

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056061.D
 Acq On : 6 Jun 2019 22:28
 Operator : JC/SP
 Sample : K3222-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-TB-20190605

Quant Time: Jun 07 05:31:56 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	332031	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	497223	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	467447	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147425	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	173059	52.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.98%	
35) Dibromofluoromethane	7.59	113	152682	50.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.10%	
50) Toluene-d8	10.09	98	633184	53.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.88%	
62) 4-Bromofluorobenzene	12.40	95	197252	49.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.82%	

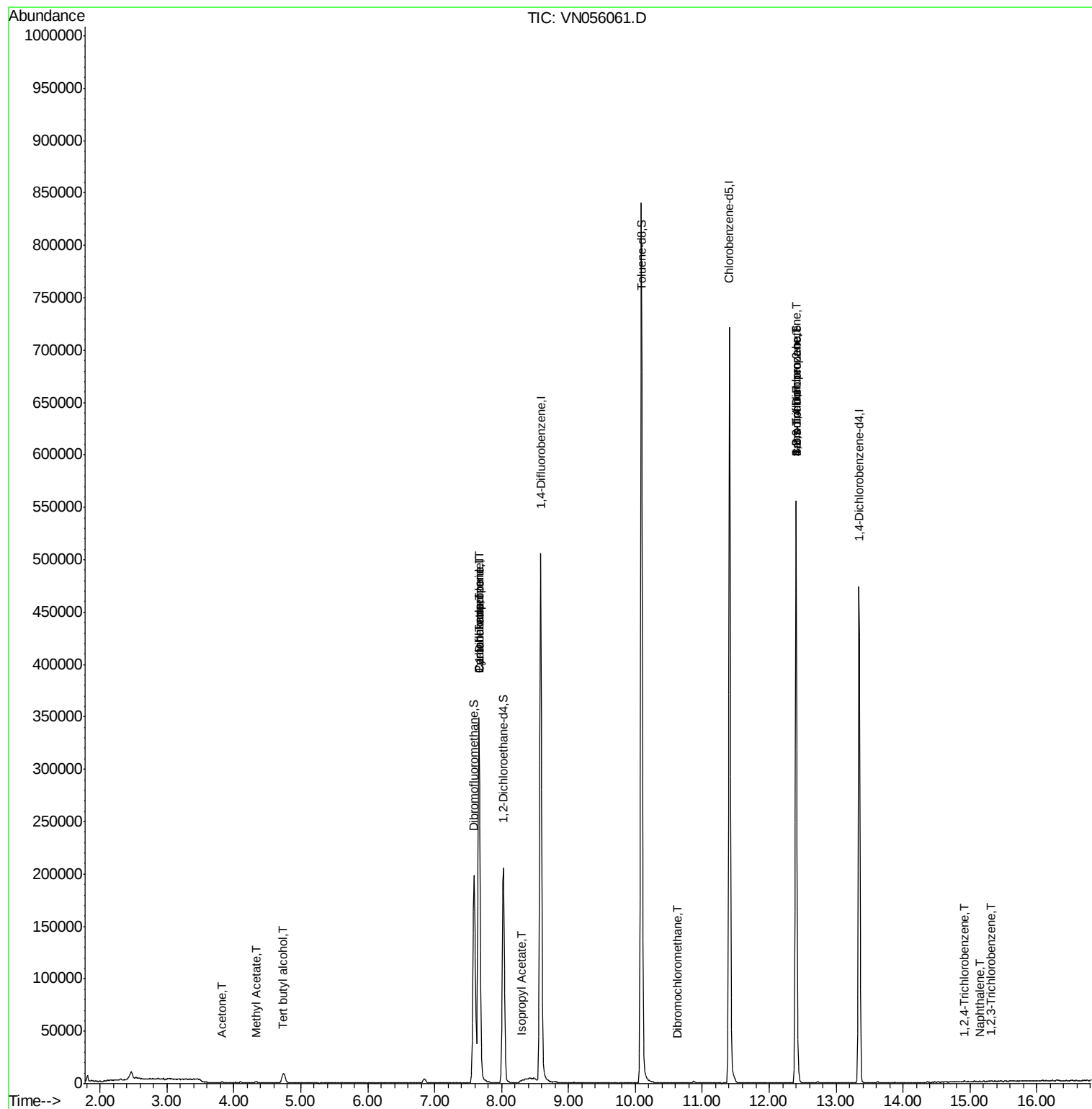
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	9309	16.226	ug/l #	74
16) Acetone	3.82	43	1035	0.656	ug/l #	41
18) Methyl Acetate	4.33	43	2511	0.235	ug/l #	83
31) Cyclohexane	7.66	56	4587	0.877	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19840	4.640	ug/l #	48
38) Carbon Tetrachloride	7.66	117	26690	6.771	ug/l #	16
43) Isopropyl Acetate	8.30	43	2524	0.409	ug/l #	53
60) Dibromochloromethane	10.63	129	29	2.460	ug/l #	11
71) Bromoform	12.40	173	1471	3.258	ug/l #	1
73) Isopropylbenzene	12.26	105	266	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	88880	32.765	ug/l #	100
79) 2-Chlorotoluene	12.67	91	241	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	88880	109.112	ug/l #	15
83) tert-Butylbenzene	12.99	119	65	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.91	180	316	4.376	ug/l #	82
94) Hexachlorobutadiene	15.01	225	128	Below Cal	#	49
95) Naphthalene	15.14	128	694	3.942	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	383	3.161	ug/l #	83

