

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061119\
 Data File : VN056217.D
 Acq On : 11 Jun 2019 12:41
 Operator : JC/SP
 Sample : K3284-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW308I-20190609

Quant Time: Jun 12 06:33:10 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	303141	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	445948	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	441016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143848	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	158242	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
35) Dibromofluoromethane	7.59	113	147319	53.84	ug/l	0.00
Spiked Amount			Recovery	=	107.68%	
50) Toluene-d8	10.09	98	575205	54.63	ug/l	0.00
Spiked Amount			Recovery	=	109.26%	
62) 4-Bromofluorobenzene	12.40	95	183934	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	

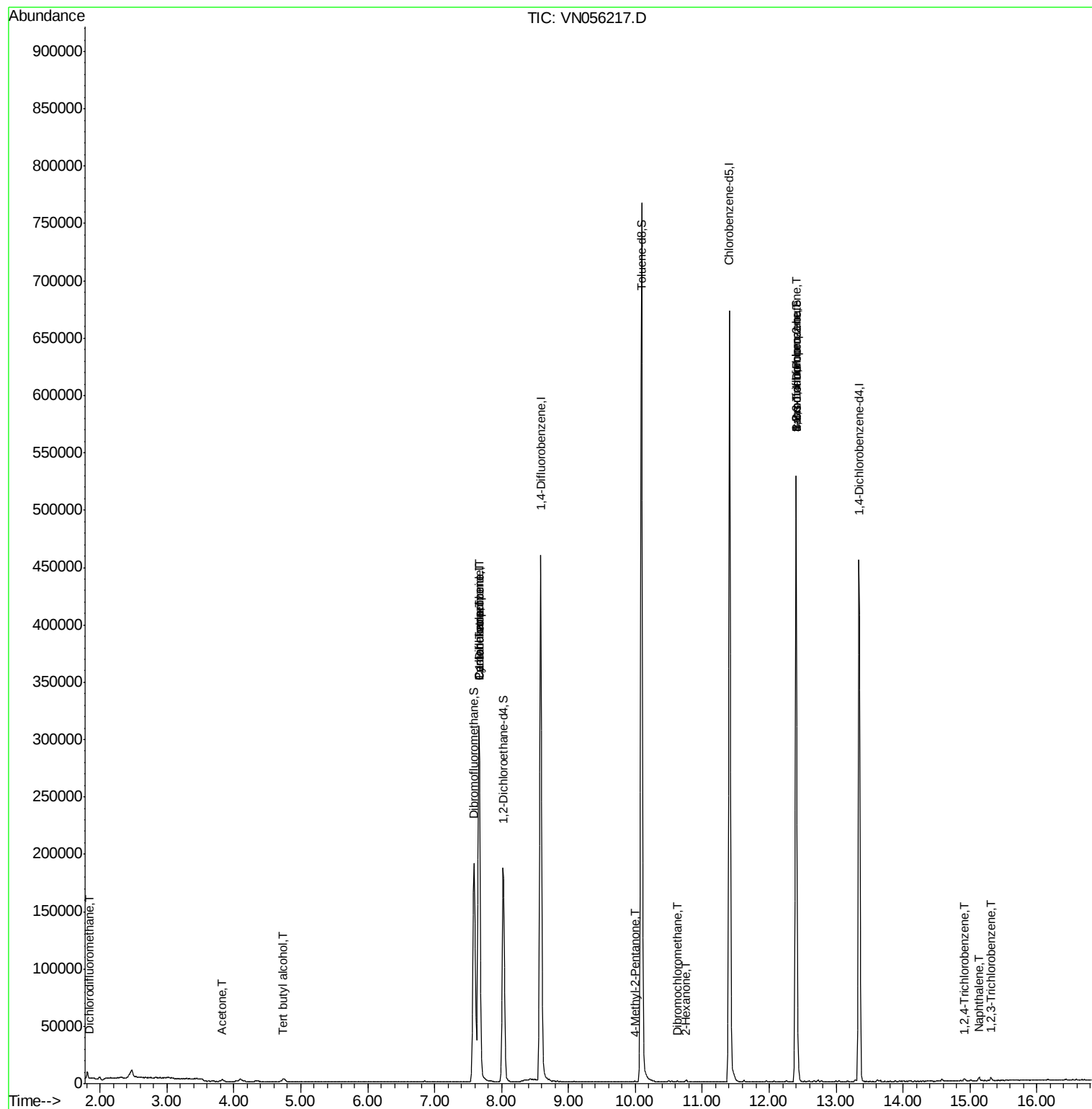
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	61	0.373	ug/l #	42
11) Tert butyl alcohol	4.72	59	1081	2.064	ug/l #	74
16) Acetone	3.82	43	3391	2.356	ug/l	96
18) Methyl Acetate	4.33	43	1615	Below Cal	#	51
31) Cyclohexane	7.66	56	4468	0.935	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16630	4.337	ug/l #	48
38) Carbon Tetrachloride	7.66	117	23929	6.769	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	896	0.259	ug/l #	35
59) 2-Hexanone	10.76	43	1553	0.620	ug/l	65
60) Dibromochloromethane	10.63	129	129	2.491	ug/l #	11
71) Bromoform	12.40	173	1482	3.293	ug/l #	1
73) Isopropylbenzene	12.25	105	653	Below Cal	#	65
76) 1,2,3-Trichloropropane	12.40	75	85030	32.125	ug/l #	100
79) 2-Chlorotoluene	12.78	91	946	Below Cal		69
81) trans-1,4-Dichloro-2-buten	12.40	75	85030	106.982	ug/l #	15
83) tert-Butylbenzene	12.99	119	639	Below Cal	#	61
93) 1,2,4-Trichlorobenzene	14.91	180	1082	4.643	ug/l	96
94) Hexachlorobutadiene	15.01	225	448	Below Cal		83
95) Naphthalene	15.14	128	4024	4.391	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.31	180	1423	3.526	ug/l	90

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

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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: VN056217.D

Acq: 11 Jun 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

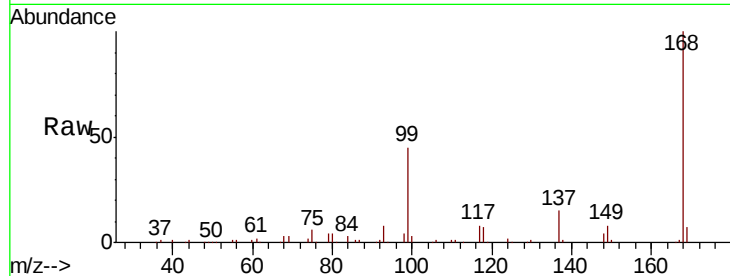
BPS1-TT-MW308I-20190609

Tot Ion:168 Resp: 303141

Ion Ratio Lower Upper

168 100

99 44.5 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) (-)

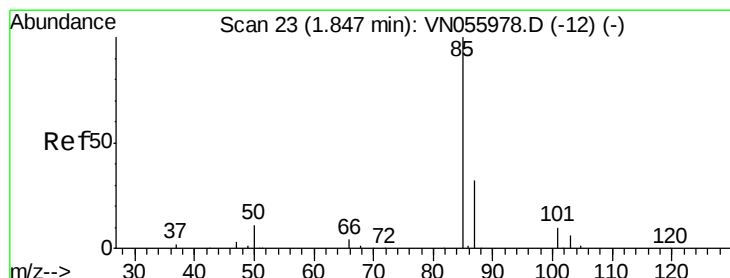
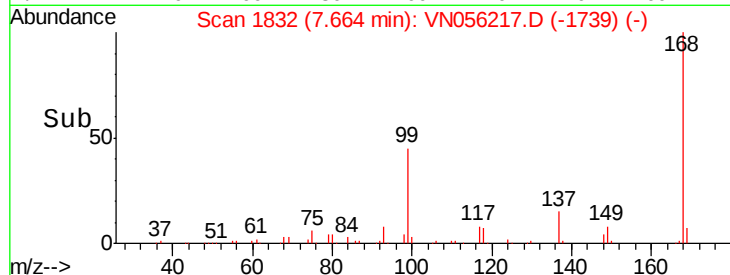
7.66

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 0.373 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056217.D

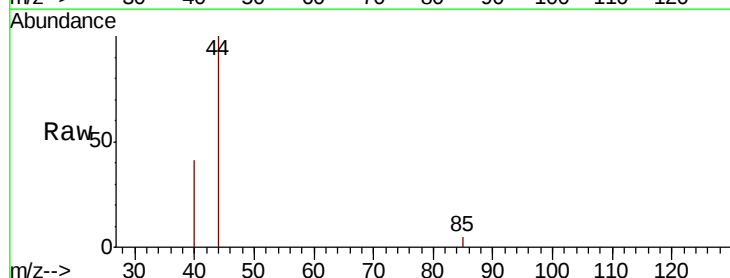
Acq: 11 Jun 2019 12:41

Tgt Ion: 85 Resp: 61

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VN055978.D (-12) (-)

Ion 86.90 (86.60 to 87.60): VN055978.D (-12) (-)

