

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056033.D
 Acq On : 6 Jun 2019 9:54
 Operator : JC/SP
 Sample : K3193-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIPBLANK

Quant Time: Jun 06 17:52:43 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	347386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	520568	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	475567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142045	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	170613	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
35) Dibromofluoromethane	7.59	113	148666	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
50) Toluene-d8	10.09	98	622983	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	12.40	95	189295	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	

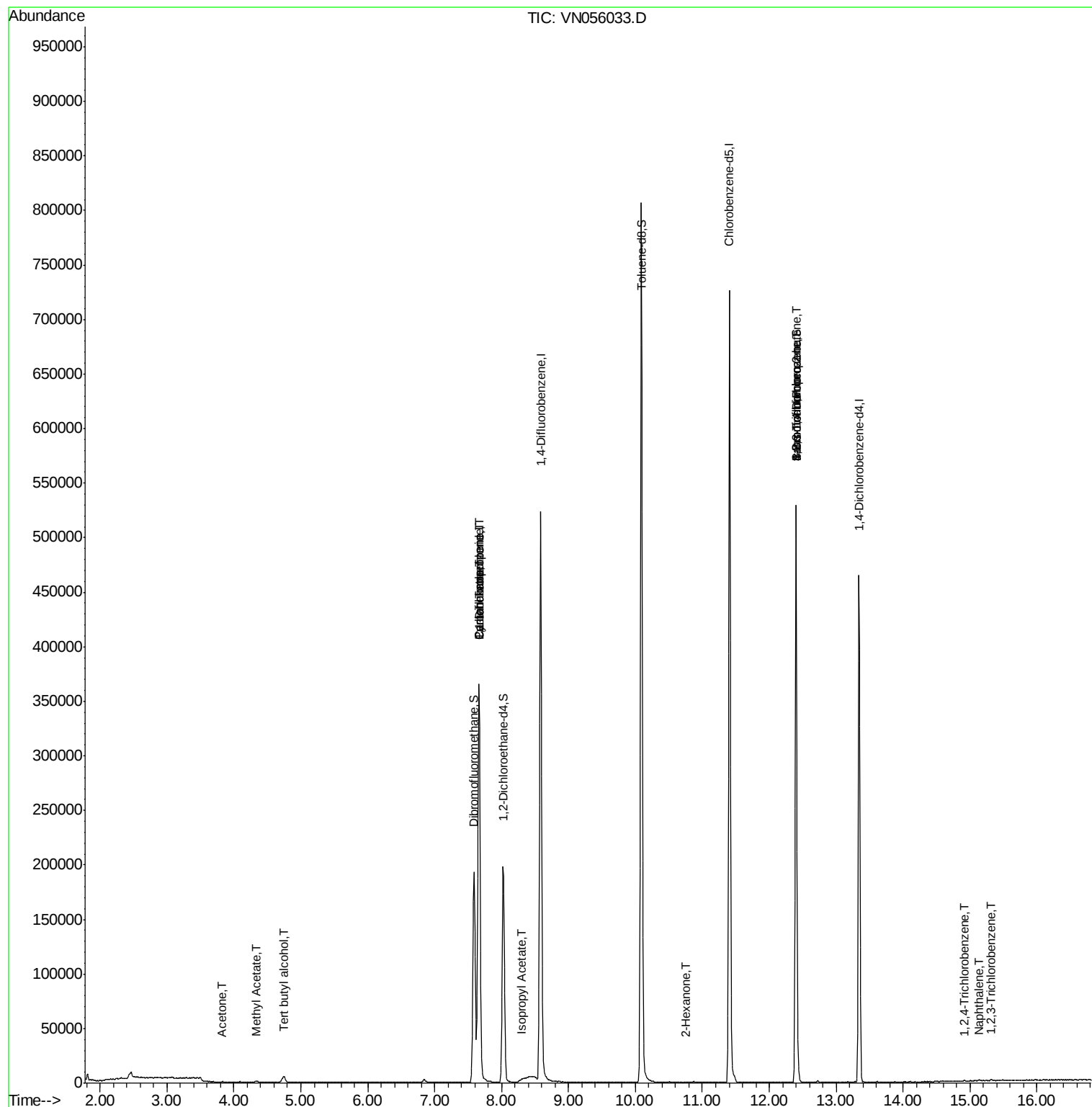
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	5143	8.568	ug/l #	74
16) Acetone	3.83	43	549	0.333	ug/l #	41
18) Methyl Acetate	4.33	43	2915	0.325	ug/l #	72
31) Cyclohexane	7.66	56	4964	0.907	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20134	4.498	ug/l #	47
38) Carbon Tetrachloride	7.66	117	28470	6.899	ug/l #	14
43) Isopropyl Acetate	8.30	43	3505	0.543	ug/l #	53
59) 2-Hexanone	10.76	43	618	0.211	ug/l #	23
71) Bromoform	12.40	173	1376	3.216	ug/l #	1
73) Isopropylbenzene	12.25	105	128	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	86486	33.090	ug/l #	100
79) 2-Chlorotoluene	12.68	91	161	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	86486	110.195	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	590	4.476	ug/l #	73
94) Hexachlorobutadiene	15.01	225	91	Below Cal	#	19
95) Naphthalene	15.14	128	1144	4.007	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.32	180	735	3.290	ug/l #	82

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

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Quant Title : SW846 8260
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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: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampleId :

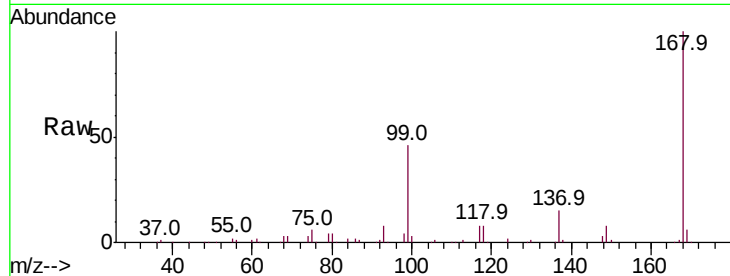
TRIPBLANK

Tot Ion:168 Resp: 347386

Ion Ratio Lower Upper

168 100

99 46.2 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

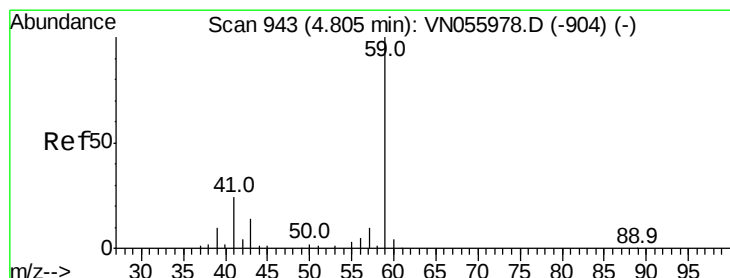
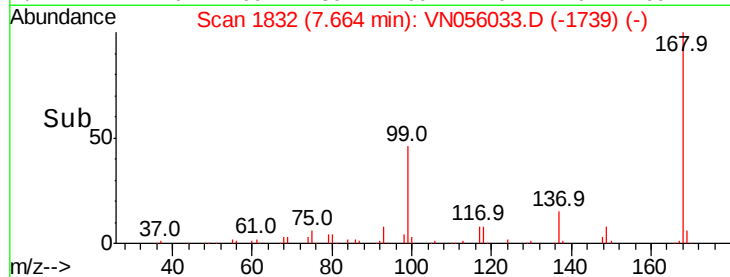
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 8.568 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056033.D

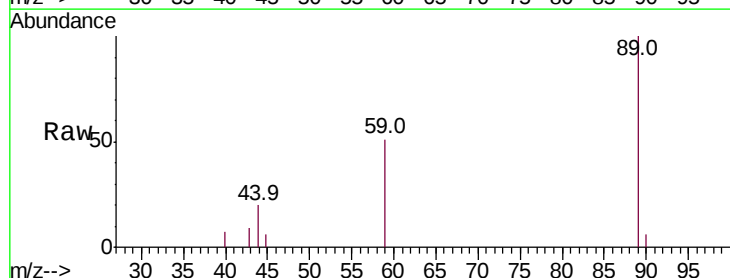
Acq: 6 Jun 2019 9:54

Tgt Ion: 59 Resp: 5143

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

1500

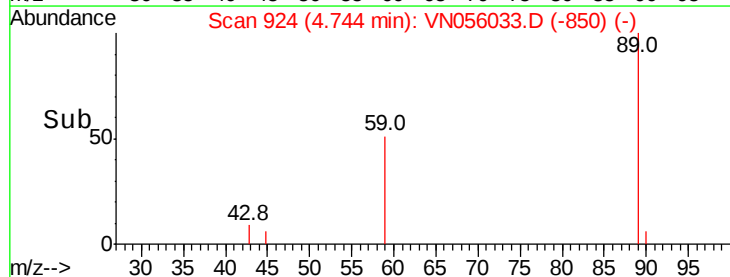
1000

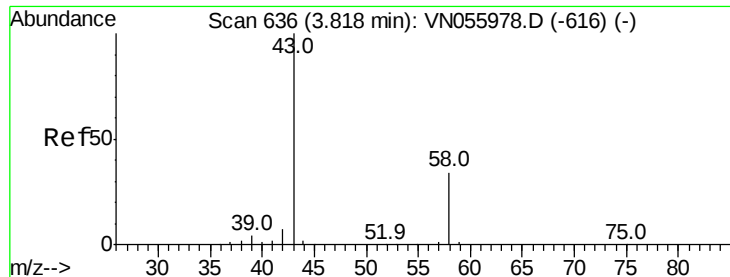
500

0

4.65 4.70 4.75 4.80

Time-->





#16

Acetone

Concen: 0.333 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampleId :