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN060719\
Data File : VN056061.D
Acq On : 6 Jun 2019 22:28
Operator : JC/SP
Sample : K3222-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20190605

Quant Time: Jun 07 05:31:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 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: VN056061.D

Acq: 6 Jun 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

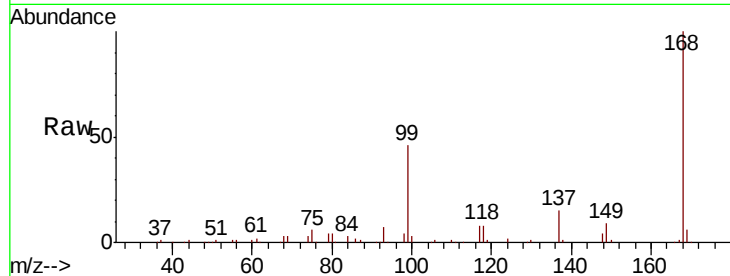
TT-TB-20190605

Tot Ion:168 Resp: 332031

Ion Ratio Lower Upper

168 100

99 46.1 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

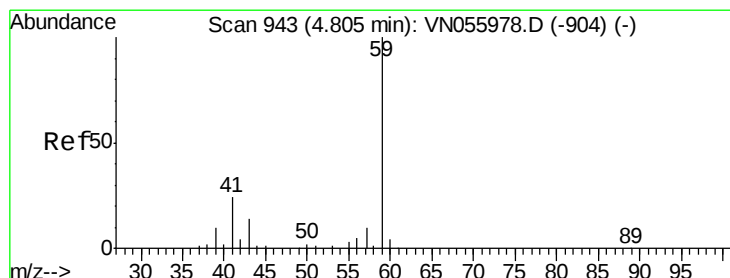
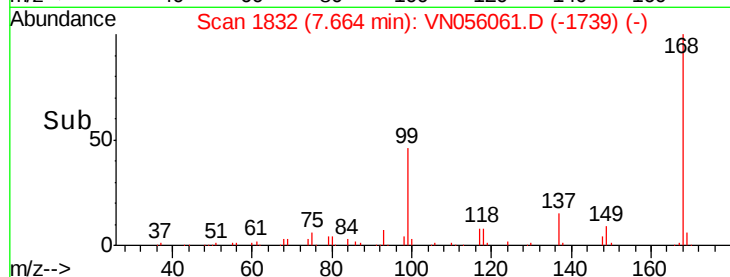
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 16.226 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056061.D