1.85

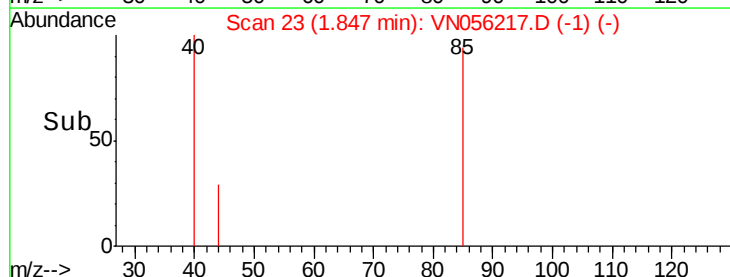
150

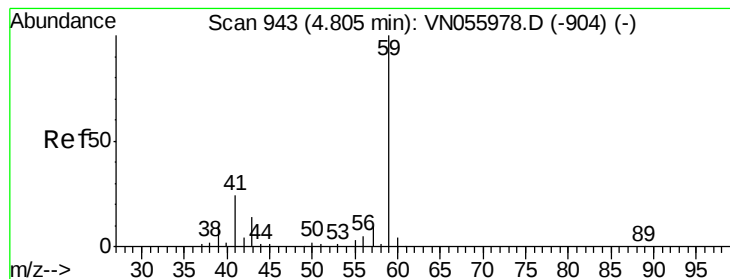
100

50

0

Time--> 1.84 1.85 1.86



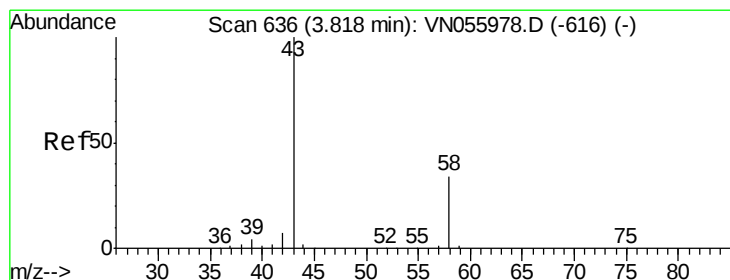
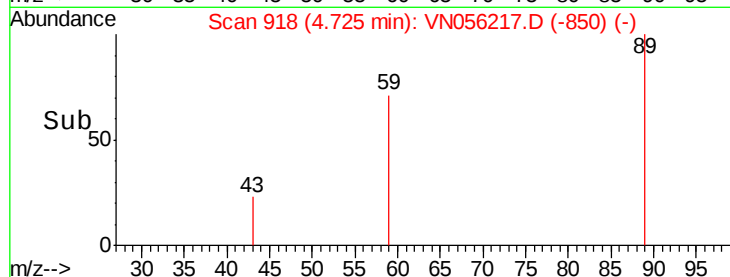
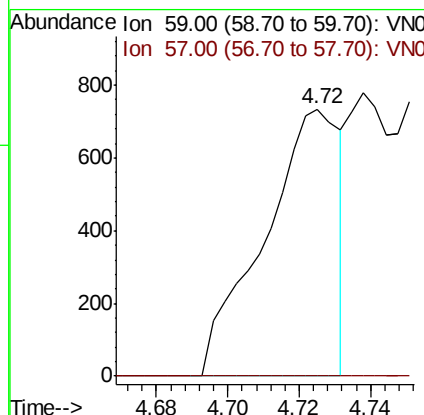
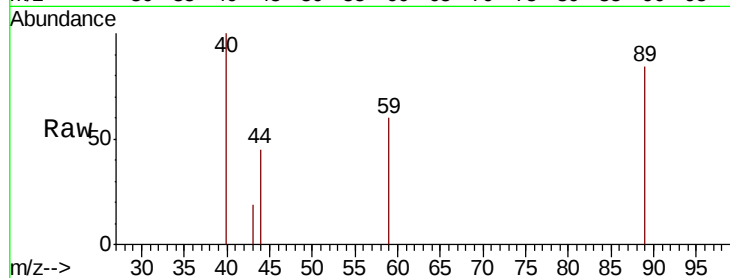


#11

Tert butyl alcohol
 Concen: 2.064 ug/l
 RT: 4.72 min Scan# 918
 Delta R.T. -0.08 min
 Lab File: VN056217.D
 Acq: 11 Jun 2019 12:41

Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW308I-20190609

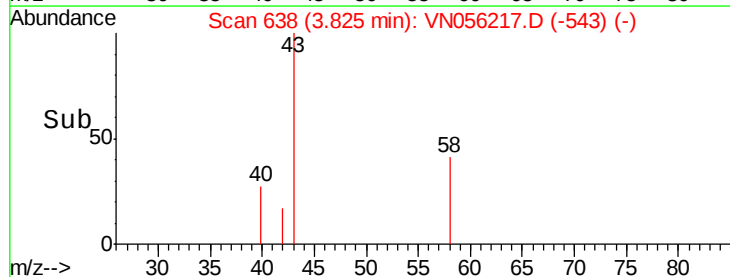
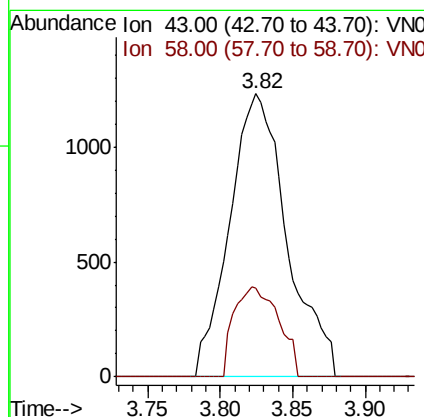
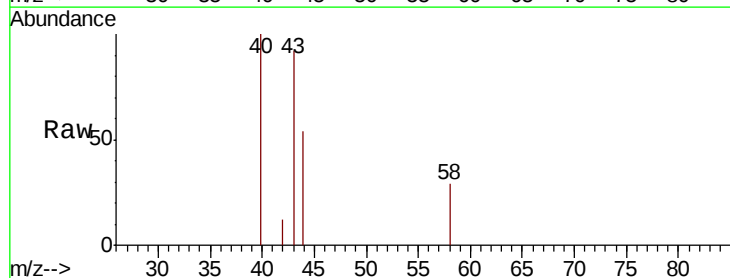
Tot Ion: 59 Resp: 1081
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

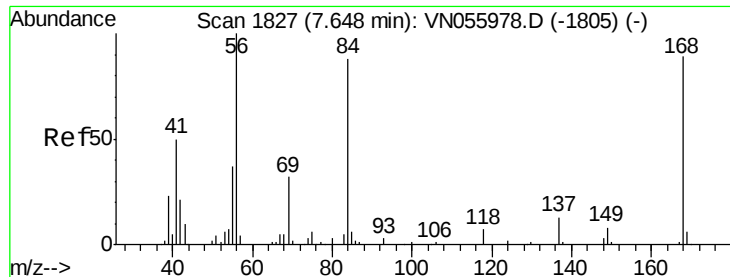


#16

Acetone
 Concen: 2.356 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN056217.D
 Acq: 11 Jun 2019 12:41

Tgt Ion: 43 Resp: 3391
 Ion Ratio Lower Upper
 43 100
 58 31.2 26.6 39.8

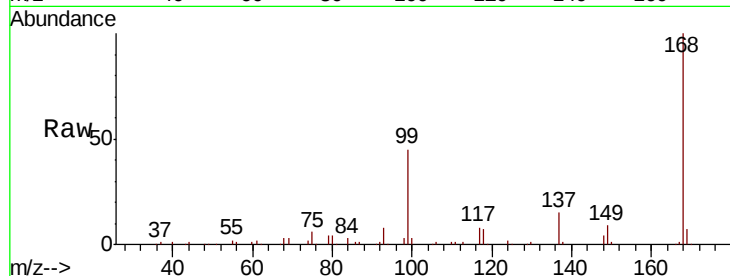




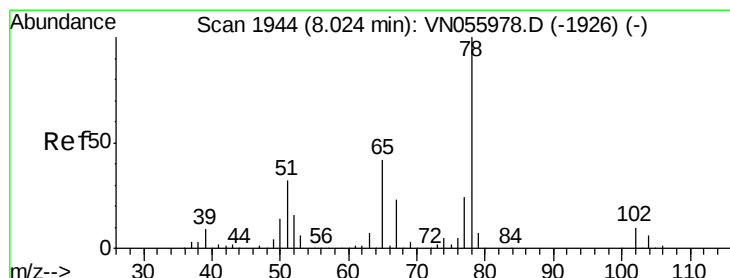
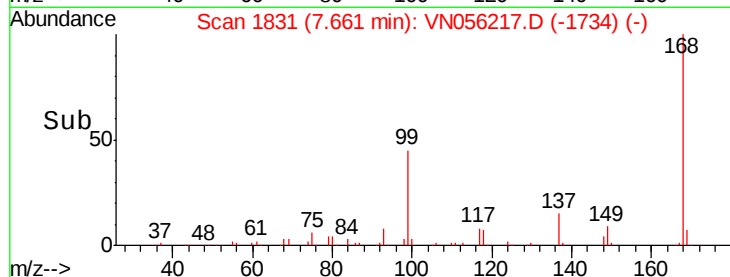
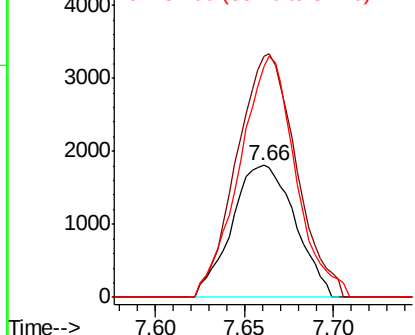
#31
Cyclohexane
Concen: 0.935 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056217.D
Acq: 11 Jun 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
BPS1-TT-MW308I-20190609

Tot Ion: 56 Resp: 4468
Ion Ratio Lower Upper
56 100
69 182.6 25.6 38.4#
84 174.8 67.4 101.0#