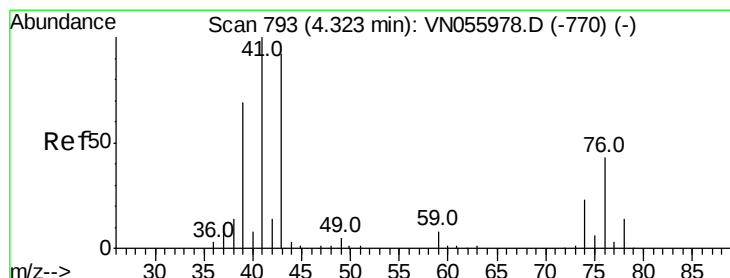
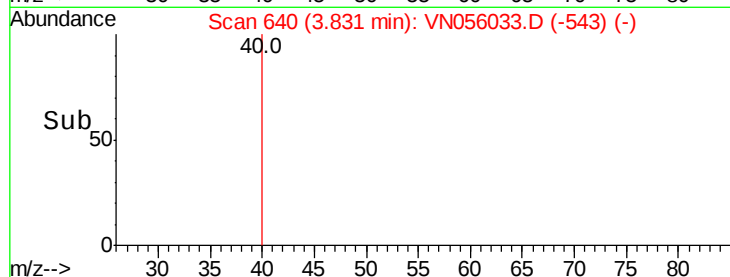
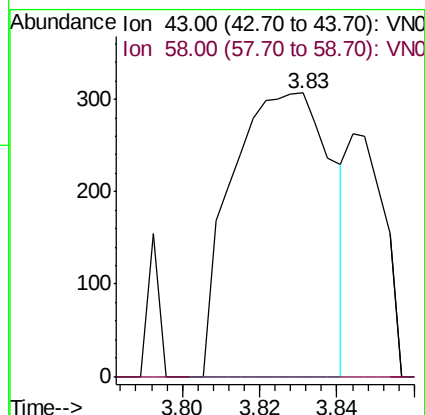
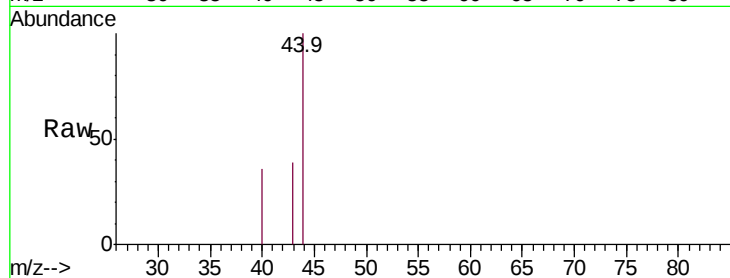
TRIPBLANK

Tot Ion: 43 Resp: 549

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



#18

Methyl Acetate

Concen: 0.325 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN056033.D

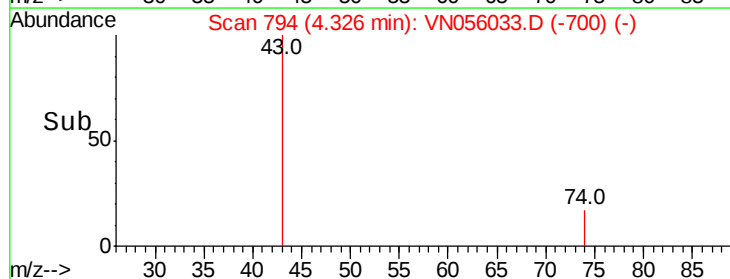
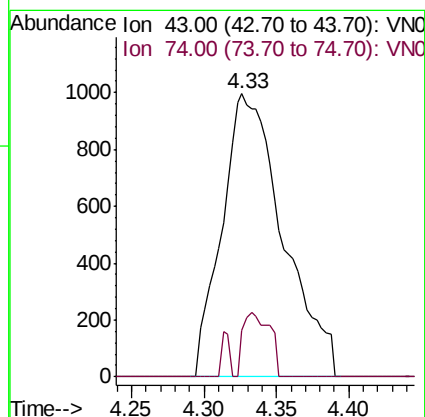
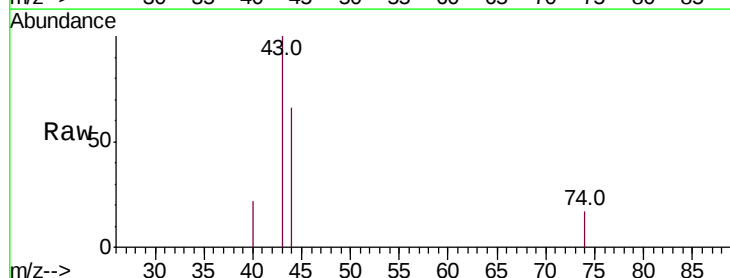
Acq: 6 Jun 2019 9:54

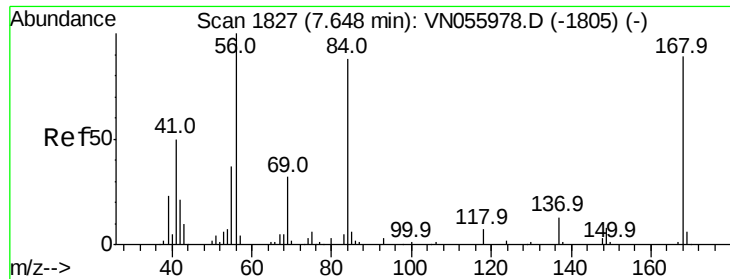
Tgt Ion: 43 Resp: 2915

Ion Ratio Lower Upper

43 100

74 10.1 19.3 28.9#

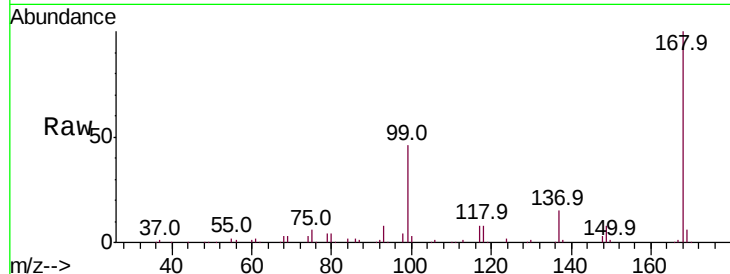




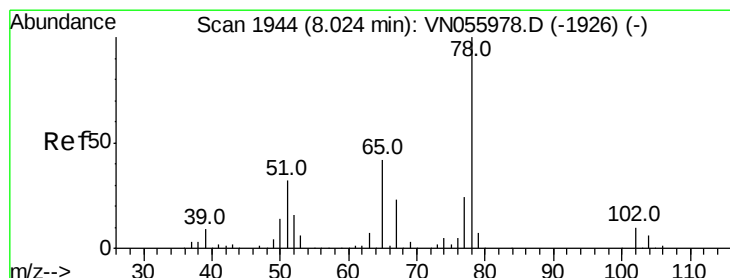
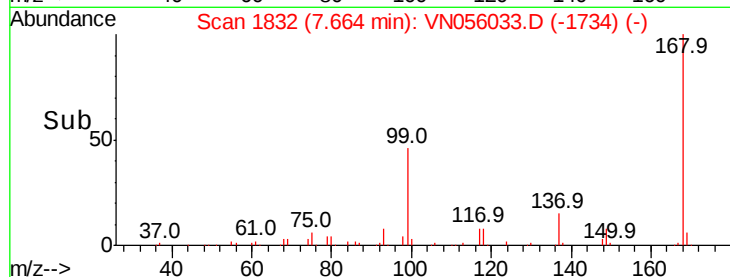
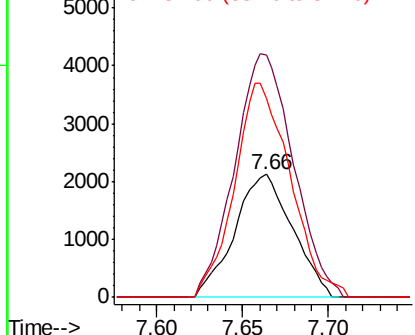
#31
Cyclohexane
Concen: 0.907 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056033.D
Acq: 6 Jun 2019 9:54

