

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054512.D
 Acq On : 21 Mar 2019 15:42
 Operator : JC/SP
 Sample : K1965-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW314I-20190314

Quant Time: Mar 22 10:15:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	755444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1127956	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	902535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	311308	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	436426	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	
35) Dibromofluoromethane	7.59	113	348684	47.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.96%	
50) Toluene-d8	10.09	98	1323654	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	
62) 4-Bromofluorobenzene	12.40	95	391472	42.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.22%	

Target Compounds

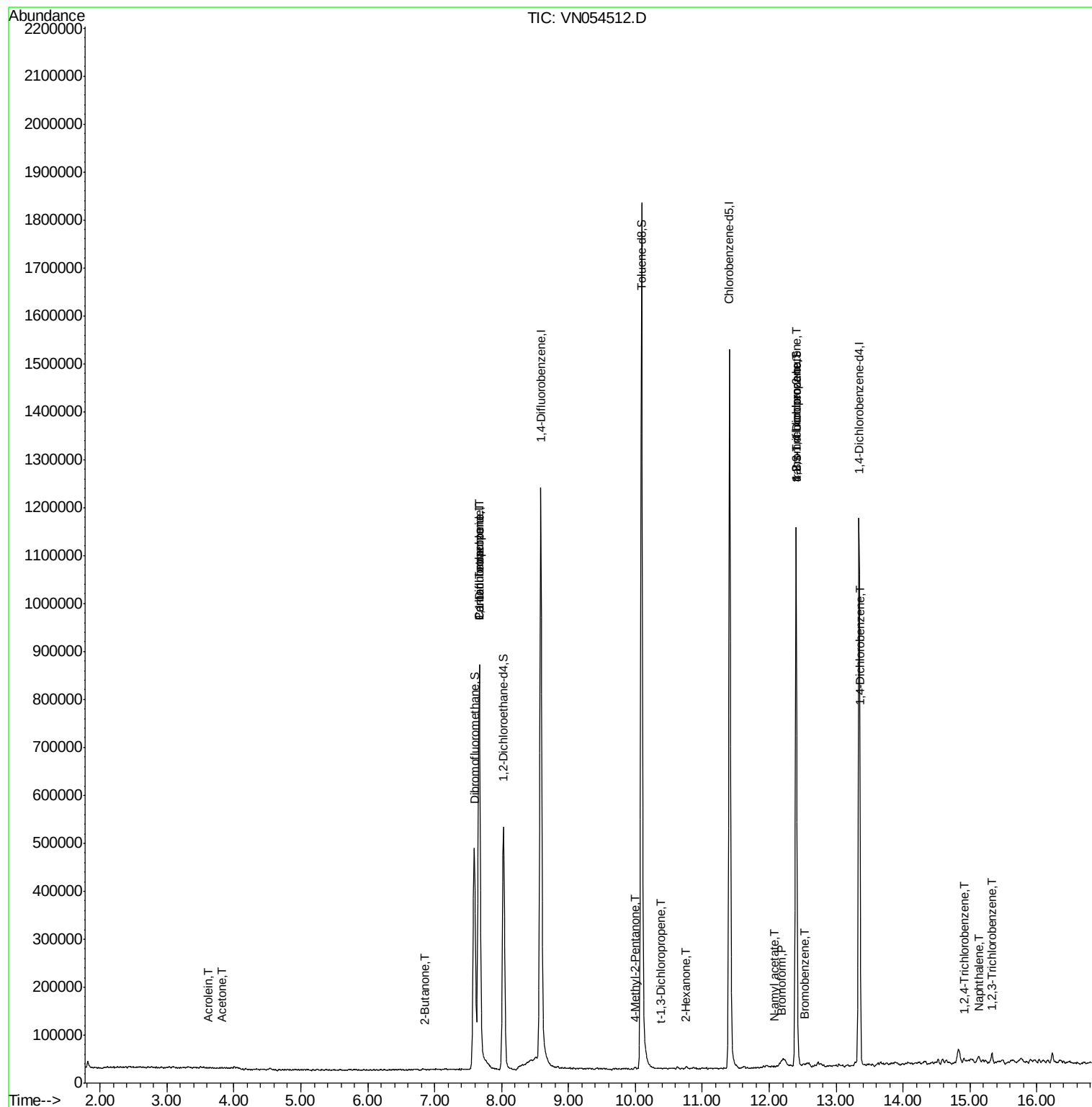
						Qvalue
13) Acrolein	3.61	56	226	0.288	ug/l #	62
16) Acetone	3.82	43	1491	0.528	ug/l #	87
25) 2-Butanone	6.87	43	770	0.213	ug/l #	46
31) Cyclohexane	7.67	56	13765	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	54237	5.143	ug/l #	48
38) Carbon Tetrachloride	7.66	117	68661	6.699	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	2853	0.406	ug/l #	69
53) t-1,3-Dichloropropene	10.39	75	173	2.248	ug/l #	16
59) 2-Hexanone	10.76	43	2750	0.600	ug/l	95
71) Bromoform	12.17	173	92	2.240	ug/l #	28
74) N-amyl acetate	12.07	43	1621	0.225	ug/l #	80
76) 1,2,3-Trichloropropane	12.40	75	194248	39.322	ug/l #	100
77) Bromobenzene	12.53	156	2204	0.354	ug/l #	21
81) trans-1,4-Dichloro-2-buten	12.40	75	194248	130.128	ug/l #	11
88) 1,4-Dichlorobenzene	13.36	146	2219	0.221	ug/l #	30
93) 1,2,4-Trichlorobenzene	14.91	180	2550	0.512	ug/l #	73
94) Hexachlorobutadiene	15.01	225	854	Below Cal		76
95) Naphthalene	15.13	128	11009	0.991	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	2712	0.547	ug/l #	84

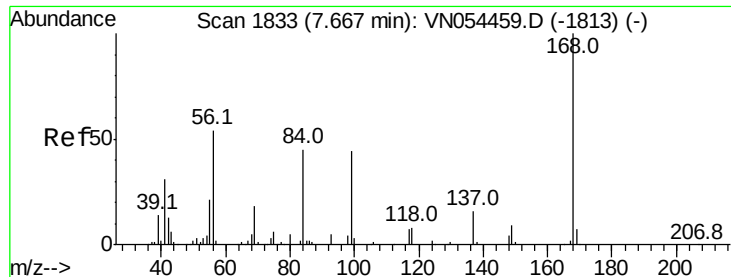
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

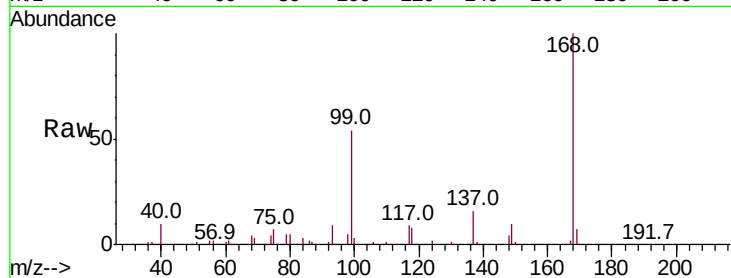
BPS1-TT-MW314I-20190314

Tot Ion:168 Resp: 755444

Ion Ratio Lower Upper

168 100

99 54.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

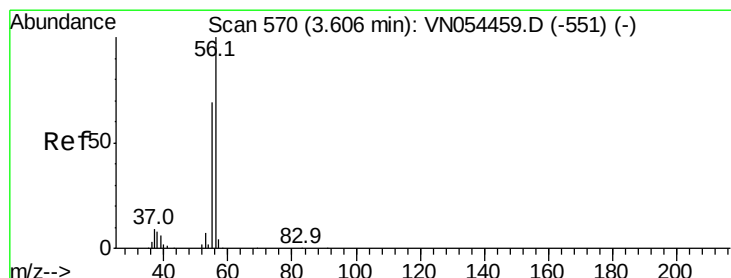
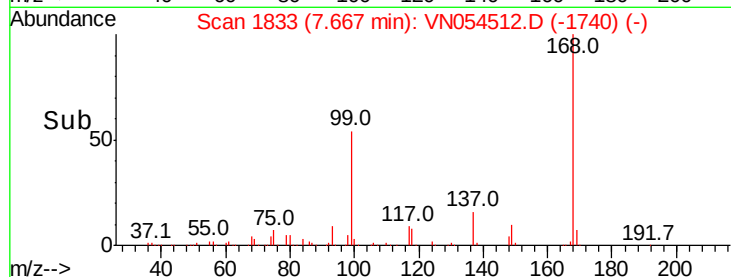
200000