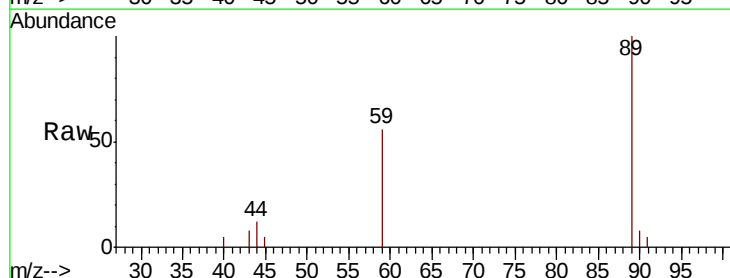
Acq: 6 Jun 2019 22:28

Tgt Ion: 59 Resp: 9309

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

3000

2500

2000

1500

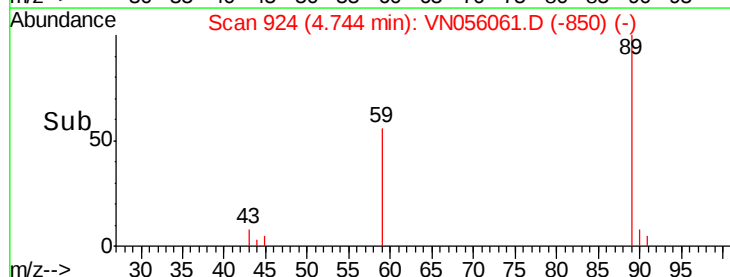
1000

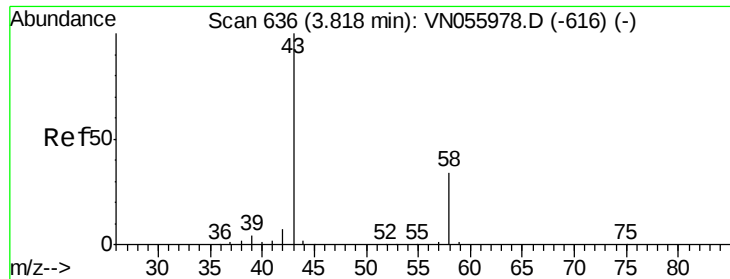
500

0

4.65 4.70 4.75 4.80 4.85

Time-->

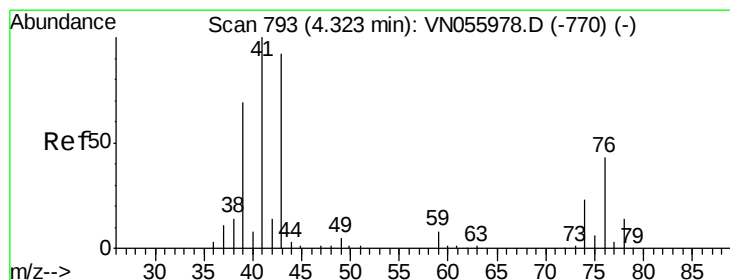
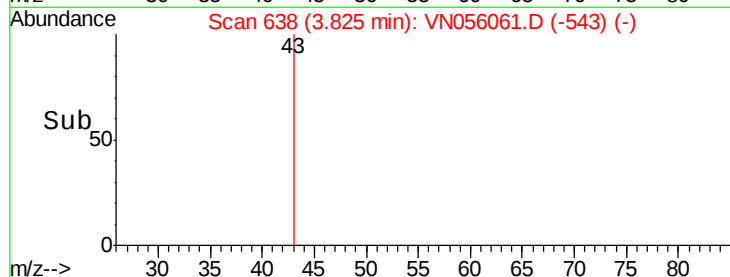
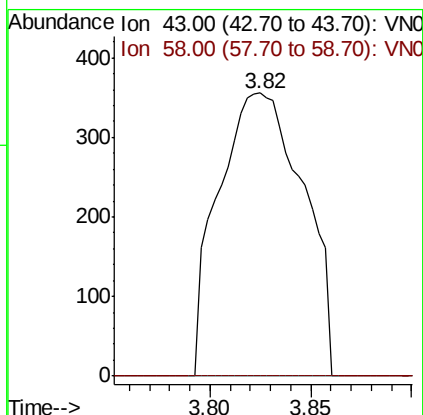
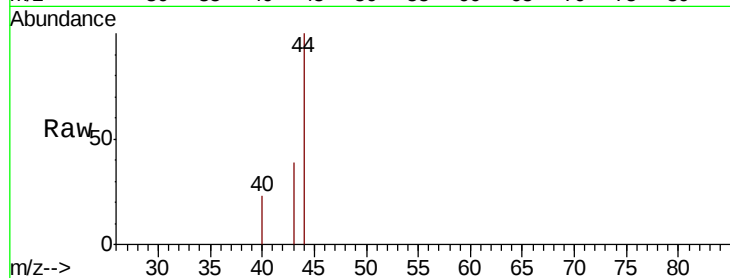




#16
Acetone
Concen: 0.656 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN056061.D
Acq: 6 Jun 2019 22:28

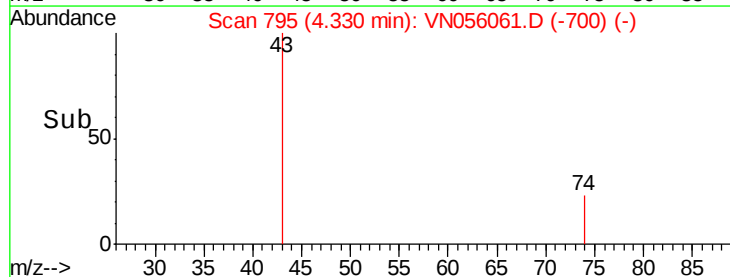
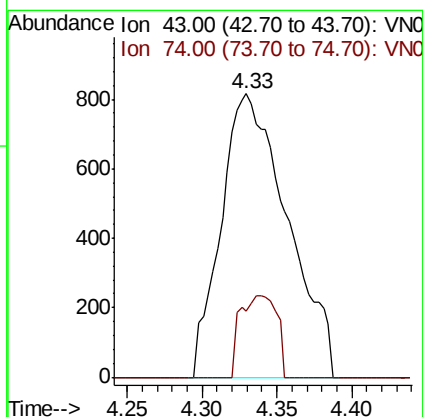
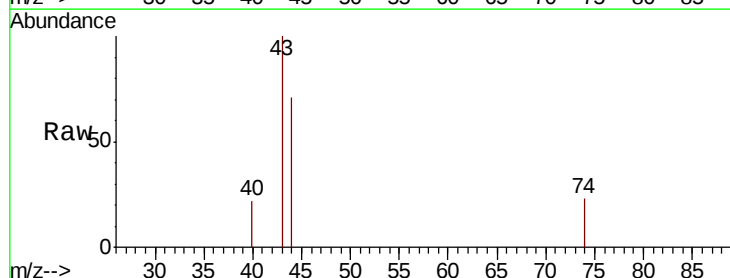
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20190605

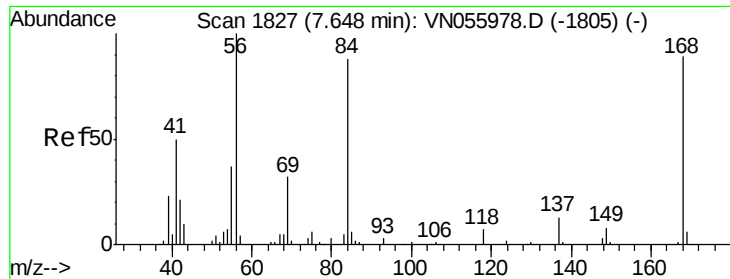
Tot Ion: 43 Resp: 1035
Ion Ratio Lower Upper
43 100
58 0.0 26.6 39.8#



#18
Methyl Acetate
Concen: 0.235 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN056061.D
Acq: 6 Jun 2019 22:28