Instrument :
MSVOA_N
ClientSampled :
TRIPBLANK

Tot Ion: 56 Resp: 4964
Ion Ratio Lower Upper
56 100
69 197.0 25.6 38.4#
84 161.3 67.4 101.0#

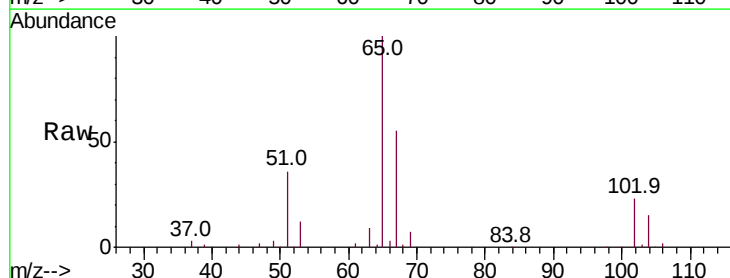


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

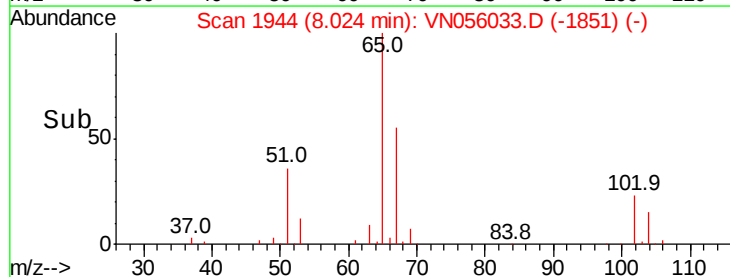
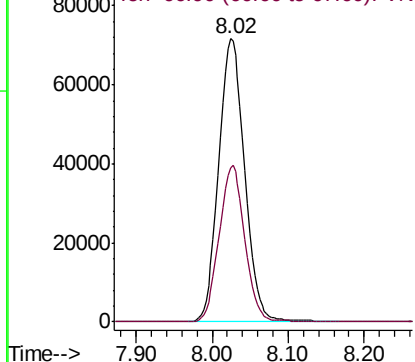


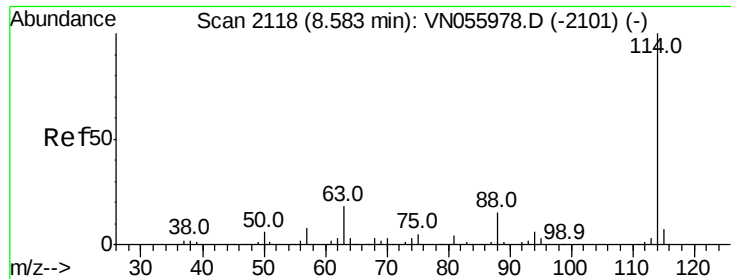
#33
1,2-Dichloroethane-d4
Concen: 49.464 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN056033.D
Acq: 6 Jun 2019 9:54

Tgt Ion: 65 Resp: 170613
Ion Ratio Lower Upper
65 100
67 54.4 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

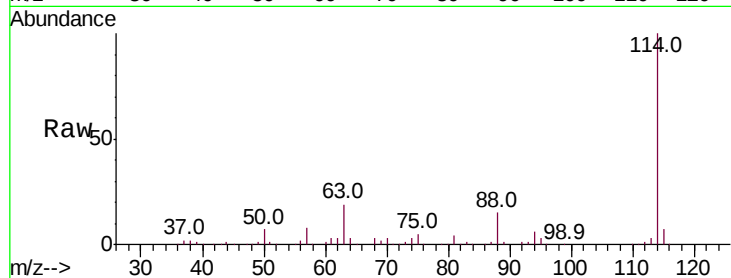




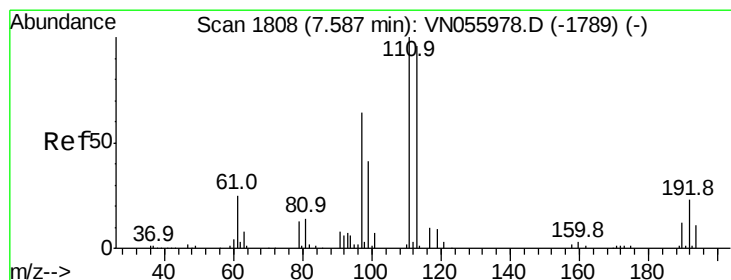
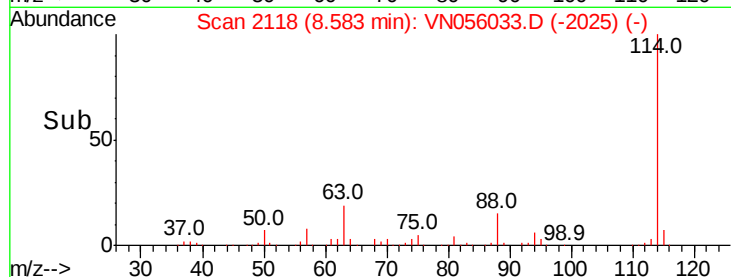
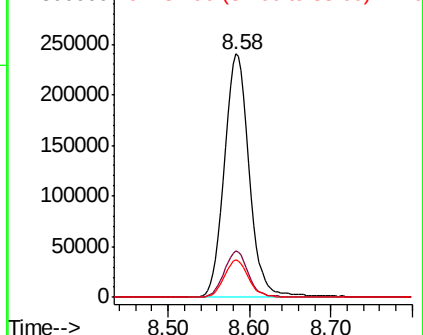
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056033.D
 Acq: 6 Jun 2019 9:54

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIPBLANK

Tot Ion:114 Resp: 520568
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 15.3 0.0 31.0

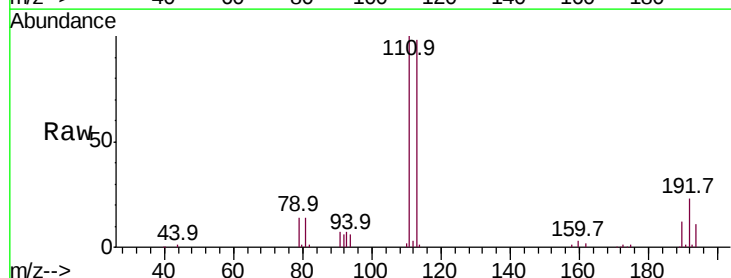


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

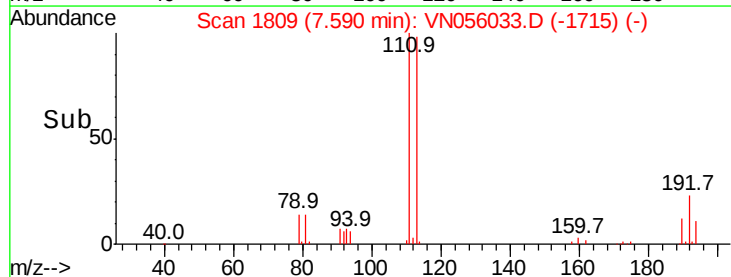
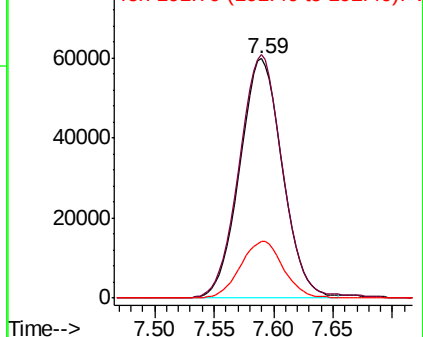


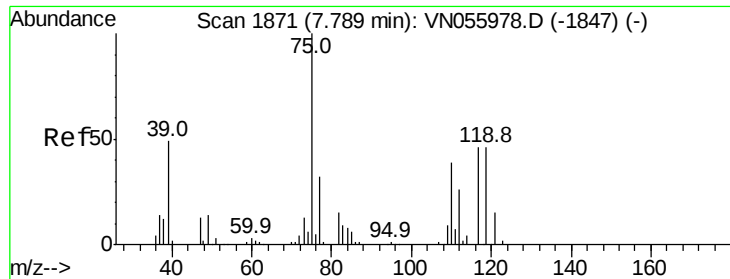
#35
 Dibromofluoromethane
 Concen: 46.547 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056033.D
 Acq: 6 Jun 2019 9:54