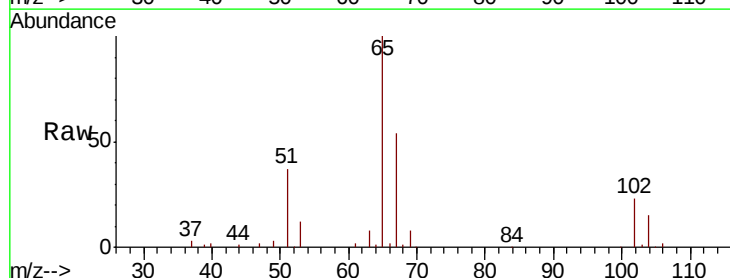


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

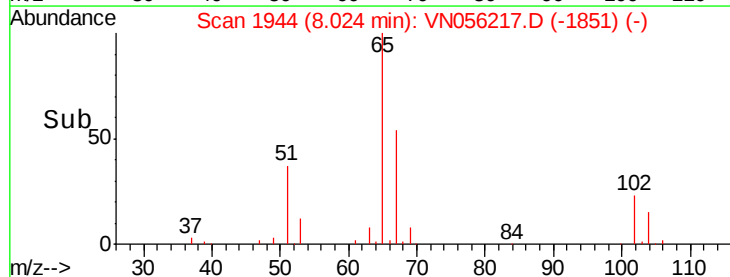
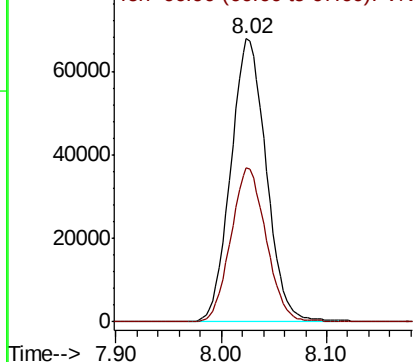


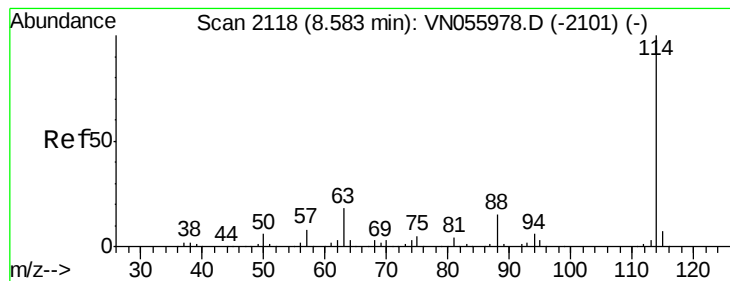
#33
1,2-Dichloroethane-d4
Concen: 52.573 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN056217.D
Acq: 11 Jun 2019 12:41

Tgt Ion: 65 Resp: 158242
Ion Ratio Lower Upper
65 100
67 54.0 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: VN056217.D

Acq: 11 Jun 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW308I-20190609

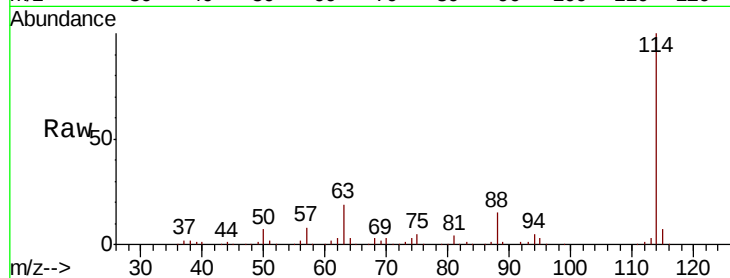
Tot Ion:114 Resp: 445948

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.2

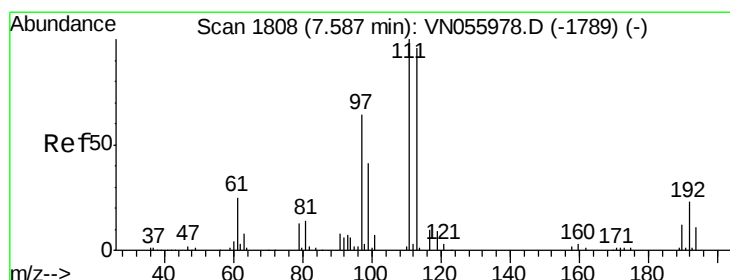
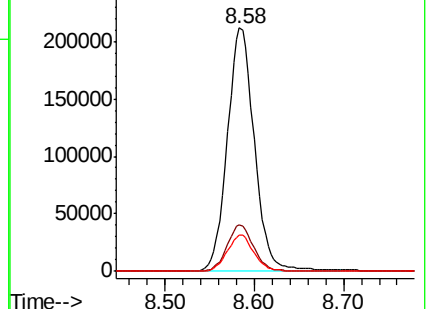
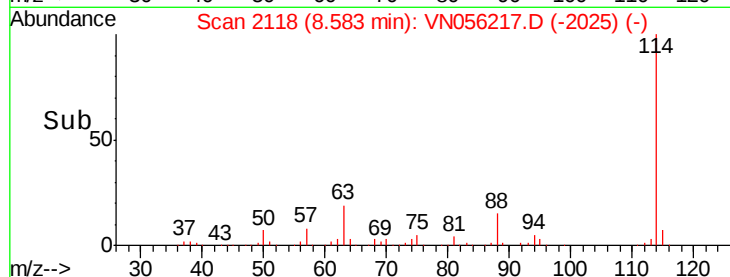
88 14.7 0.0 31.0



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: 53.844 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056217.D

Acq: 11 Jun 2019 12:41

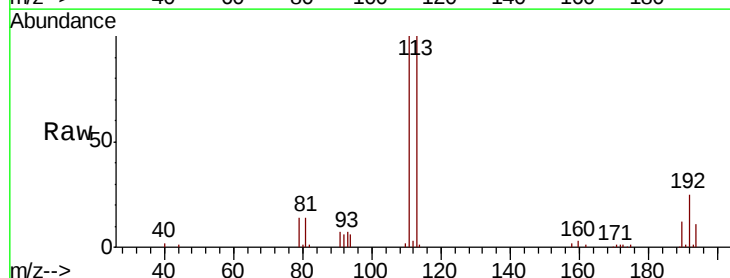
Tgt Ion:113 Resp: 147319

Ion Ratio Lower Upper

113 100

111 100.7 81.9 122.9

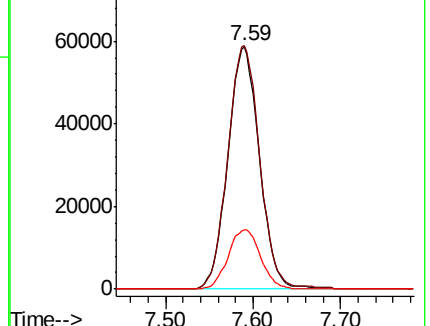
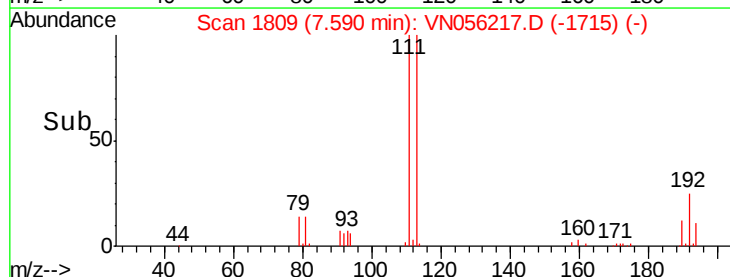
192 25.2 19.5 29.3

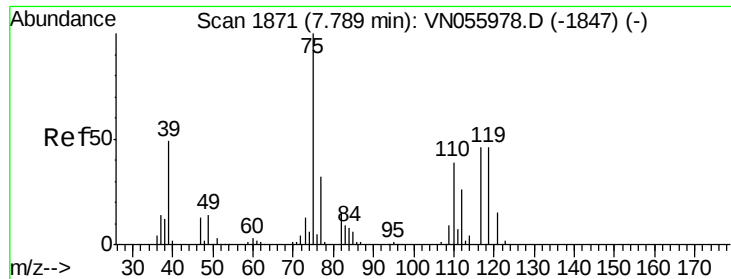


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

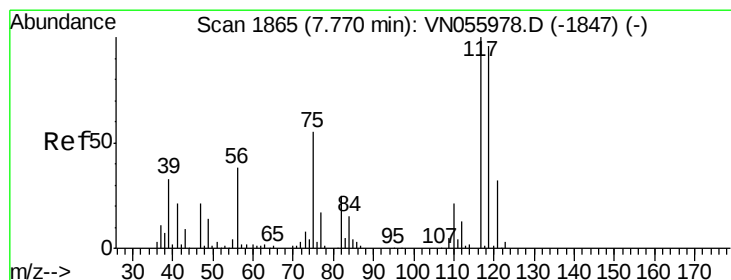
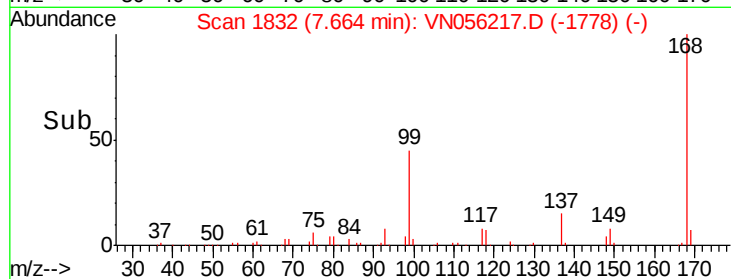
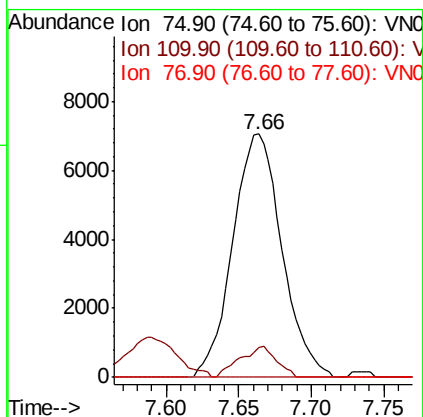
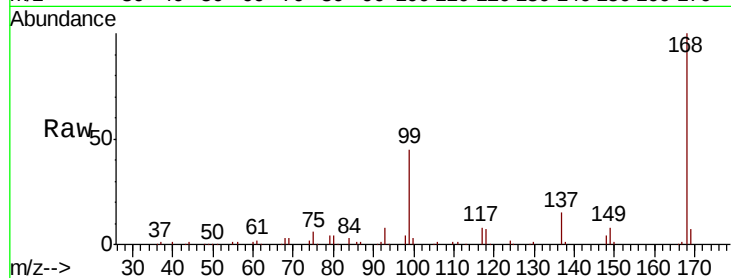




