

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058213.D
 Acq On : 19 Sep 2019 18:54
 Operator : JC/SP
 Sample : K4949-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 390918737.1-VOA

Quant Time: Sep 20 05:42:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	546554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	872116	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	757143	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	328807	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	368901	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
35) Dibromofluoromethane	7.57	113	251064	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
50) Toluene-d8	10.08	98	1025290	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	12.41	95	343487	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	

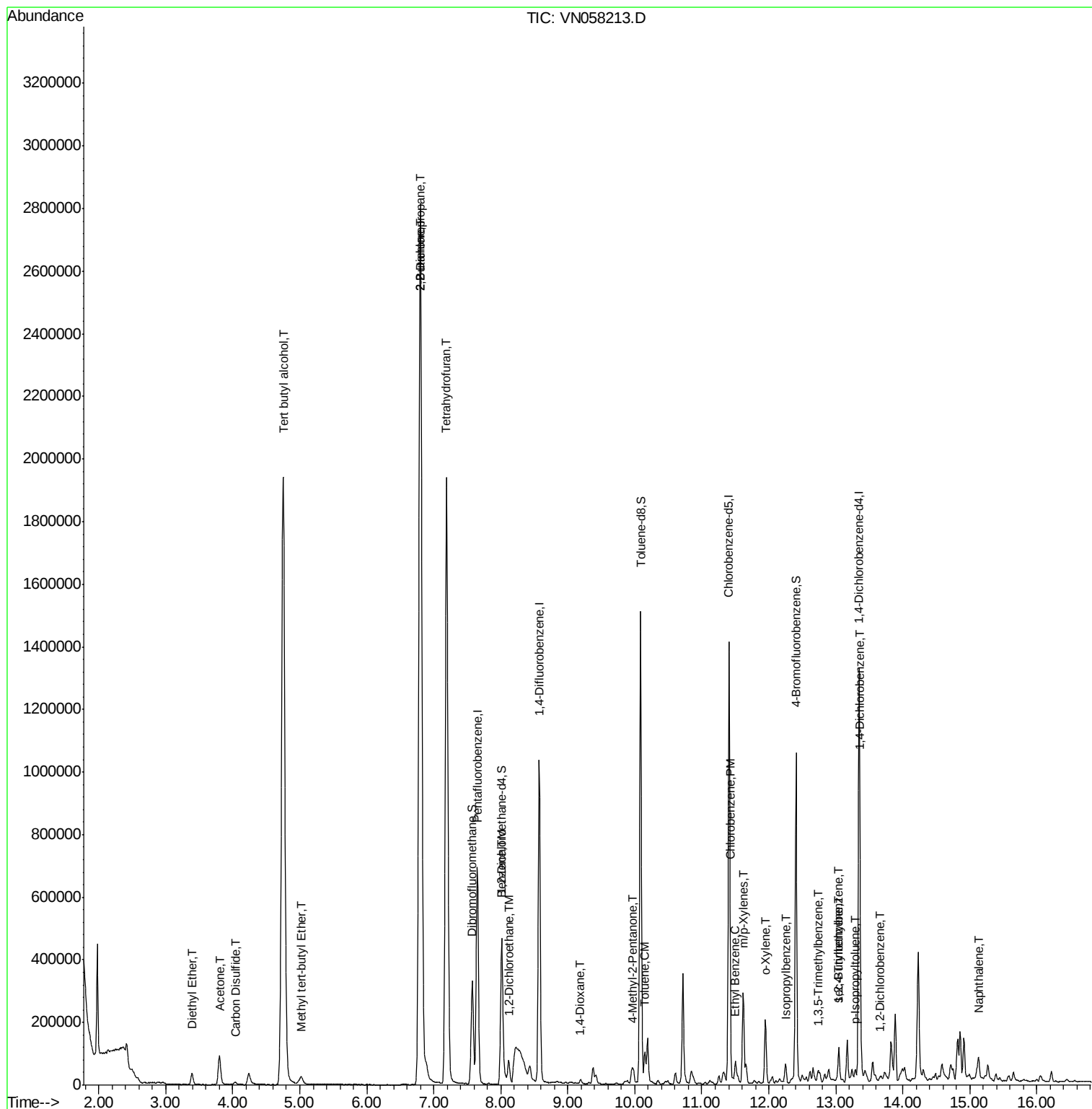
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	17038	6.068	ug/l	87
11) Tert butyl alcohol	4.75	59	3513739	3880.368	ug/l	99
16) Acetone	3.80	43	66207	25.622	ug/l	96
17) Carbon Disulfide	4.03	76	12975	3.005	ug/l #	95
19) Methyl tert-butyl Ether	5.01	73	37145	2.229	ug/l	99
25) 2-Butanone	6.80	43	186662	53.024	ug/l #	75
26) 2,2-Dichloropropane	6.80	77	216303	26.011	ug/l #	55
29) Tetrahydrofuran	7.19	42	1631841	752.544	ug/l	99
40) Benzene	8.03	78	62440	3.250	ug/l	98
42) 1,2-Dichloroethane	8.11	62	4564	0.566	ug/l	82
49) 1,4-Dioxane	9.19	88	7995	87.985	ug/l	96
51) 4-Methyl-2-Pentanone	9.97	43	46491	7.181	ug/l #	77
52) Toluene	10.15	92	39907	3.315	ug/l	98
65) Chlorobenzene	11.43	112	9014	0.677	ug/l	90
67) Ethyl Benzene	11.51	91	18737	0.821	ug/l	97
68) m/p-Xylenes	11.62	106	87585	10.191	ug/l	97
69) o-Xylene	11.95	106	48339	5.720	ug/l	96
73) Isopropylbenzene	12.25	105	26228	1.274	ug/l	95
80) 1,3,5-Trimethylbenzene	12.74	105	15768	0.906	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	55275	3.191	ug/l	96
85) sec-Butylbenzene	13.04	105	55275	2.724	ug/l #	58
86) p-Isopropyltoluene	13.29	119	14163	0.785	ug/l	98
88) 1,4-Dichlorobenzene	13.37	146	34984	3.624	ug/l	88
91) 1,2-Dichlorobenzene	13.66	146	2312	0.244	ug/l #	84
95) Naphthalene	15.13	128	54015	3.439	ug/l	99

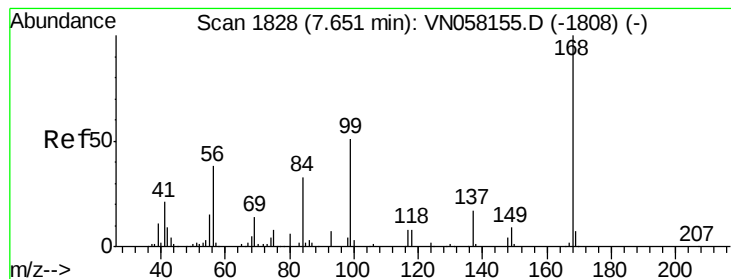
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

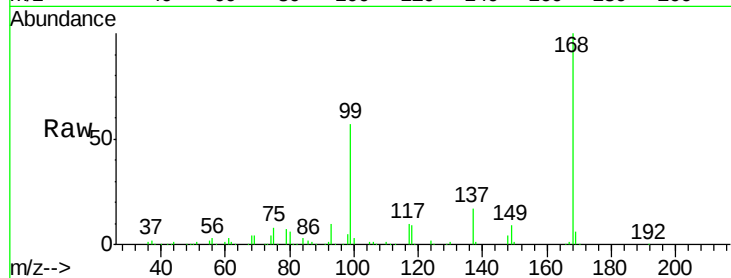
390918737.1-VOA

Tot Ion:168 Resp: 546554

Ion Ratio Lower Upper

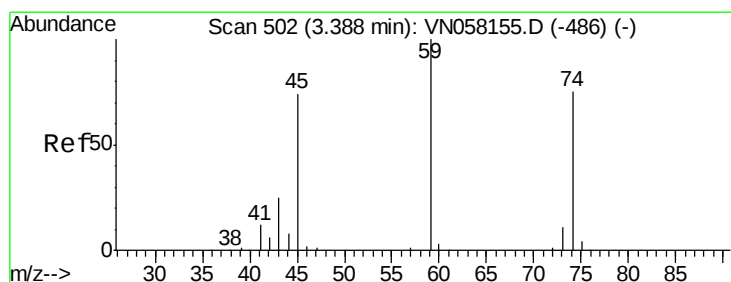
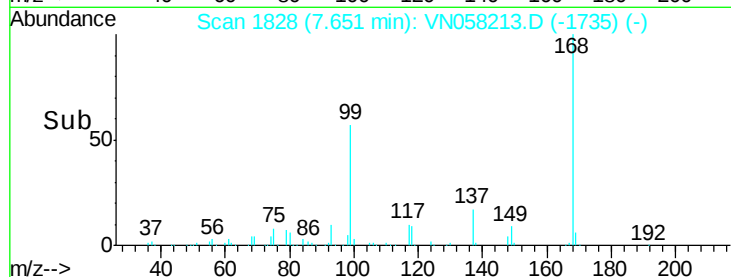
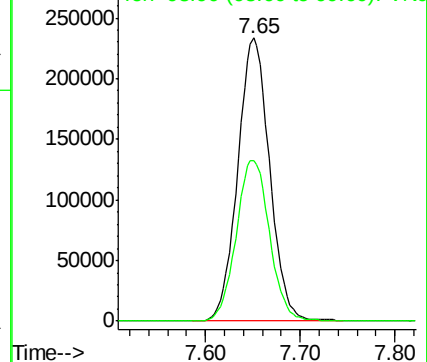
168 100

99 56.9 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 6.068 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN058213.D

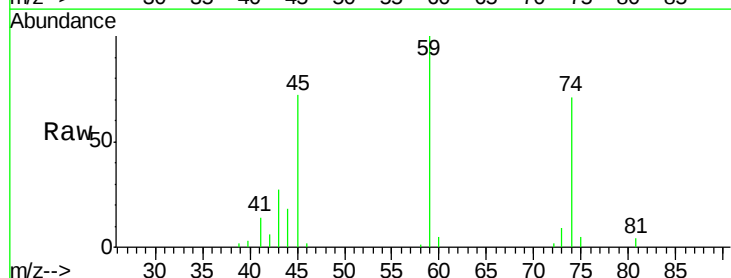
Acq: 19 Sep 2019 18:54

Tgt Ion: 74 Resp: 17038

Ion Ratio Lower Upper

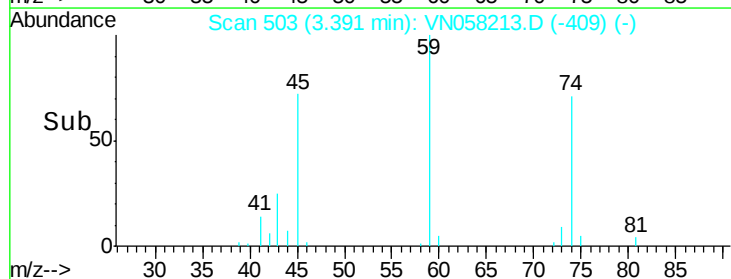
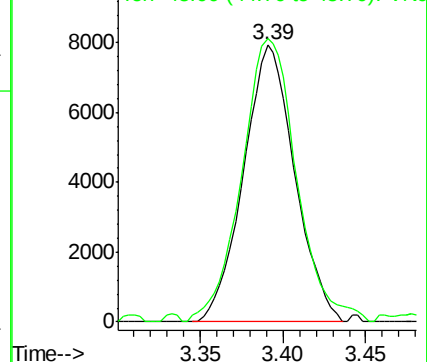
74 100