Tgt Ion:113 Resp: 148666
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.9 122.9
 192 23.7 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: 4.498 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampleId :

TRIPBLANK

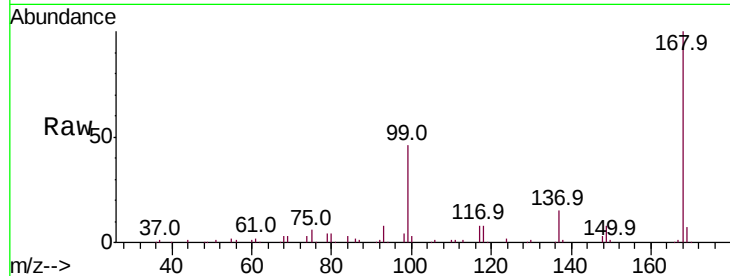
Tot Ion: 75 Resp: 20134

Ion Ratio Lower Upper

75 100

110 8.1 19.0 57.0#

77 0.0 25.1 37.7#



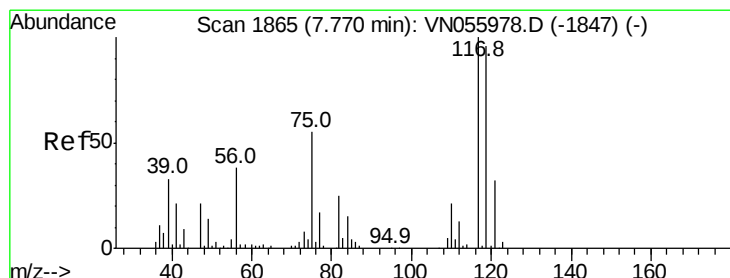
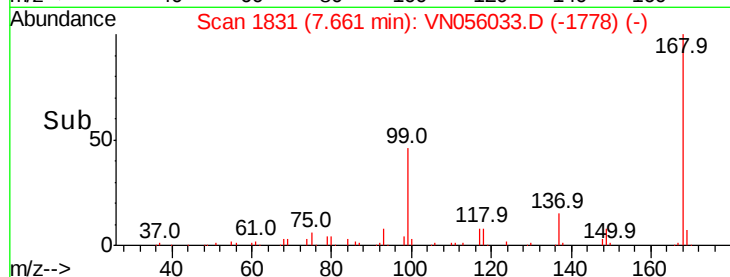
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

7.66

Time-->



#38

Carbon Tetrachloride

Concen: 6.899 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

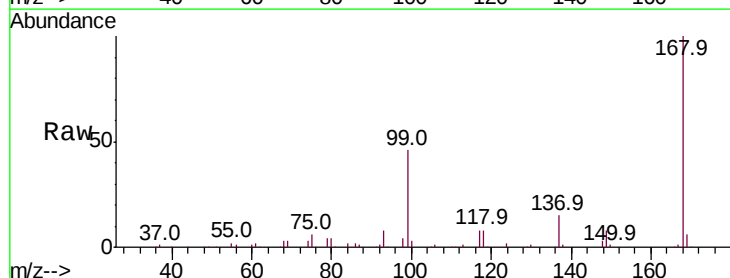
Tgt Ion: 117 Resp: 28470

Ion Ratio Lower Upper

117 100

119 4.3 79.0 118.6#

121 0.0 24.7 37.1#



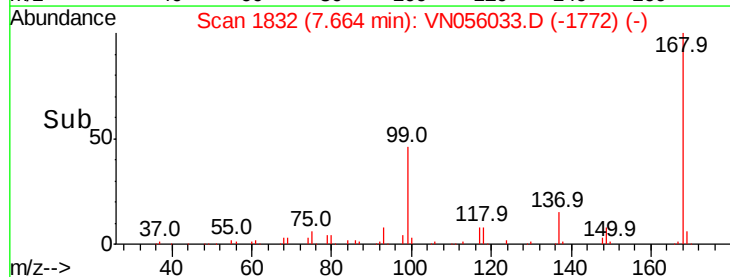
Abundance Ion 116.80 (116.50 to 117.50): V

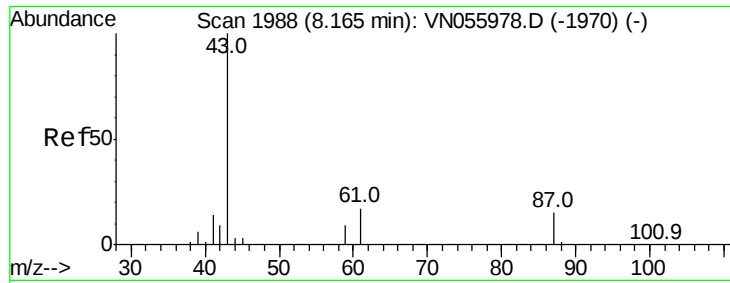
Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

7.66

Time-->





#43

Isopropyl Acetate

Concen: 0.543 ug/l

RT: 8.30 min Scan# 2030

Delta R.T. 0.14 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampleId :

TRIPBLANK

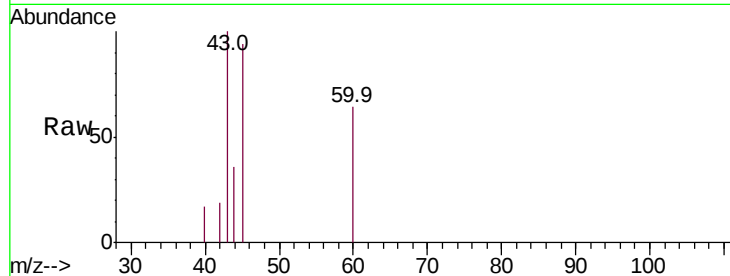
Tot Ion: 43 Resp: 3505

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#

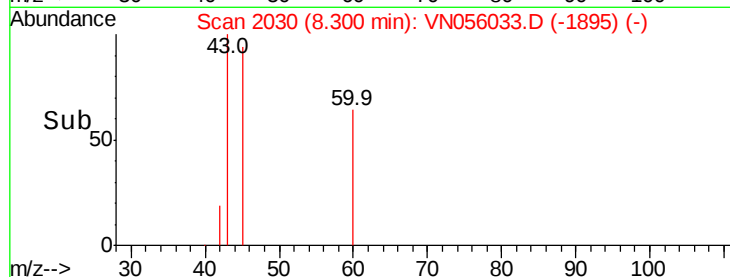


Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

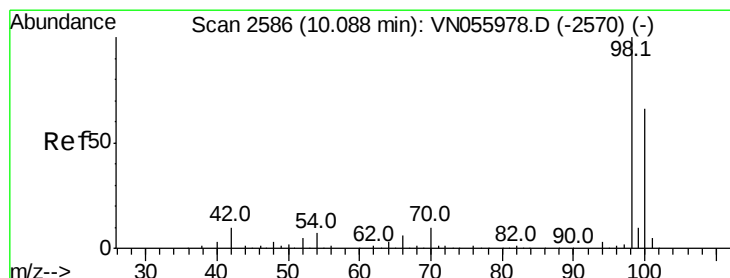
Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)

Time-->



Time-->



#50

Toluene-d8

Concen: 50.690 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056033.D

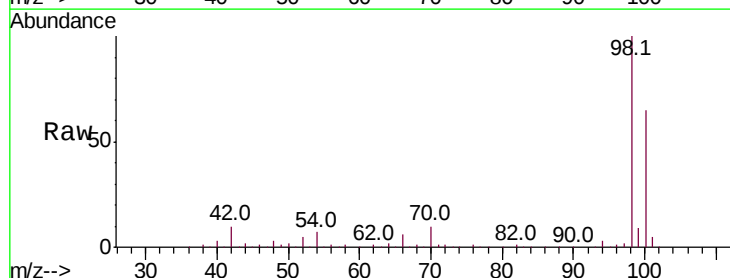
Acq: 6 Jun 2019 9:54

Tgt Ion: 98 Resp: 622983

Ion Ratio Lower Upper

98 100

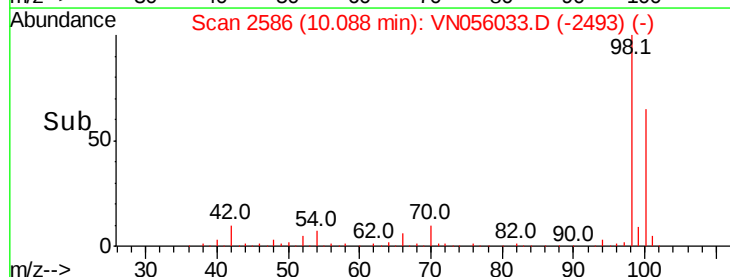
100 64.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

