

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055920.D
 Acq On : 31 May 2019 15:33
 Operator : JC/SP
 Sample : K3134-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

Quant Time: May 31 18:07:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	352211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	536745	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	483415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	152710	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	181185	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
35) Dibromofluoromethane	7.59	113	156225	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
50) Toluene-d8	10.09	98	636039	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	12.40	95	199117	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	

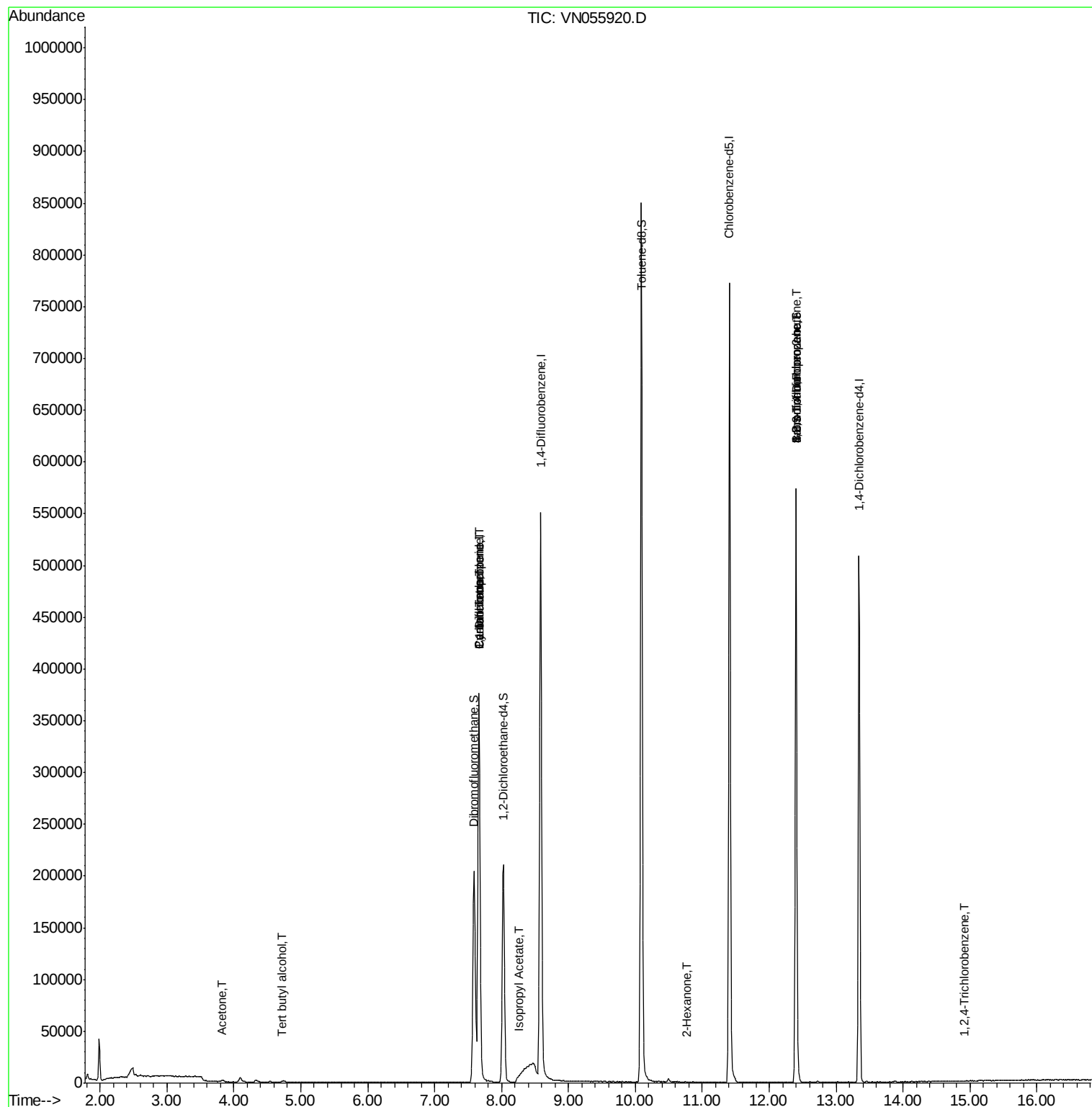
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	572	0.823	ug/l #	74
16) Acetone	3.82	43	3546	2.218	ug/l	100
31) Cyclohexane	7.66	56	5270	0.965	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21032	4.496	ug/l #	48
38) Carbon Tetrachloride	7.66	117	29368	6.028	ug/l #	15
43) Isopropyl Acetate	8.25	43	4593	0.605	ug/l #	53
59) 2-Hexanone	10.76	43	659	0.207	ug/l #	23
71) Bromoform	12.40	173	1325	0.402	ug/l #	1
73) Isopropylbenzene	12.40	105	131	Below Cal	#	48
74) N-amyl acetate	12.03	43	161	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	93403	34.548	ug/l #	100
79) 2-Chlorotoluene	12.60	91	109	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	93403	82.295	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.17	105	70	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	70	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	61	3.656	ug/l #	12

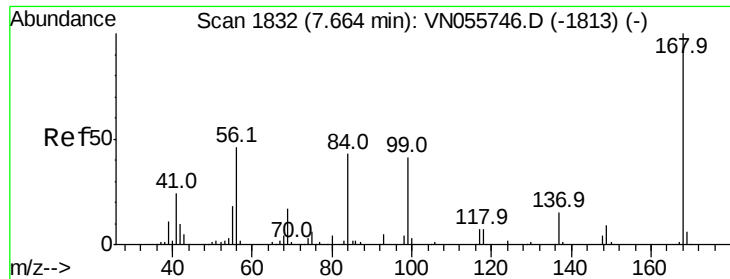
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN053119\
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Quant Time: May 31 18:07:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

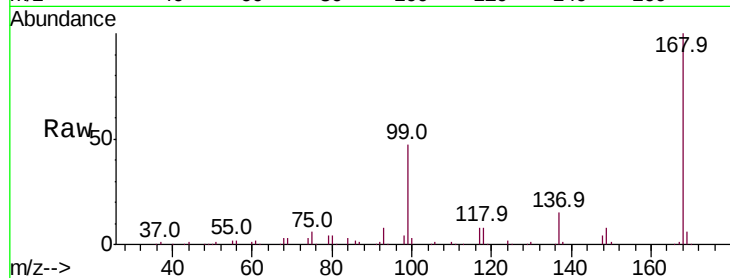
STORAGE-BLANK-WATER-REF-4

Tot Ion:168 Resp: 352211

Ion Ratio Lower Upper

168 100

99 46.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055746.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055746.D (-1813) (-)

7.66

150000

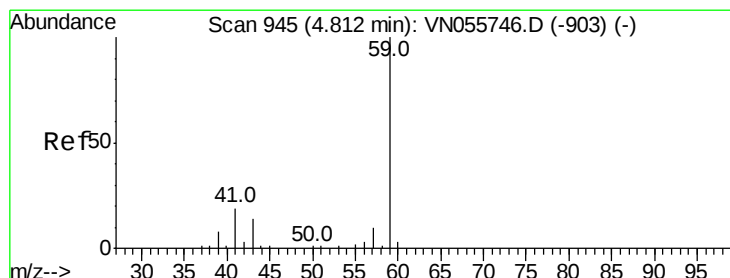
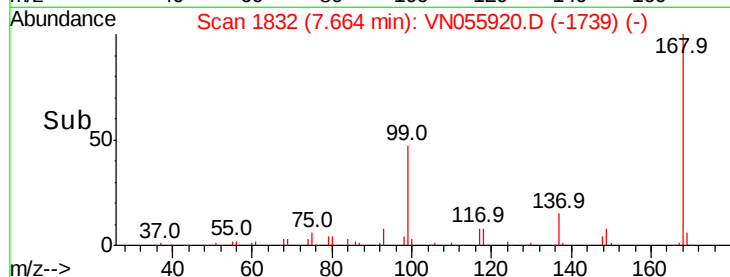
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.823 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.08 min

Lab File: VN055920.D

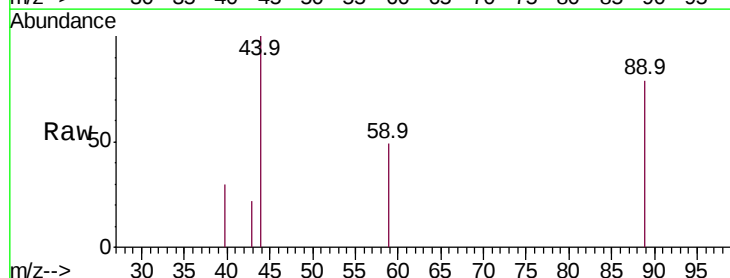
Acq: 31 May 2019 15:33

Tgt Ion: 59 Resp: 572

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055746.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN055746.D (-903) (-)