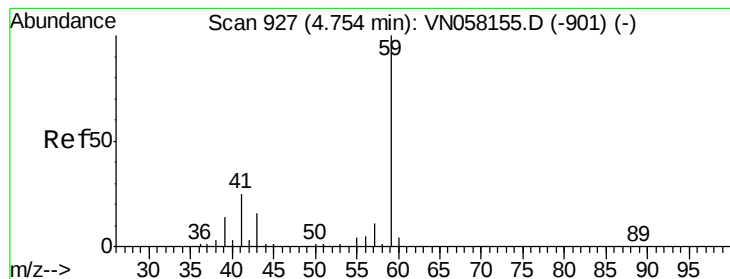
45 110.1 48.5 145.5



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





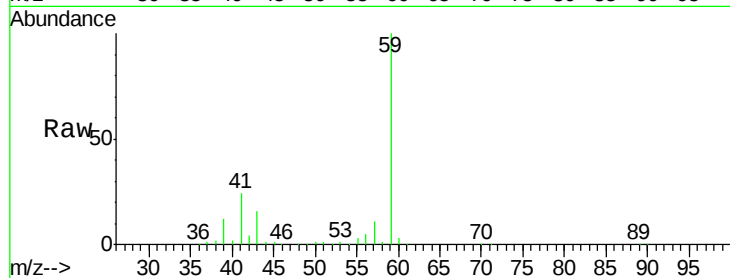
#11

Tert butyl alcohol
 Concen: 3880.368 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: VN058213.D
 Acq: 19 Sep 2019 18:54

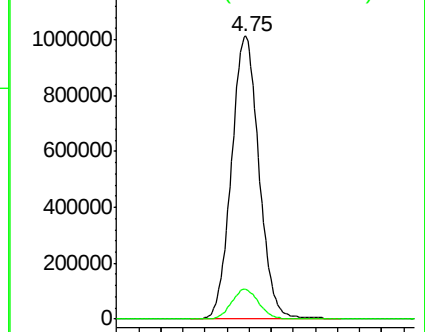
Instrument :
 MSVOA_N
 ClientSampleId :
 390918737.1-VOA

Tot Ion: 59 Resp: 3513739

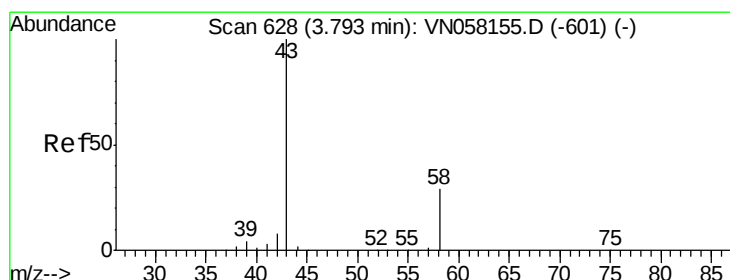
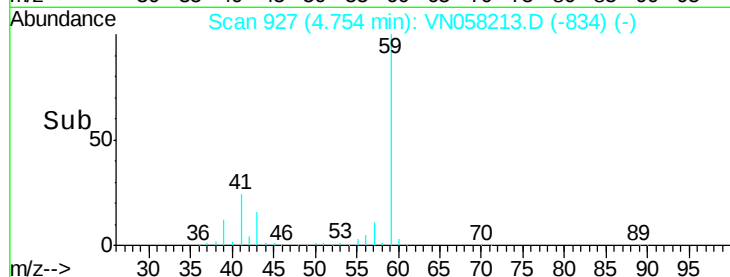
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.6	13.0



Abundance Ion 59.00 (58.70 to 59.70): VNO
 Ion 57.00 (56.70 to 57.70): VNO



Time-->

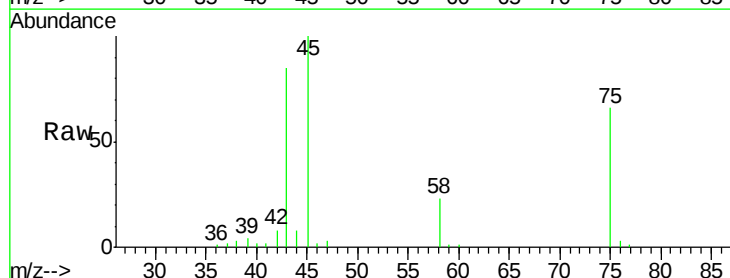


#16

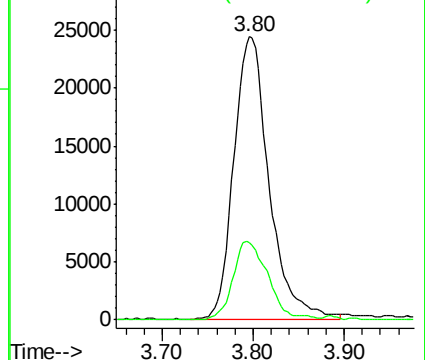
Acetone
 Concen: 25.622 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.00 min
 Lab File: VN058213.D
 Acq: 19 Sep 2019 18:54

Tgt Ion: 43 Resp: 66207

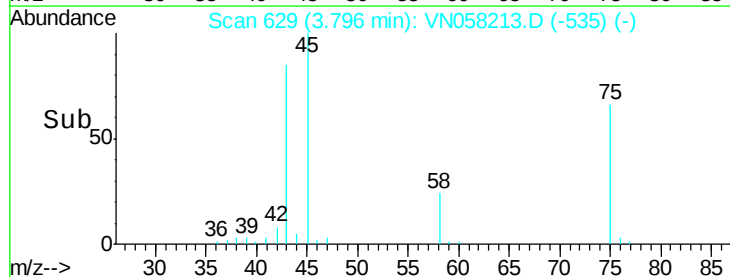
Ion	Ratio	Lower	Upper
43	100		
58	27.3	23.4	35.2

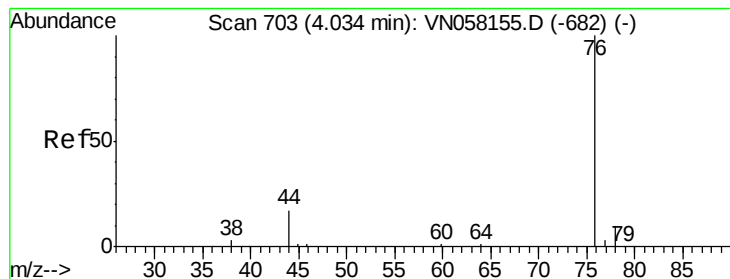


Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO



Time-->





#17

Carbon Disulfide

Concen: 3.005 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

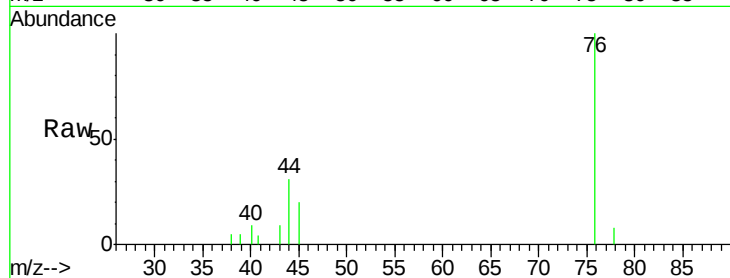
390918737.1-VOA

Tot Ion: 76 Resp: 12975

Ion Ratio Lower Upper

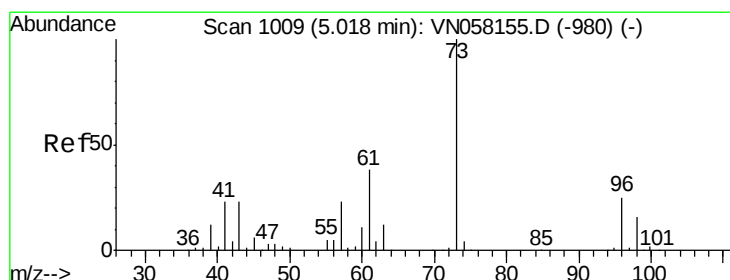
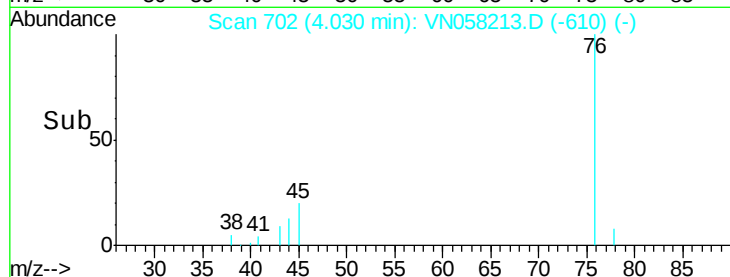
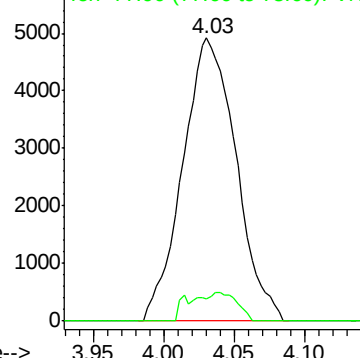
76 100

78 7.7 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#19

Methyl tert-butyl Ether

Concen: 2.229 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. -0.00 min

Lab File: VN058213.D

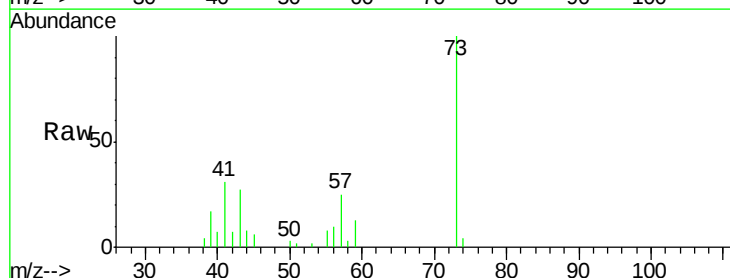
Acq: 19 Sep 2019 18:54

Tgt Ion: 73 Resp: 37145

Ion Ratio Lower Upper

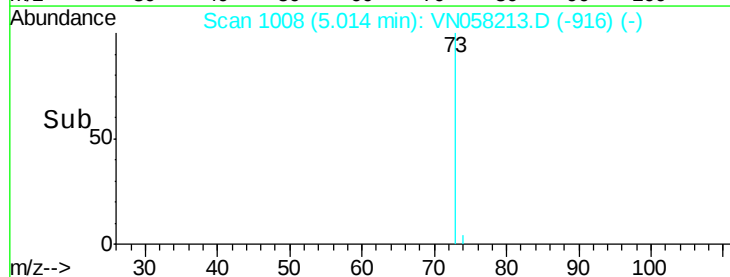
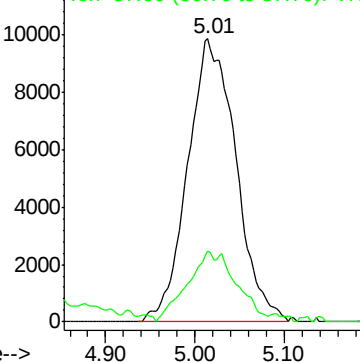
73 100