100000

0

Time-->

7.60 7.70 7.80



#13

Acrolein

Concen: 0.288 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054512.D

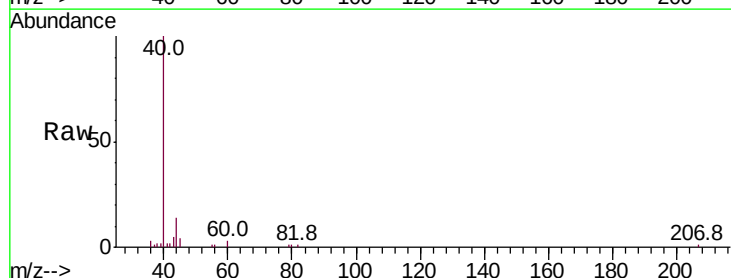
Acq: 21 Mar 2019 15:42

Tgt Ion: 56 Resp: 226

Ion Ratio Lower Upper

56 100

55 39.4 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.61

400

300

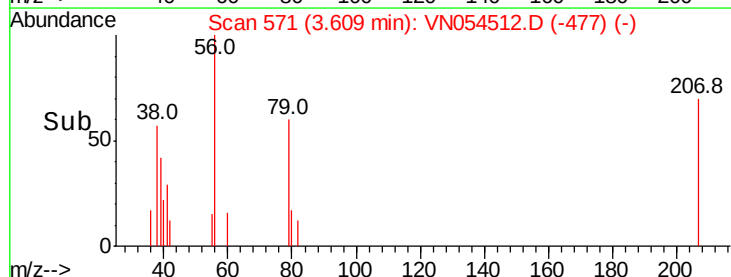
200

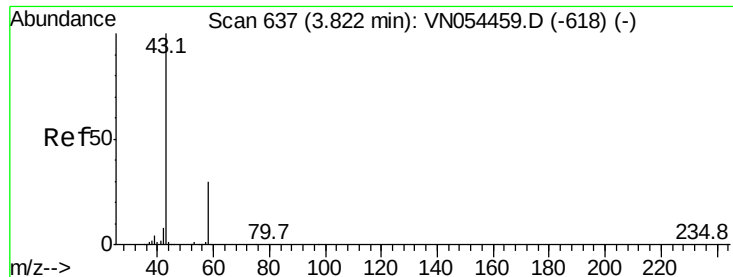
100

0

Time-->

3.59 3.60 3.61 3.62 3.63





#16

Acetone

Concen: 0.528 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

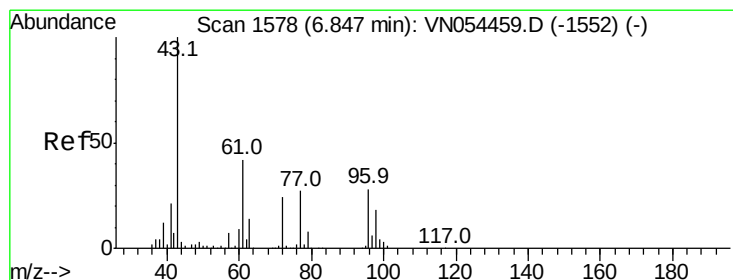
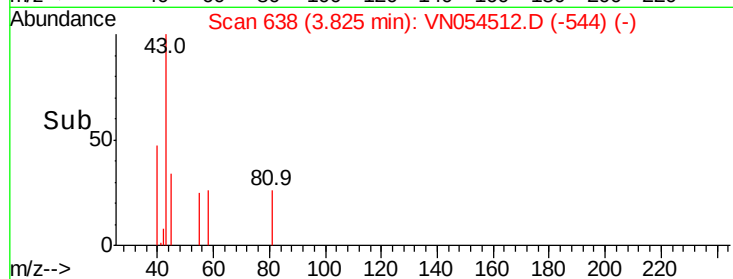
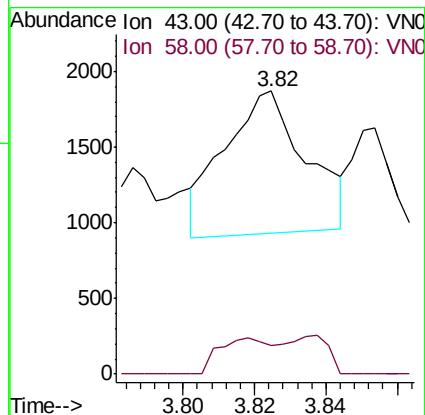
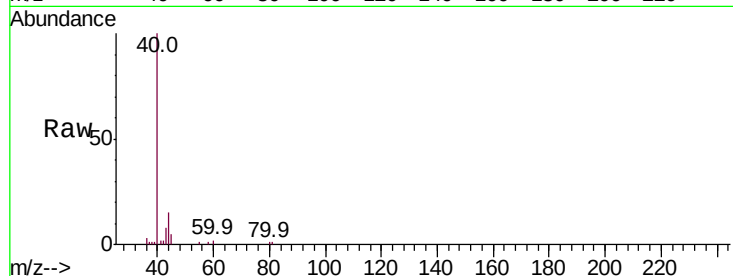
BPS1-TT-MW314I-20190314

Tot Ion: 43 Resp: 1491

Ion Ratio Lower Upper

43 100

58 29.8 29.9 44.9#



#25

2-Butanone

Concen: 0.213 ug/l

RT: 6.87 min Scan# 1584

Delta R.T. 0.02 min

Lab File: VN054512.D

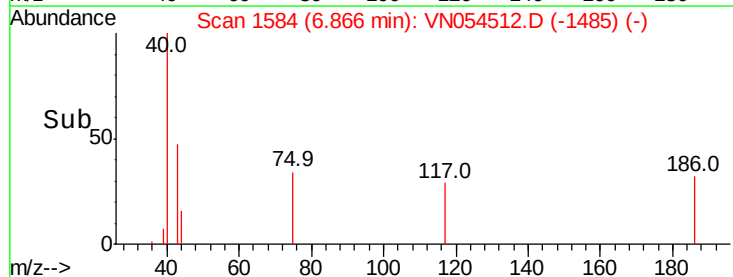
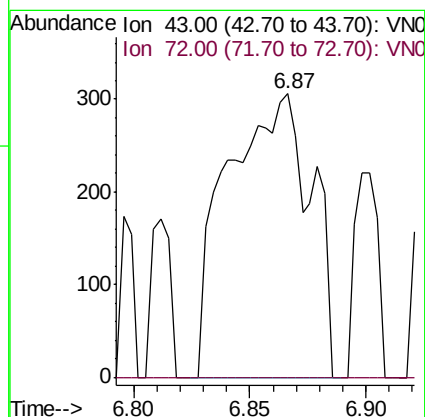
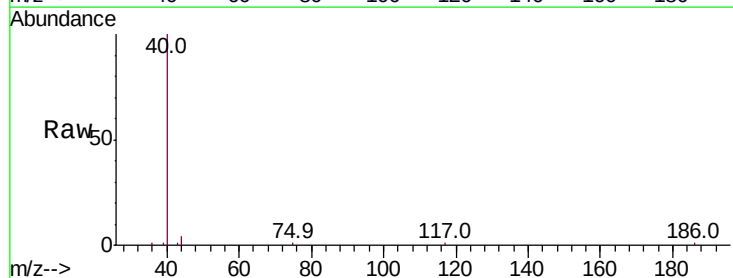
Acq: 21 Mar 2019 15:42

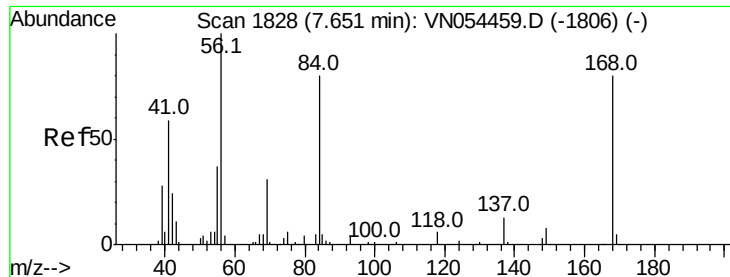
Tgt Ion: 43 Resp: 770

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW314I-20190314

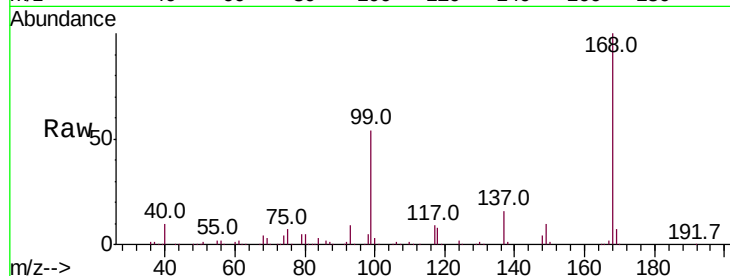
Tot Ion: 56 Resp: 13765

Ion Ratio Lower Upper

56 100

69 177.7 27.8 41.6#

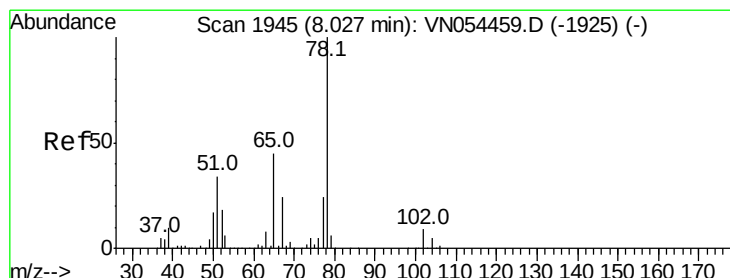
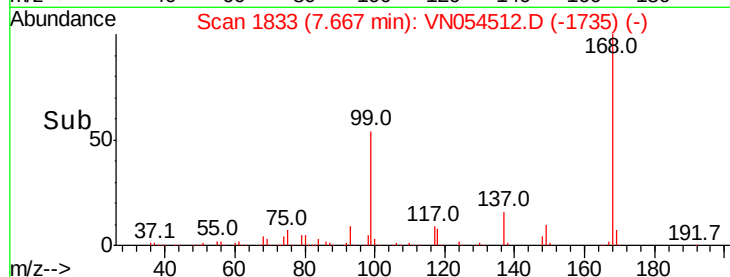
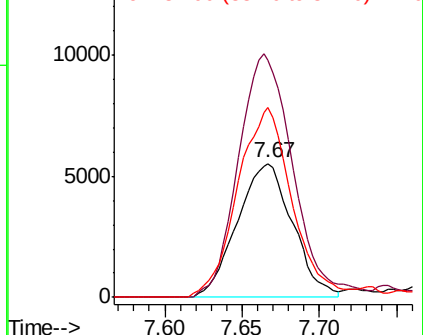
84 142.3 74.6 111.8#