Time-->



Time-->

Time-->

Time-->

Time-->

Time-->

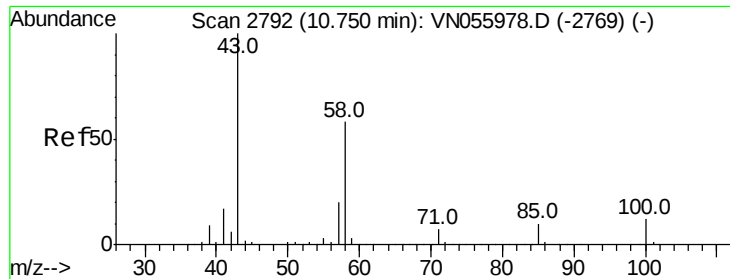
Time-->

Time-->

Time-->

Time-->

Time-->



#59

2-Hexanone

Concen: 0.211 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampleId :

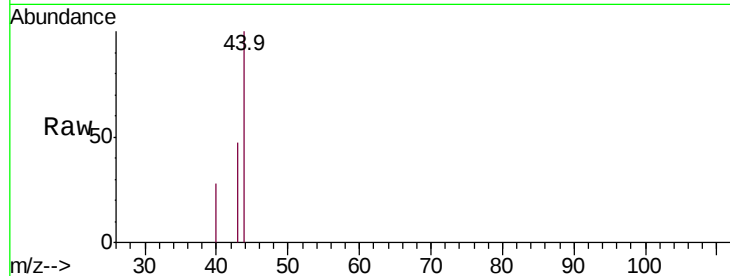
TRIPBLANK

Tot Ion: 43 Resp: 618

Ion Ratio Lower Upper

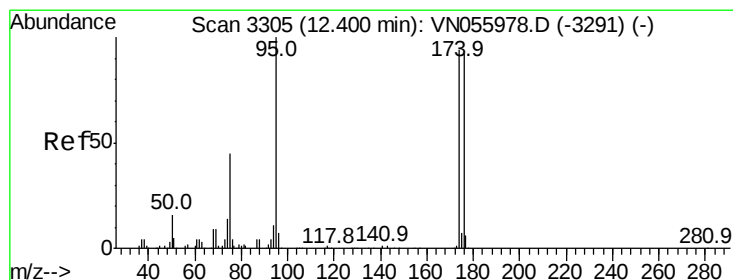
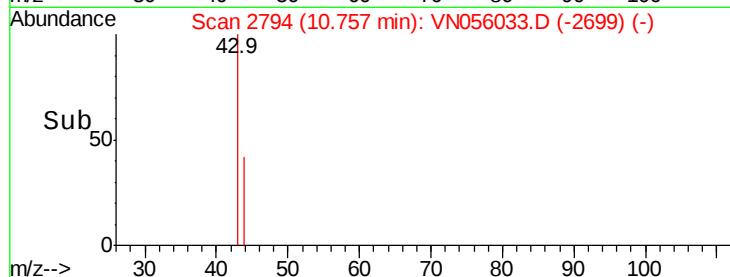
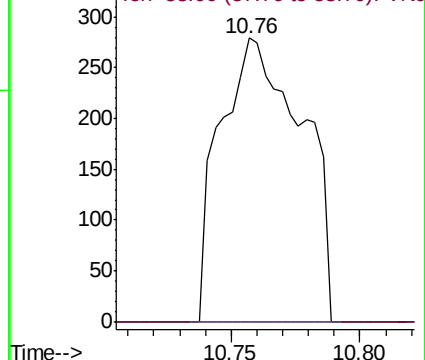
43 100

58 0.0 28.2 84.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 45.291 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

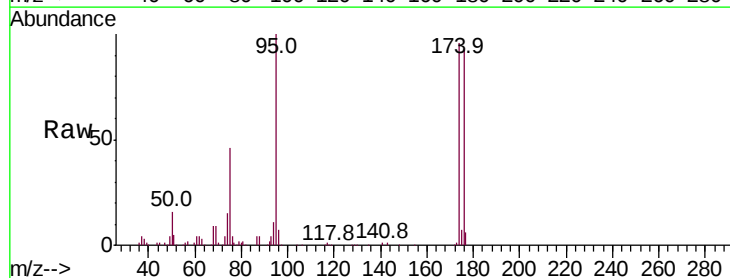
Tgt Ion: 95 Resp: 189295

Ion Ratio Lower Upper

95 100

174 95.3 0.0 191.0

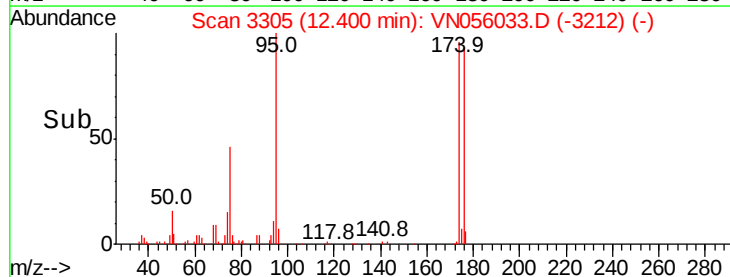
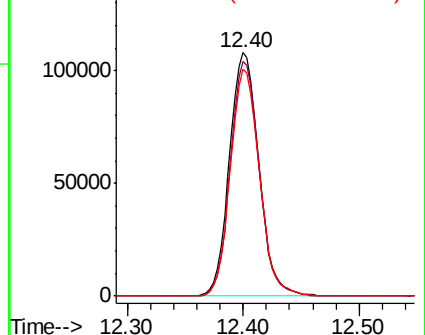
176 91.9 0.0 185.2

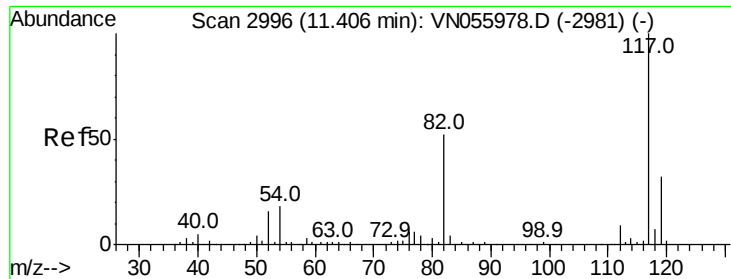


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

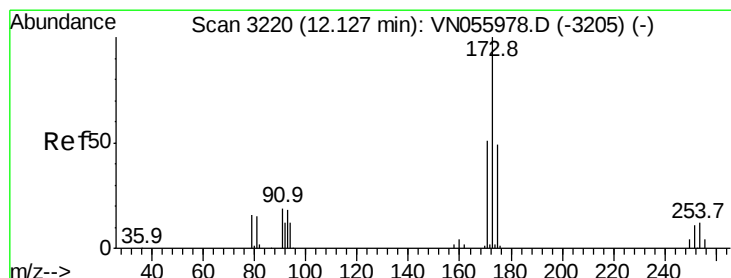
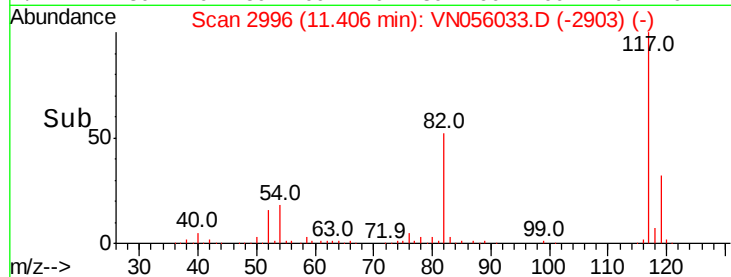
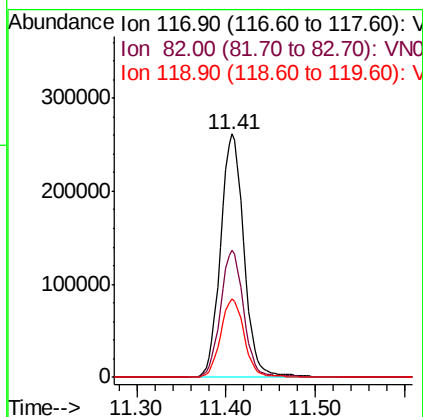
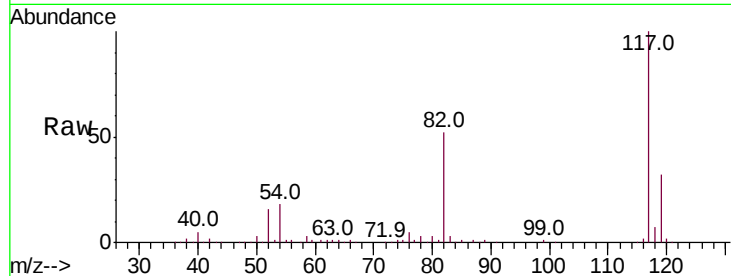




