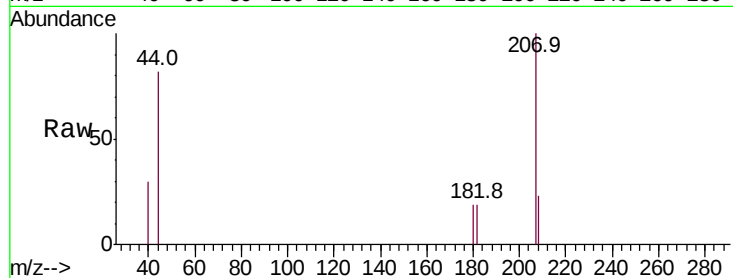




#93
 1,2,4-Trichlorobenzene
 Concen: 4.288 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN056035.D
 Acq: 6 Jun 2019 10:44

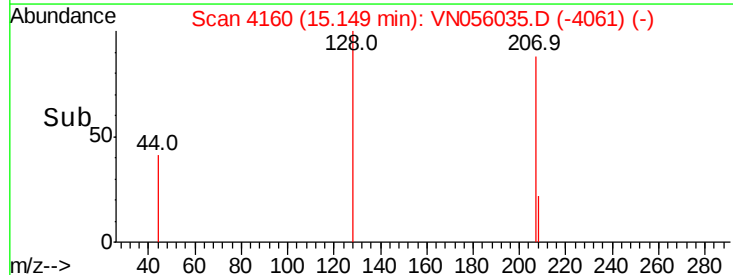
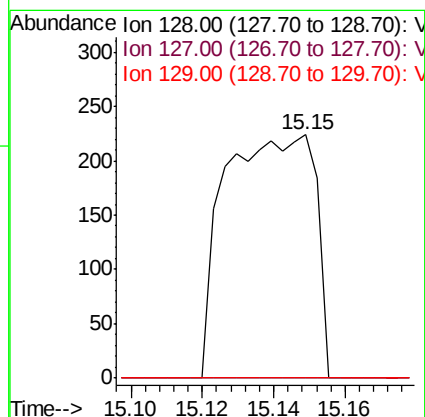
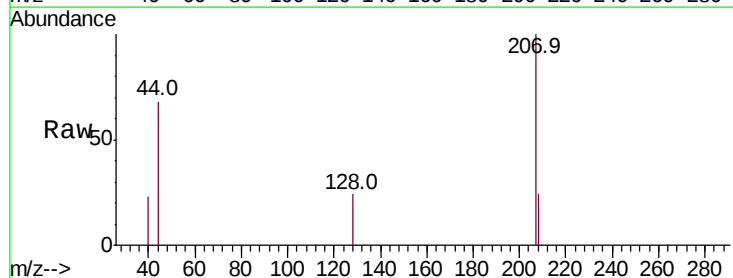
Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB09-190604

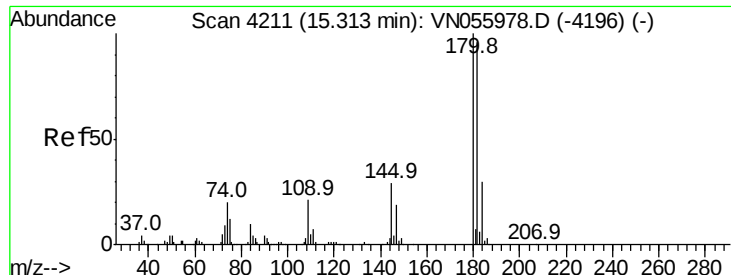
Tot Ion:180 Resp: 61
 Ion Ratio Lower Upper
 180 100
 182 101.6 48.3 144.9
 145 0.0 14.0 41.9#



#95
 Naphthalene
 Concen: 3.897 ug/l
 RT: 15.15 min Scan# 4160
 Delta R.T. 0.02 min
 Lab File: VN056035.D
 Acq: 6 Jun 2019 10:44

Tgt Ion:128 Resp: 390
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 3.040 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN056035.D

Acq: 6 Jun 2019 10:44

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB09-190604

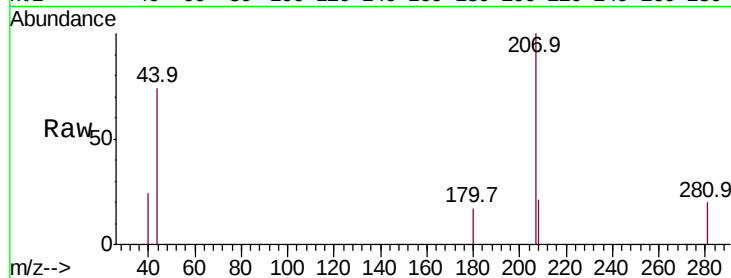
Tot Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 326.7 47.9 143.7#

145 0.0 14.9 44.7#



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