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: 46.446 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054512.D

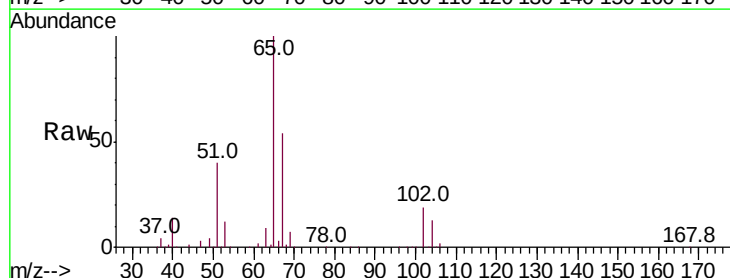
Acq: 21 Mar 2019 15:42

Tgt Ion: 65 Resp: 436426

Ion Ratio Lower Upper

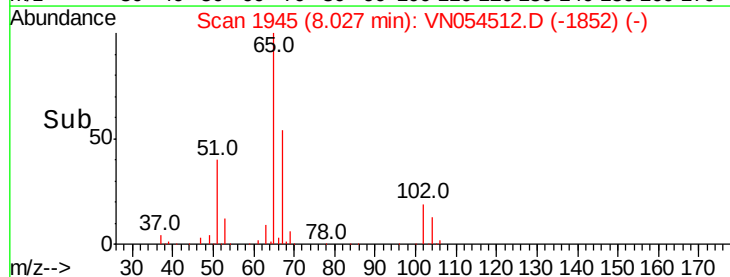
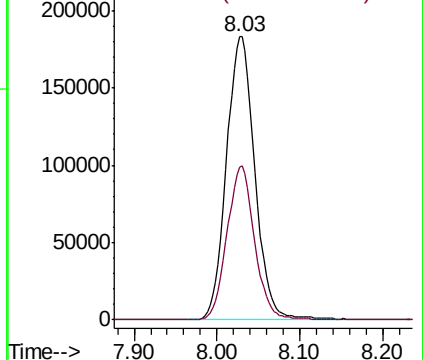
65 100

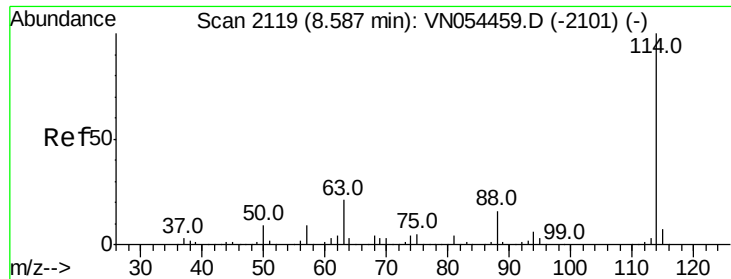
67 52.9 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



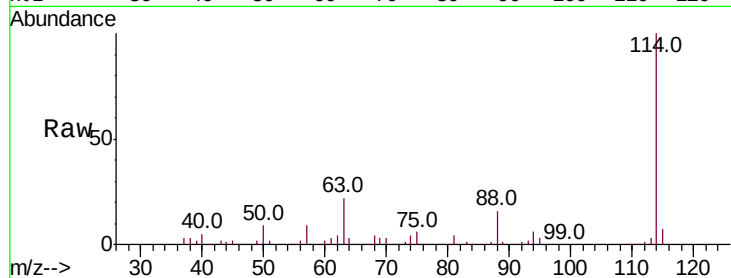


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054512.D
 Acq: 21 Mar 2019 15:42

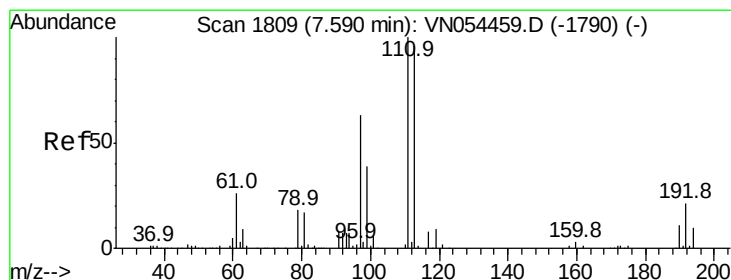
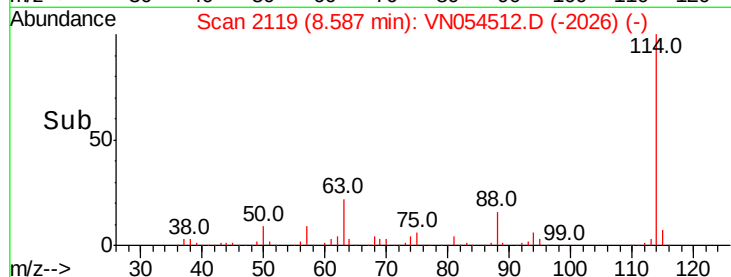
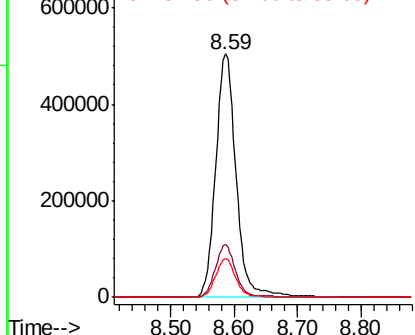
Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW314I-20190314

Tot Ion:114 Resp: 1127956

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	35.2
88	15.9	0.0	30.2



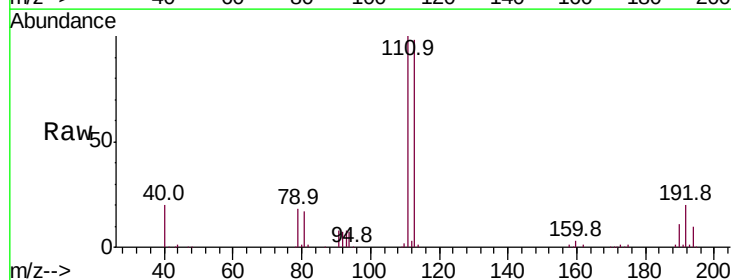
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



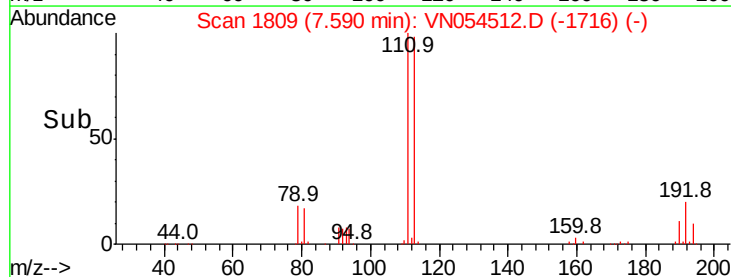
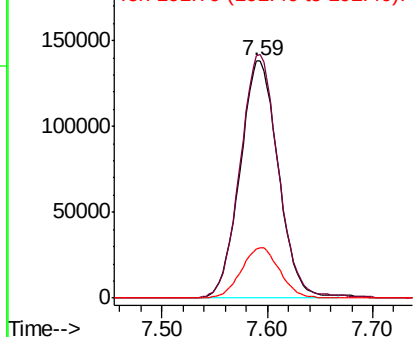
#35
 Dibromofluoromethane
 Concen: 47.983 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054512.D
 Acq: 21 Mar 2019 15:42

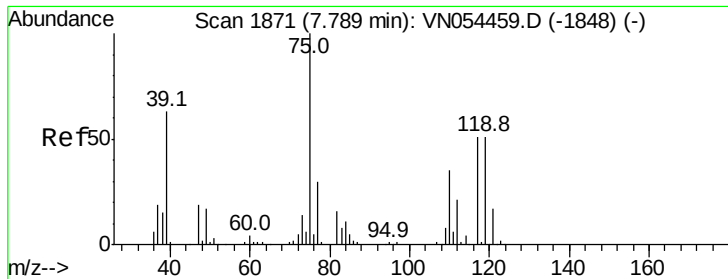
Tgt Ion:113 Resp: 348684

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.4
192	21.3	19.2	28.8



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

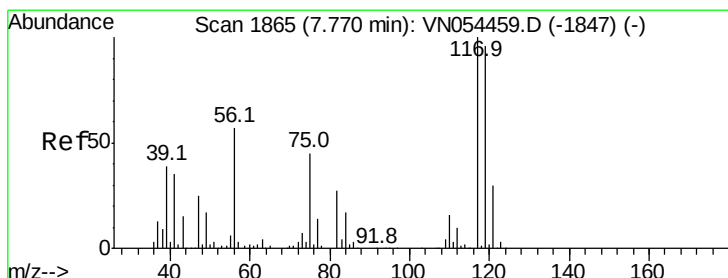
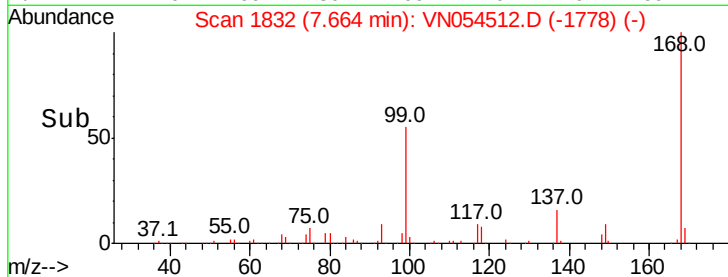
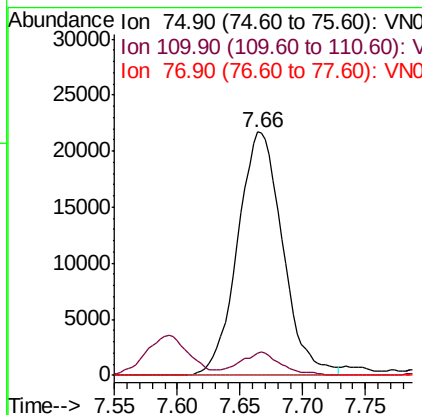
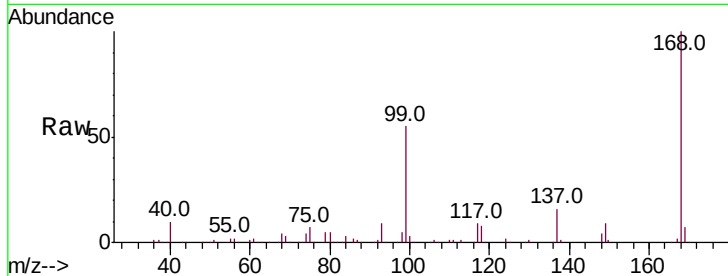