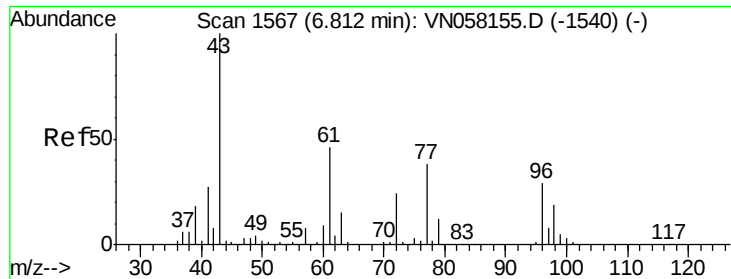
57 23.3 18.1 27.1



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#25

2-Butanone

Concen: 53.024 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

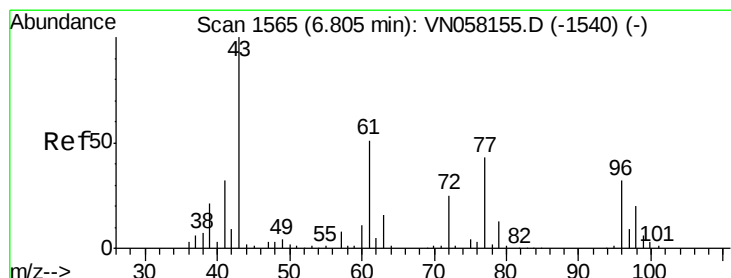
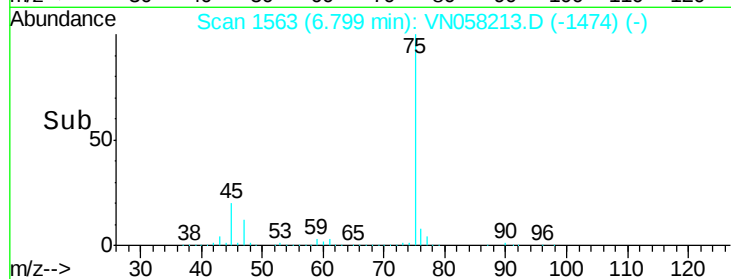
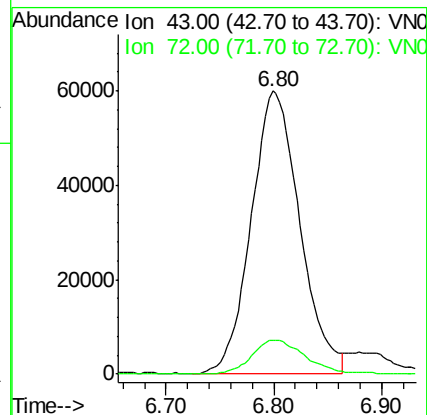
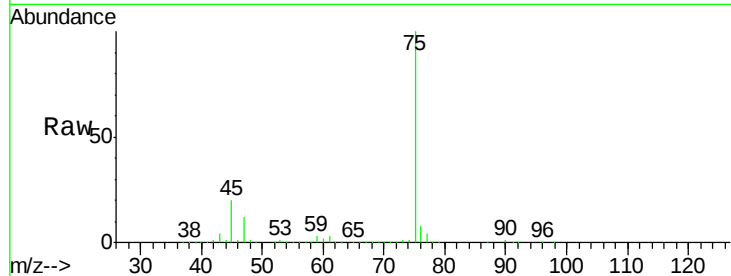
390918737.1-VOA

Tot Ion: 43 Resp: 186662

Ion Ratio Lower Upper

43 100

72 12.1 19.5 29.3#



#26

2,2-Dichloropropane

Concen: 26.011 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN058213.D

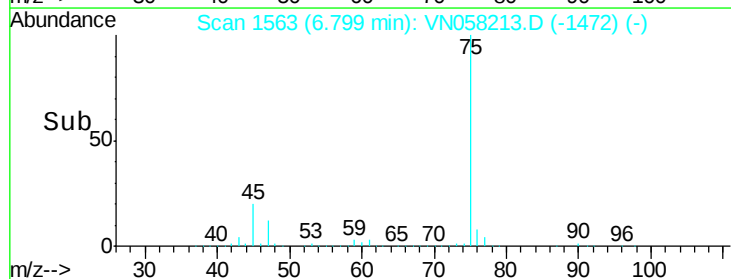
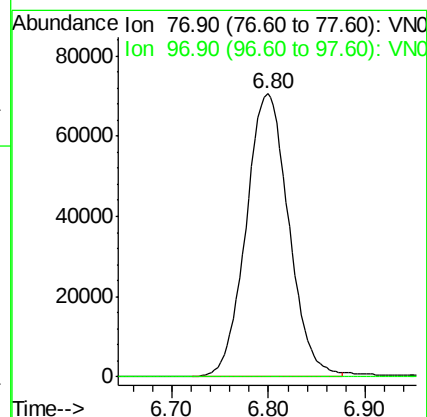
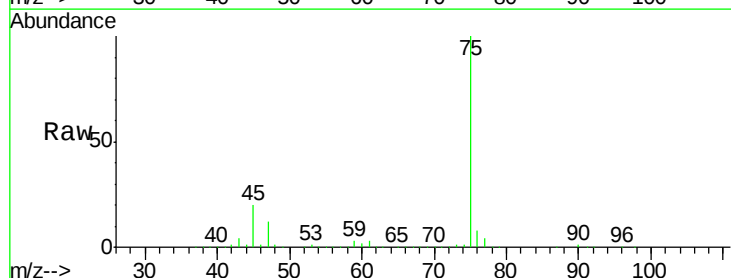
Acq: 19 Sep 2019 18:54

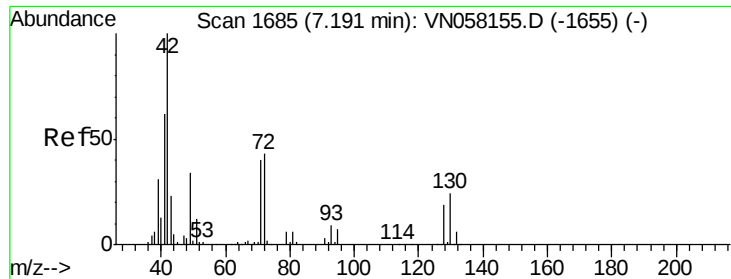
Tgt Ion: 77 Resp: 216303

Ion Ratio Lower Upper

77 100

97 0.0 10.5 31.6#

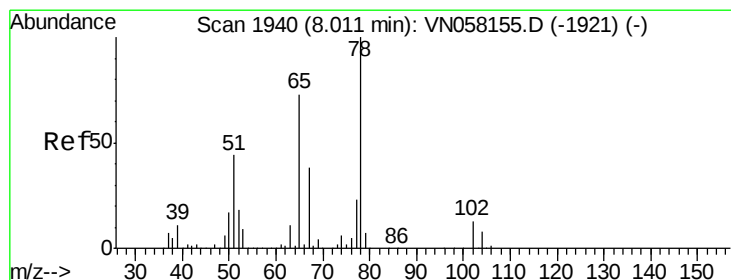
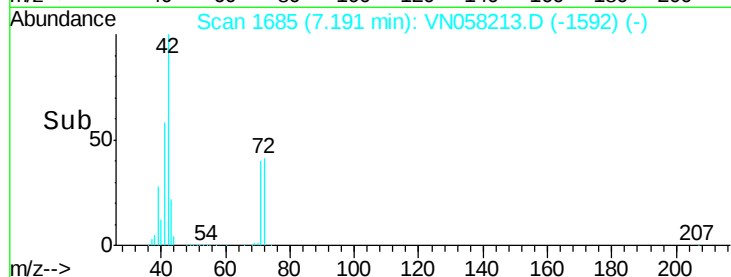
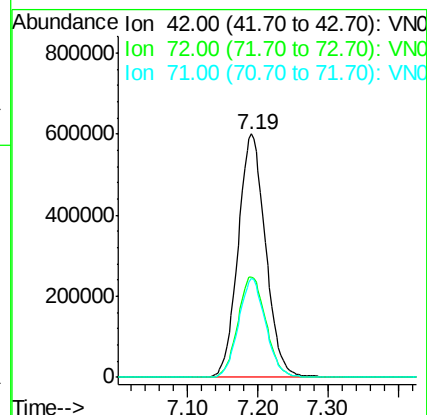
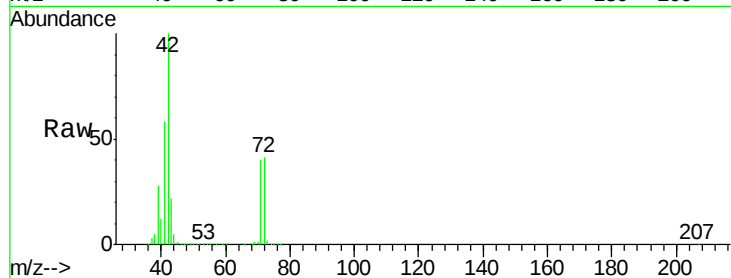




#29
Tetrahydrofuran
Concen: 752.544 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN058213.D
Acq: 19 Sep 2019 18:54

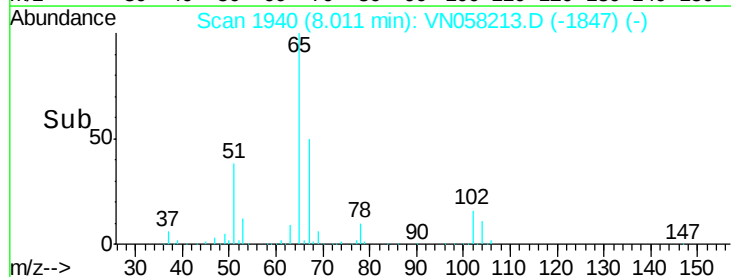
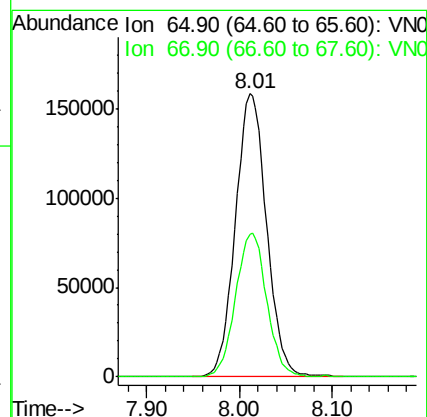
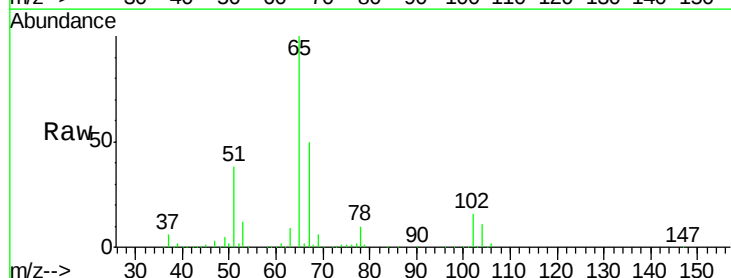
Instrument :
MSVOA_N
ClientSampleId :
390918737.1-VOA

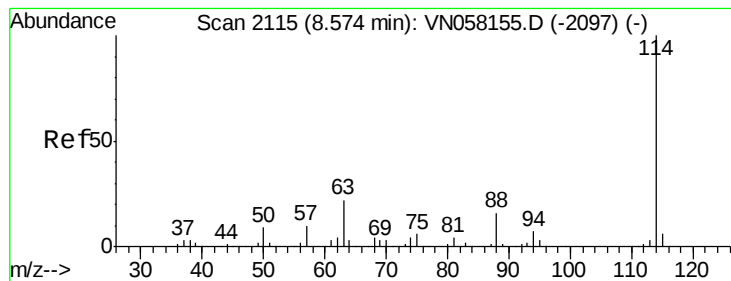
Tot Ion: 42 Resp: 1631841
Ion Ratio Lower Upper
42 100
72 42.3 33.8 50.6
71 40.1 31.4 47.0



#33
1,2-Dichloroethane-d4
Concen: 48.460 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058213.D
Acq: 19 Sep 2019 18:54

Tgt Ion: 65 Resp: 368901
Ion Ratio Lower Upper
65 100
67 50.6 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