#36
 1,1-Dichloropropene
 Concen: 4.337 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056217.D
 Acq: 11 Jun 2019 12:41

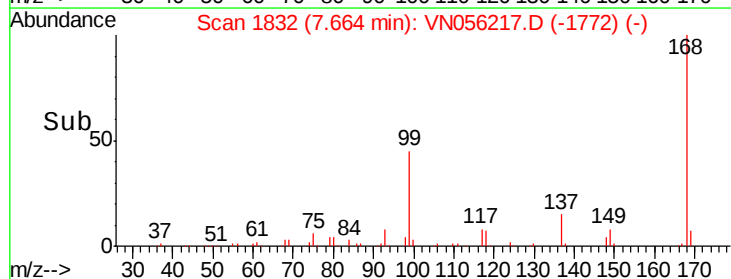
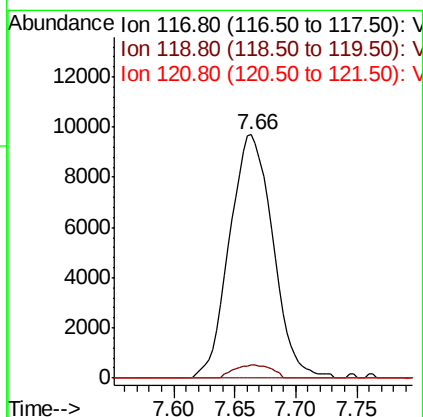
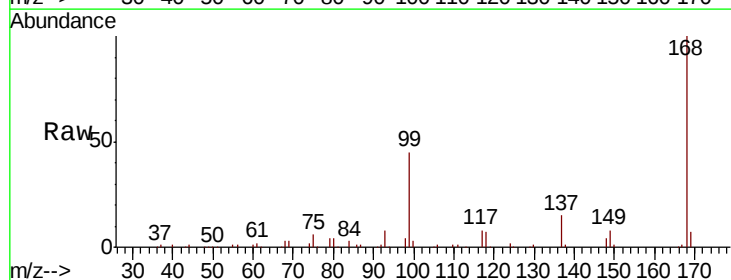
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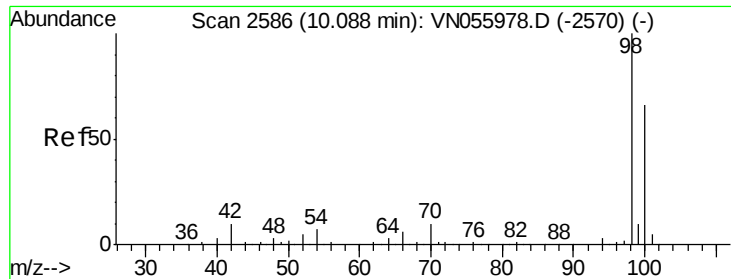
Tot Ion	75	Resp	16630
Ion Ratio	Lower	Upper	
75	100		
110	9.5	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.769 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056217.D
 Acq: 11 Jun 2019 12:41

Tgt Ion	117	Resp	23929
Ion Ratio	Lower	Upper	
117	100		
119	5.4	79.0	118.6#
121	0.0	24.7	37.1#





#50

Toluene-d8

Concen: 54.634 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056217.D

Acq: 11 Jun 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

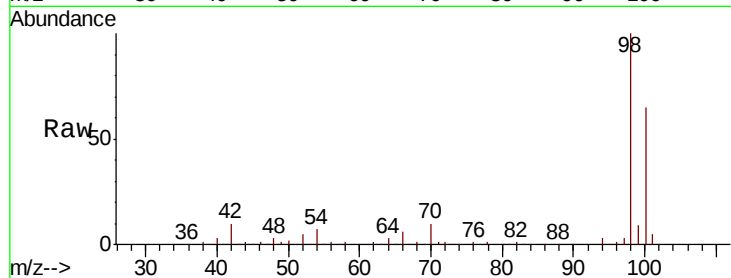
BPS1-TT-MW308I-20190609

Tot Ion: 98 Resp: 575205

Ion Ratio Lower Upper

98 100

100 64.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

300000

200000

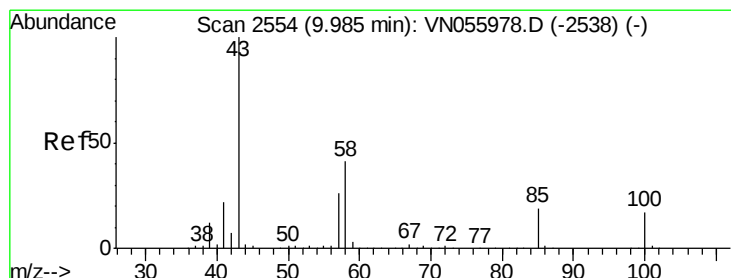
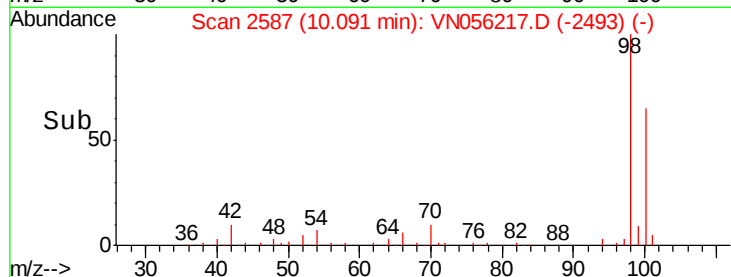
100000