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. -0.00 min
 Lab File: VN056033.D
 Acq: 6 Jun 2019 9:54

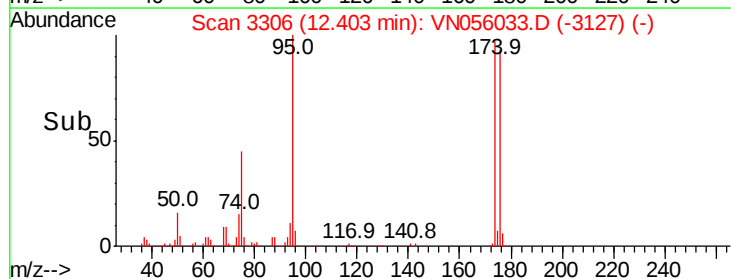
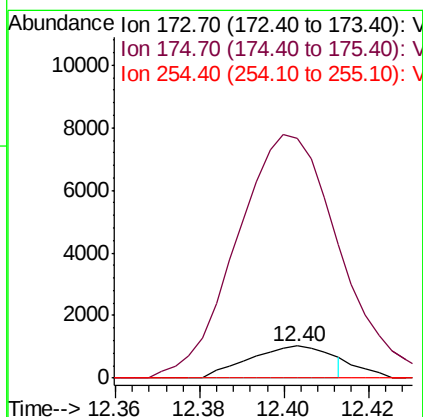
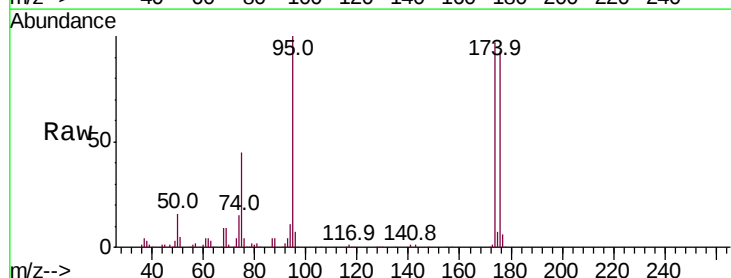
Instrument :
 MSVOA_N
 ClientSampleId :
 TRIPBLANK

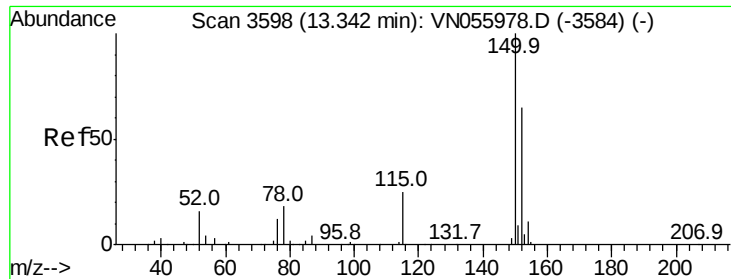
Tot Ion:117 Resp: 475567
 Ion Ratio Lower Upper
 117 100
 82 52.2 41.8 62.8
 119 32.0 25.4 38.0



#71
 Bromoform
 Concen: 3.216 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.28 min
 Lab File: VN056033.D
 Acq: 6 Jun 2019 9:54

Tgt Ion:173 Resp: 1376
 Ion Ratio Lower Upper
 173 100
 175 839.9 24.3 72.8#
 254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampleId :

TRIPBLANK

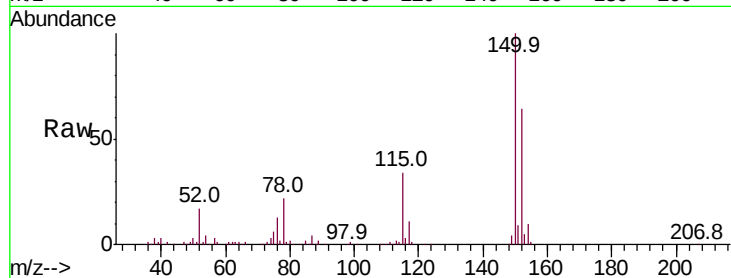
Tot Ion:152 Resp: 142045

Ion Ratio Lower Upper

152 100

115 53.3 27.0 81.0

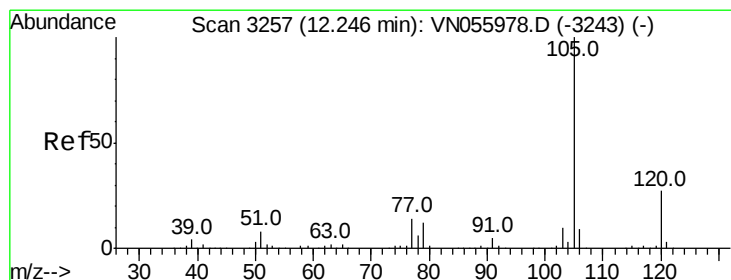
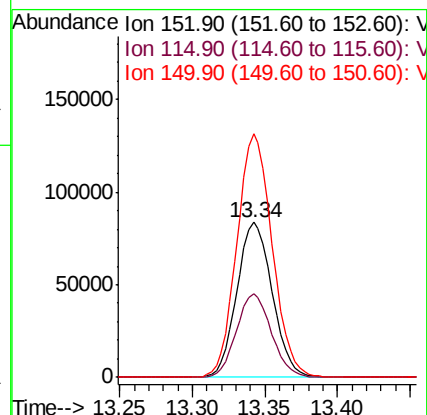
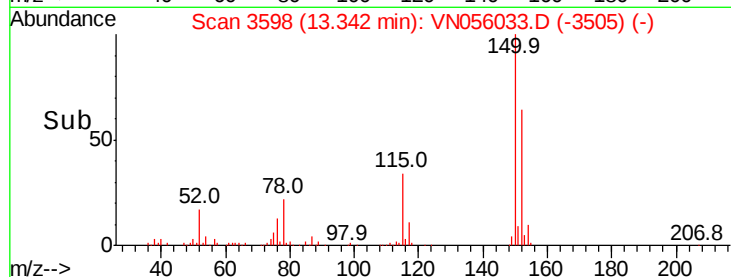
150 156.7 0.0 343.2



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: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN056033.D

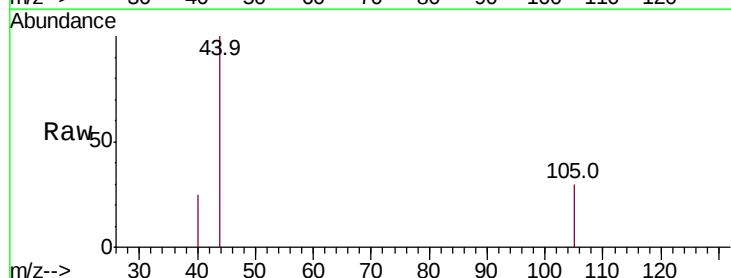
Acq: 6 Jun 2019 9:54

Tgt Ion:105 Resp: 128

Ion Ratio Lower Upper

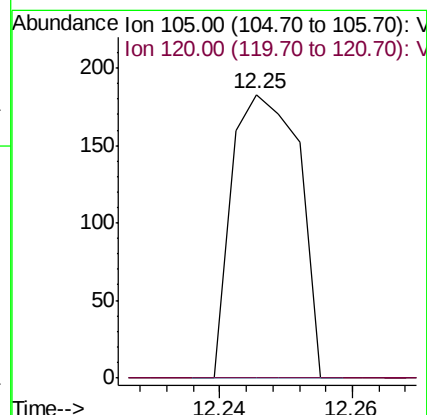
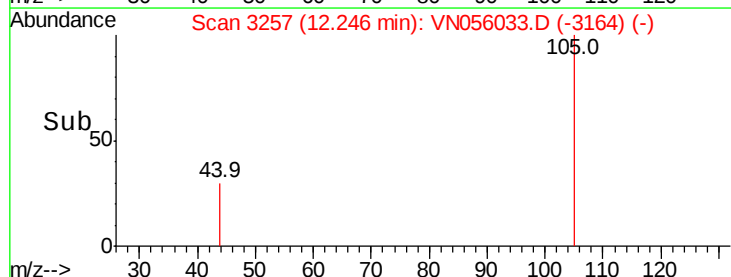
105 100