390918737.1-VOA

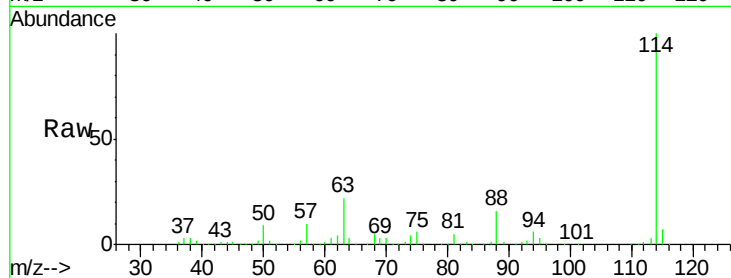
Tot Ion:114 Resp: 872116

Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.2

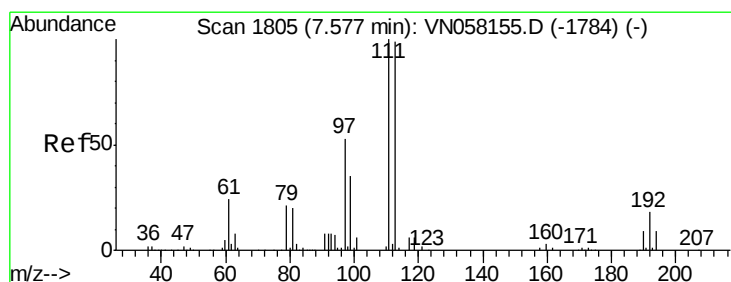
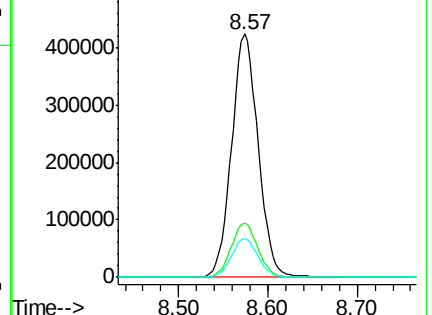
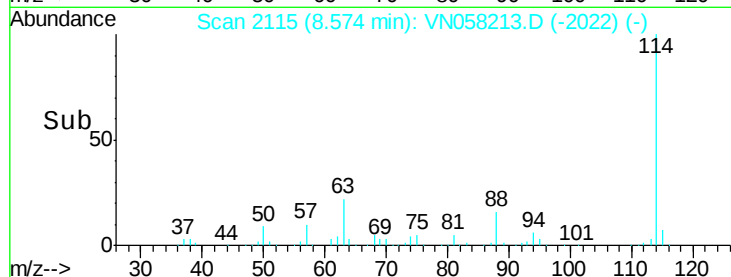
88 15.8 0.0 31.6



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: 47.355 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

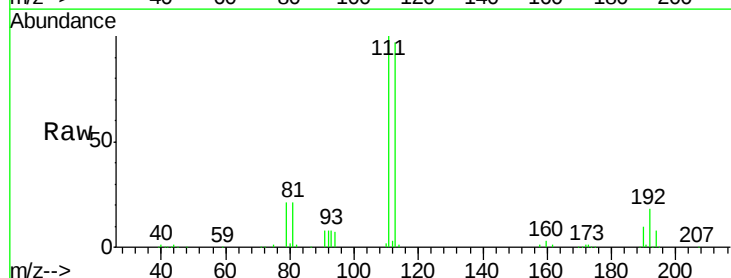
Tgt Ion:113 Resp: 251064

Ion Ratio Lower Upper

113 100

111 101.0 81.8 122.6

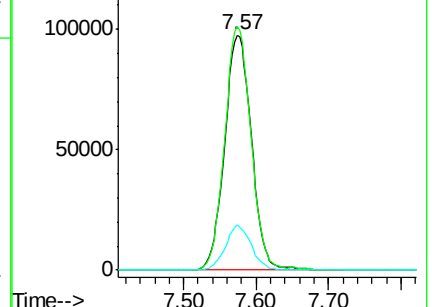
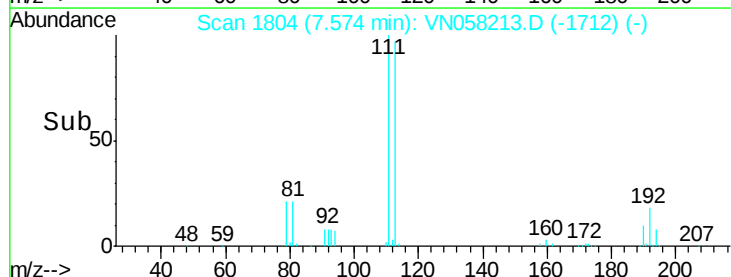
192 18.3 14.5 21.7

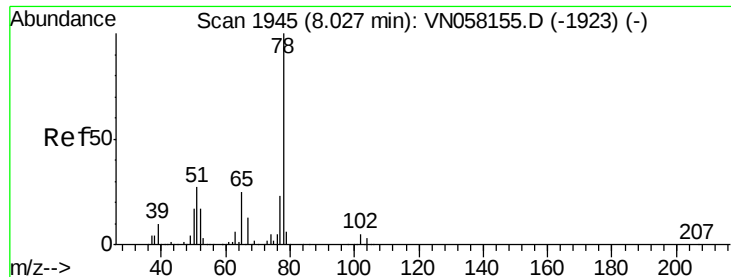


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 3.250 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

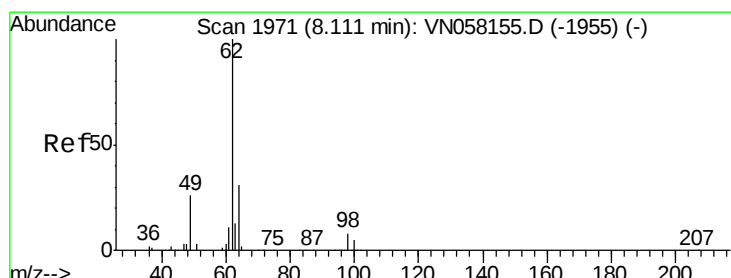
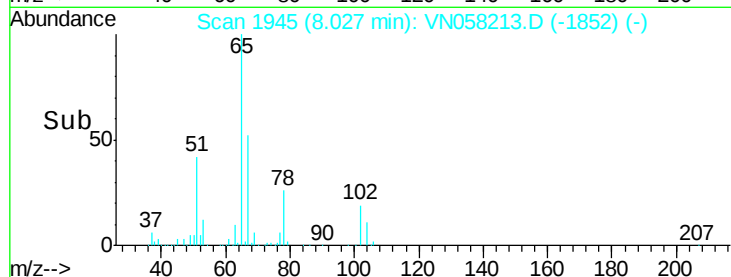
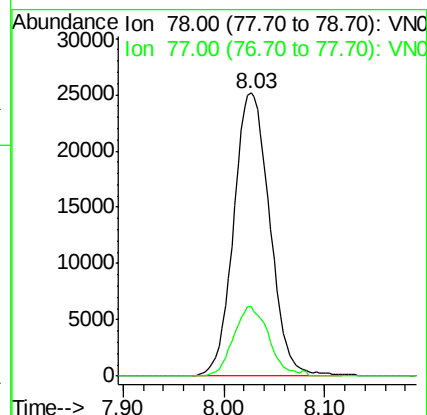
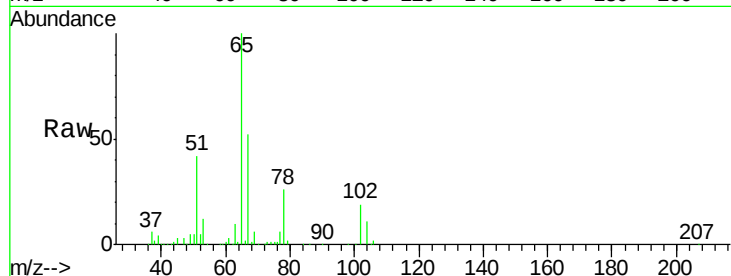
390918737.1-VOA

Tot Ion: 78 Resp: 62440

Ion Ratio Lower Upper

78 100

77 24.5 18.8 28.2



#42

1,2-Dichloroethane

Concen: 0.566 ug/l

RT: 8.11 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VN058213.D

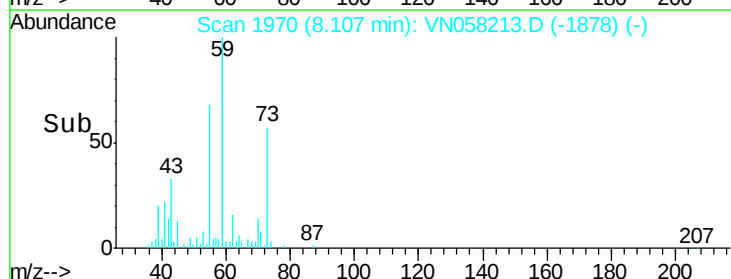
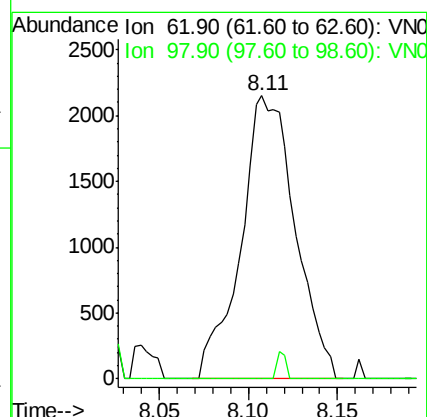
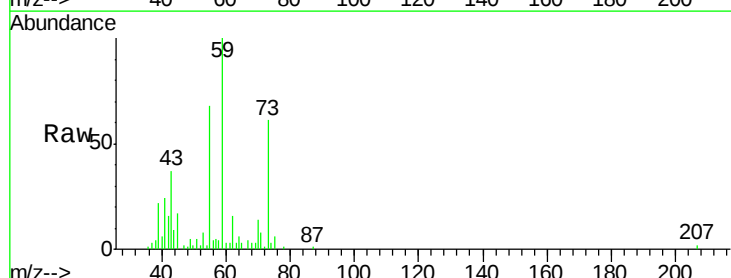
Acq: 19 Sep 2019 18:54

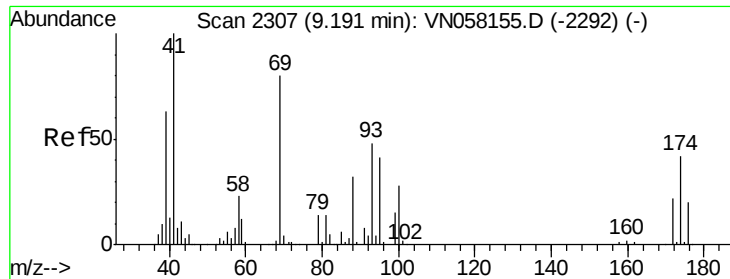
Tgt Ion: 62 Resp: 4564

Ion Ratio Lower Upper

62 100

98 1.6 0.0 15.6

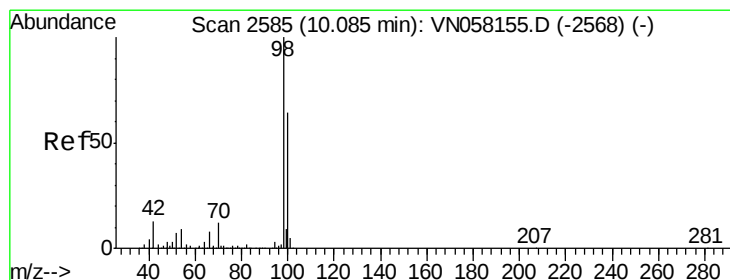
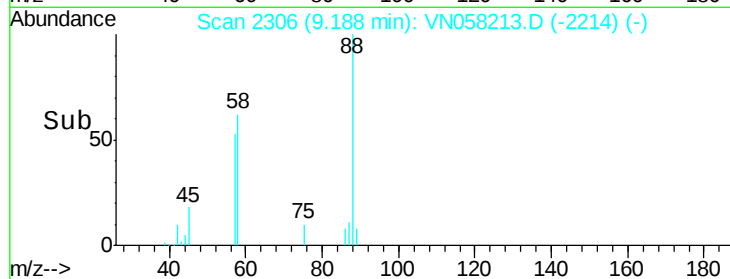
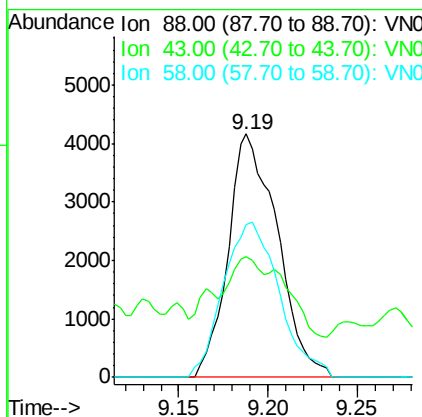
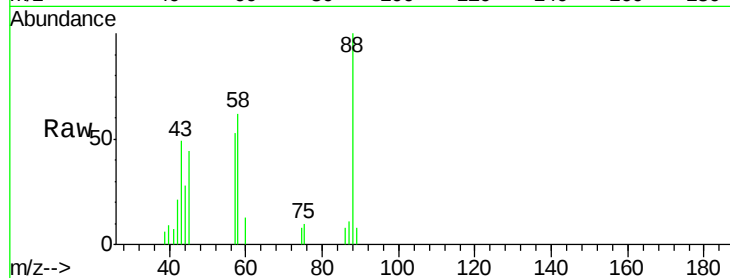