0

Time-->

10.00 10.10 10.20

10.09



#51

4-Methyl-2-Pentanone

Concen: 0.259 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN056217.D

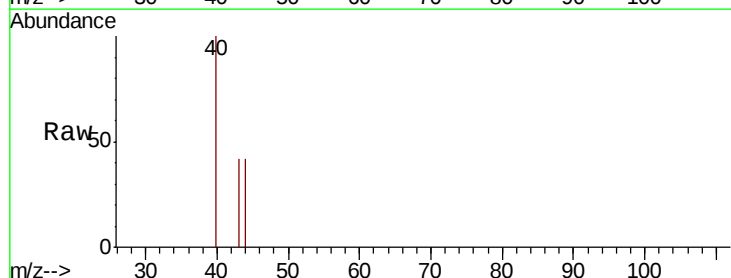
Acq: 11 Jun 2019 12:41

Tgt Ion: 43 Resp: 896

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

600

500

400

300

200

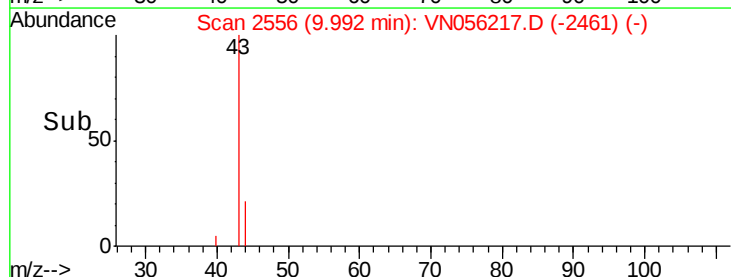
100

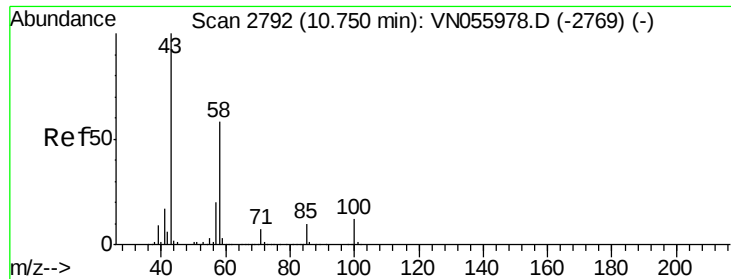
0

Time-->

9.95 10.00

9.99

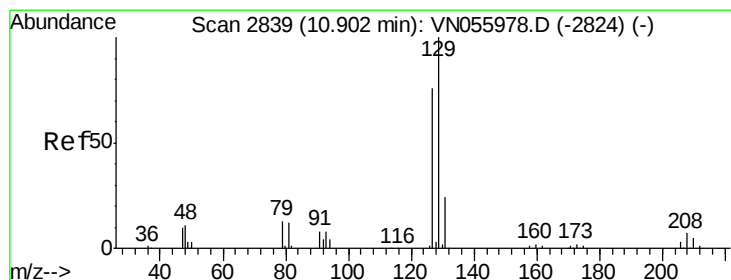
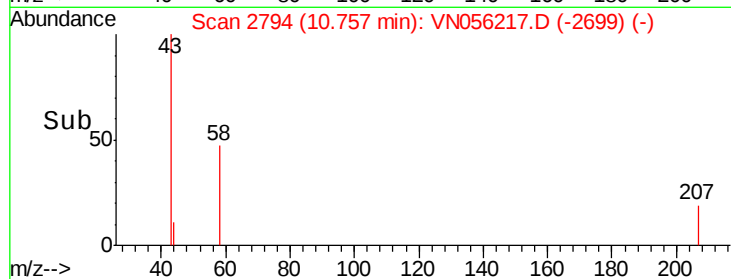
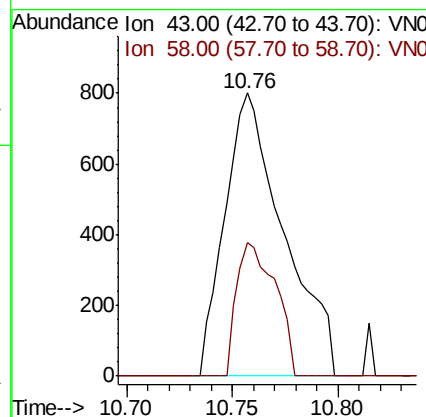
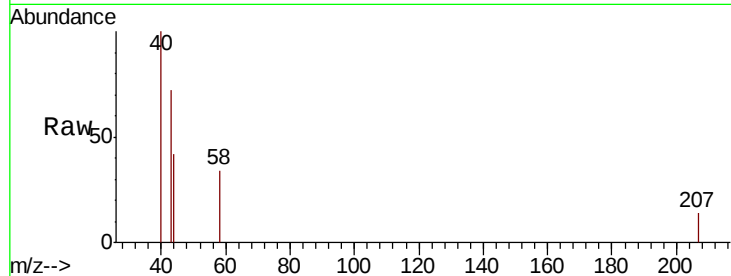




#59
2-Hexanone
Concen: 0.620 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN056217.D
Acq: 11 Jun 2019 12:41

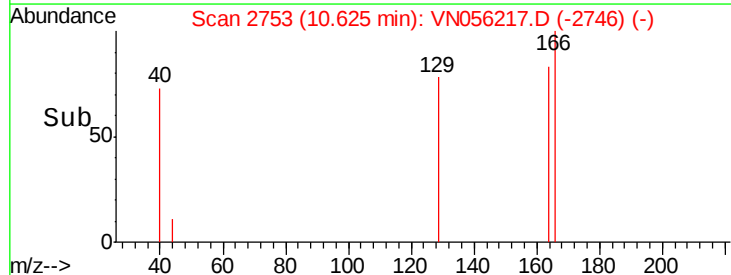
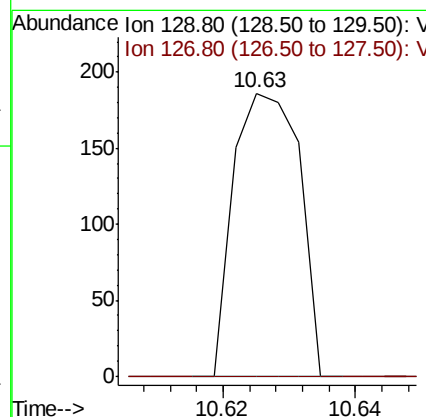
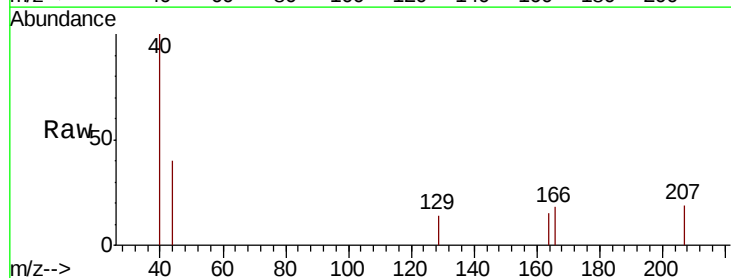
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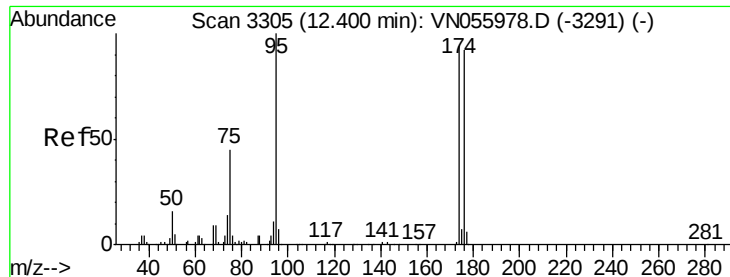
Tot Ion: 43 Resp: 1553
Ion Ratio Lower Upper
43 100
58 31.1 28.2 84.7



#60
Dibromochloromethane
Concen: 2.491 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.28 min
Lab File: VN056217.D
Acq: 11 Jun 2019 12:41

Tgt Ion: 129 Resp: 129
Ion Ratio Lower Upper
129 100
127 0.0 38.1 114.3#





#62

4-Bromofluorobenzene

Concen: 51.372 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056217.D

Acq: 11 Jun 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW308I-20190609

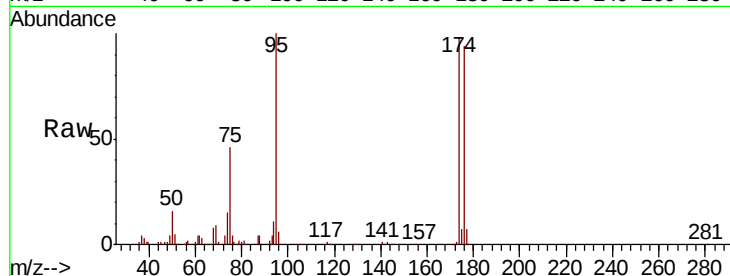
Tot Ion: 95 Resp: 183934

Ion Ratio Lower Upper

95 100

174 99.7 0.0 191.0

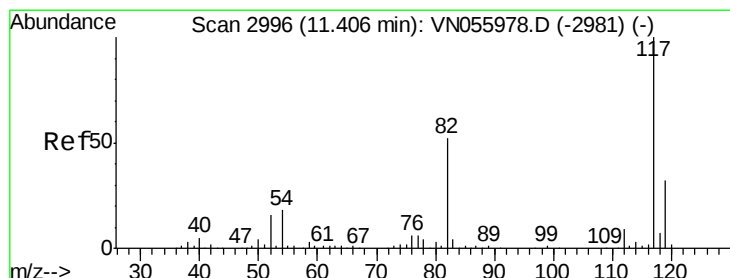
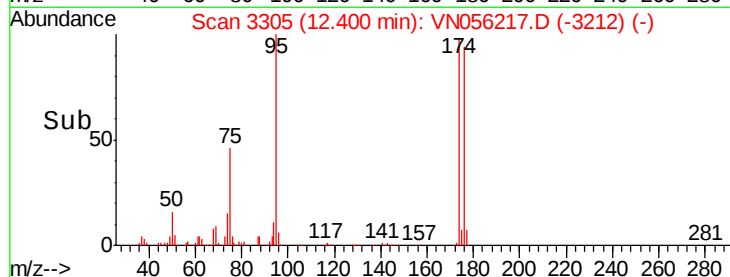
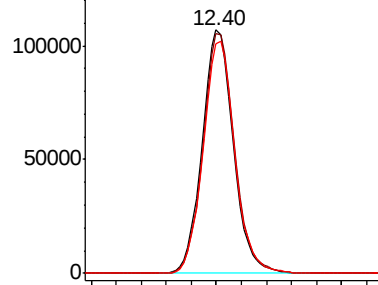
176 96.8 0.0 185.2



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

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

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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056217.D

Acq: 11 Jun 2019 12:41

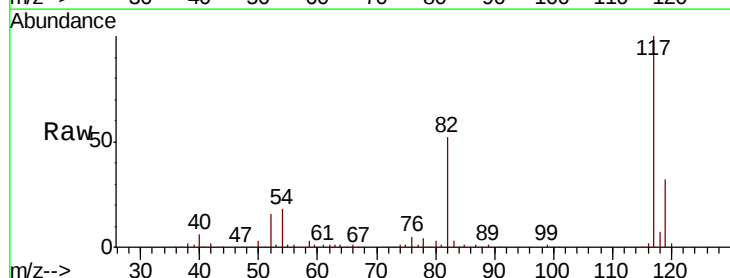
Tgt Ion: 117 Resp: 441016

Ion Ratio Lower Upper

117 100

82 51.6 41.8 62.8

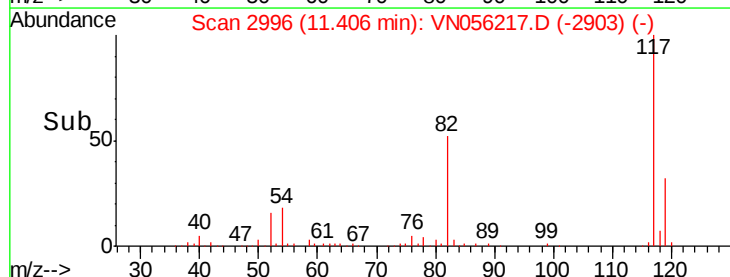
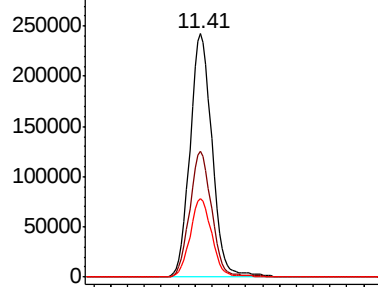
119 32.4 25.4 38.0