#36
 1,1-Dichloropropene
 Concen: 5.143 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054512.D
 Acq: 21 Mar 2019 15:42

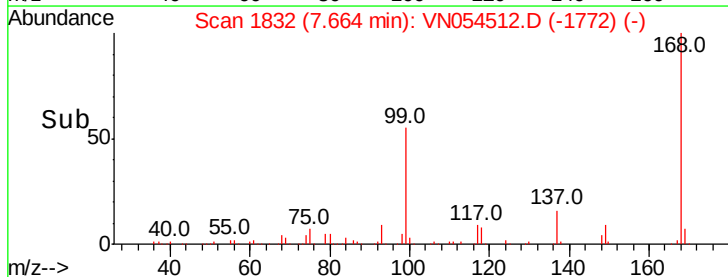
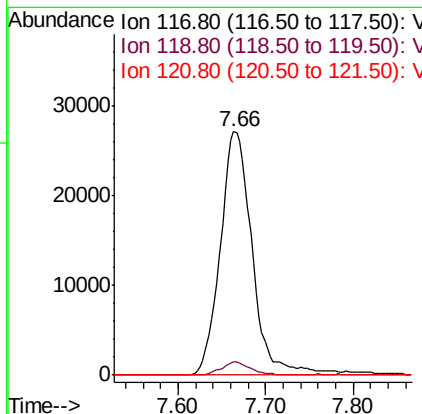
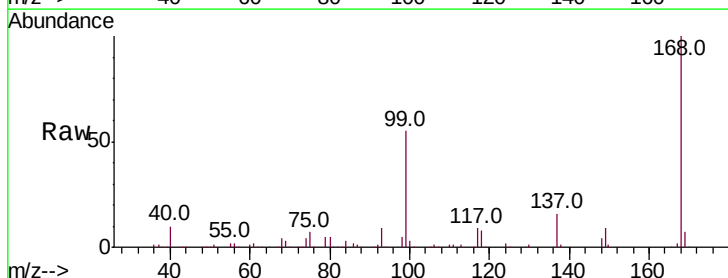
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 MSVOA_N
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 BPS1-TT-MW314I-20190314

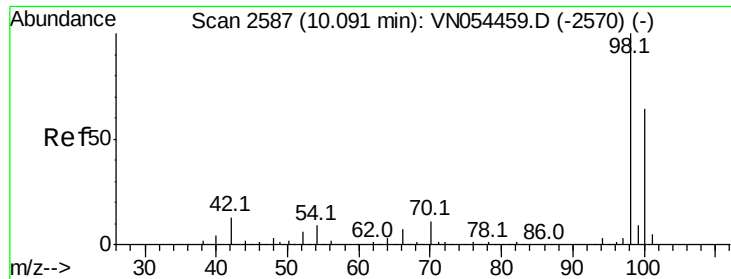
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.699 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054512.D
 Acq: 21 Mar 2019 15:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.3	114.5#
121	0.0	24.6	36.8#

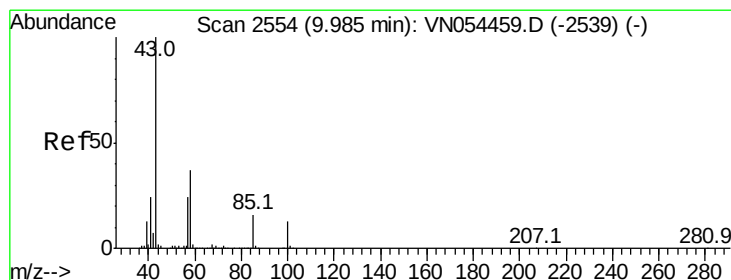
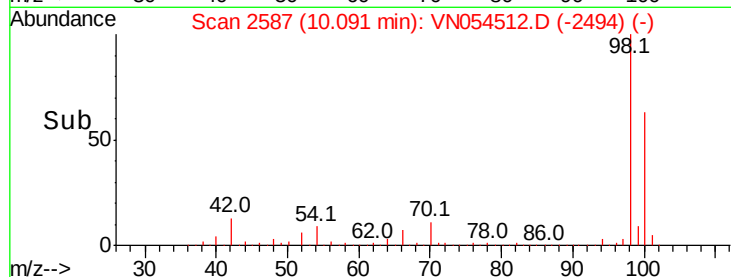
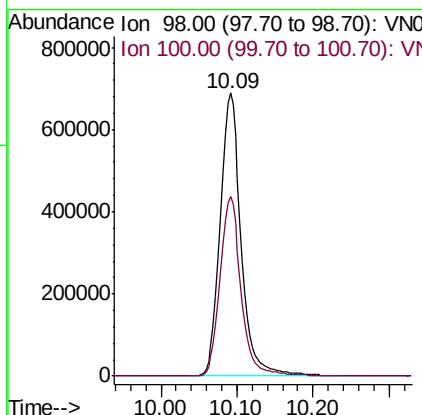
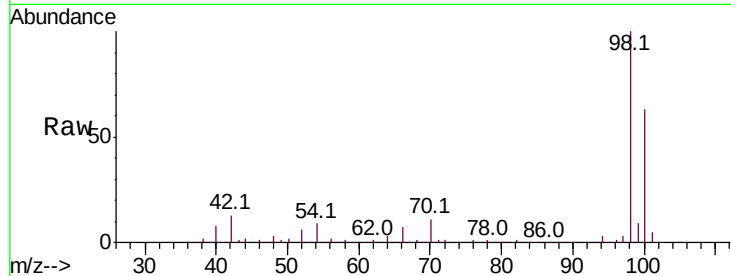




#50
Toluene-d8
Concen: 48.452 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054512.D
Acq: 21 Mar 2019 15:42

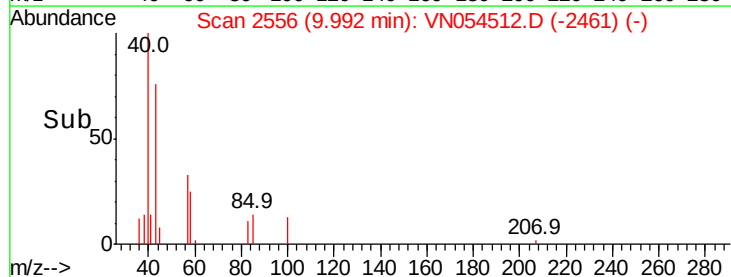
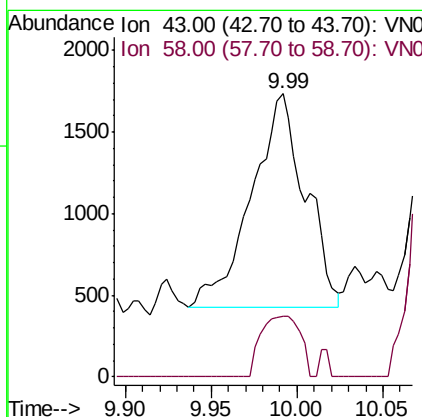
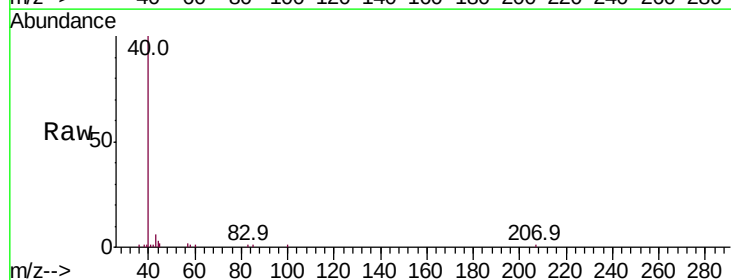
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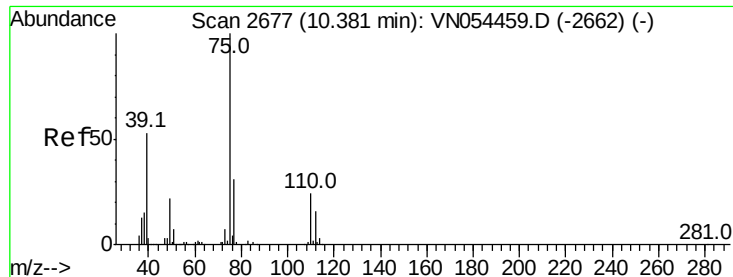
Tot Ion: 98 Resp: 1323654
Ion Ratio Lower Upper
98 100
100 63.8 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.406 ug/l
RT: 9.99 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN054512.D
Acq: 21 Mar 2019 15:42