#49
1,4-Dioxane
Concen: 87.985 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VN058213.D
Acq: 19 Sep 2019 18:54

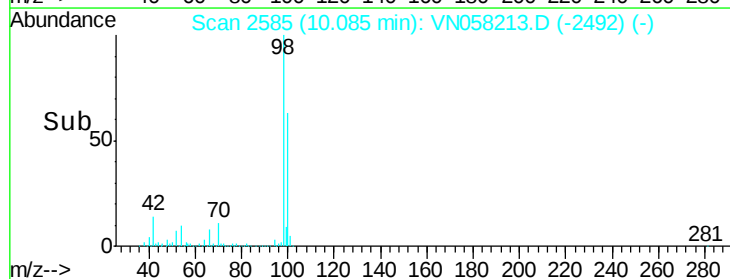
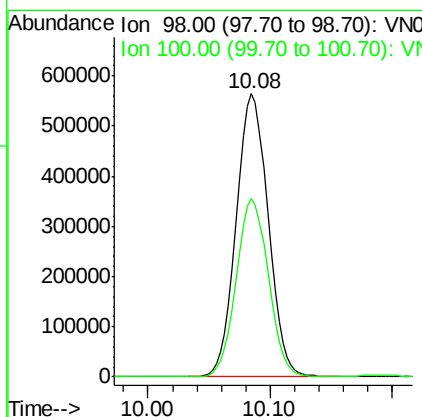
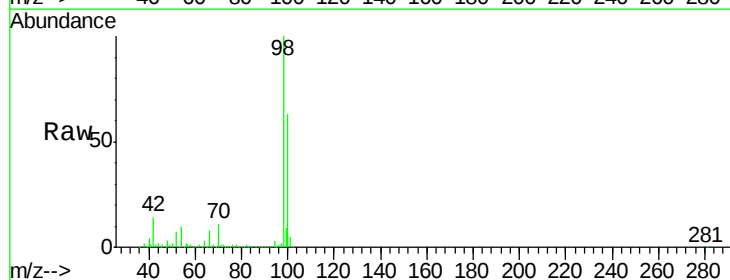
Instrument :
MSVOA_N
ClientSampleId :
390918737.1-VOA

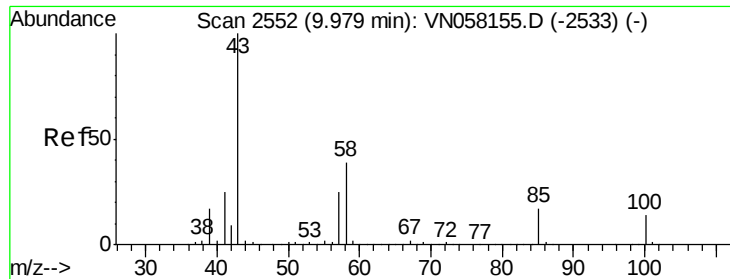
Tot Ion: 88 Resp: 7995
Ion Ratio Lower Upper
88 100
43 36.8 27.8 41.8
58 72.3 55.0 82.4



#50
Toluene-d8
Concen: 49.635 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058213.D
Acq: 19 Sep 2019 18:54

Tgt Ion: 98 Resp: 1025290
Ion Ratio Lower Upper
98 100
100 63.5 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 7.181 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.01 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

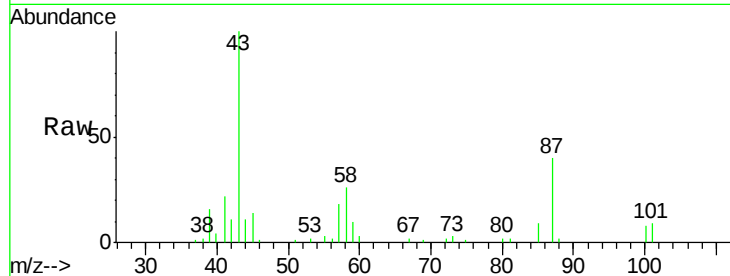
390918737.1-VOA

Tot Ion: 43 Resp: 46491

Ion Ratio Lower Upper

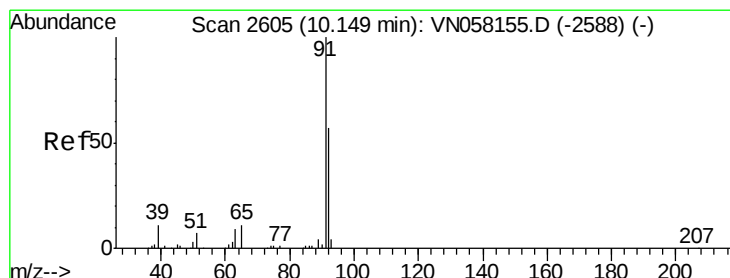
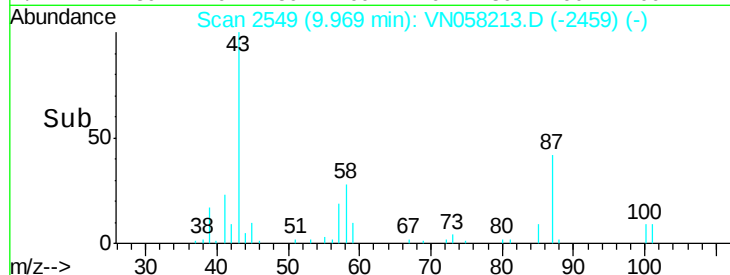
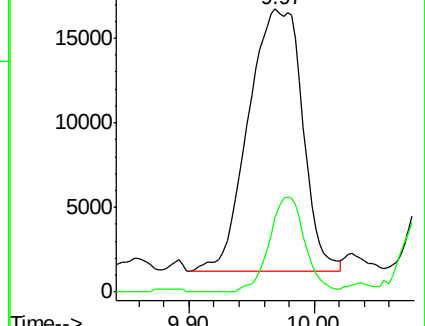
43 100

58 23.9 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VN058155.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN058155.D (-2533) (-)



#52

Toluene

Concen: 3.315 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058213.D

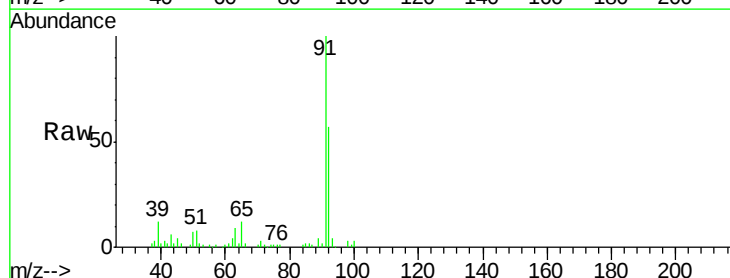
Acq: 19 Sep 2019 18:54

Tgt Ion: 92 Resp: 39907

Ion Ratio Lower Upper

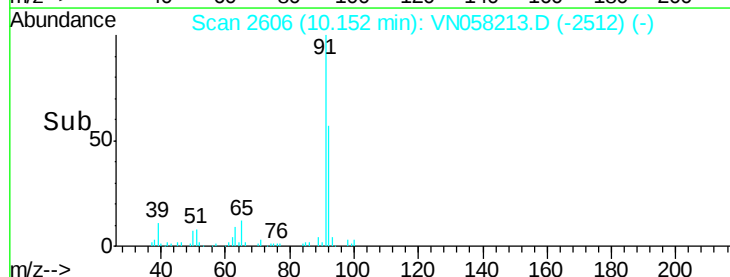
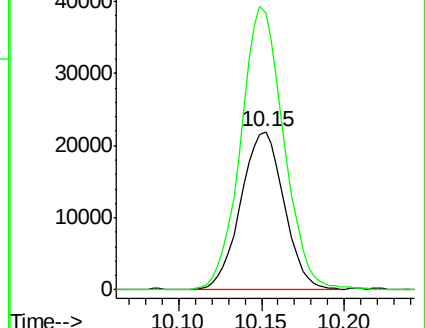
92 100

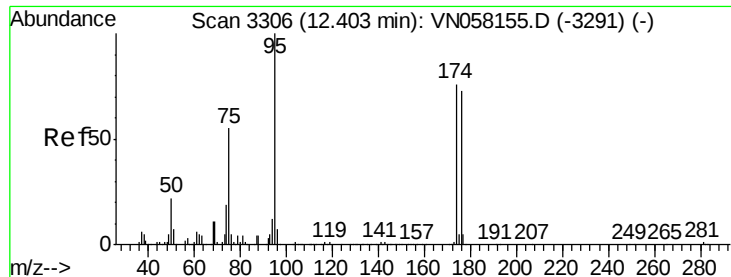
91 177.7 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN058155.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN058155.D (-2588) (-)





#62

4-Bromofluorobenzene

Concen: 44.765 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

390918737.1-VOA

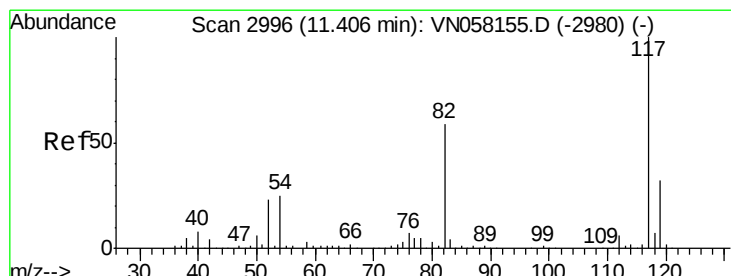
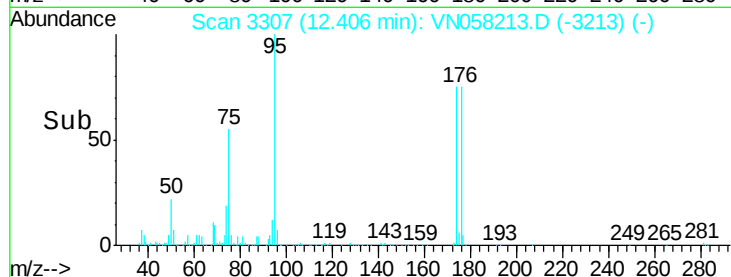
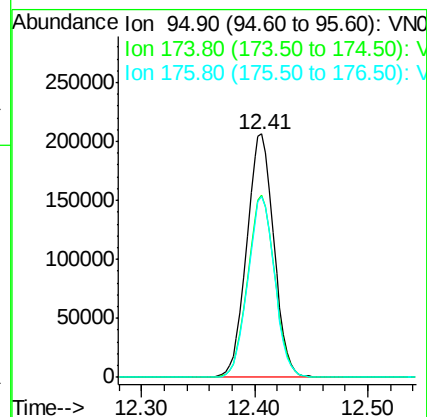
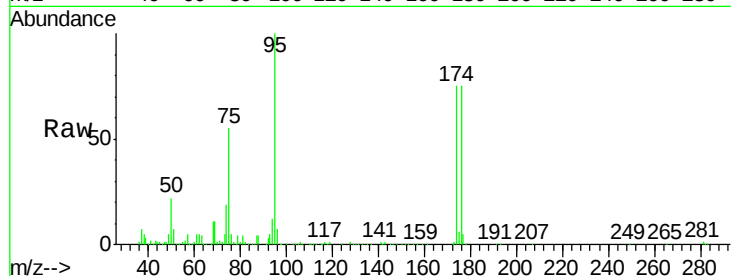
Tot Ion: 95 Resp: 343487