Tgt Ion: 43 Resp: 2511
Ion Ratio Lower Upper
43 100
74 15.9 19.3 28.9#

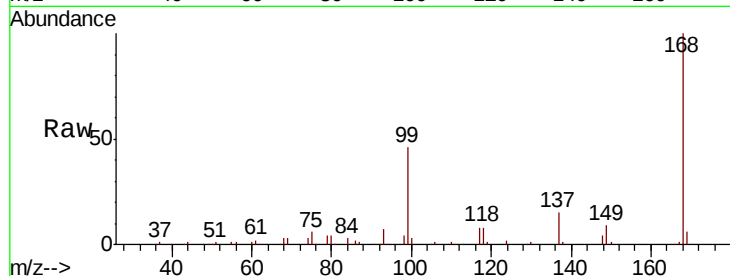




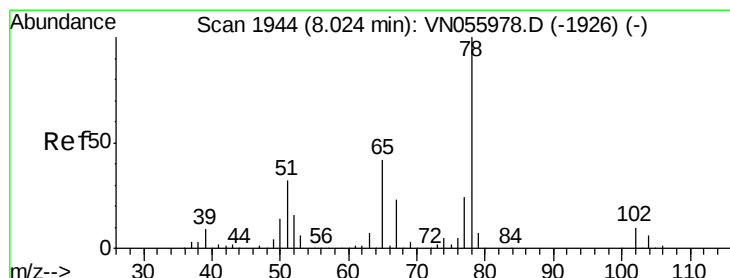
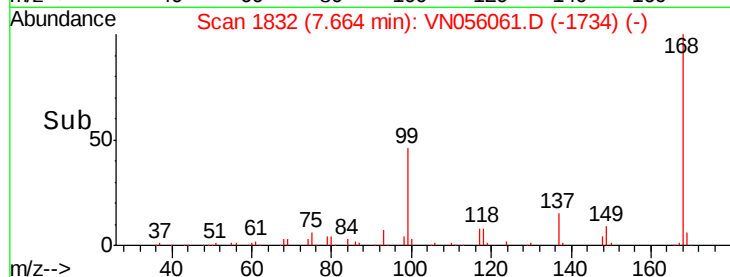
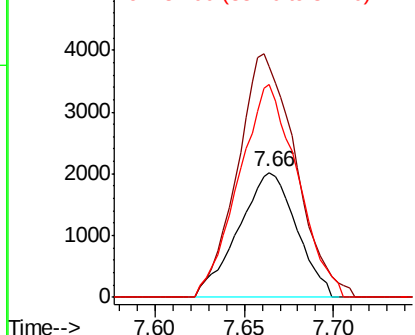
#31
Cyclohexane
Concen: 0.877 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056061.D
Acq: 6 Jun 2019 22:28

Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20190605

Tot Ion: 56 Resp: 4587
Ion Ratio Lower Upper
56 100
69 184.4 25.6 38.4#
84 170.8 67.4 101.0#

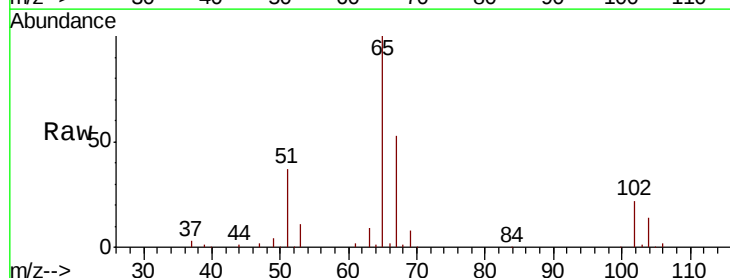


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

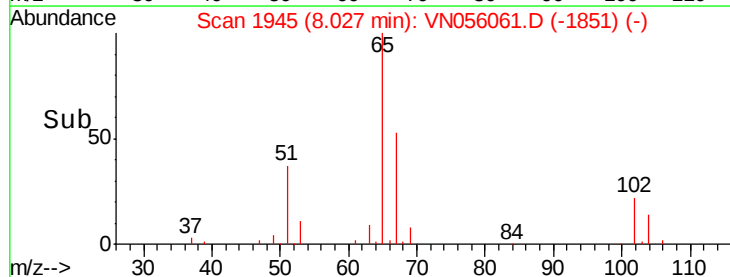
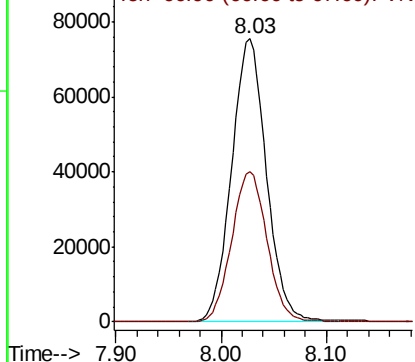


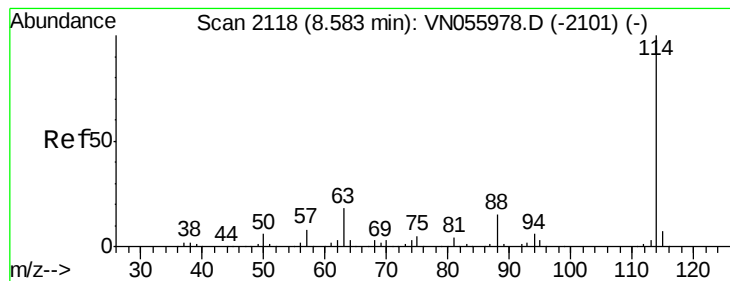
#33
1,2-Dichloroethane-d4
Concen: 52.493 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056061.D
Acq: 6 Jun 2019 22:28

Tgt Ion: 65 Resp: 173059
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: VN056061.D