4.73

400

300

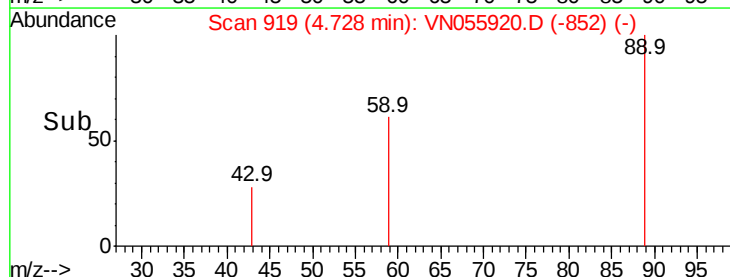
200

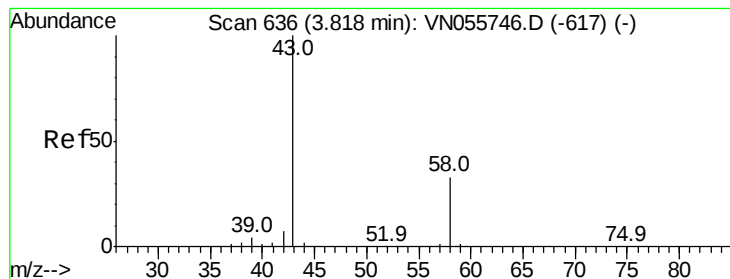
100

0

4.70 4.72 4.74

Time-->





#16

Acetone

Concen: 2.218 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

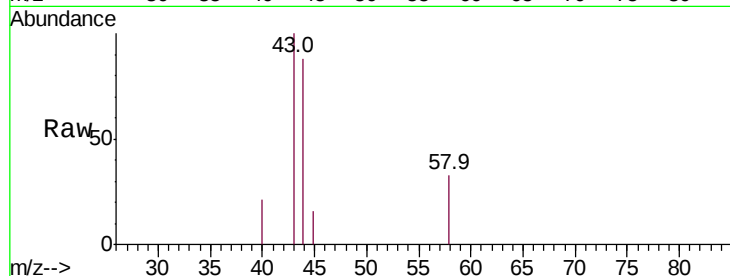
STORAGE-BLANK-WATER-REF-4

Tot Ion: 43 Resp: 3546

Ion Ratio Lower Upper

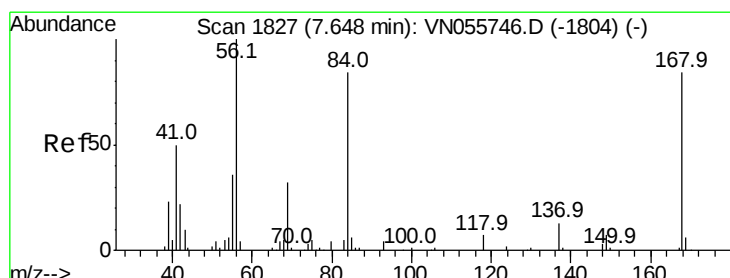
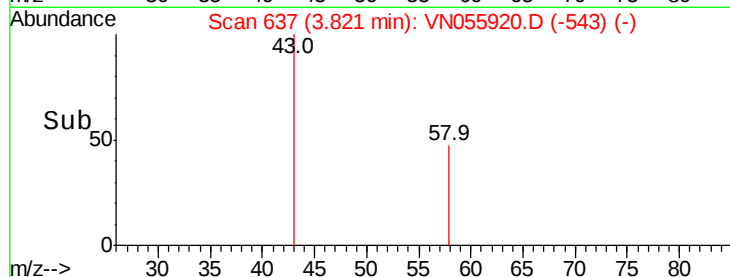
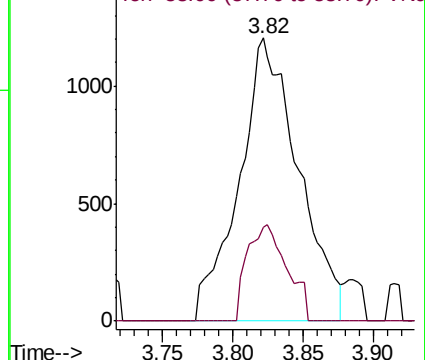
43 100

58 33.1 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#31

Cyclohexane

Concen: 0.965 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

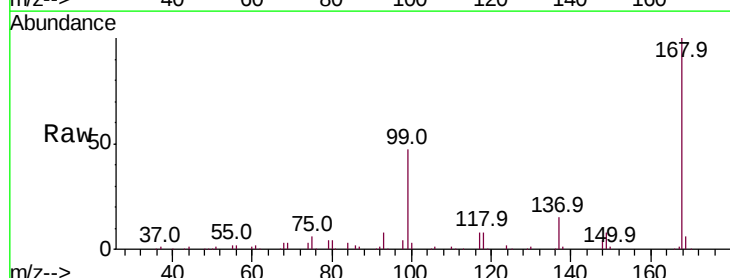
Tgt Ion: 56 Resp: 5270

Ion Ratio Lower Upper

56 100

69 170.1 25.6 38.4#

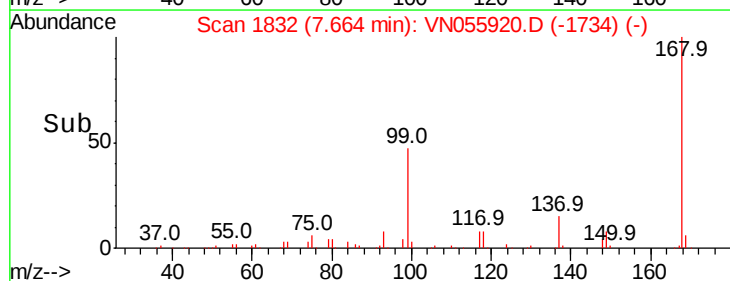
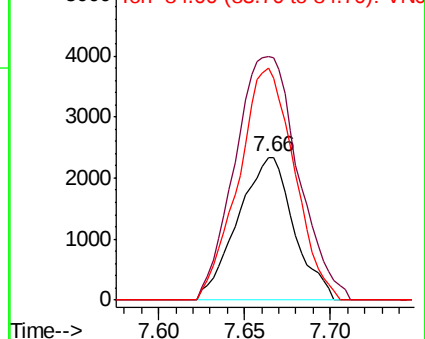
84 161.7 67.4 101.0#