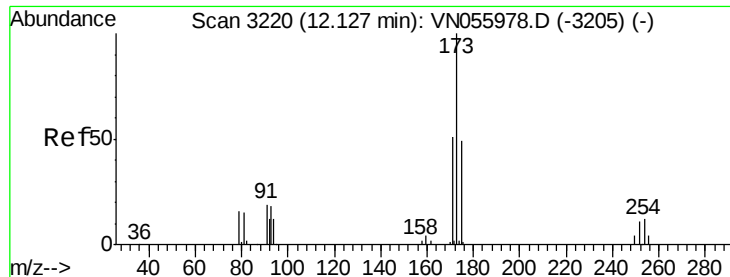


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

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

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

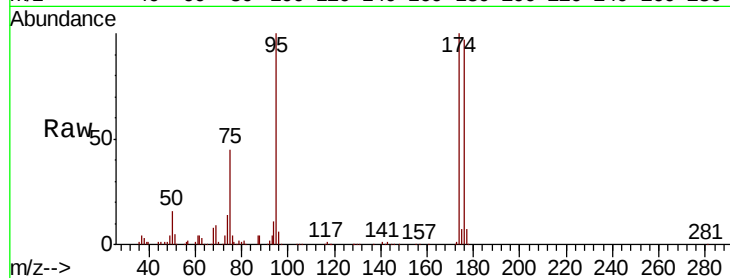




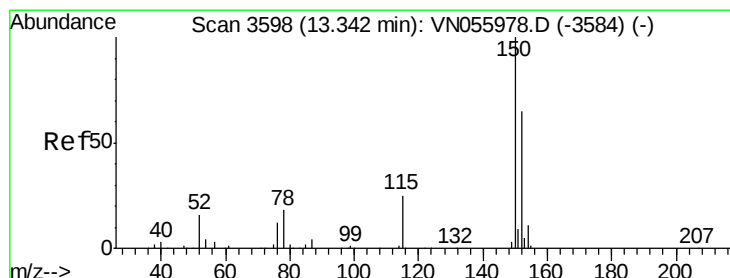
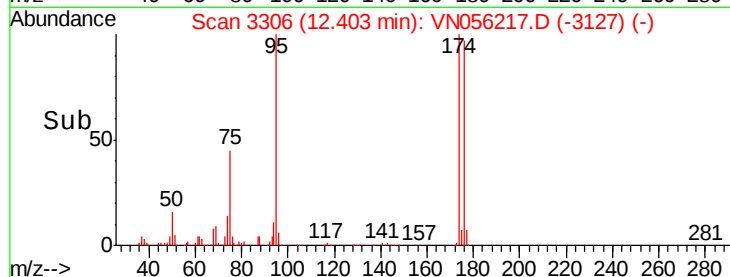
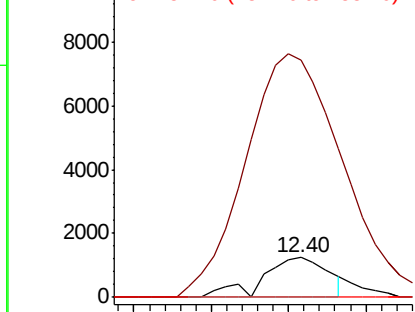
#71
Bromoform
Concen: 3.293 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056217.D
Acq: 11 Jun 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
BPS1-TT-MW308I-20190609

Tot Ion:173 Resp: 1482
Ion Ratio Lower Upper
173 100
175 764.6 24.3 72.8#
254 0.0 0.0 0.0

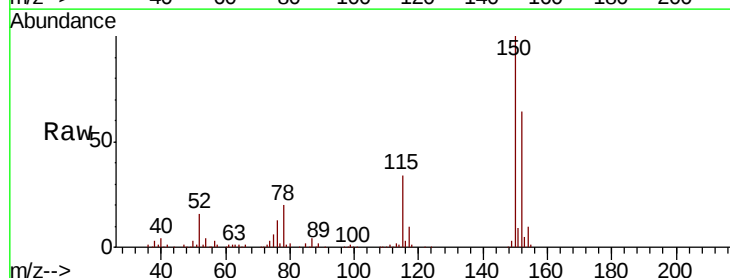


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

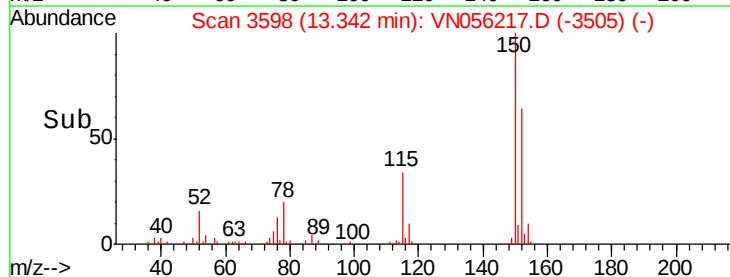
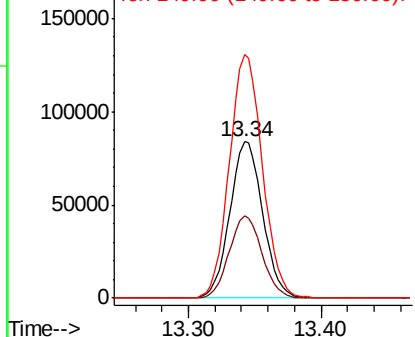


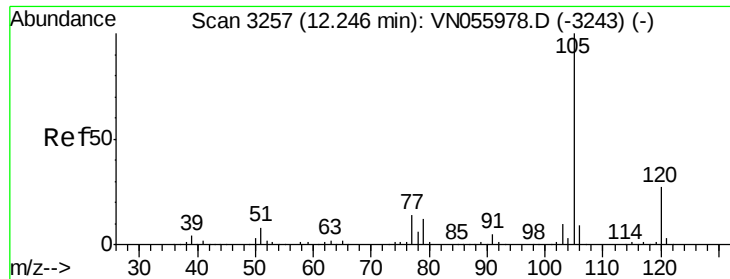
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056217.D
Acq: 11 Jun 2019 12:41

Tgt Ion:152 Resp: 143848
Ion Ratio Lower Upper
152 100
115 52.7 27.0 81.0
150 157.1 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# 3259

Delta R.T. 0.01 min

Lab File: VN056217.D

Acq: 11 Jun 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

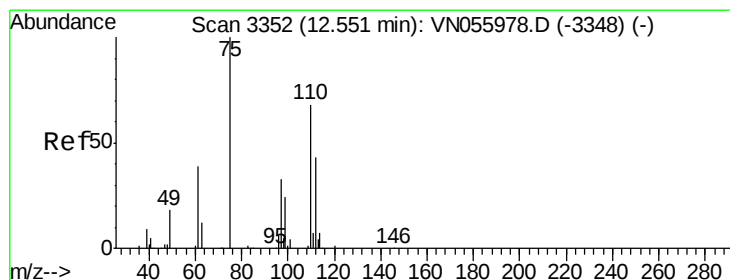
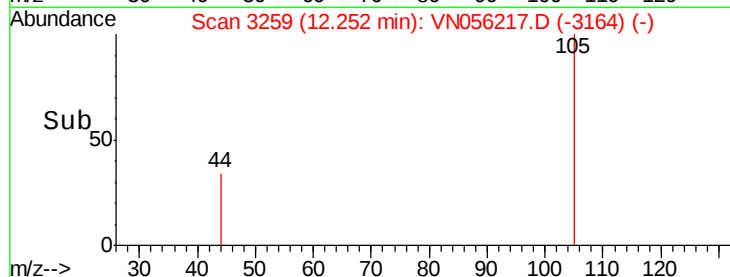
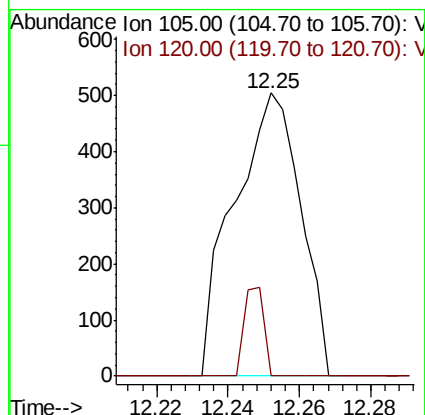
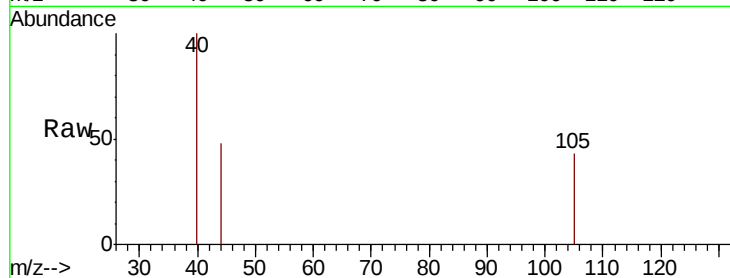
BPS1-TT-MW308I-20190609