Acq: 6 Jun 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20190605

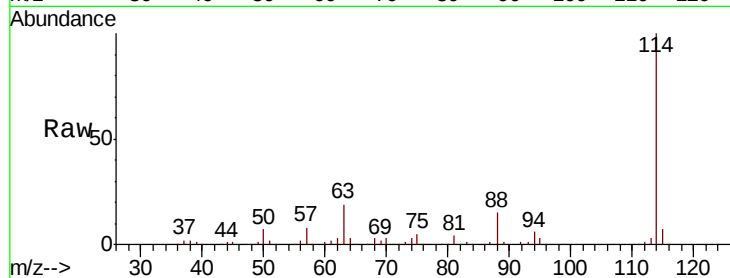
Tot Ion:114 Resp: 497223

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.2

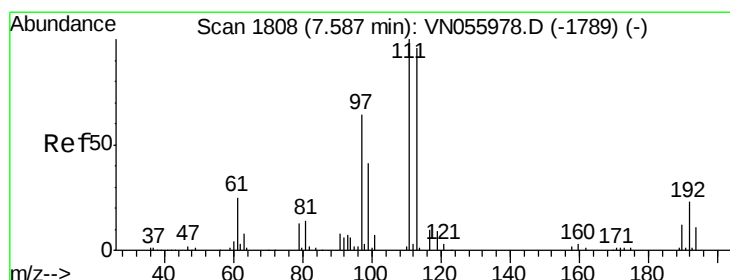
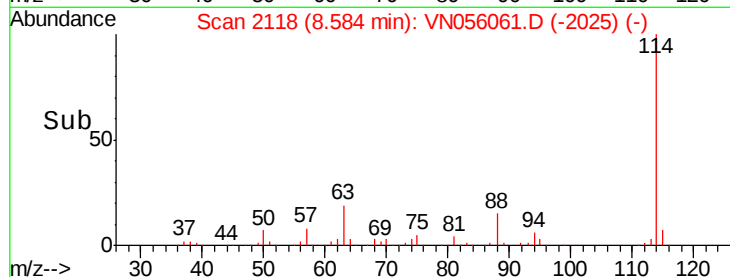
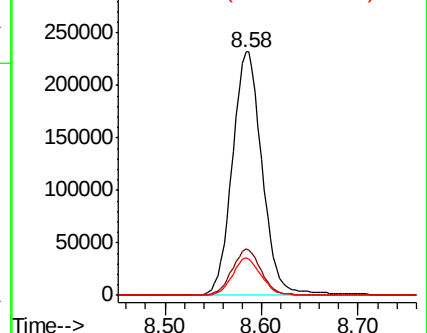
88 15.2 0.0 31.0



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: 50.049 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056061.D

Acq: 6 Jun 2019 22:28

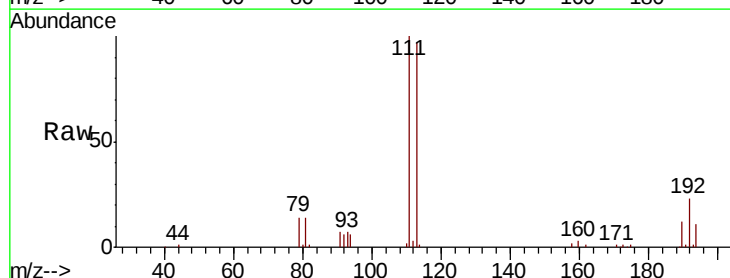
Tgt Ion:113 Resp: 152682

Ion Ratio Lower Upper

113 100

111 101.3 81.9 122.9

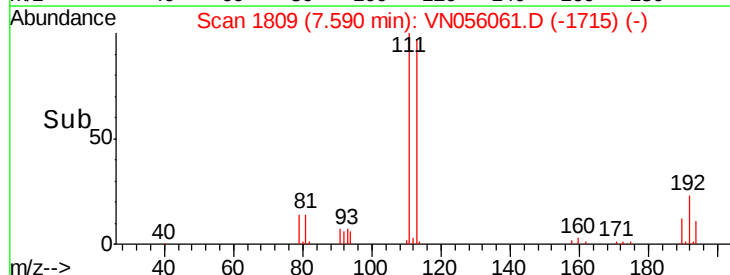
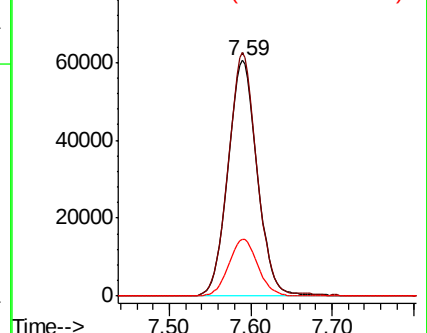
192 24.0 19.5 29.3

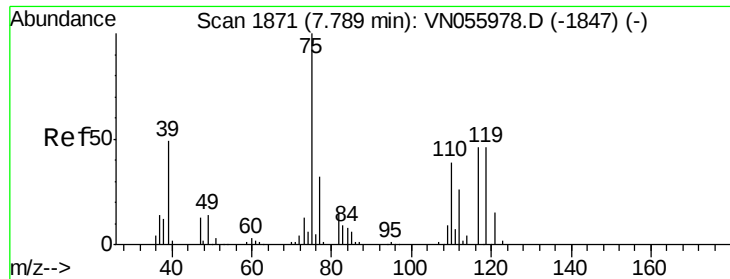


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.640 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056061.D