Tgt Ion: 43 Resp: 2853
Ion Ratio Lower Upper
43 100
58 20.6 31.8 47.6#





#53

t-1,3-Dichloropropene

Concen: 2.248 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.01 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

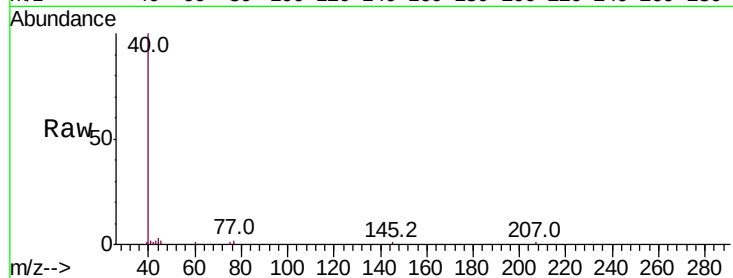
BPS1-TT-MW314I-20190314

Tot Ion: 75 Resp: 173

Ion Ratio Lower Upper

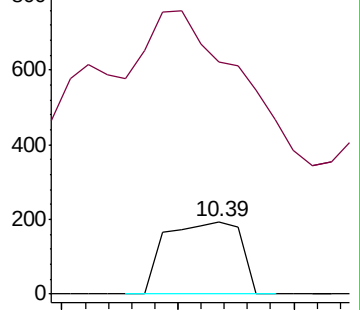
75 100

77 79.4 25.8 38.8#

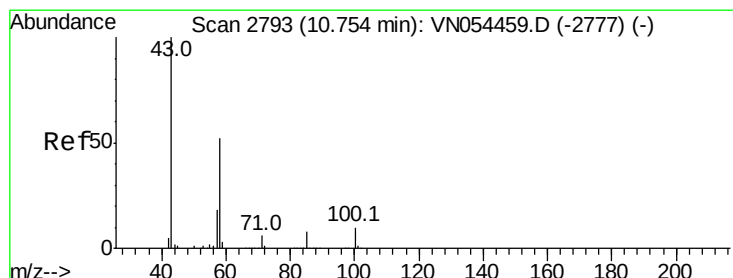
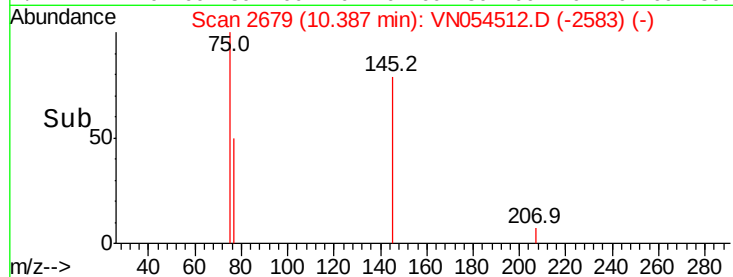


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



Time-->



#59

2-Hexanone

Concen: 0.600 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN054512.D

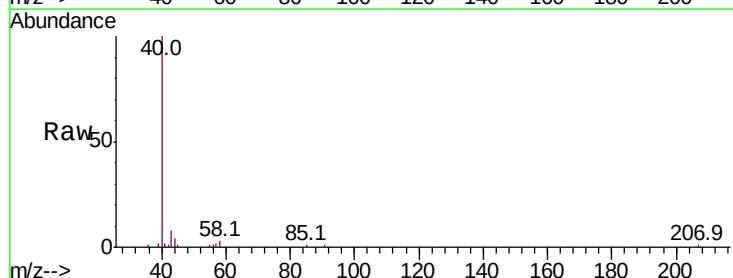
Acq: 21 Mar 2019 15:42

Tgt Ion: 43 Resp: 2750

Ion Ratio Lower Upper

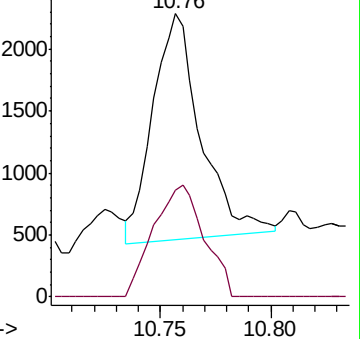
43 100

58 52.4 28.0 83.9

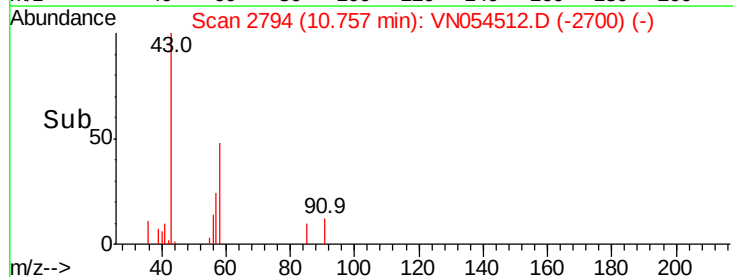


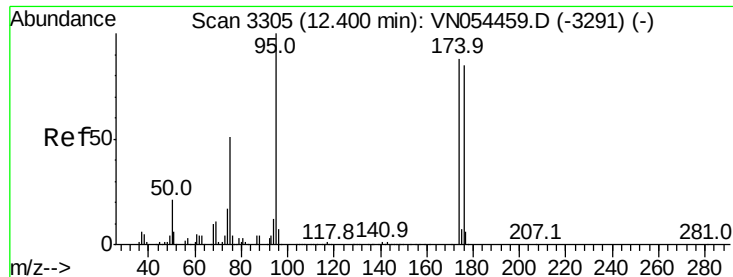
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

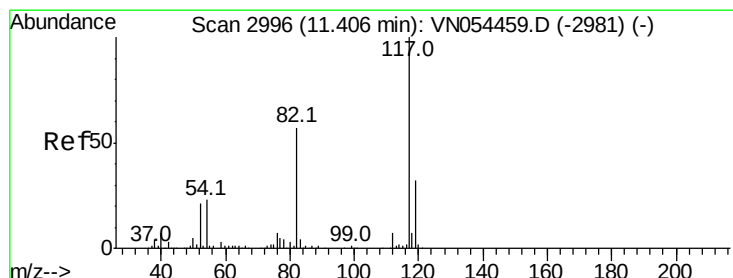
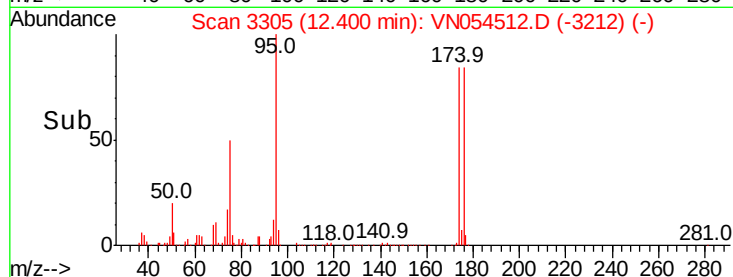
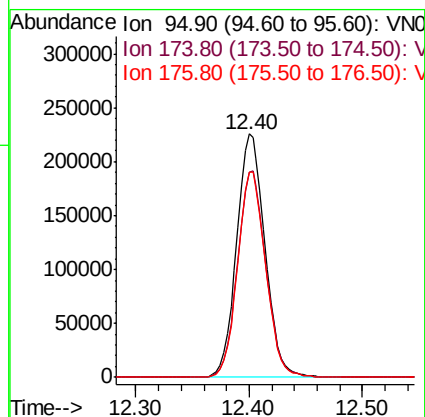
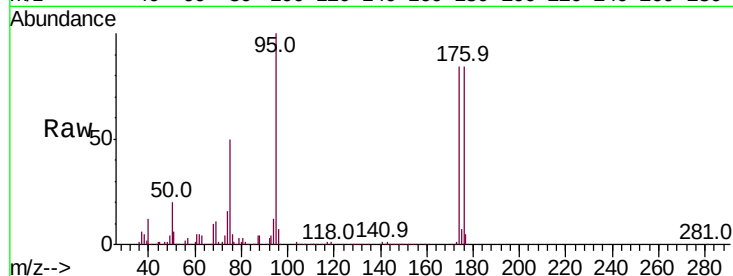




#62
4-Bromofluorobenzene
Concen: 42.111 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054512.D
Acq: 21 Mar 2019 15:42

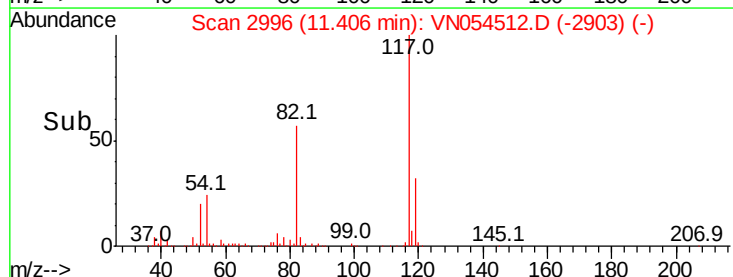
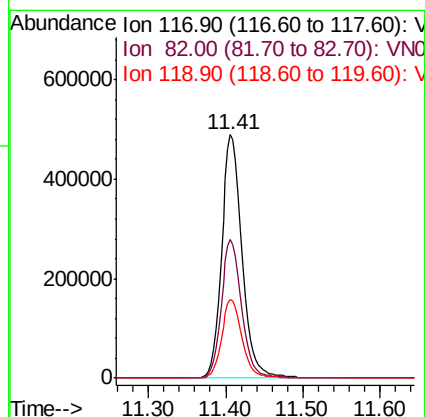
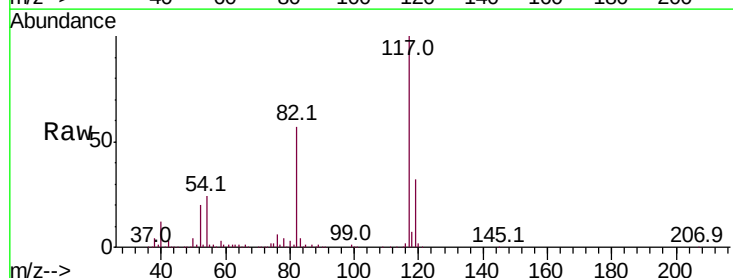
Instrument :
MSVOA_N
ClientSampleId :
BPS1-TT-MW314I-20190314