Tot Ion: 105 Resp: 653

Ion Ratio Lower Upper

105 100

120 9.2 13.6 40.7#



#76

1,2,3-Trichloropropane

Concen: 32.125 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056217.D

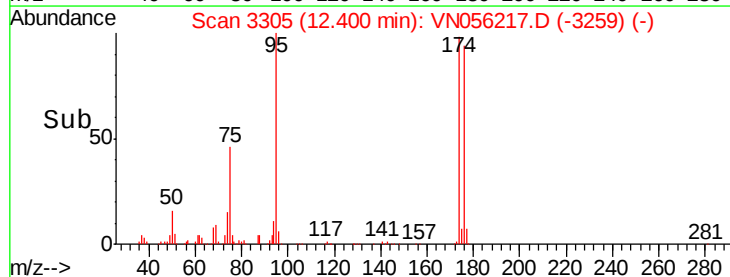
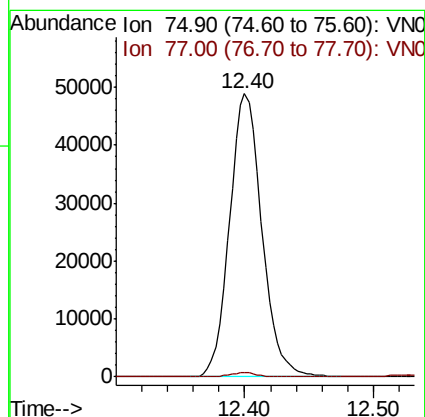
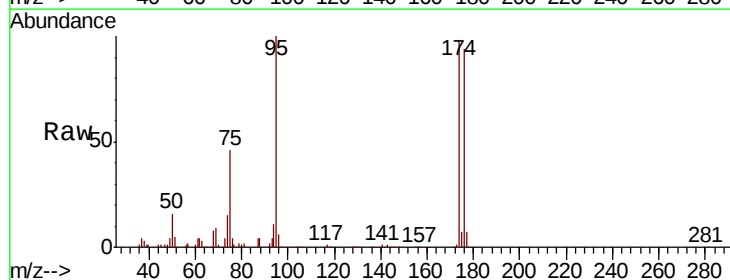
Acq: 11 Jun 2019 12:41

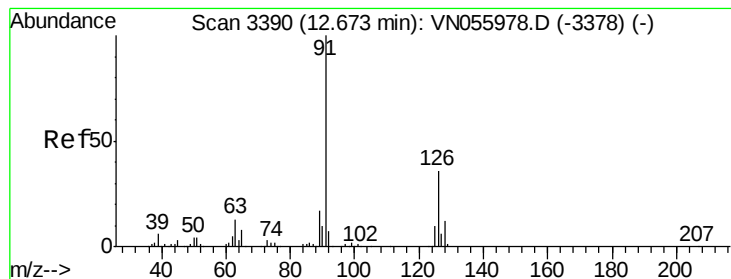
Tgt Ion: 75 Resp: 85030

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.78 min Scan# 3422

Delta R.T. 0.10 min

Lab File: VN056217.D

Acq: 11 Jun 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

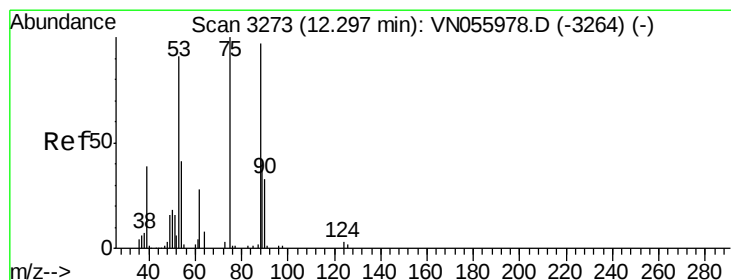
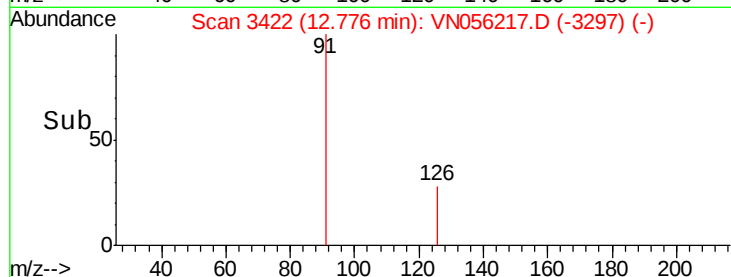
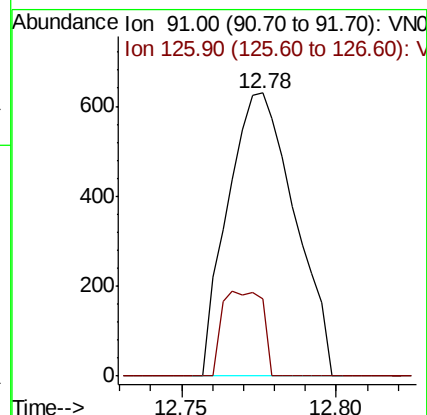
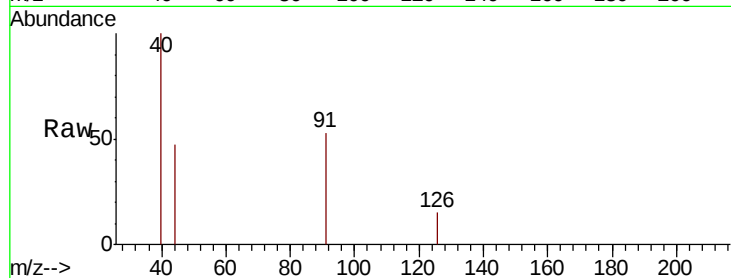
BPS1-TT-MW308I-20190609

Tot Ion: 91 Resp: 946

Ion Ratio Lower Upper

91 100

126 18.2 18.1 54.4



#81

trans-1,4-Dichloro-2-butene

Concen: 106.982 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056217.D

Acq: 11 Jun 2019 12:41

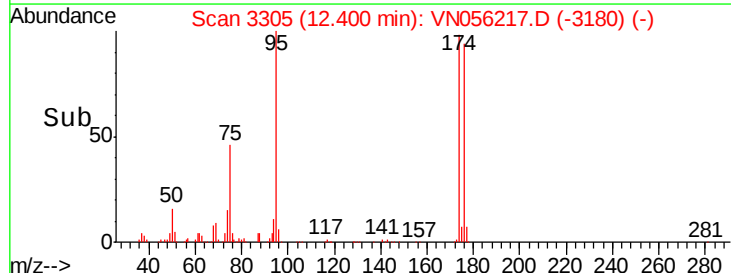
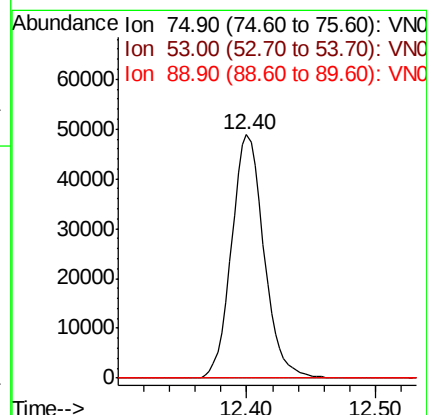
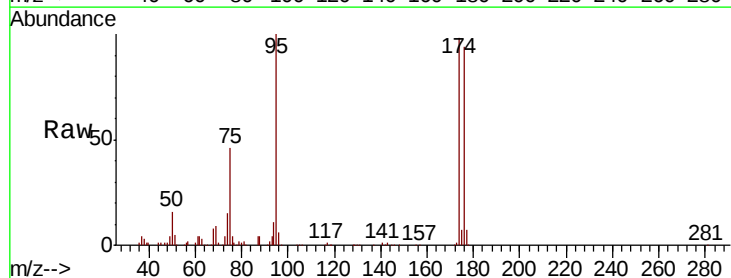
Tgt Ion: 75 Resp: 85030

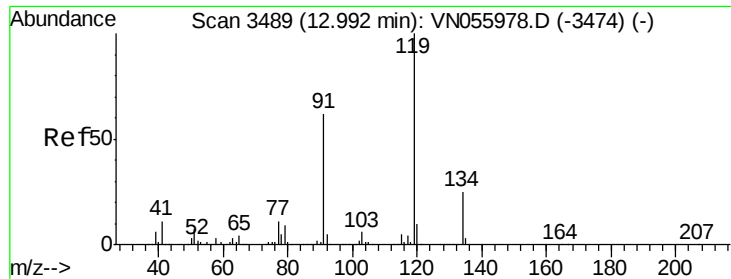
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

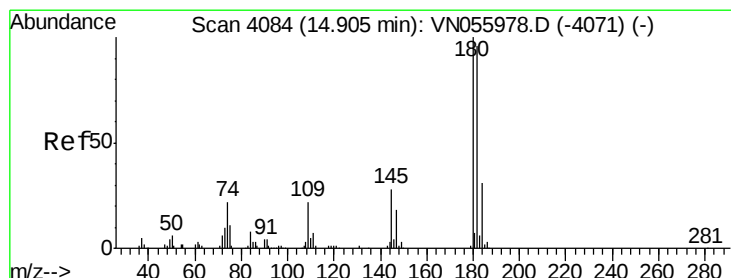
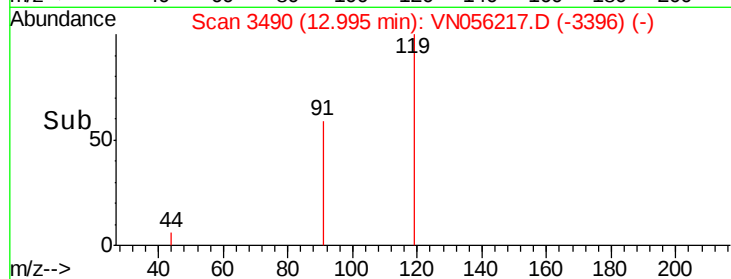
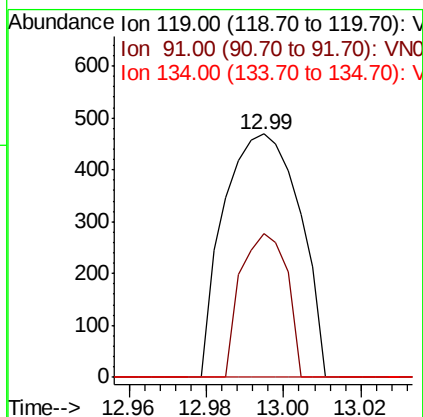
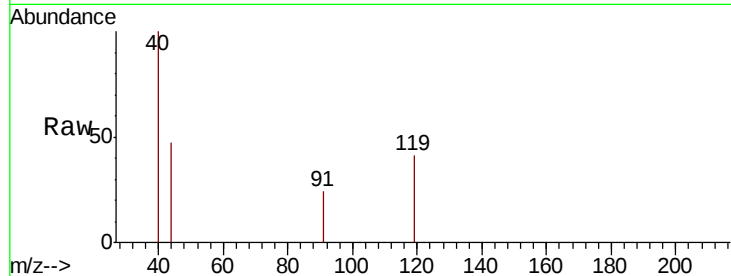