Acq: 6 Jun 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20190605

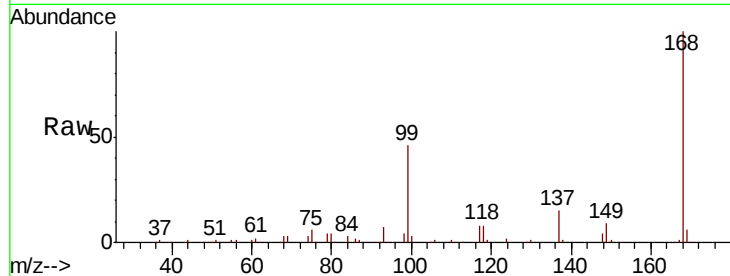
Tot Ion: 75 Resp: 19840

Ion Ratio Lower Upper

75 100

110 9.1 19.0 57.0#

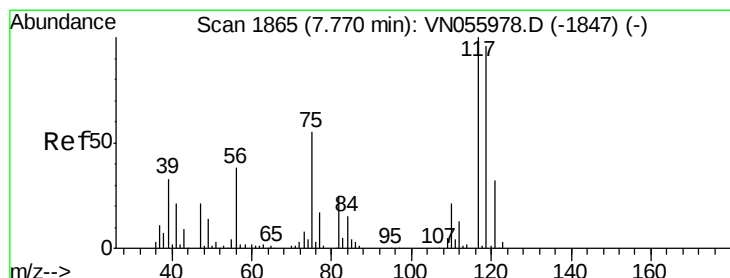
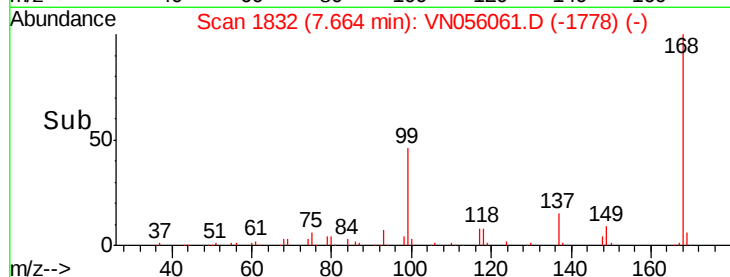
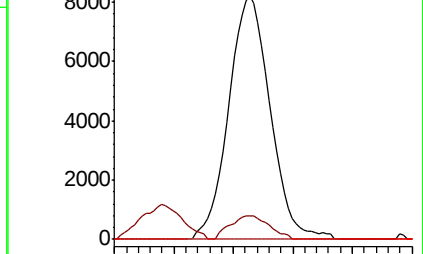
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-1847) (-)

Ion 109.90 (109.60 to 110.60): VN055978.D (-1847) (-)

Ion 76.90 (76.60 to 77.60): VN055978.D (-1847) (-)



#38

Carbon Tetrachloride

Concen: 6.771 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN056061.D

Acq: 6 Jun 2019 22:28

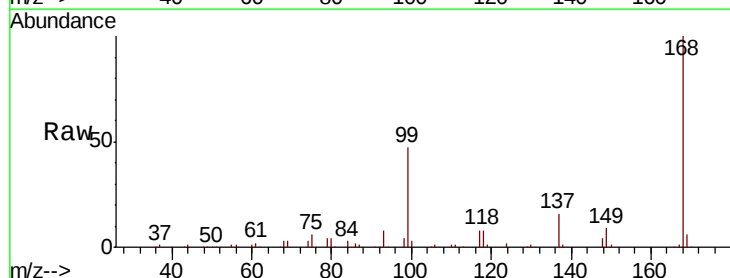
Tgt Ion: 117 Resp: 26690

Ion Ratio Lower Upper

117 100

119 7.0 79.0 118.6#

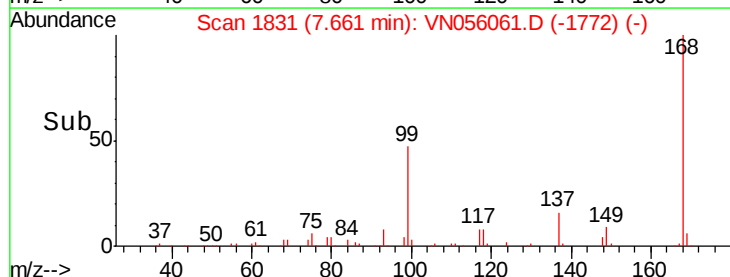
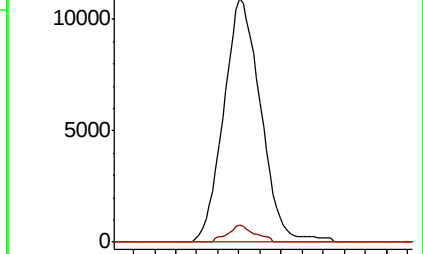
121 0.0 24.7 37.1#

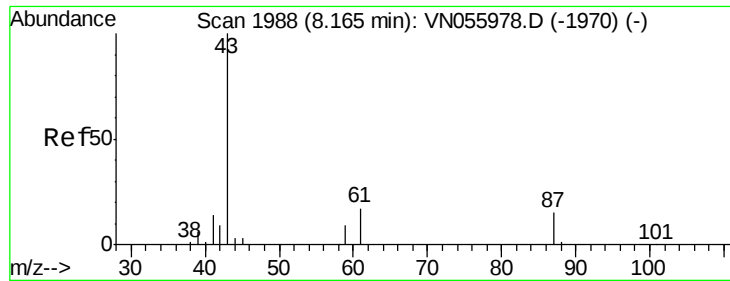


Abundance Ion 116.80 (116.50 to 117.50): VN055978.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN055978.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN055978.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 0.409 ug/l