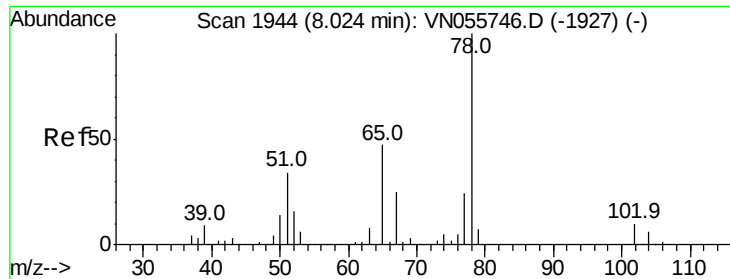


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

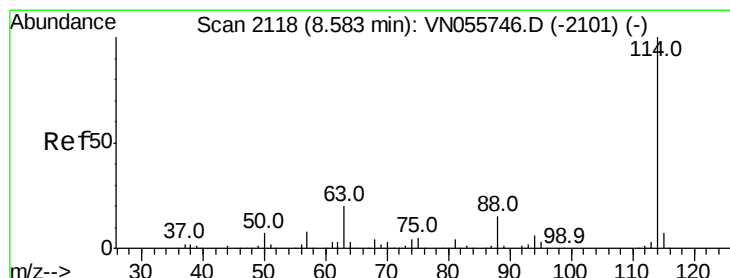
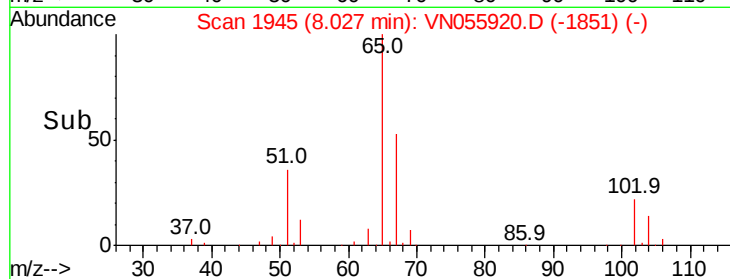
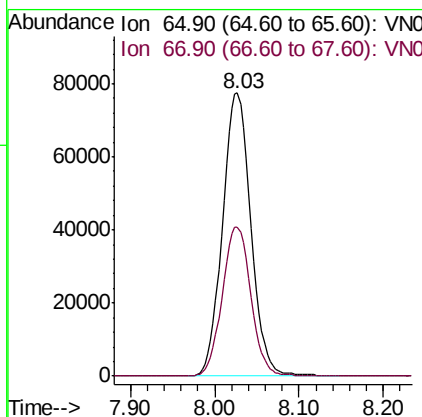
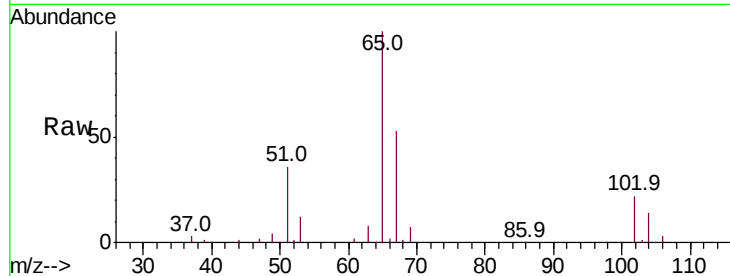




#33
 1,2-Dichloroethane-d4
 Concen: 49.812 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055920.D
 Acq: 31 May 2019 15:33

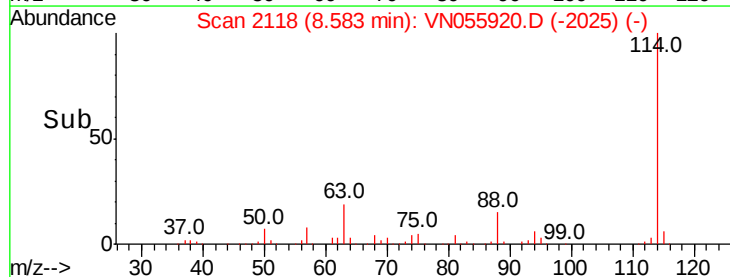
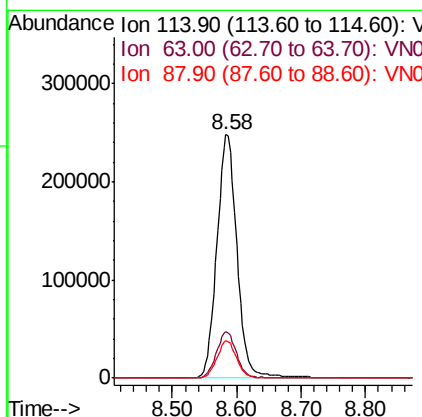
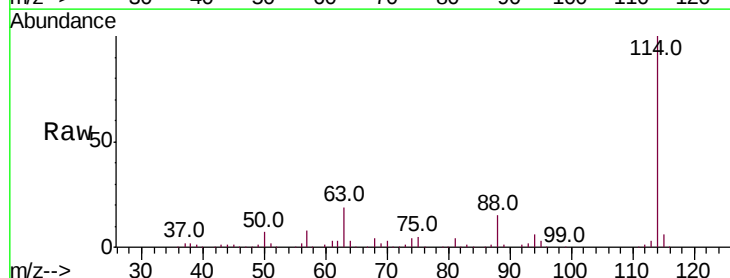
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

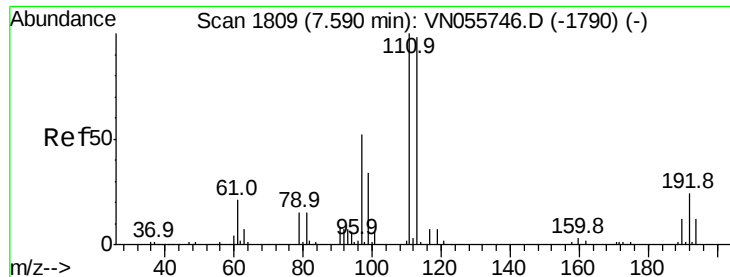
Tot Ion: 65 Resp: 181185
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055920.D
 Acq: 31 May 2019 15:33

Tgt Ion:114 Resp: 536745
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.2
 88 15.3 0.0 31.0

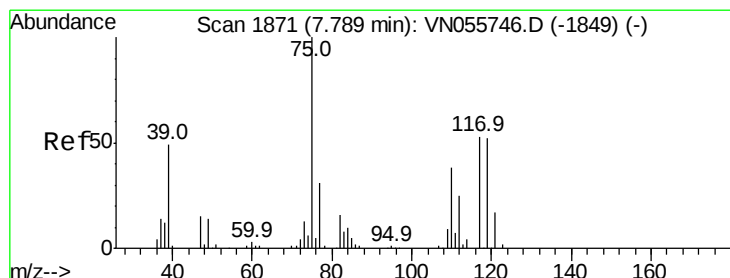
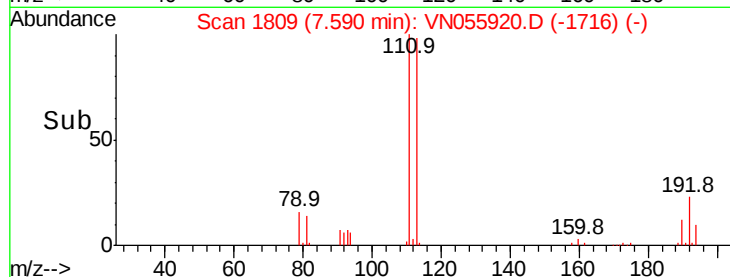
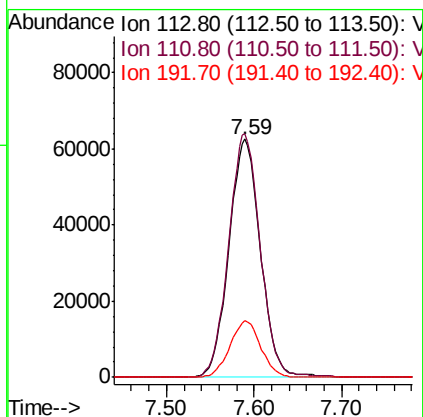
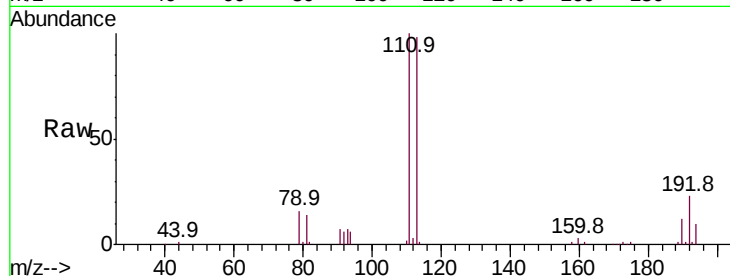




#35
 Dibromofluoromethane
 Concen: 46.037 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055920.D
 Acq: 31 May 2019 15:33

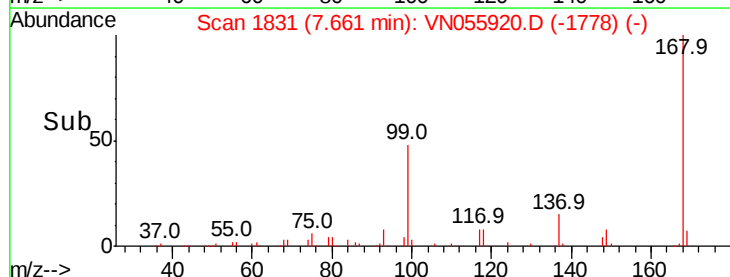
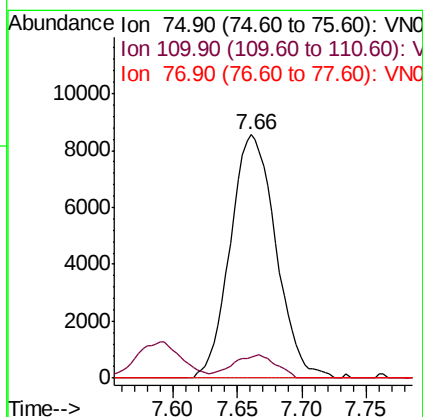
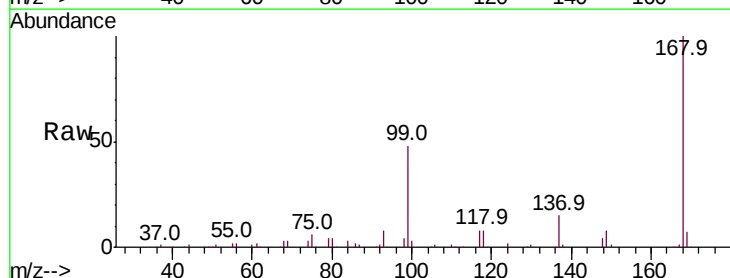
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