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN056217.D
 Acq: 11 Jun 2019 12:41

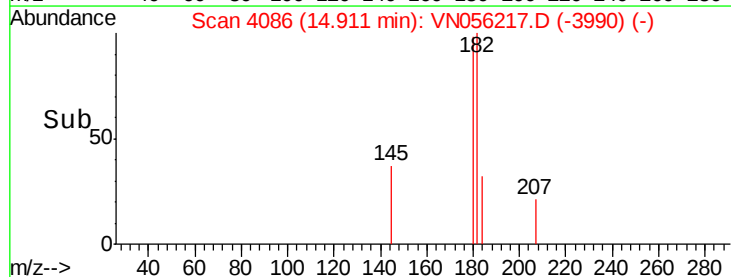
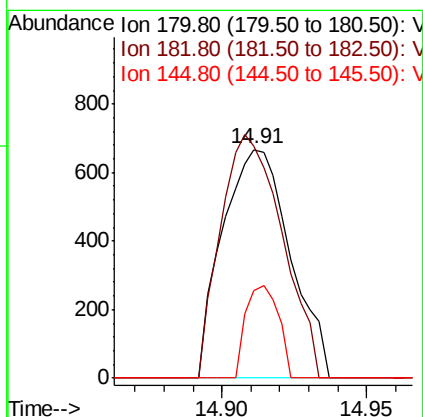
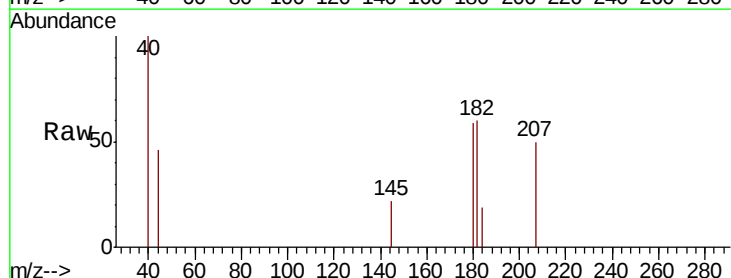
Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW308I-20190609

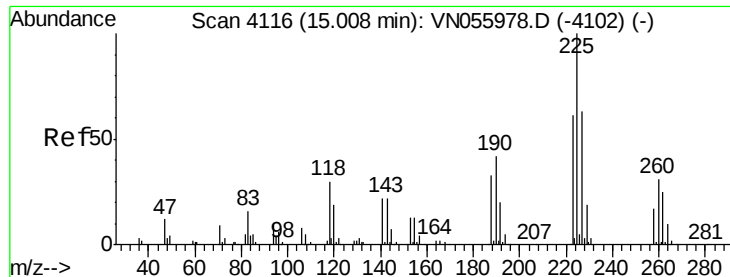
Tot Ion:119 Resp: 639
 Ion Ratio Lower Upper
 119 100
 91 35.8 30.9 92.8
 134 0.0 13.3 39.8#



#93
 1,2,4-Trichlorobenzene
 Concen: 4.643 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056217.D
 Acq: 11 Jun 2019 12:41

Tgt Ion:180 Resp: 1082
 Ion Ratio Lower Upper
 180 100
 182 97.0 48.3 144.9
 145 19.6 14.0 41.9





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN056217.D

Acq: 11 Jun 2019 12:41

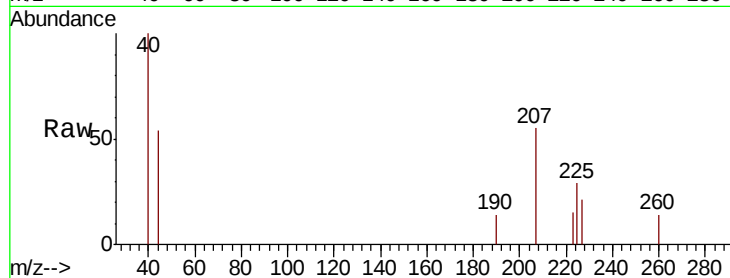
Instrument :

MSVOA_N

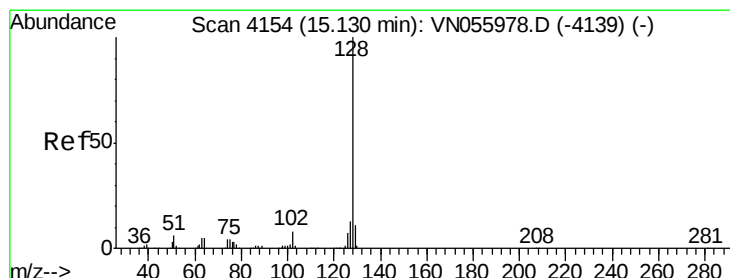
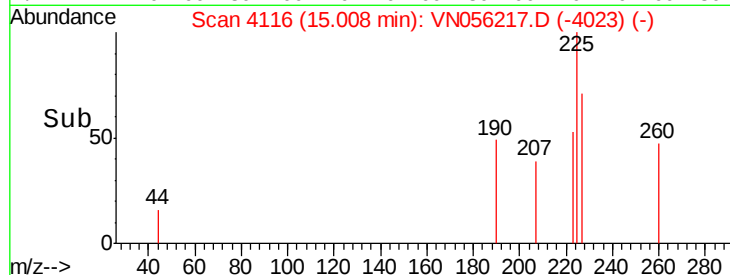
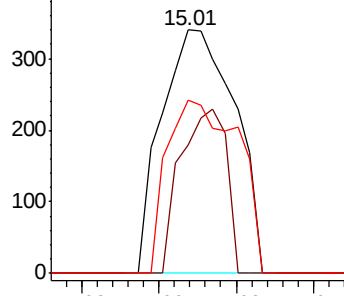
ClientSampleId :

BPS1-TT-MW308I-20190609

Tot Ion:	225	Resp:	448
Ion	Ratio	Lower	Upper
225	100		
223	42.2	30.9	92.7
227	69.2	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: 4.391 ug/l

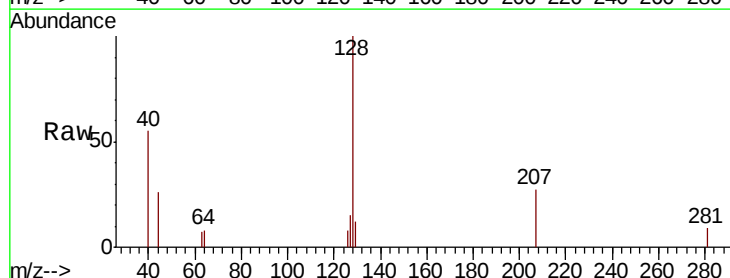
RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

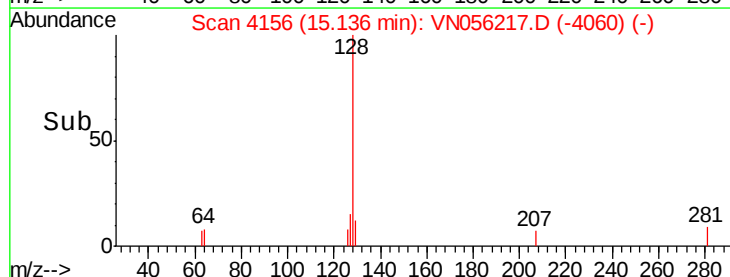
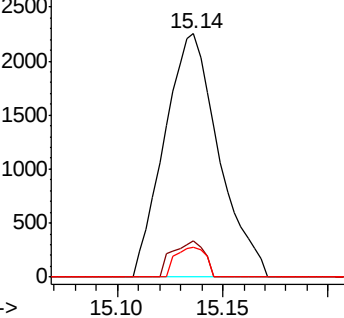
Lab File: VN056217.D

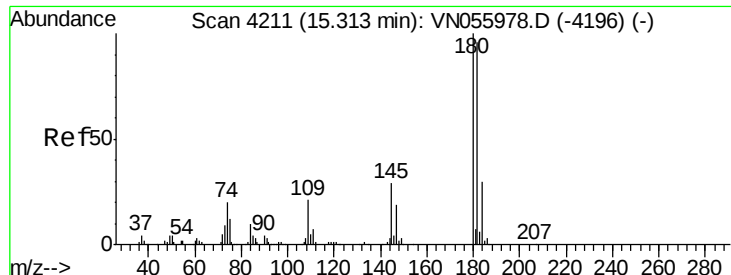
Acq: 11 Jun 2019 12:41

Tgt Ion:	128	Resp:	4024
Ion	Ratio	Lower	Upper
128	100		
127	8.7	10.3	15.5#
129	6.8	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: 3.526 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN056217.D
 Acq: 11 Jun 2019 12:41

Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW308I-20190609

Tot Ion:180 Resp: 1423
 Ion Ratio Lower Upper
 180 100
 182 102.1 47.9 143.7
 145 18.3 14.9 44.7