Ion Ratio Lower Upper

95 100

174 75.0 0.0 152.2

176 73.5 0.0 148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

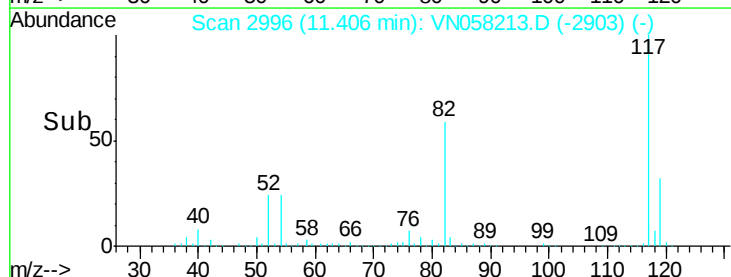
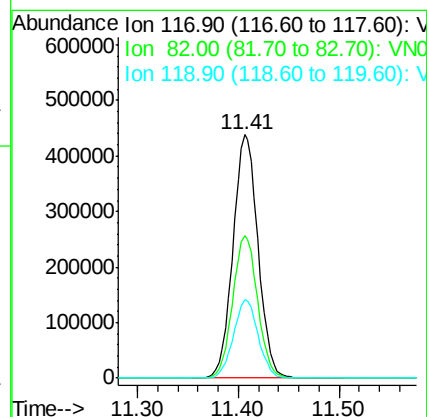
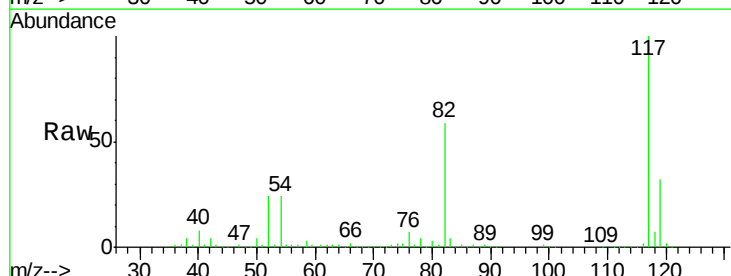
Tgt Ion: 117 Resp: 757143

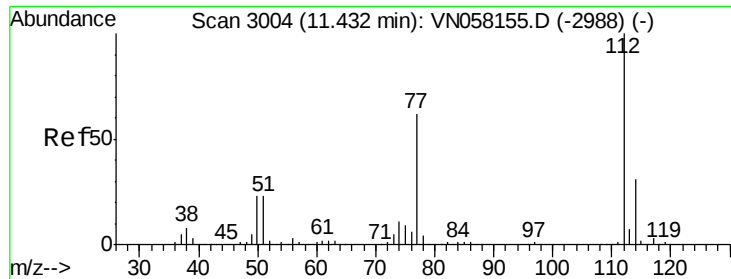
Ion Ratio Lower Upper

117 100

82 58.5 46.9 70.3

119 32.1 25.3 37.9

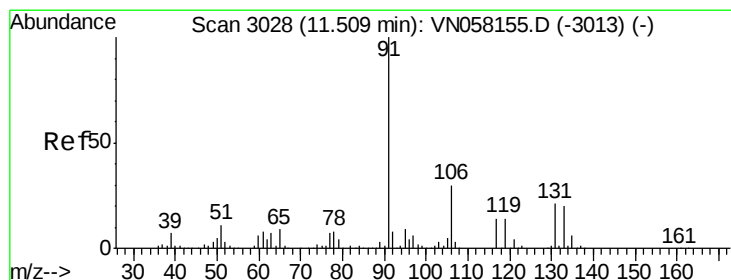
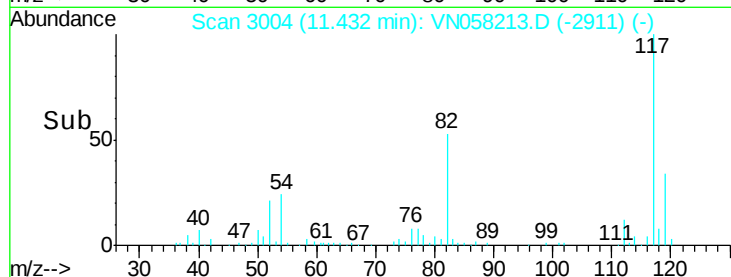
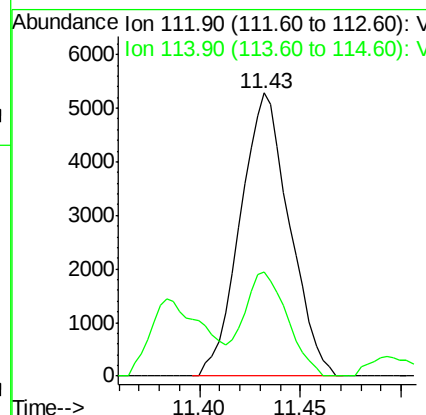
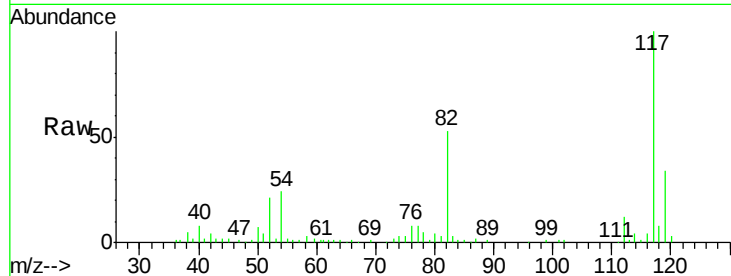




#65
Chlorobenzene
Concen: 0.677 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN058213.D
Acq: 19 Sep 2019 18:54

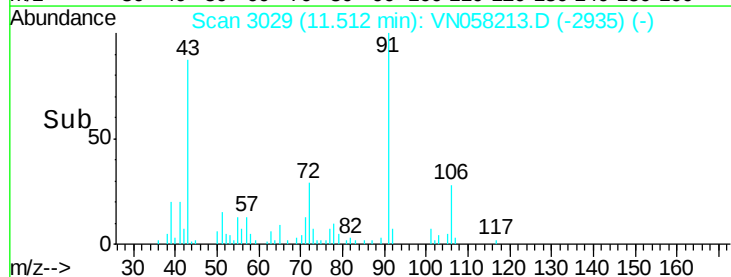
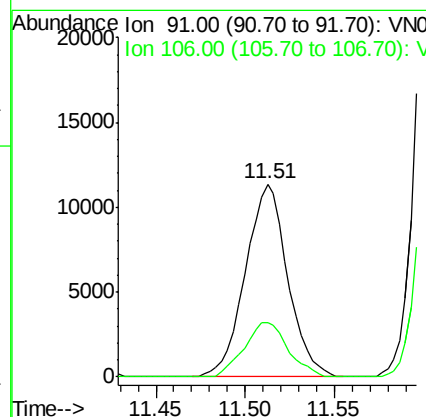
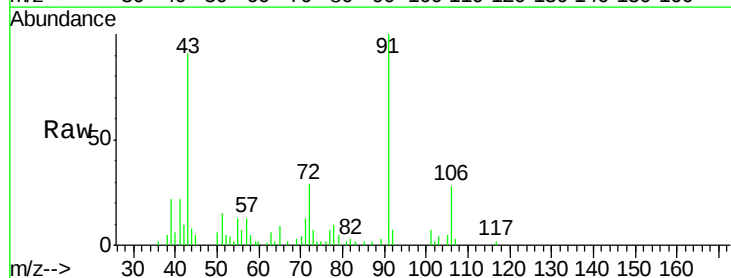
Instrument :
MSVOA_N
ClientSampleId :
390918737.1-VOA

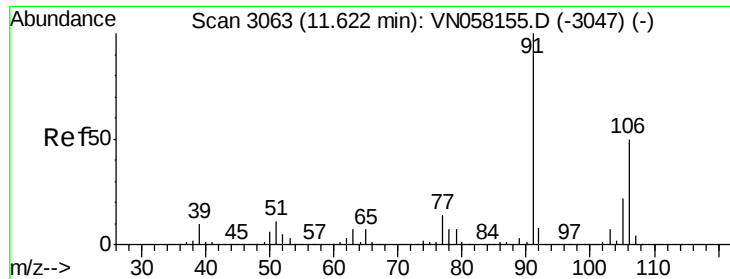
Tot Ion:112 Resp: 9014
Ion Ratio Lower Upper
112 100
114 36.9 25.1 37.7



#67
Ethyl Benzene
Concen: 0.821 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058213.D
Acq: 19 Sep 2019 18:54

Tgt Ion: 91 Resp: 18737
Ion Ratio Lower Upper
91 100
106 28.3 24.0 36.0

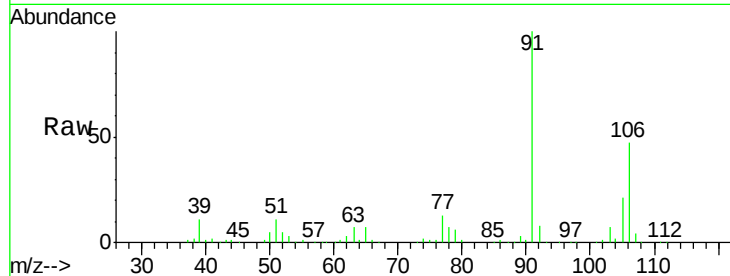




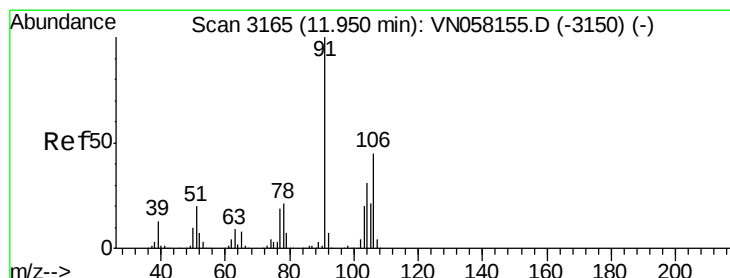
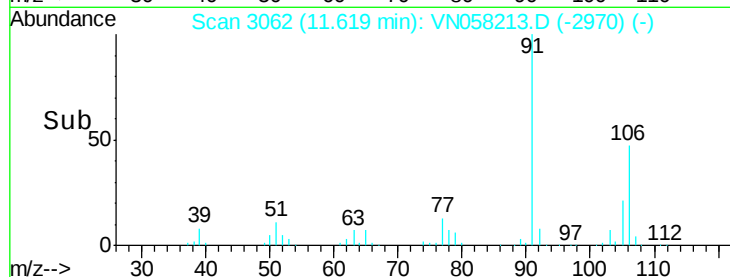
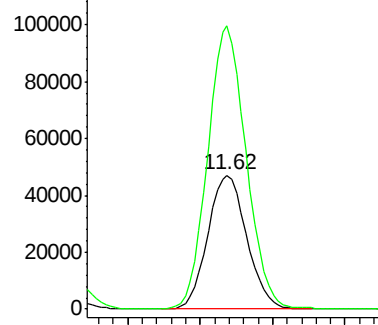
#68
m/p-Xylenes
Concen: 10.191 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN058213.D
Acq: 19 Sep 2019 18:54

Instrument :
MSVOA_N
ClientSampleId :
390918737.1-VOA

Tot Ion:106 Resp: 87585
Ion Ratio Lower Upper
106 100
91 208.7 163.6 245.4

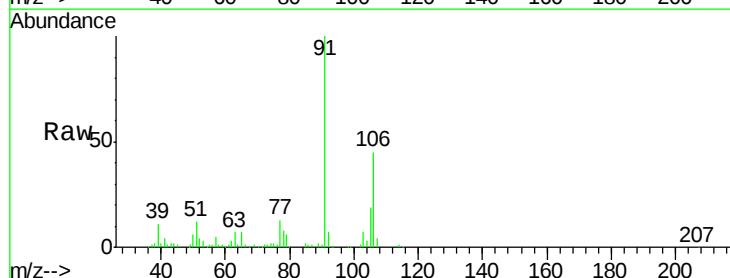


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VNO

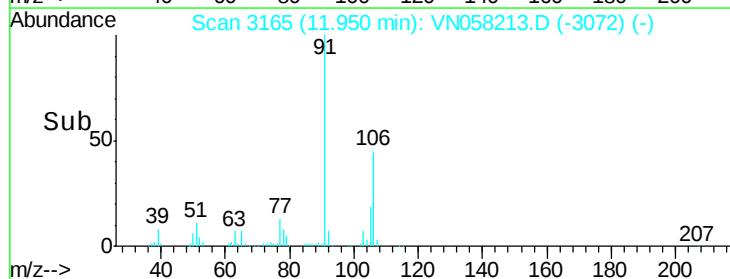
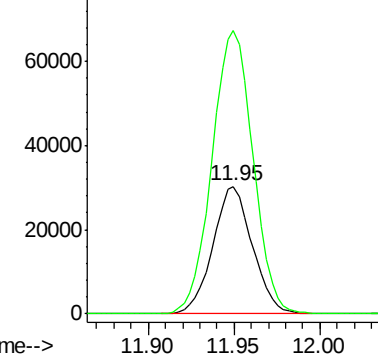