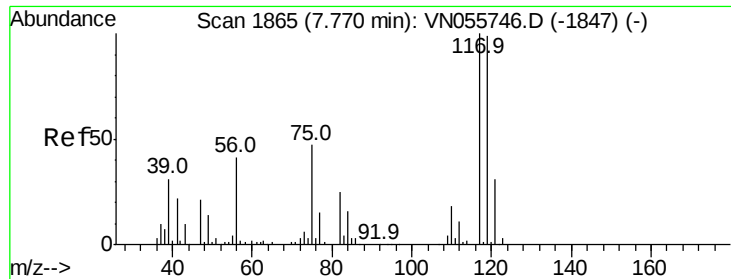
Tot Ion:113 Resp: 156225
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.9 122.9
 192 23.2 19.5 29.3



#36
 1,1-Dichloropropene
 Concen: 4.496 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN055920.D
 Acq: 31 May 2019 15:33

Tgt Ion: 75 Resp: 21032
 Ion Ratio Lower Upper
 75 100
 110 9.2 19.0 57.0#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.028 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

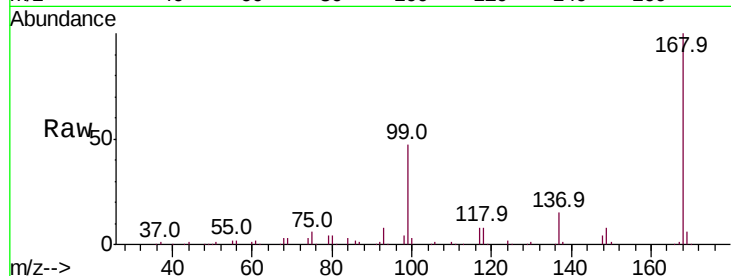
Tot Ion:117 Resp: 29368

Ion Ratio Lower Upper

117 100

119 4.8 79.0 118.6#

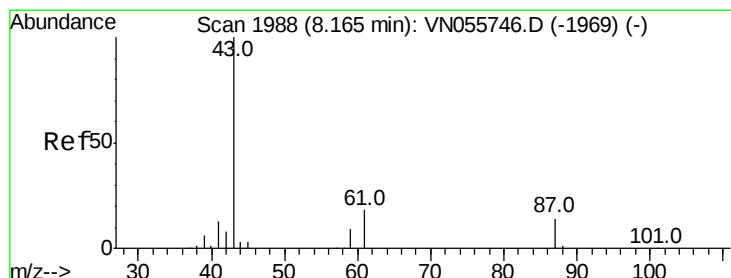
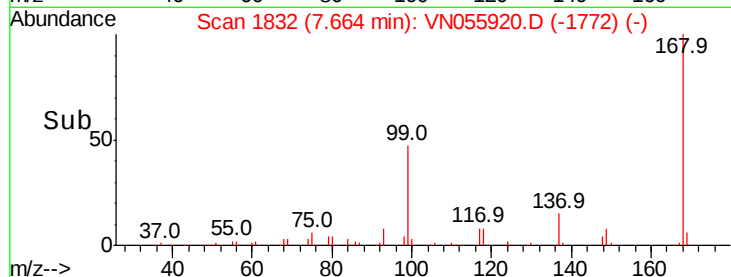
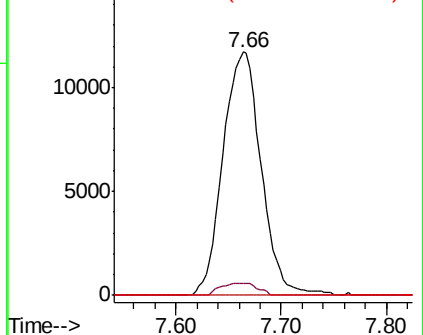
121 0.0 24.7 37.1#



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: 0.605 ug/l

RT: 8.25 min Scan# 2015

Delta R.T. 0.09 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

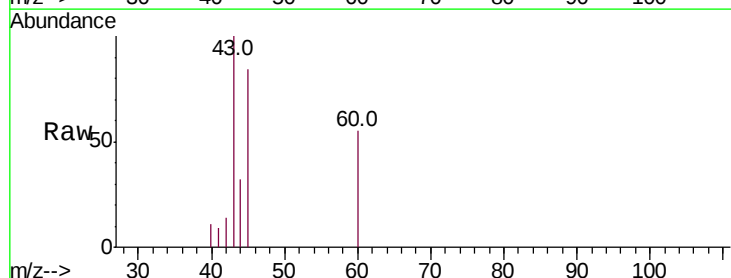
Tgt Ion: 43 Resp: 4593

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

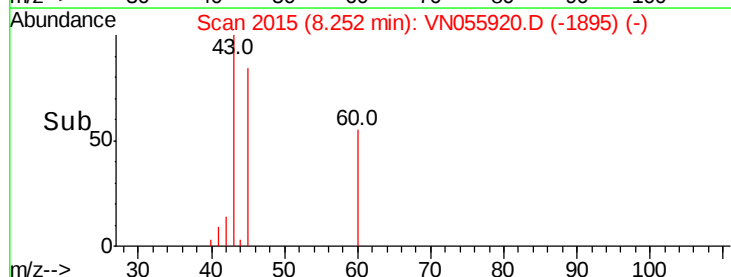
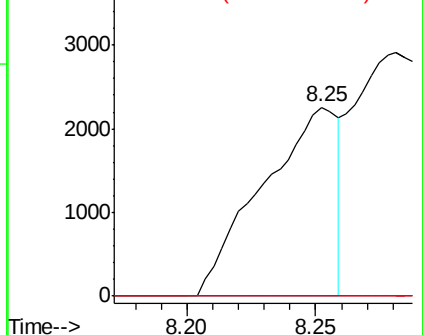
87 0.0 11.4 17.2#

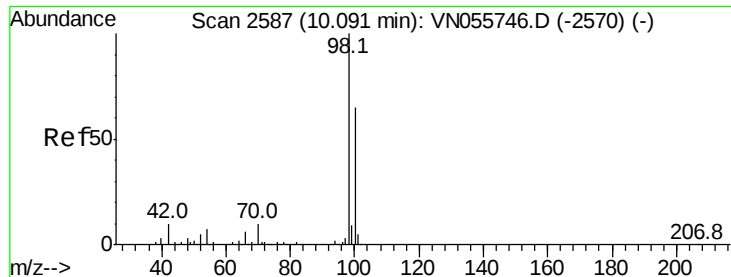


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 48.862 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

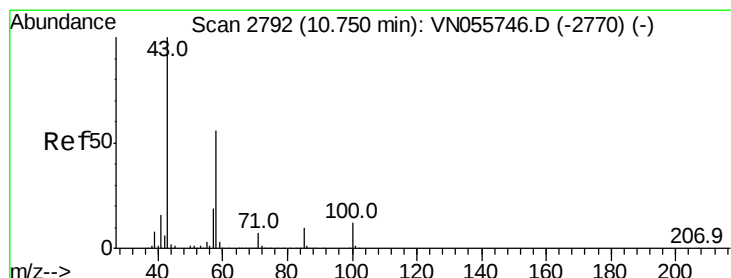
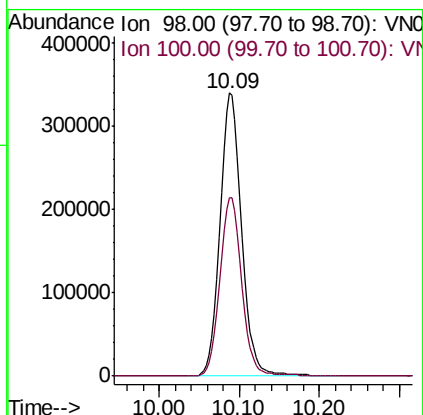
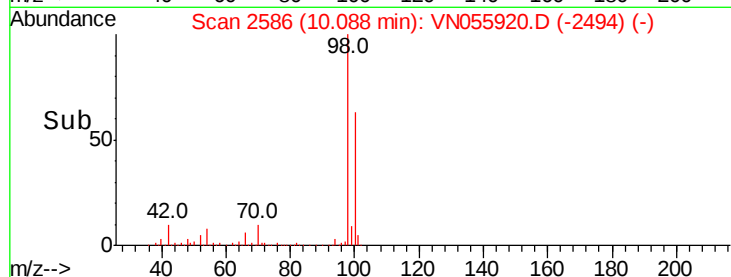
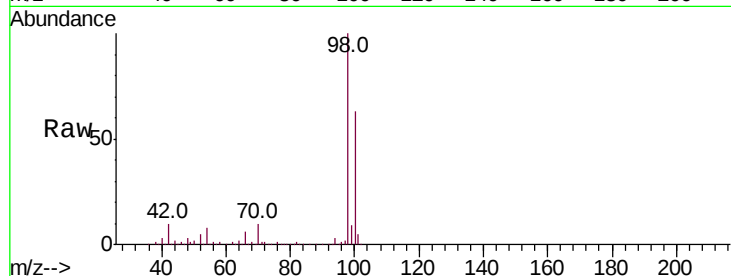
STORAGE-BLANK-WATER-REF-4