RT: 8.30 min Scan# 2029

Delta R.T. 0.13 min

Lab File: VN056061.D

Acq: 6 Jun 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20190605

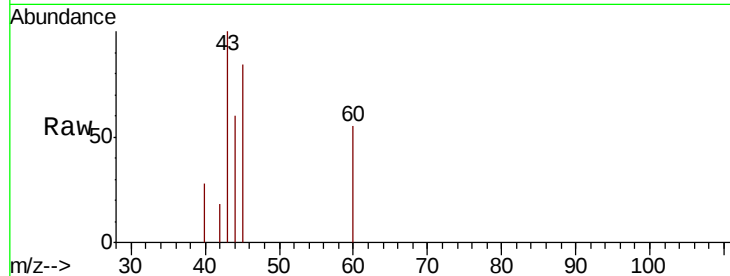
Tot Ion: 43 Resp: 2524

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#

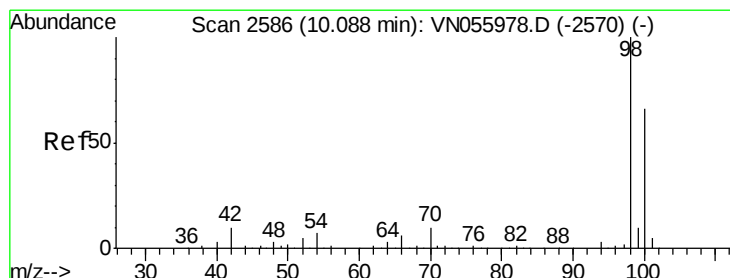
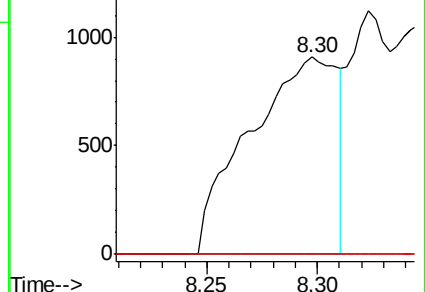
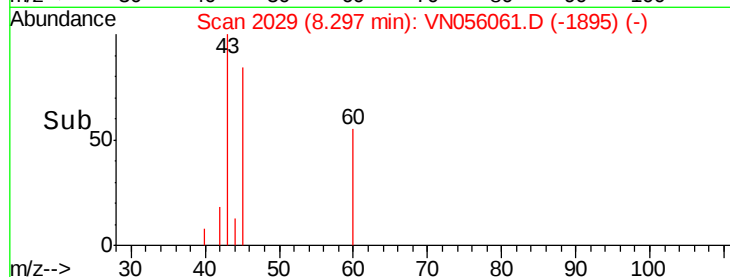


Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

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

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

Time-->



#50

Toluene-d8

Concen: 53.939 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056061.D

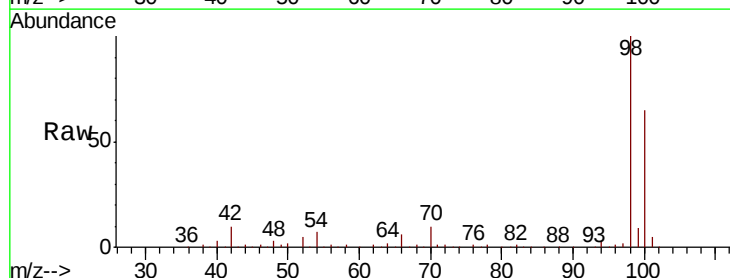
Acq: 6 Jun 2019 22:28

Tgt Ion: 98 Resp: 633184

Ion Ratio Lower Upper

98 100

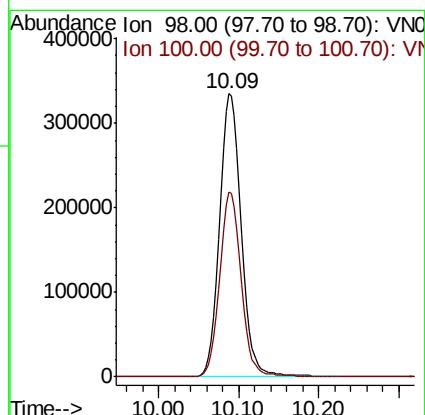
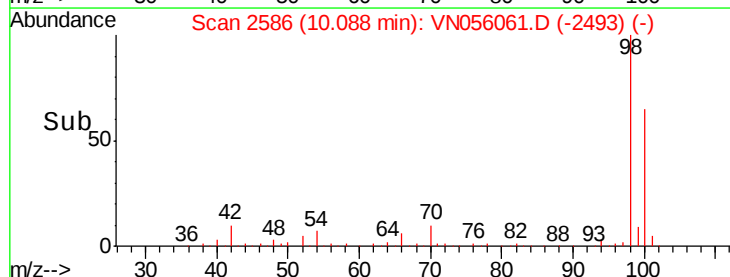
100 64.9 51.9 77.9