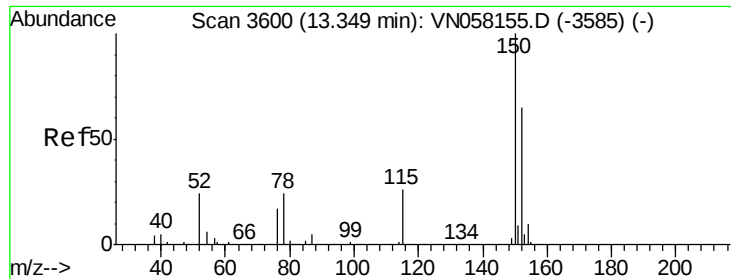
#69
o-Xylene
Concen: 5.720 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058213.D
Acq: 19 Sep 2019 18:54

Tgt Ion:106 Resp: 48339
Ion Ratio Lower Upper
106 100
91 230.2 111.8 335.3



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VNO





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

390918737.1-VOA

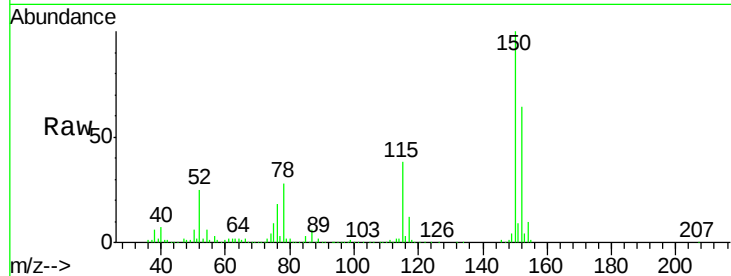
Tot Ion:152 Resp: 328807

Ion Ratio Lower Upper

152 100

115 59.8 30.1 90.3

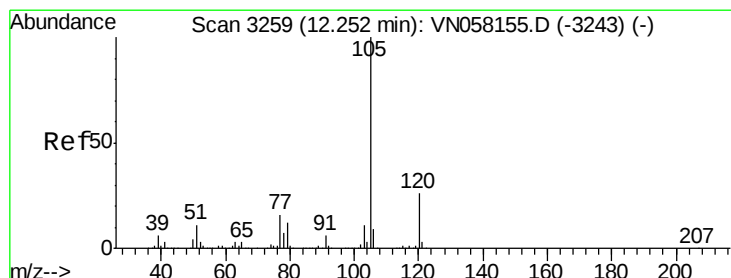
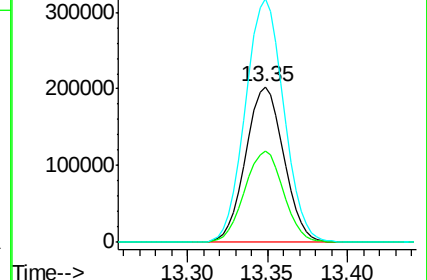
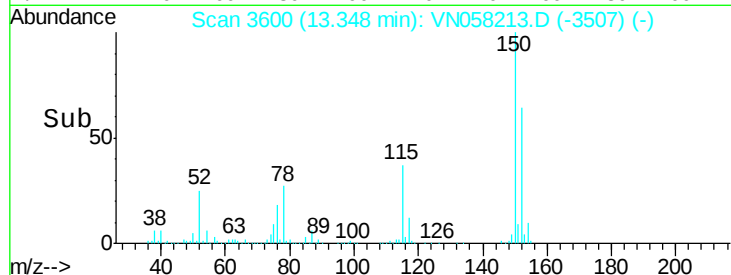
150 158.7 0.0 346.4



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: 1.274 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058213.D

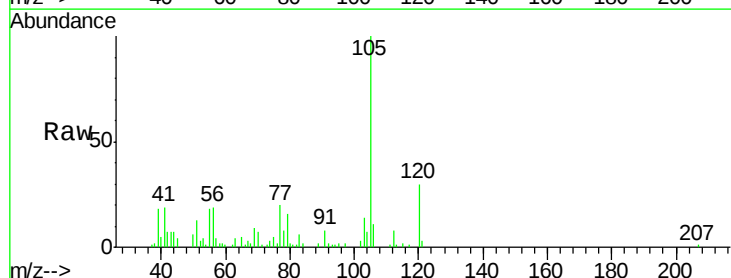
Acq: 19 Sep 2019 18:54

Tgt Ion:105 Resp: 26228

Ion Ratio Lower Upper

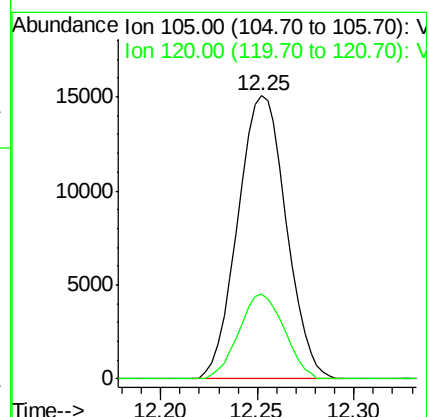
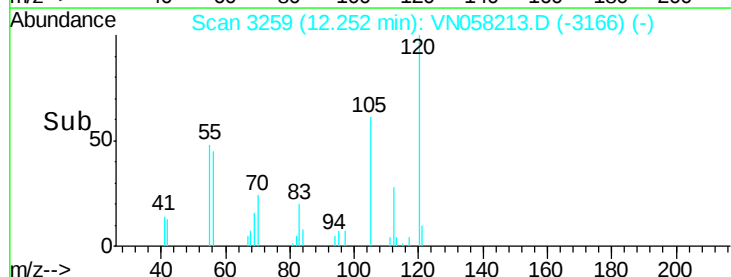
105 100

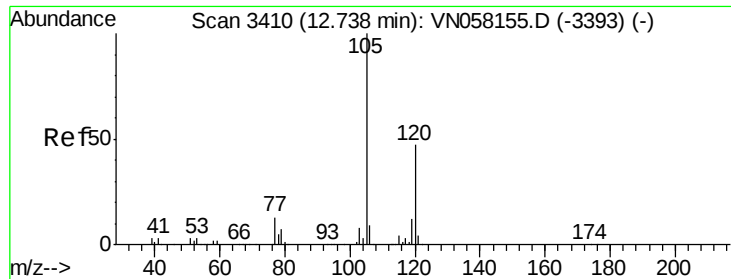
120 28.0 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.906 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

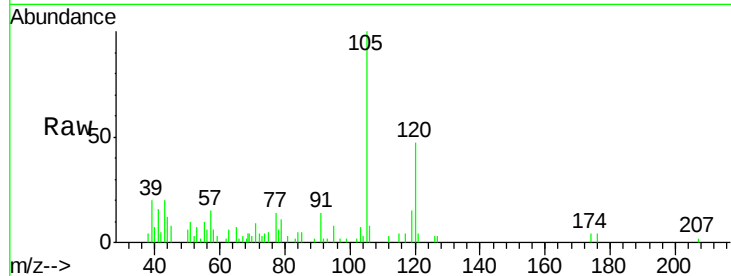
390918737.1-VOA

Tot Ion:105 Resp: 15768

Ion Ratio Lower Upper

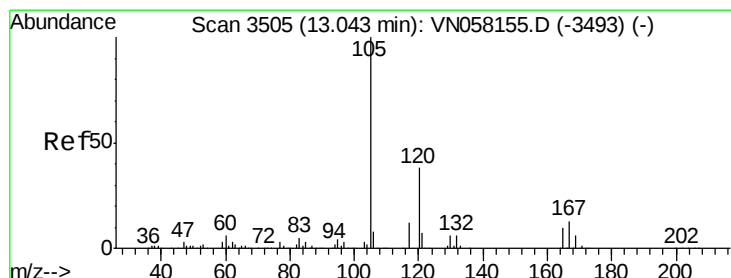
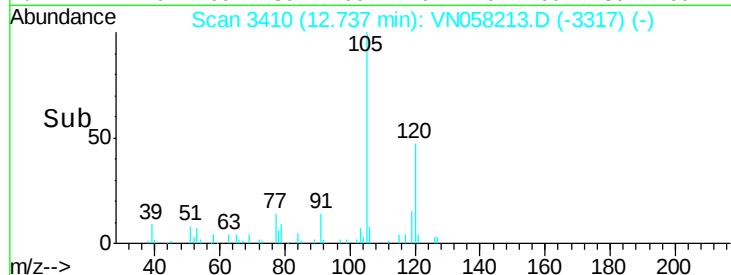
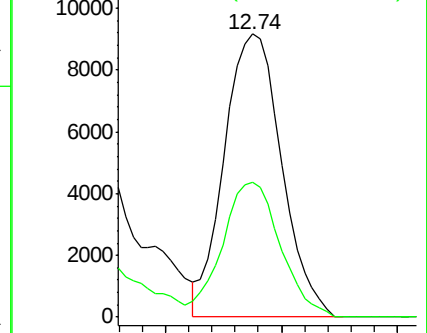
105 100

120 48.2 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 3.191 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. -0.00 min

Lab File: VN058213.D

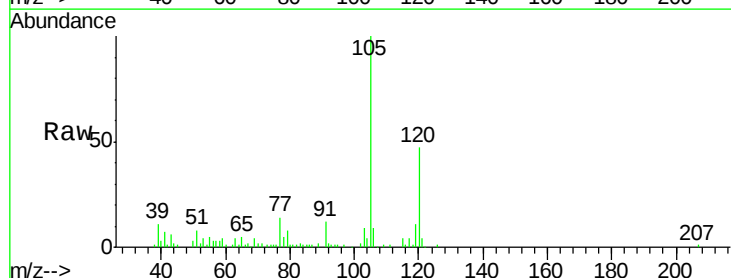
Acq: 19 Sep 2019 18:54

Tgt Ion:105 Resp: 55275

Ion Ratio Lower Upper

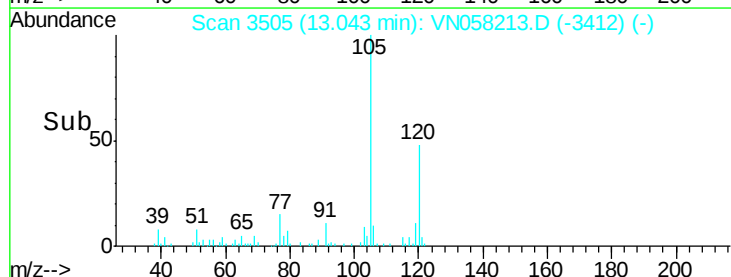
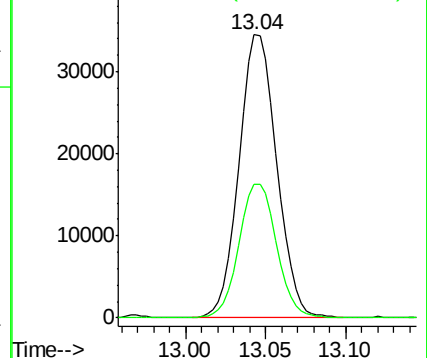
105 100

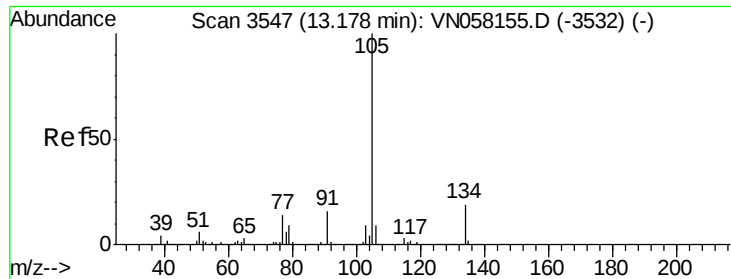
120 47.0 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