Tot Ion: 98 Resp: 636039

Ion Ratio Lower Upper

98 100

100 63.7 51.9 77.9



#59

2-Hexanone

Concen: 0.207 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN055920.D

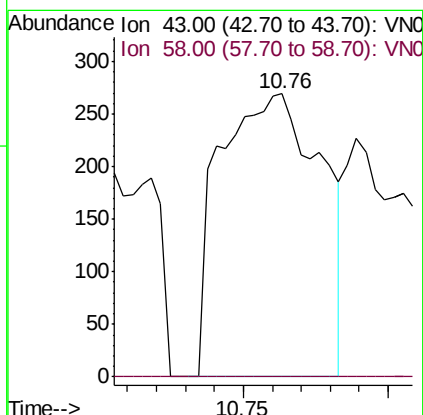
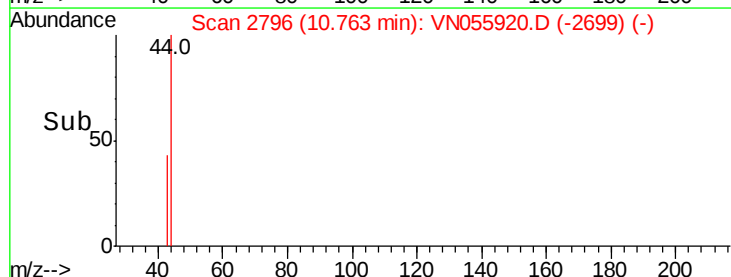
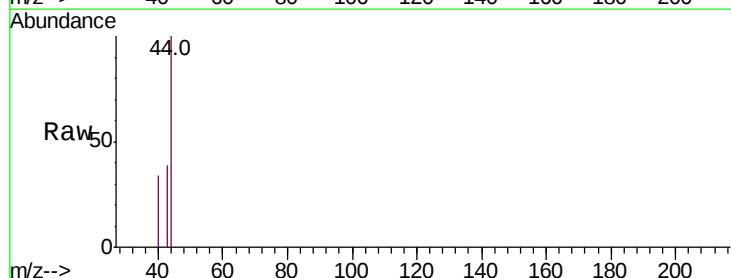
Acq: 31 May 2019 15:33

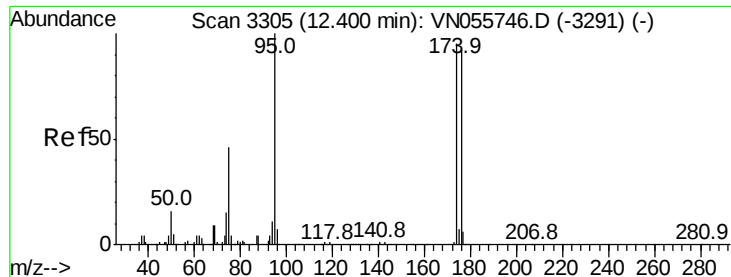
Tgt Ion: 43 Resp: 659

Ion Ratio Lower Upper

43 100

58 0.0 28.2 84.7#





#62

4-Bromofluorobenzene

Concen: 44.611 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

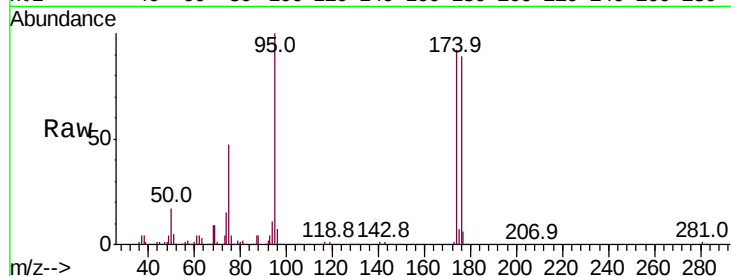
Tot Ion: 95 Resp: 199117

Ion Ratio Lower Upper

95 100

174 92.8 0.0 191.0

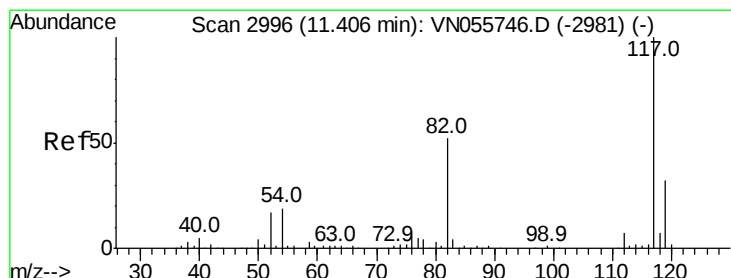
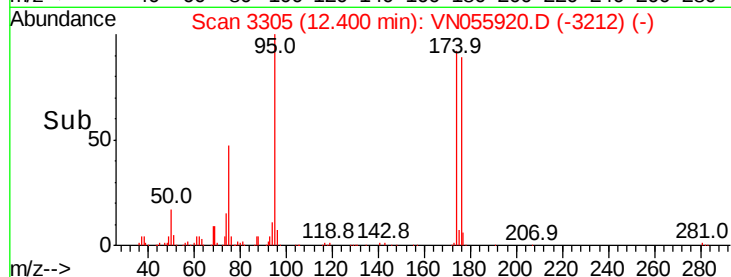
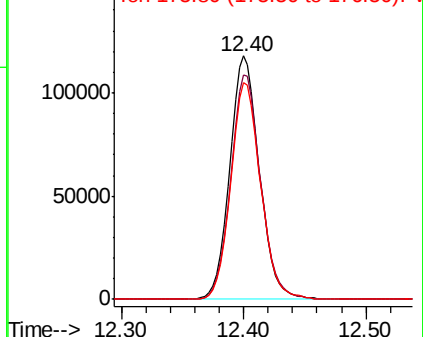
176 89.6 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055746.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055746.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055746.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

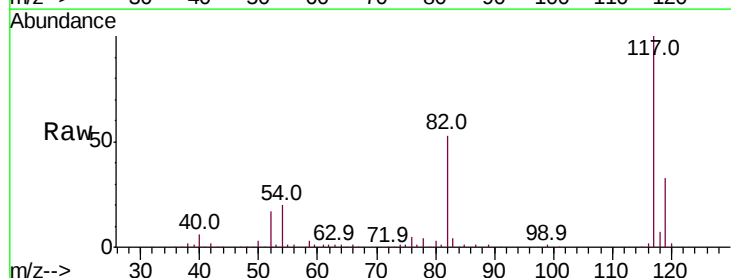
Tgt Ion: 117 Resp: 483415

Ion Ratio Lower Upper

117 100

82 53.0 41.8 62.8

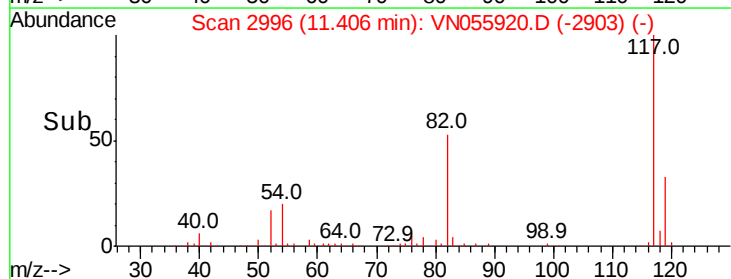
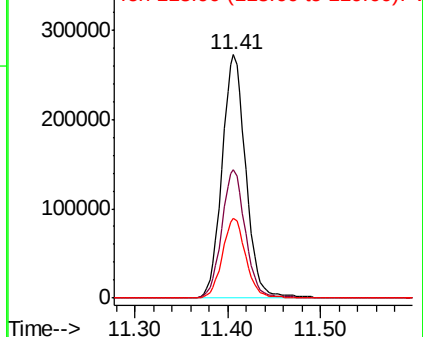
119 32.6 25.4 38.0