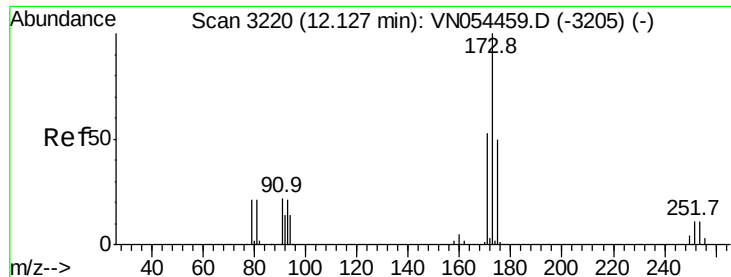
Tot Ion: 95 Resp: 391472
Ion Ratio Lower Upper
95 100
174 85.3 0.0 191.0
176 83.9 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054512.D
Acq: 21 Mar 2019 15:42

Tgt Ion: 117 Resp: 902535
Ion Ratio Lower Upper
117 100
82 56.8 40.0 60.0
119 32.4 25.8 38.6





#71

Bromoform

Concen: 2.240 ug/l

RT: 12.17 min Scan# 3235

Delta R.T. 0.05 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW314I-20190314

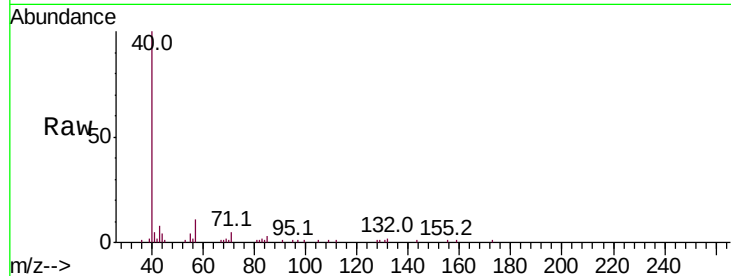
Tot Ion:173 Resp: 92

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

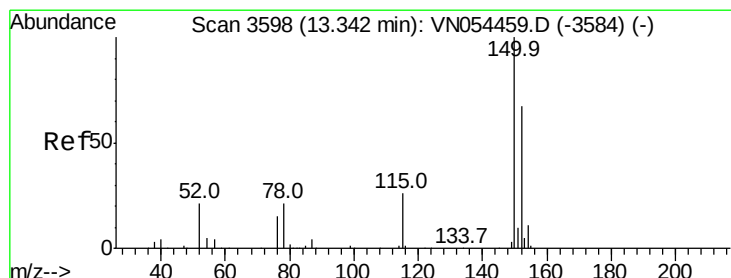
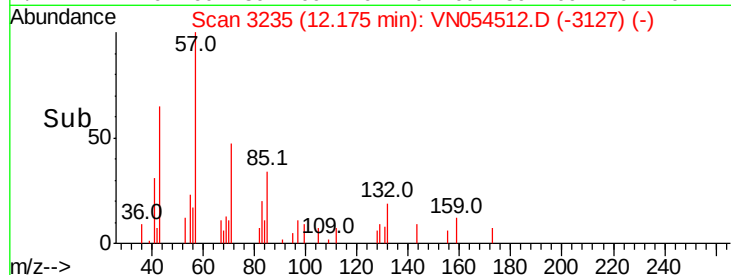
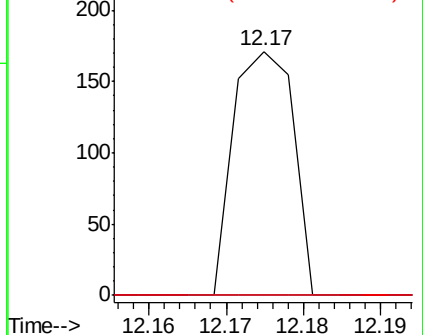
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

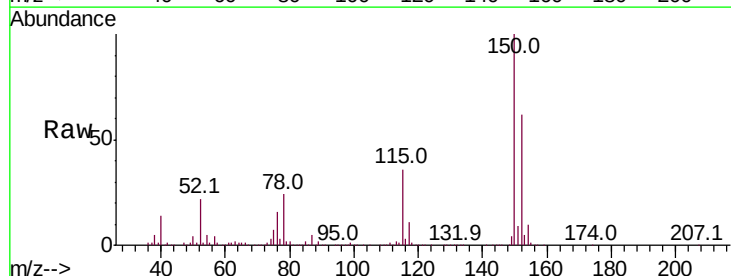
Tgt Ion:152 Resp: 311308

Ion Ratio Lower Upper

152 100

115 57.5 27.2 81.6

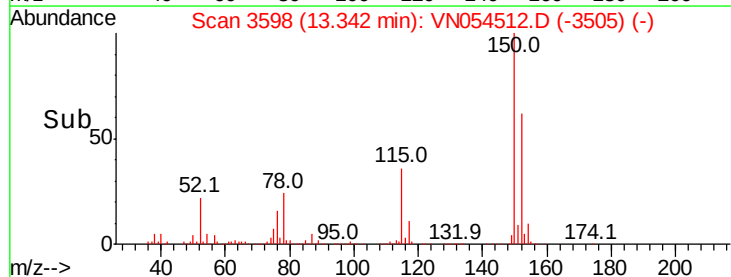
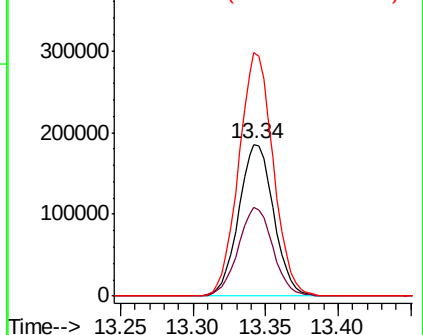
150 157.8 0.0 349.2

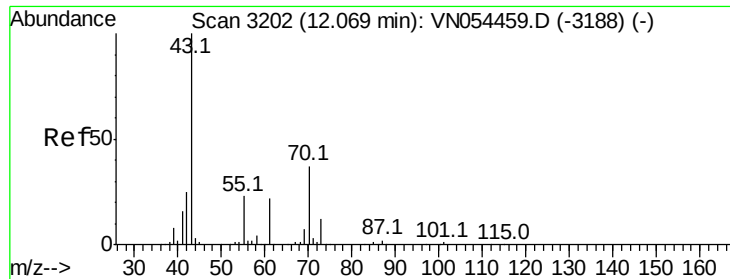


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 0.225 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW314I-20190314

Tot Ion: 43 Resp: 1621

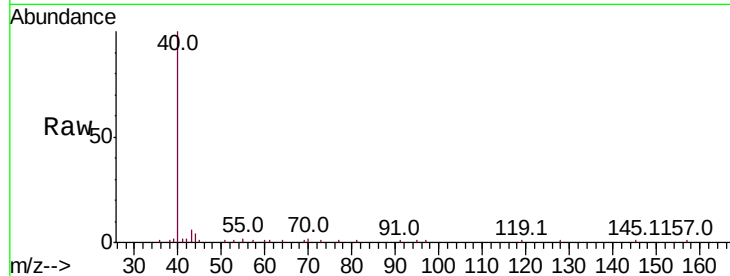
Ion Ratio Lower Upper

43 100

70 67.4 35.4 53.0#

55 20.2 19.8 29.6

61 22.4 19.8 29.6

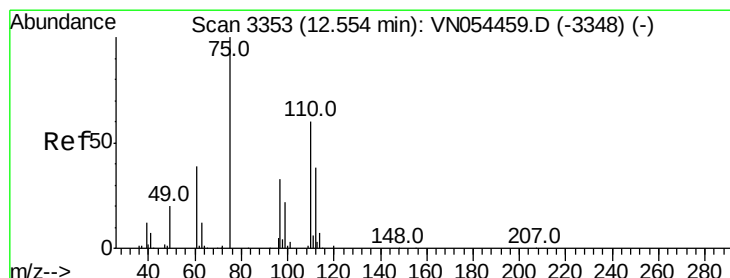
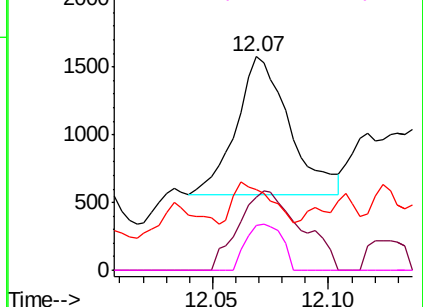
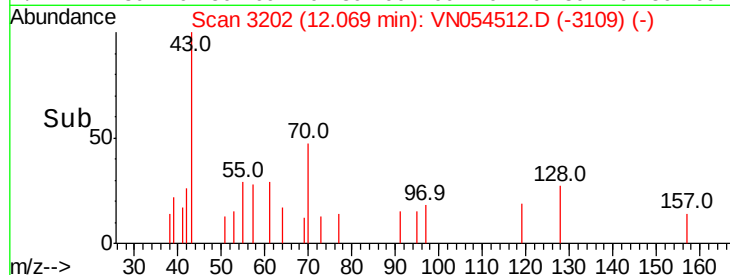