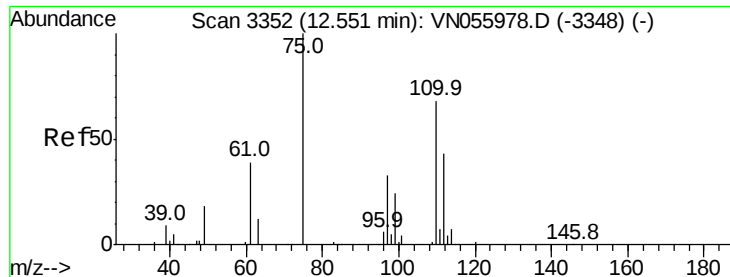
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 33.090 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampled :

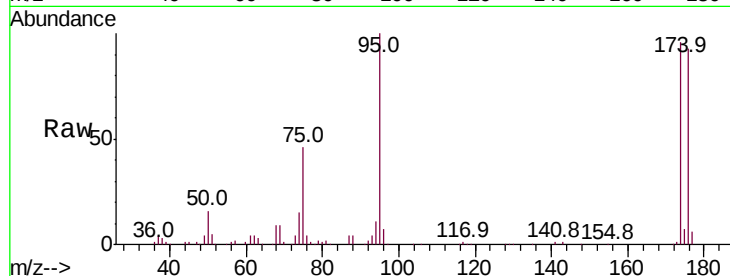
TRIPBLANK

Tot Ion: 75 Resp: 86486

Ion Ratio Lower Upper

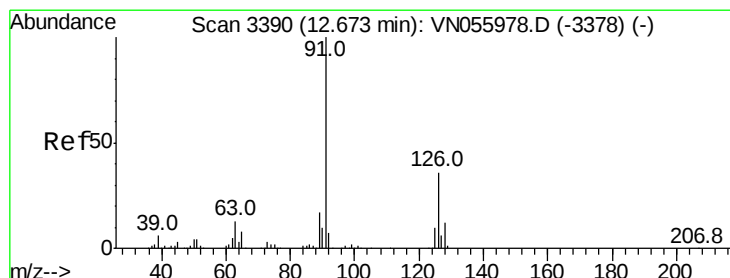
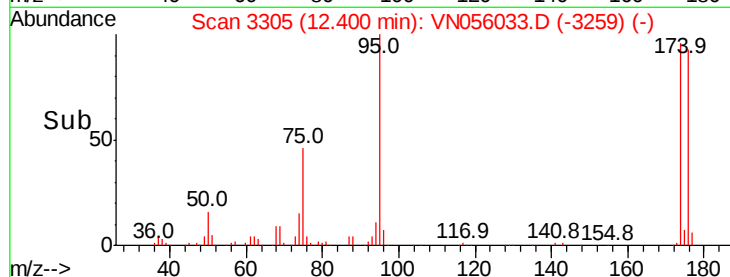
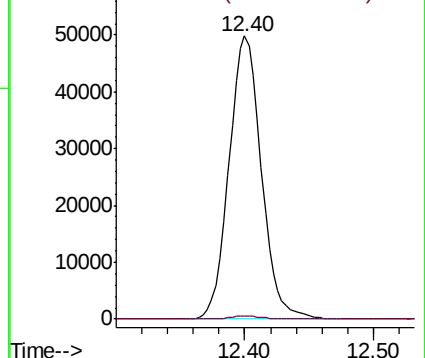
75 100

77 1.0 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: 12.68 min Scan# 3392

Delta R.T. 0.01 min

Lab File: VN056033.D

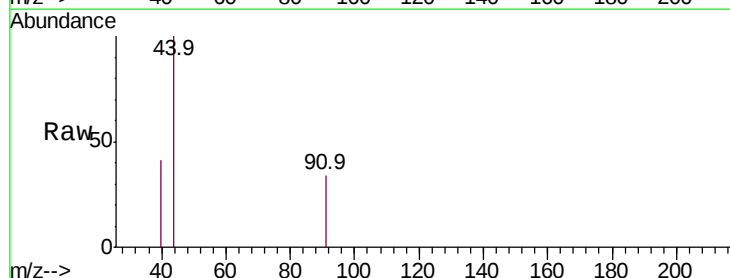
Acq: 6 Jun 2019 9:54

Tgt Ion: 91 Resp: 161

Ion Ratio Lower Upper

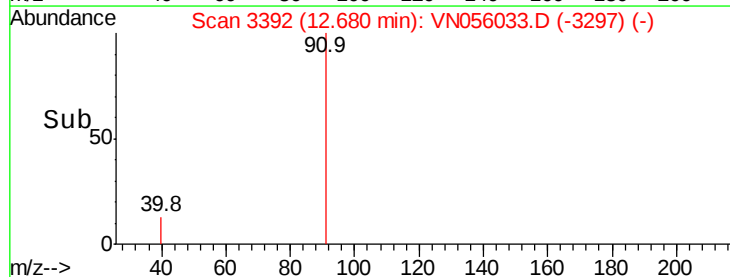
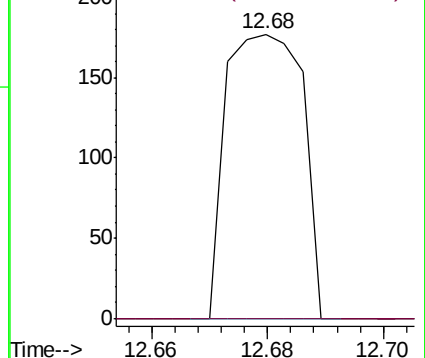
91 100

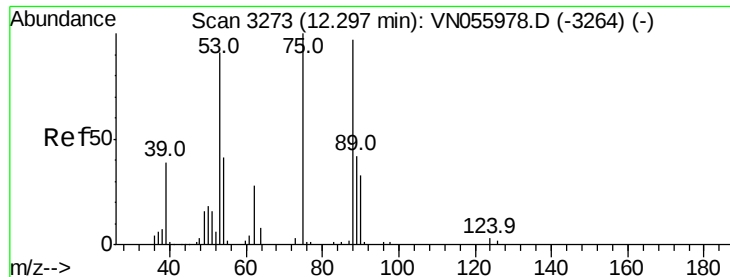
126 0.0 18.1 54.4#



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: 110.195 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampleId :

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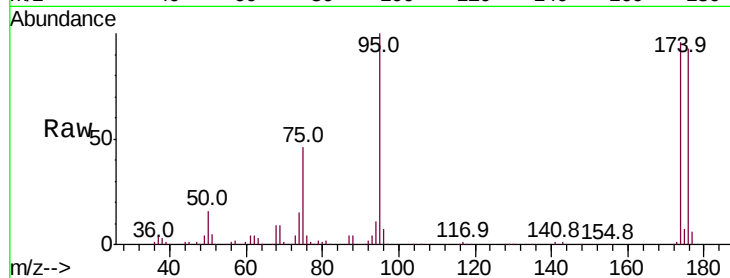
Tot Ion: 75 Resp: 86486

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

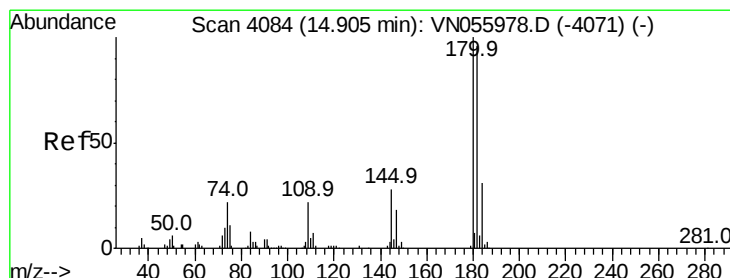
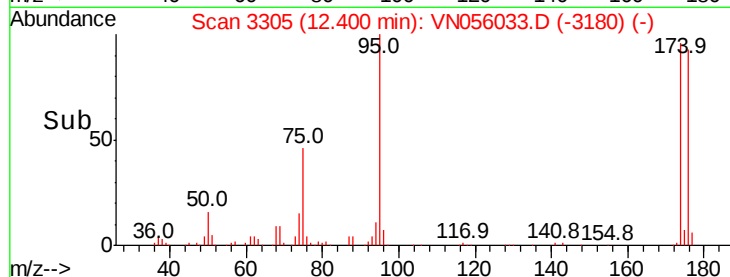
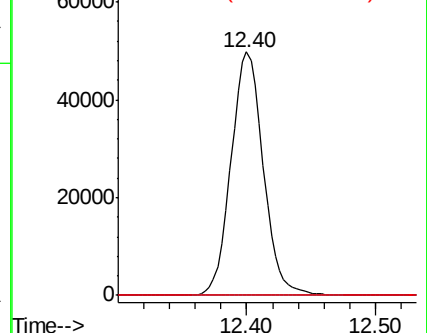
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.476 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