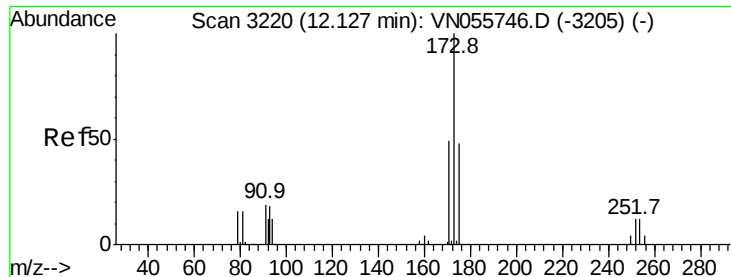


Abundance Ion 116.90 (116.60 to 117.60): VN055746.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055746.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055746.D (-2981) (-)





#71

Bromoform

Concen: 0.402 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

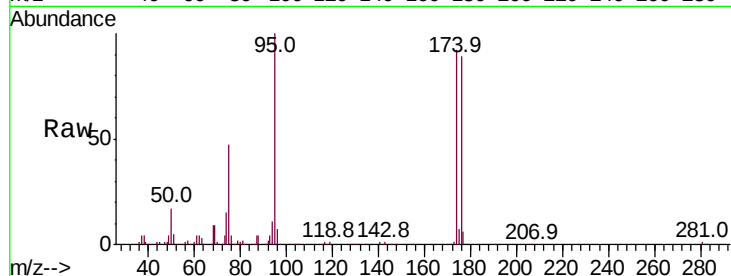
Tot Ion:173 Resp: 1325

Ion Ratio Lower Upper

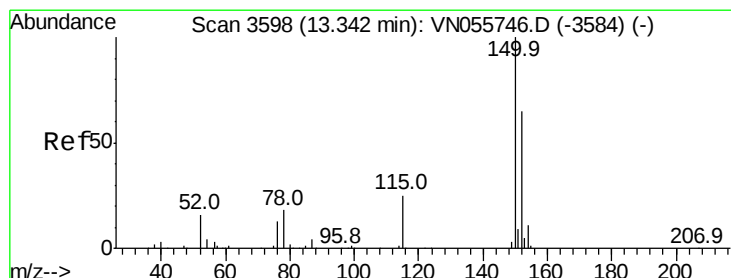
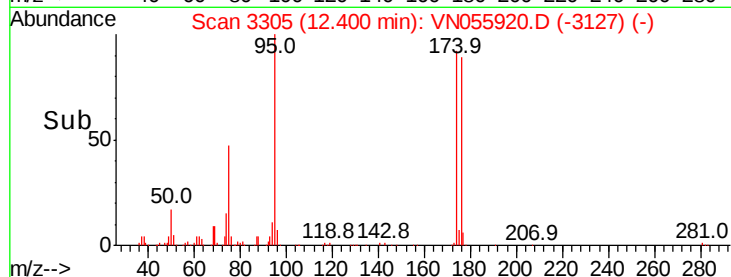
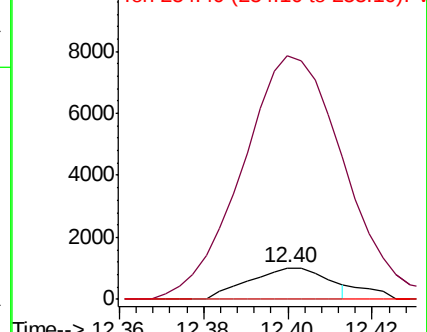
173 100

175 872.8 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: VN055920.D

Acq: 31 May 2019 15:33

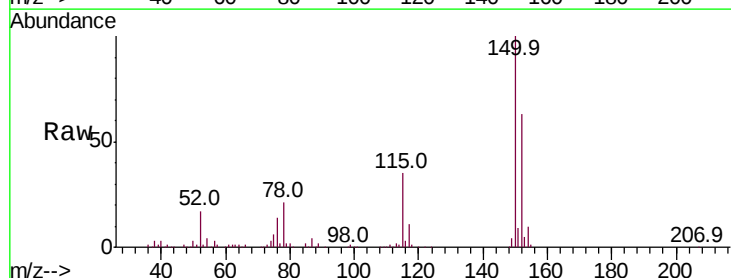
Tgt Ion:152 Resp: 152710

Ion Ratio Lower Upper

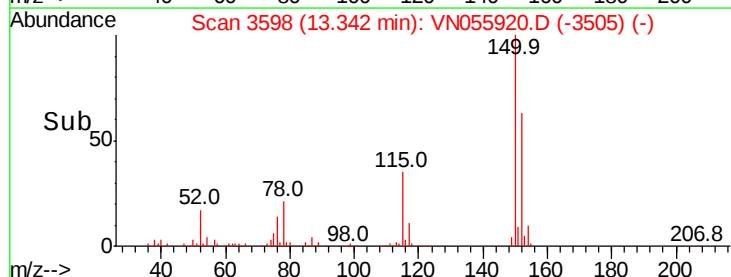
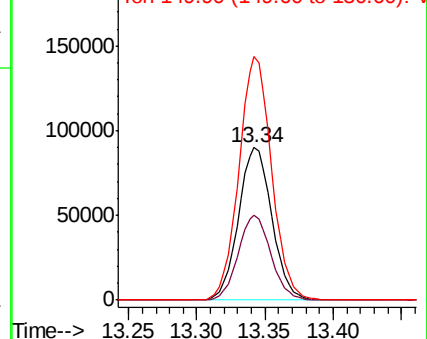
152 100

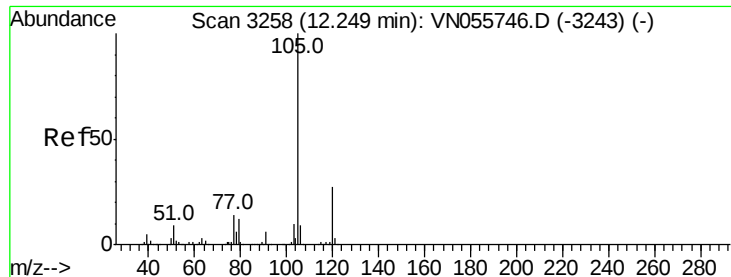
115 54.4 27.0 81.0

150 156.5 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: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

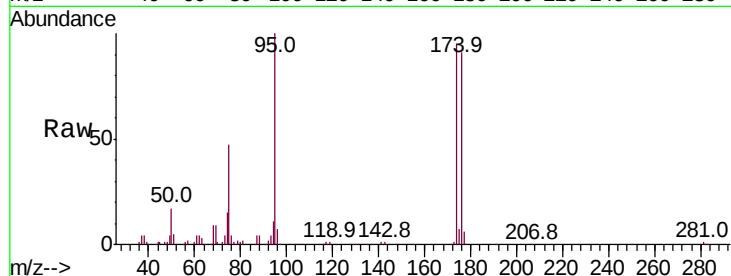
STORAGE-BLANK-WATER-REF-4

Tot Ion: 105 Resp: 131

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.40

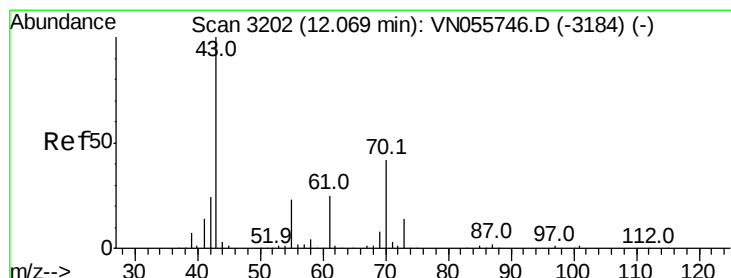
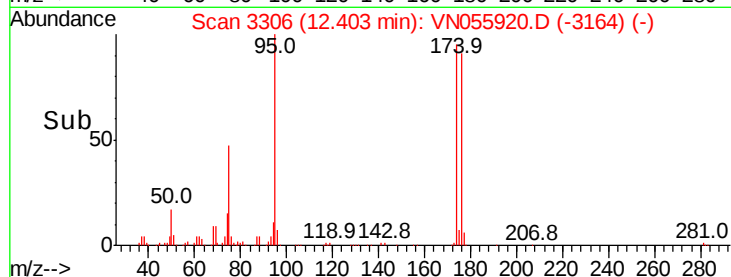
150