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 39.322 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054512.D

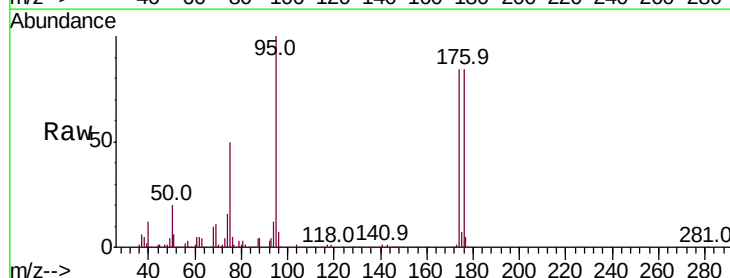
Acq: 21 Mar 2019 15:42

Tgt Ion: 75 Resp: 194248

Ion Ratio Lower Upper

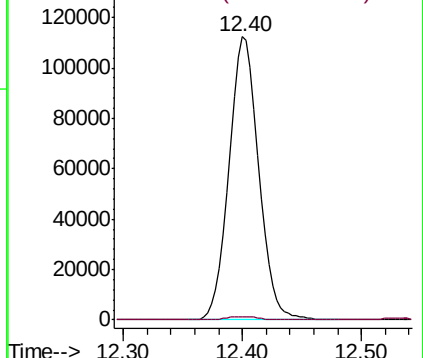
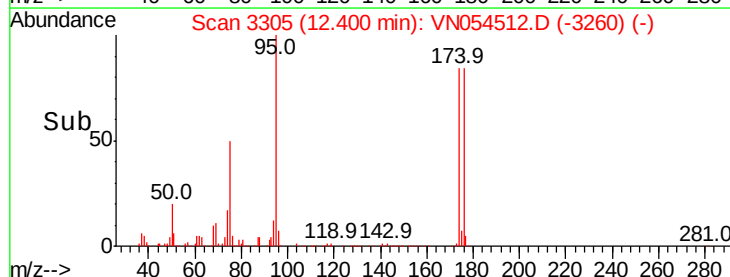
75 100

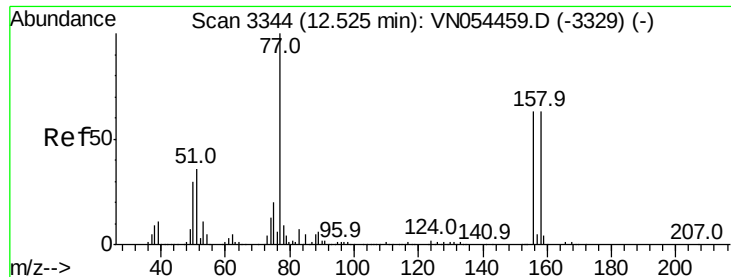
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 0.354 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW314I-20190314

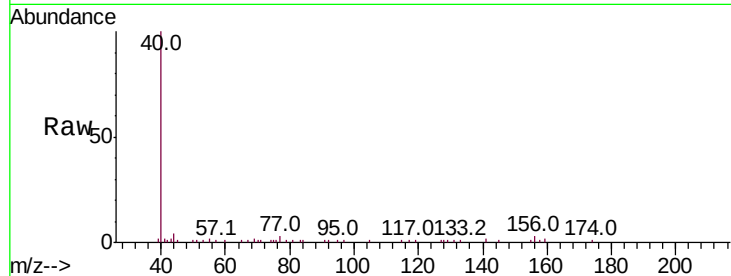
Tot Ion:156 Resp: 2204

Ion Ratio Lower Upper

156 100

77 65.6 81.5 244.4#

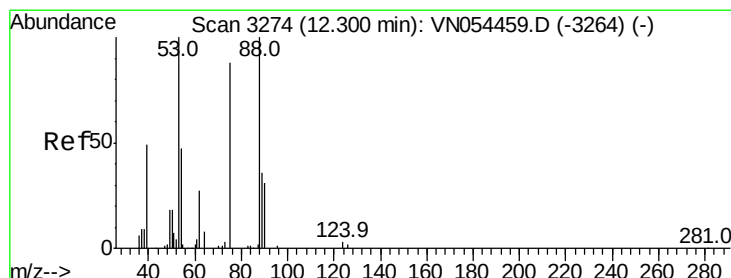
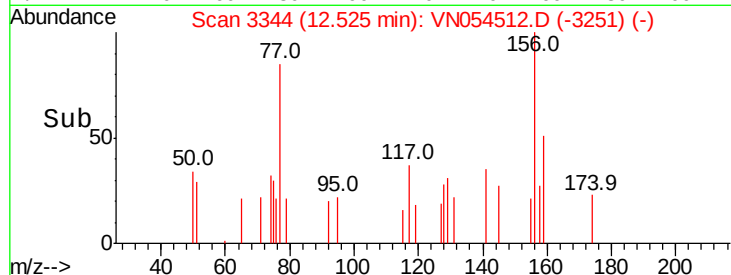
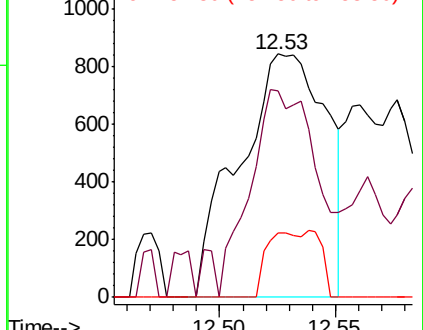
158 10.8 49.0 147.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 130.128 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

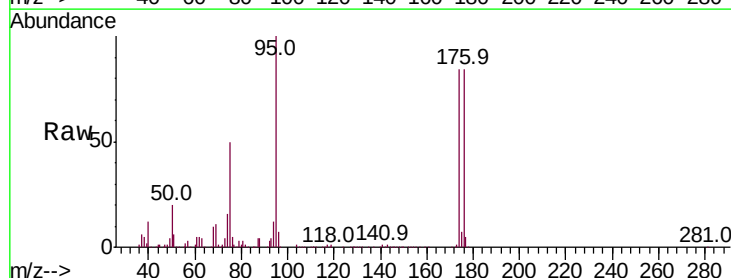
Tgt Ion: 75 Resp: 194248

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

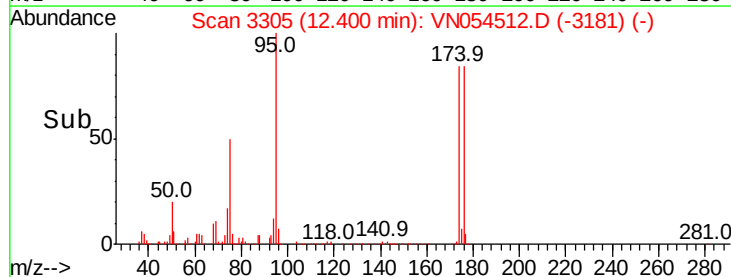
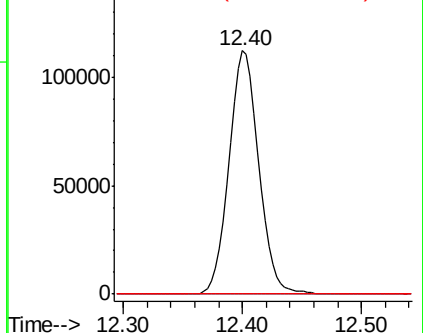
89 0.0 39.2 58.8#

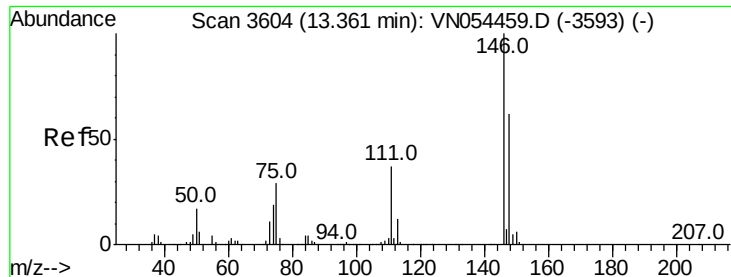


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

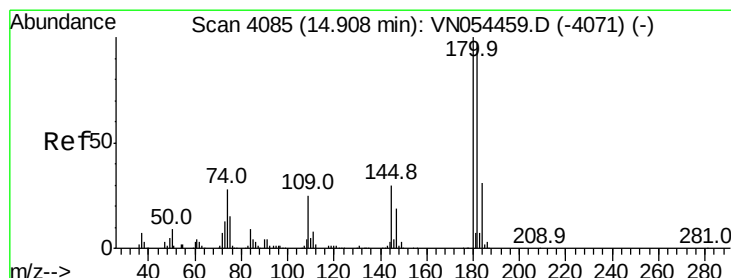
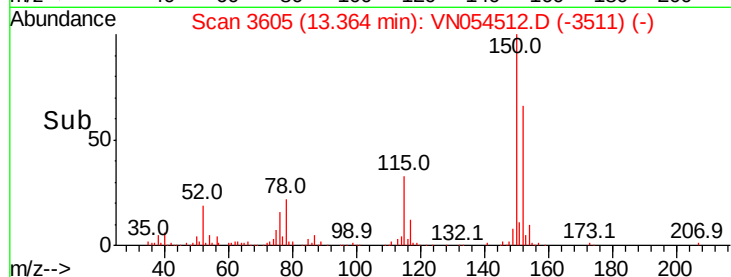
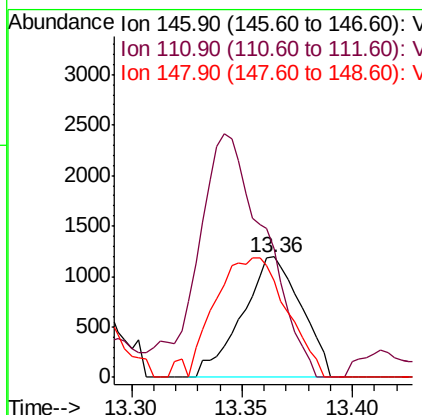
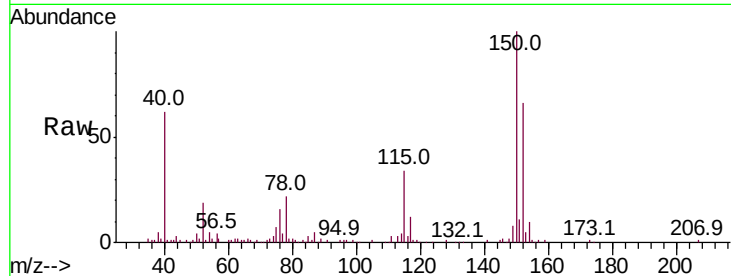