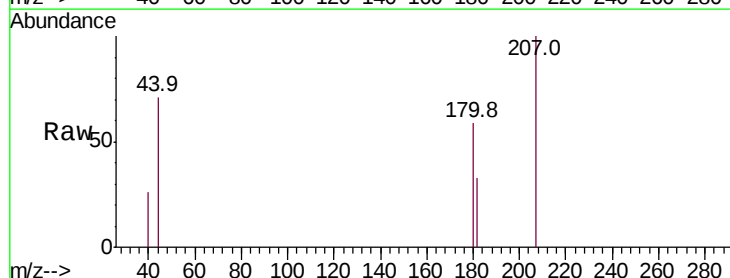
Tgt Ion: 180 Resp: 590

Ion Ratio Lower Upper

180 100

182 77.6 48.3 144.9

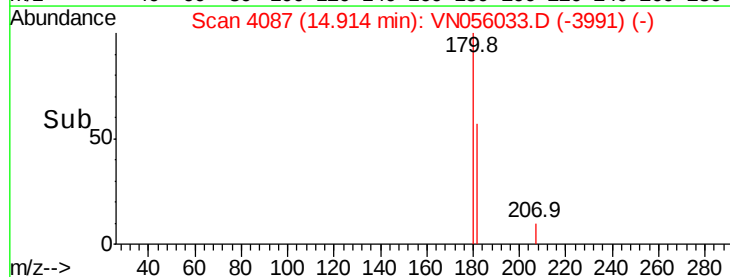
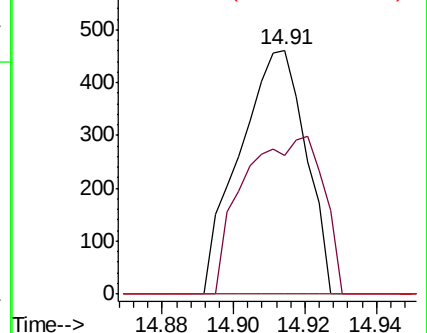
145 0.0 14.0 41.9#

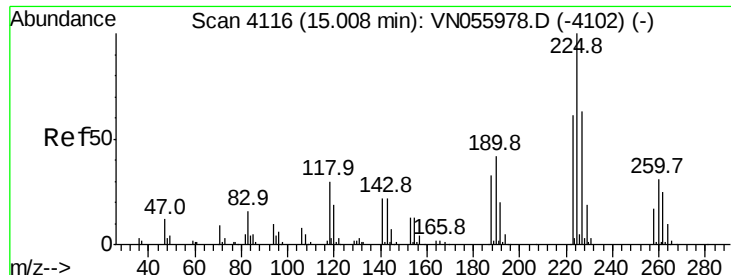


Abundance Ion 179.80 (179.50 to 180.50): VN055978.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN055978.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN055978.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampleId :

TRIPBLANK

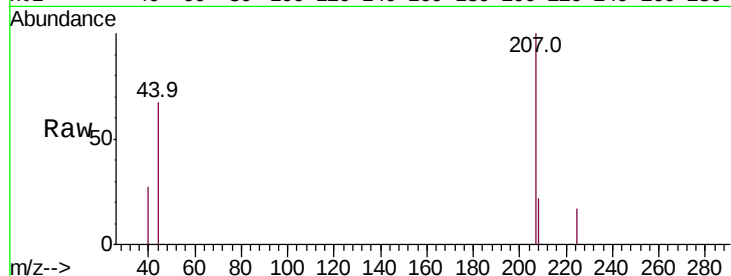
Tot Ion:225 Resp: 91

Ion Ratio Lower Upper

225 100

223 0.0 30.9 92.7#

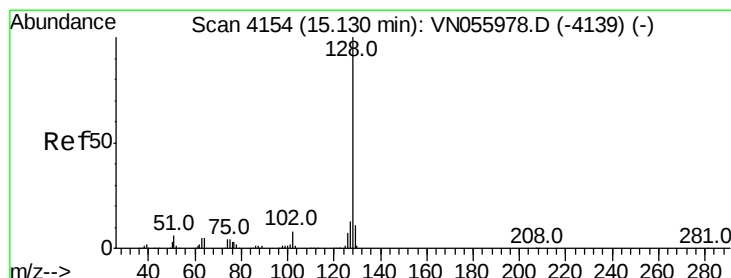
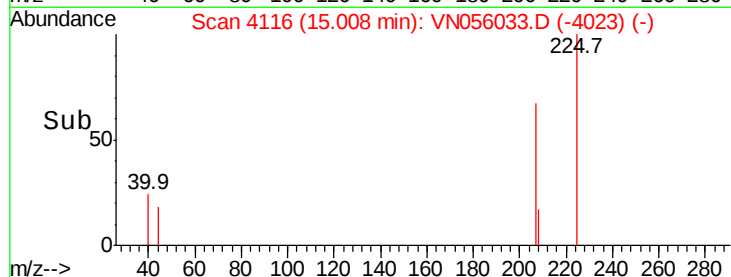
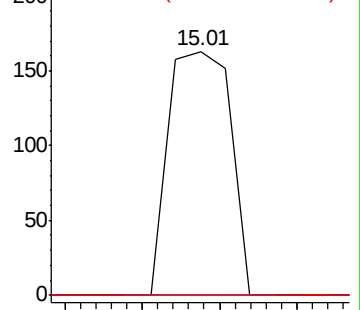
227 0.0 31.6 94.7#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.007 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

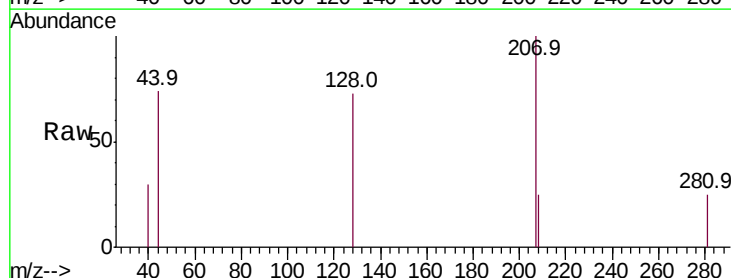
Tgt Ion:128 Resp: 1144

Ion Ratio Lower Upper

128 100

127 2.6 10.3 15.5#

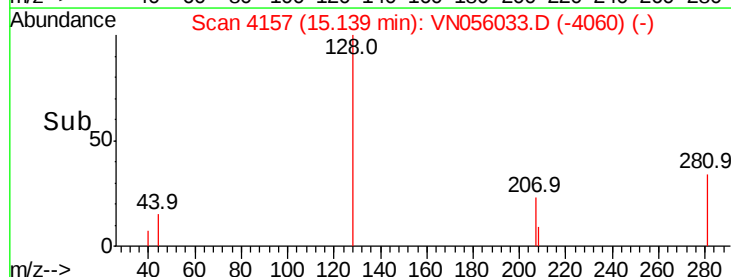
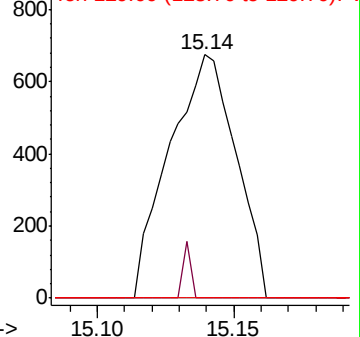
129 0.0 8.7 13.1#

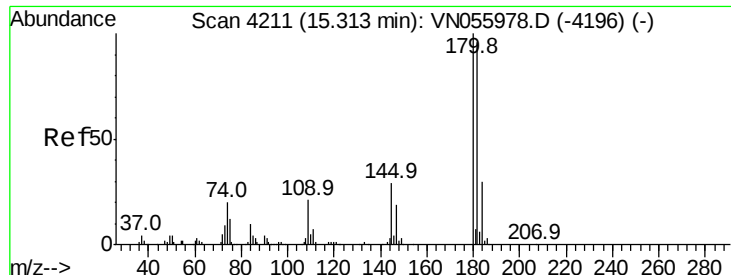


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 3.290 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN056033.D

Acq: 6 Jun 2019 9:54

Instrument :

MSVOA_N

ClientSampleId :

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Tot Ion:180 Resp: 735

Ion Ratio Lower Upper

180 100

182 82.2 47.9 143.7

145 14.1 14.9 44.7#