100

50

0

Time--> 12.38 12.40 12.42



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Tgt Ion: 43 Resp: 161

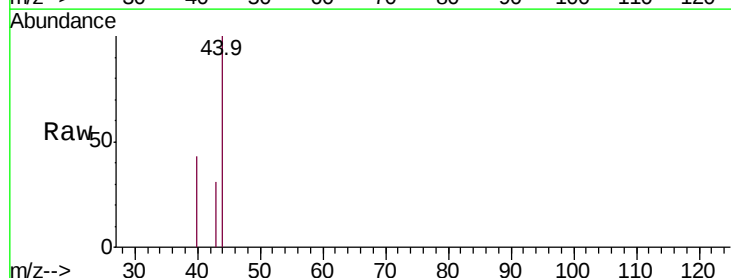
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

250

200

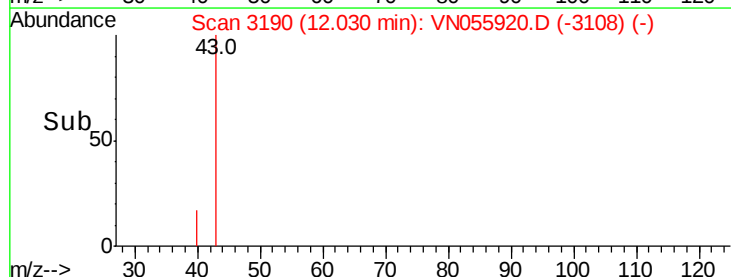
150

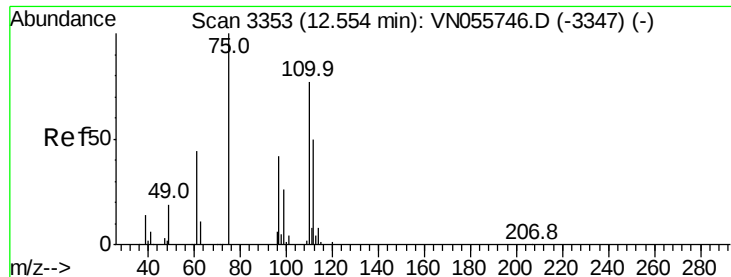
100

50

0

Time--> 12.02 12.04





#76

1,2,3-Trichloropropane

Concen: 34.548 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

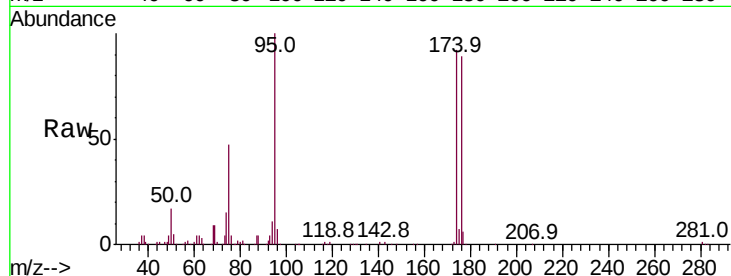
STORAGE-BLANK-WATER-REF-4

Tot Ion: 75 Resp: 93403

Ion Ratio Lower Upper

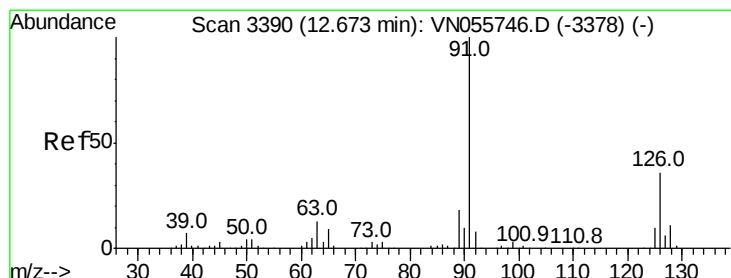
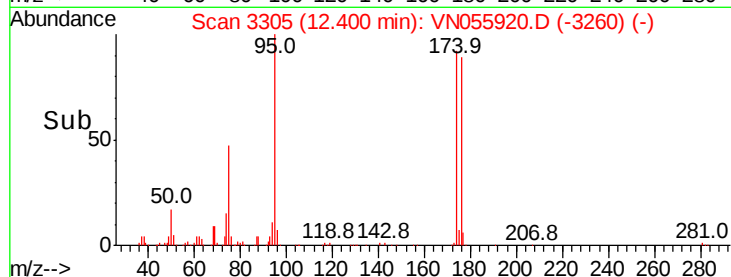
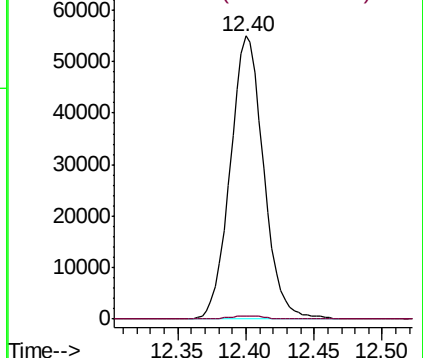
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.60 min Scan# 3367

Delta R.T. -0.07 min

Lab File: VN055920.D

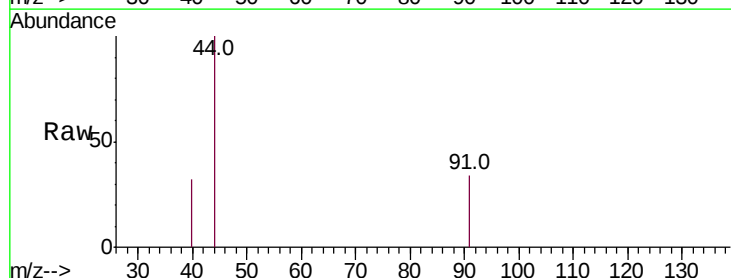
Acq: 31 May 2019 15:33

Tgt Ion: 91 Resp: 109

Ion Ratio Lower Upper

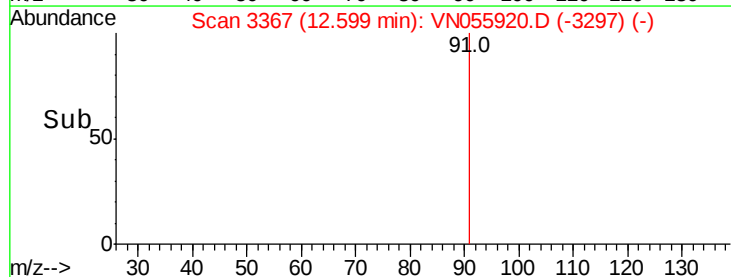
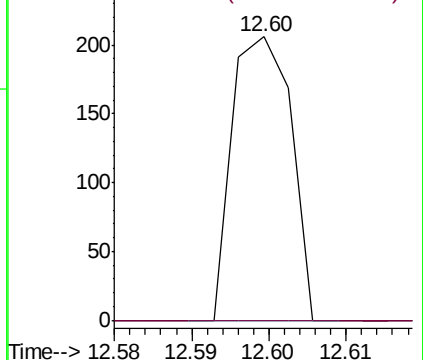
91 100

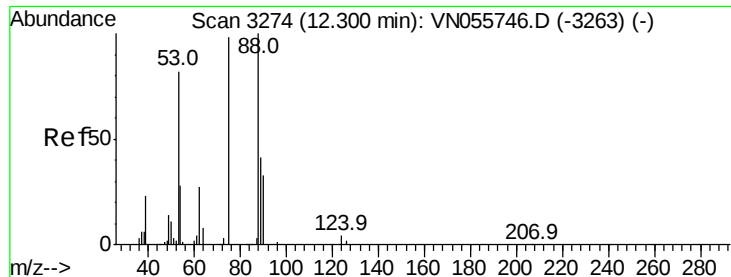
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 82.295 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