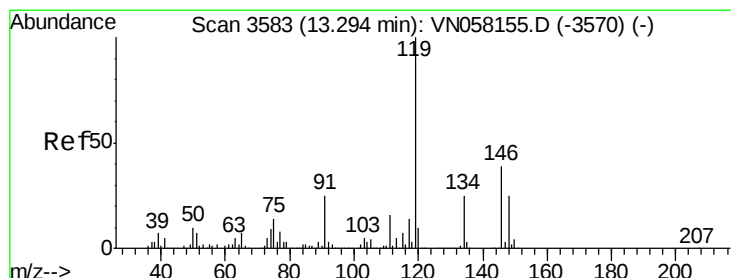
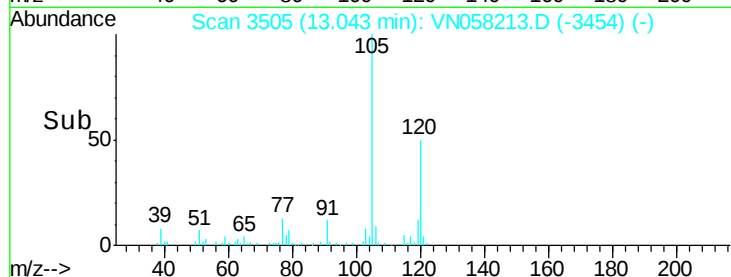
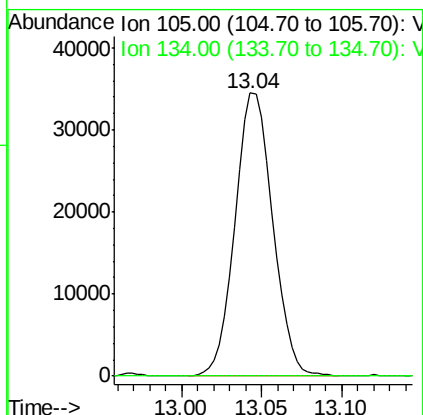
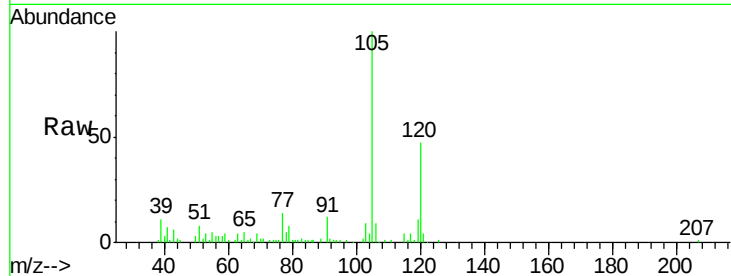




#85
 sec-Butylbenzene
 Concen: 2.724 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. -0.14 min
 Lab File: VN058213.D
 Acq: 19 Sep 2019 18:54

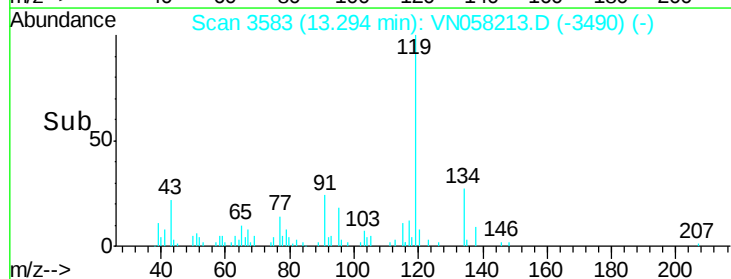
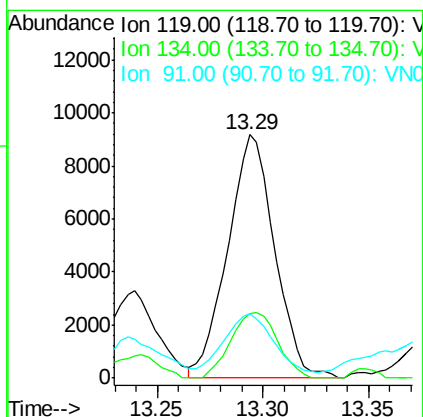
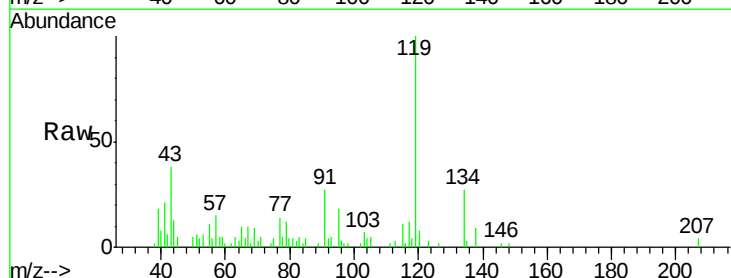
Instrument :
 MSVOA_N
 ClientSampleId :
 390918737.1-VOA

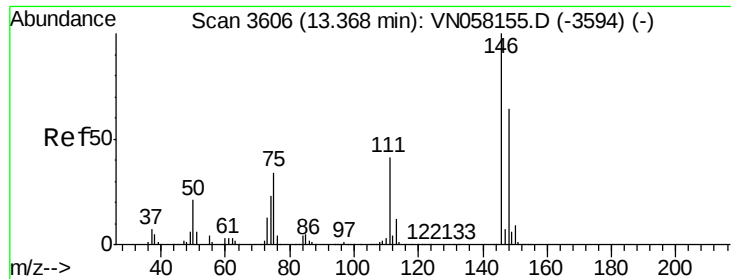
Tot Ion:105 Resp: 55275
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.5 28.5#



#86
 p-Isopropyltoluene
 Concen: 0.785 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. -0.00 min
 Lab File: VN058213.D
 Acq: 19 Sep 2019 18:54

Tgt Ion:119 Resp: 14163
 Ion Ratio Lower Upper
 119 100
 134 26.9 12.7 38.0
 91 25.4 12.3 36.8





#88

1,4-Dichlorobenzene

Concen: 3.624 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

390918737.1-VOA

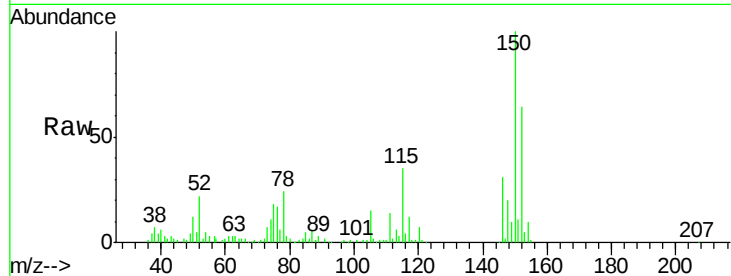
Tot Ion:146 Resp: 34984

Ion Ratio Lower Upper

146 100

111 56.4 20.5 61.5

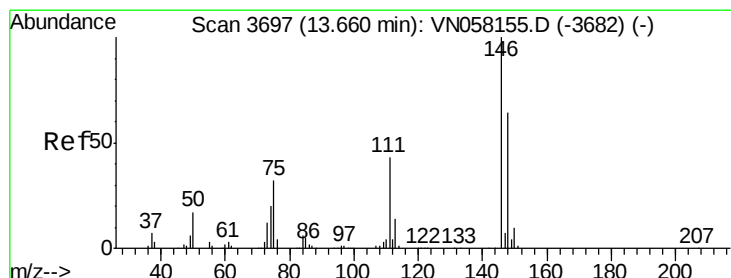
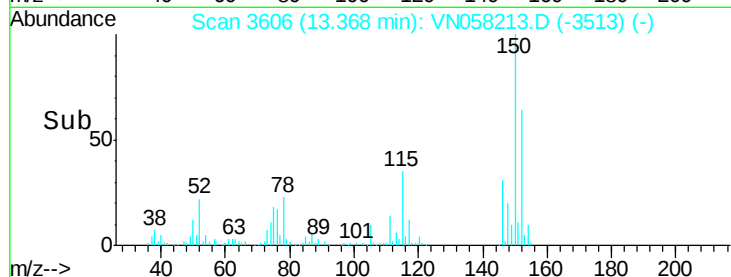
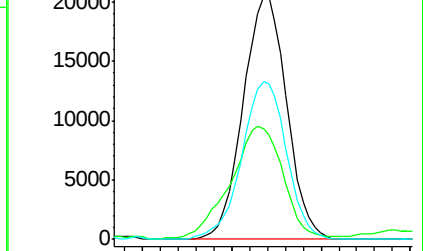
148 66.5 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.244 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

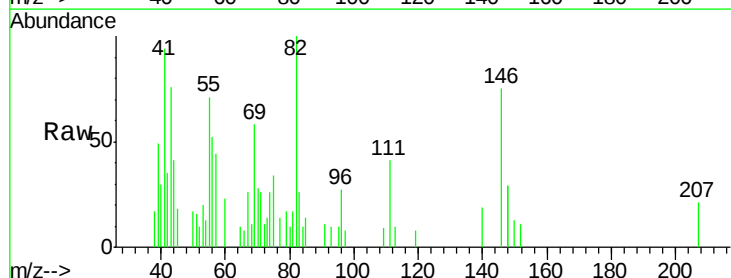
Tgt Ion:146 Resp: 2312

Ion Ratio Lower Upper

146 100

111 65.1 21.1 63.1#

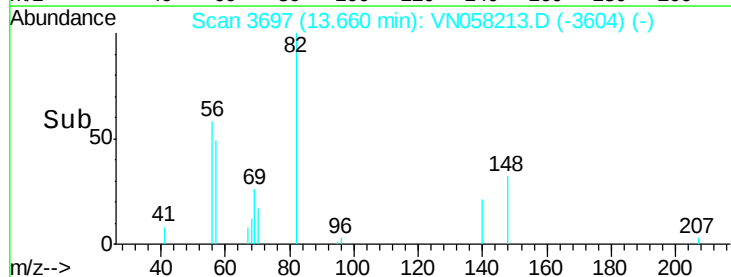
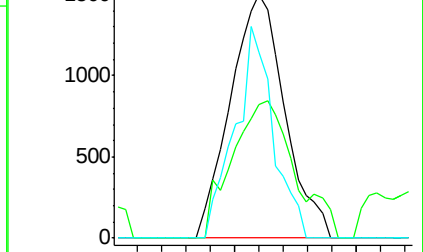
148 61.2 31.8 95.4

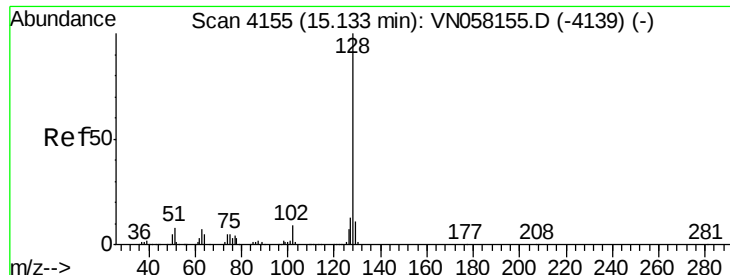


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#95

Naphthalene

Concen: 3.439 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058213.D

Acq: 19 Sep 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

390918737.1-VOA

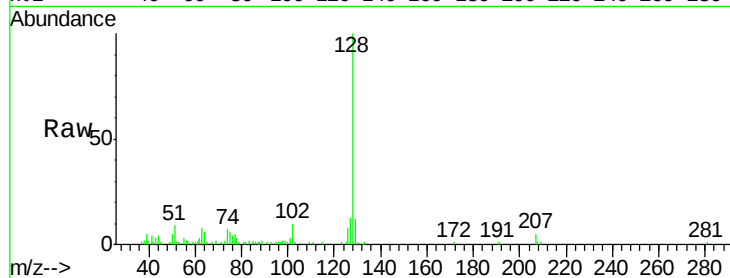
Tot Ion:128 Resp: 54015

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.2

129 11.2 8.6 12.8



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