#88
 1,4-Dichlorobenzene
 Concen: 0.221 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054512.D
 Acq: 21 Mar 2019 15:42

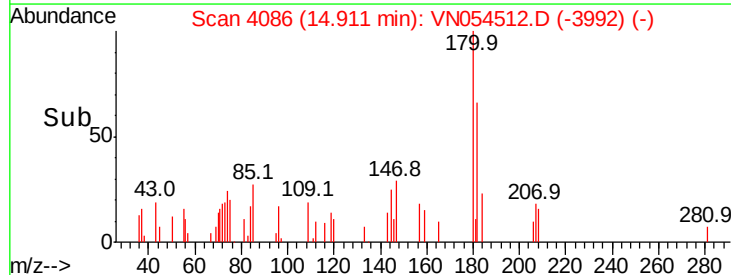
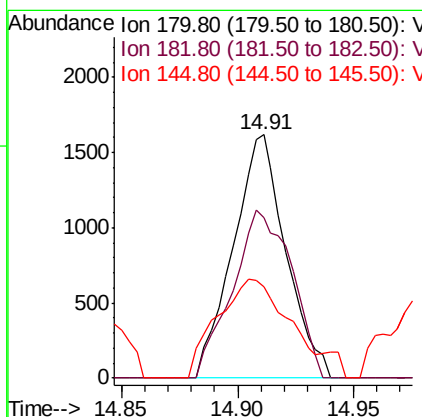
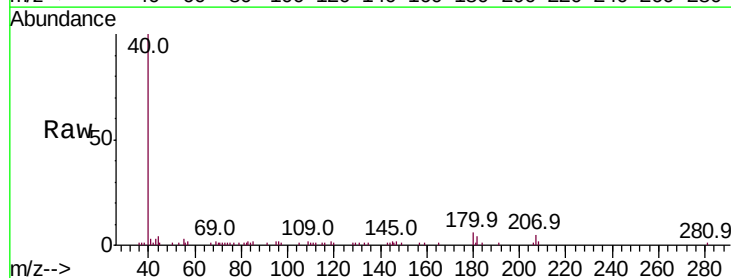
Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW314I-20190314

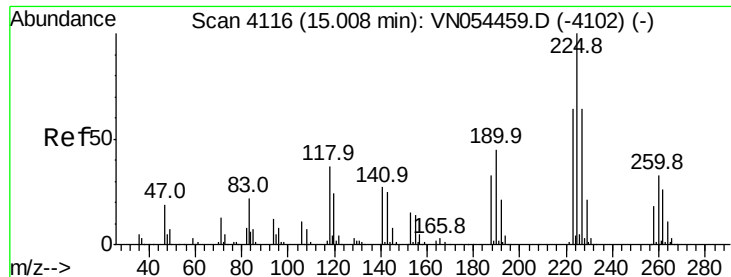
Tot Ion:146 Resp: 2219
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.1 54.1#
 148 122.2 32.0 96.0#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.512 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054512.D
 Acq: 21 Mar 2019 15:42

Tgt Ion:180 Resp: 2550
 Ion Ratio Lower Upper
 180 100
 182 77.7 48.0 144.2
 145 58.1 14.2 42.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW314I-20190314

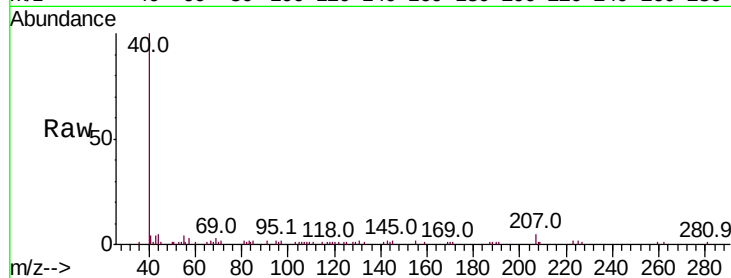
Tot Ion:225 Resp: 854

Ion Ratio Lower Upper

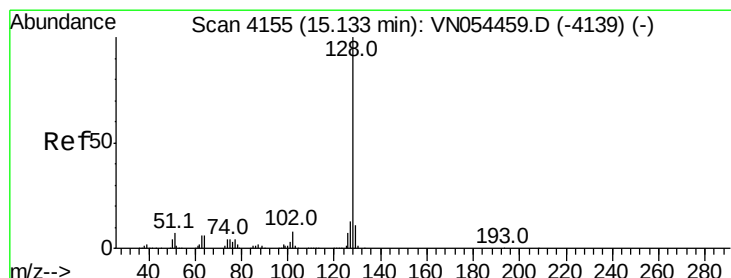
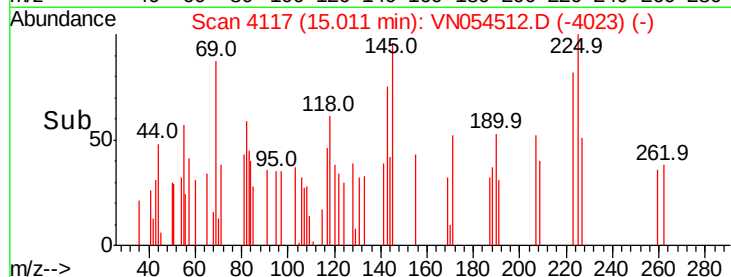
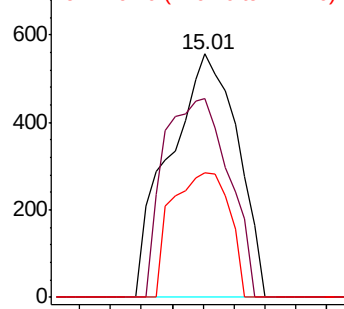
225 100

223 78.1 31.1 93.5

227 43.2 31.9 95.9



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: 0.991 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054512.D

Acq: 21 Mar 2019 15:42

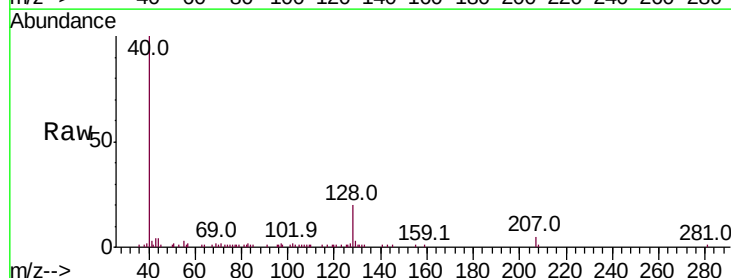
Tgt Ion:128 Resp: 11009

Ion Ratio Lower Upper

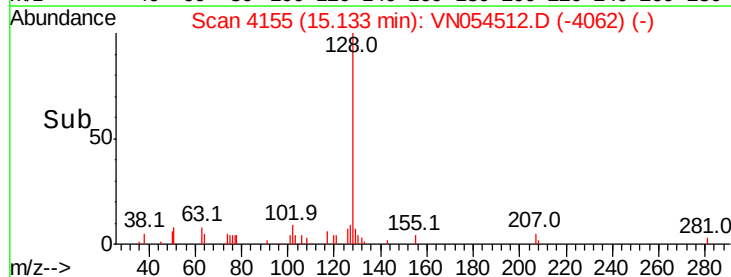
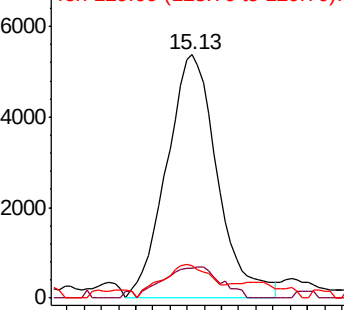
128 100

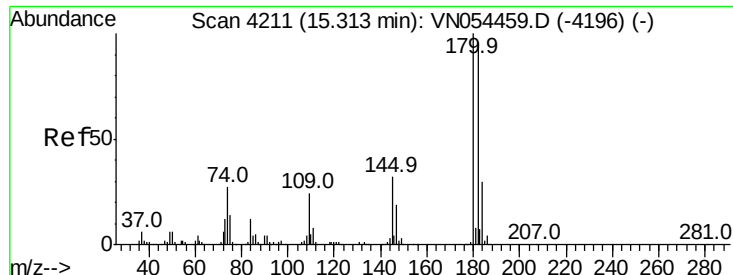
127 14.3 10.1 15.1

129 13.4 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: 0.547 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN054512.D
 Acq: 21 Mar 2019 15:42

Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW314I-20190314

Tot Ion:180 Resp: 2712
 Ion Ratio Lower Upper
 180 100
 182 103.1 47.5 142.6
 145 8.4 14.8 44.3#