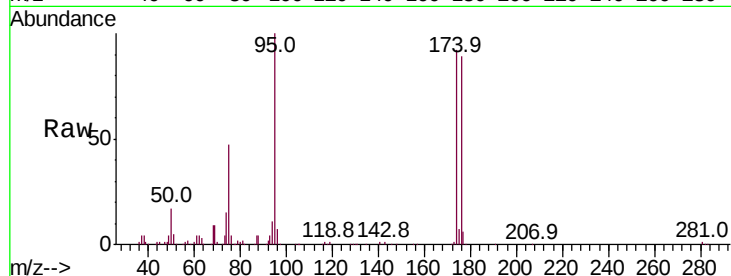
Tot Ion: 75 Resp: 93403

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

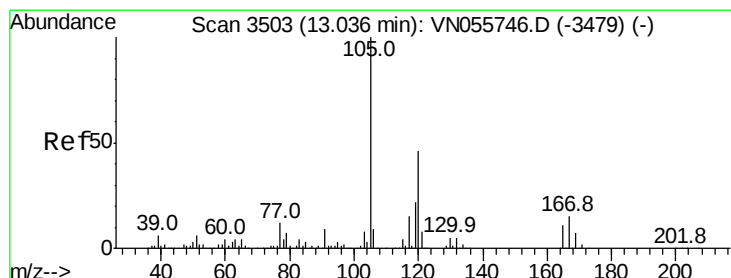
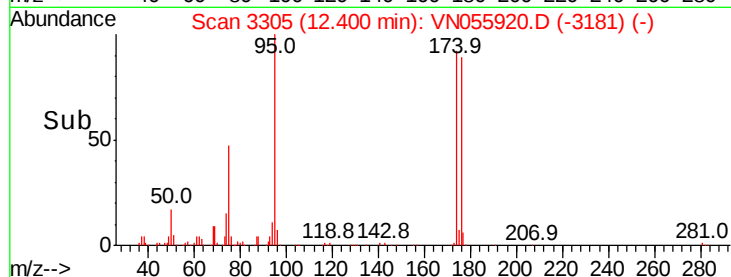
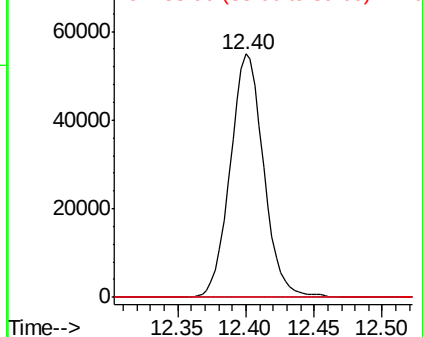
89 0.0 36.9 55.3#



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



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3545

Delta R.T. 0.14 min

Lab File: VN055920.D

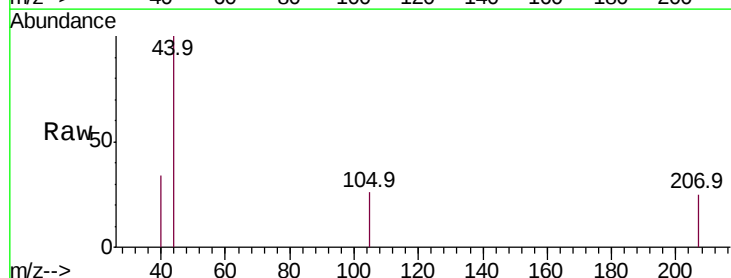
Acq: 31 May 2019 15:33

Tgt Ion: 105 Resp: 70

Ion Ratio Lower Upper

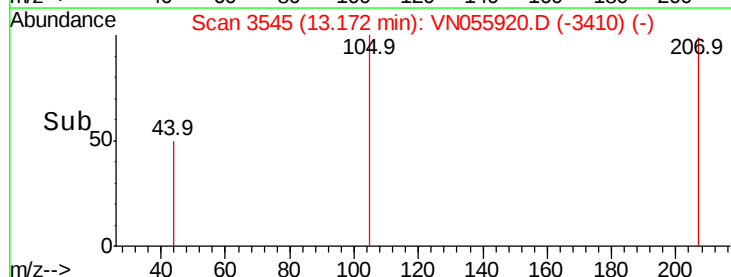
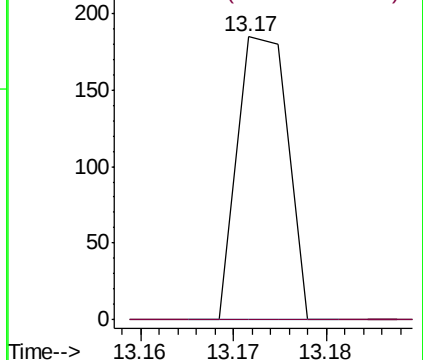
105 100

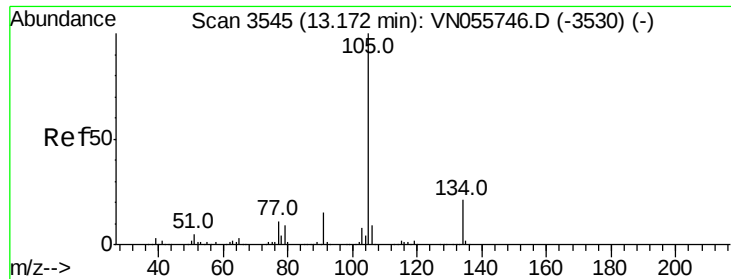
120 0.0 23.0 69.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

Instrument :

MSVOA_N

ClientSampleId :

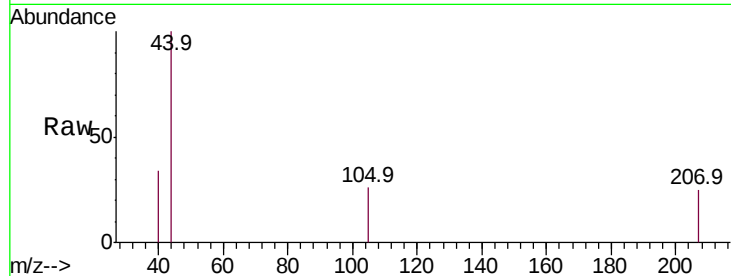
STORAGE-BLANK-WATER-REF-4

Tot Ion:105 Resp: 70

Ion Ratio Lower Upper

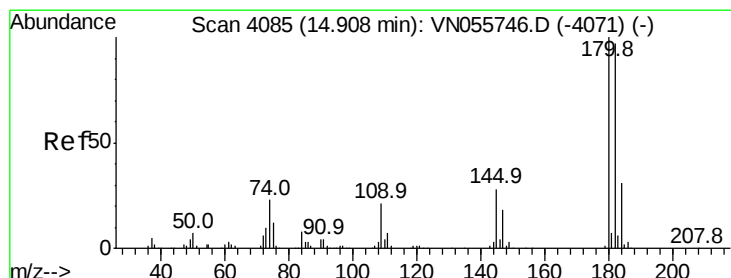
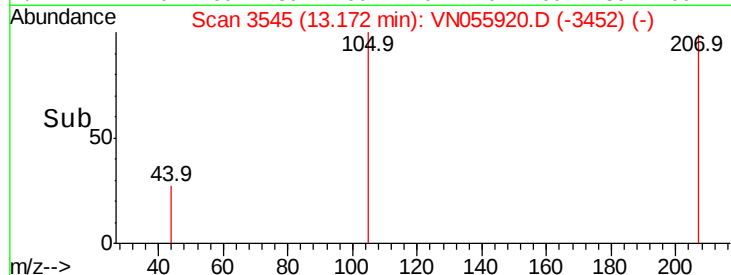
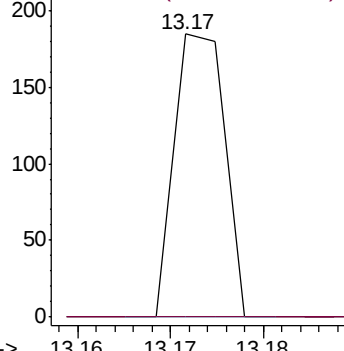
105 100

134 0.0 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#93

1,2,4-Trichlorobenzene

Concen: 3.656 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN055920.D

Acq: 31 May 2019 15:33

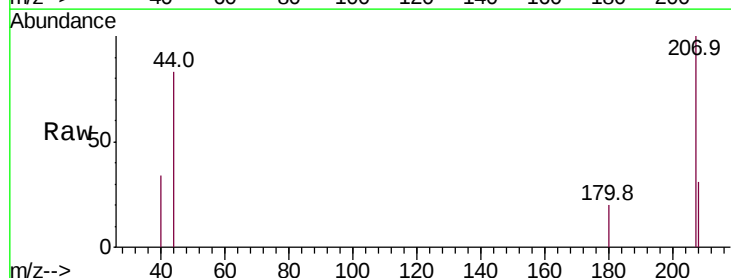
Tgt Ion:180 Resp: 61

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

145 0.0 14.0 41.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