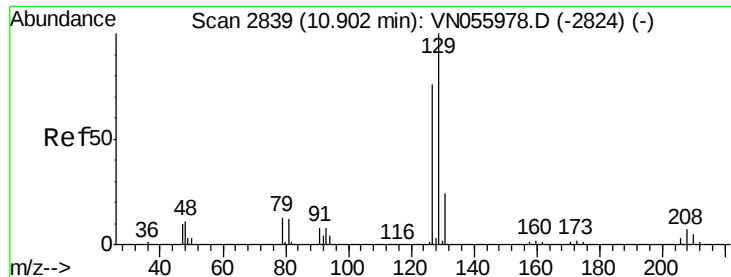


Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

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

Time-->

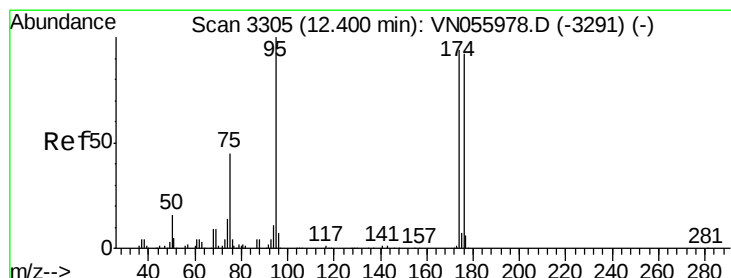
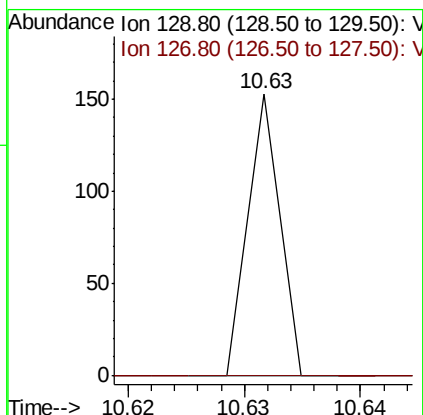
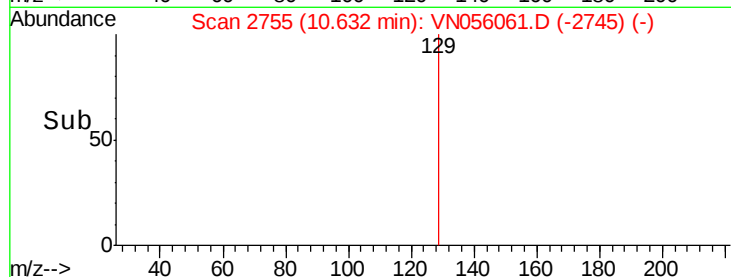
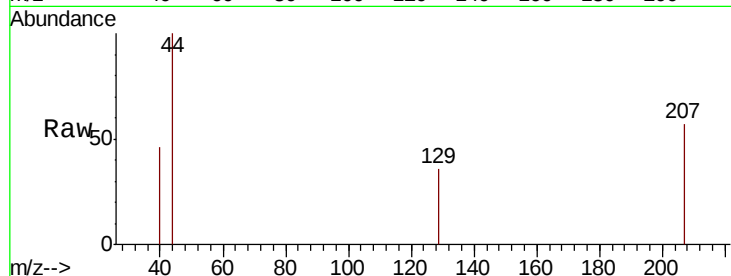




#60
Dibromochloromethane
Concen: 2.460 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN056061.D
Acq: 6 Jun 2019 22:28

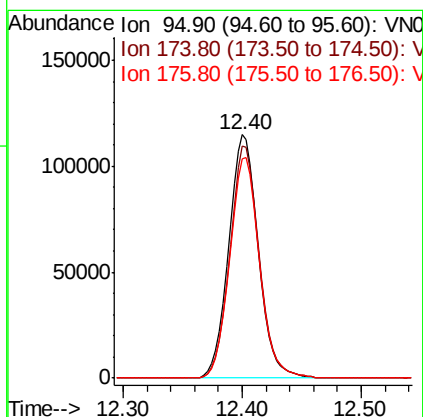
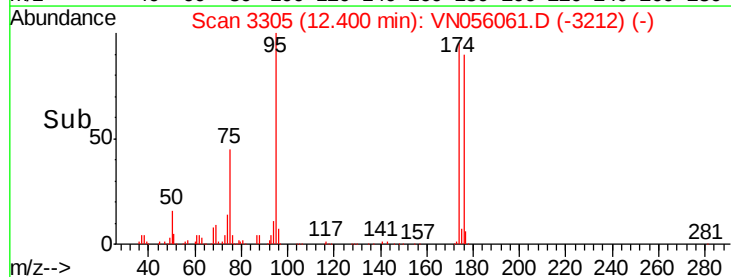
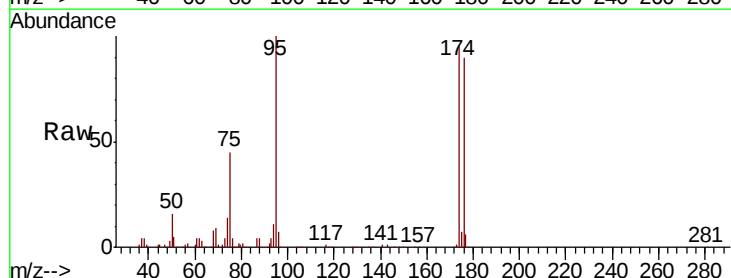
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20190605

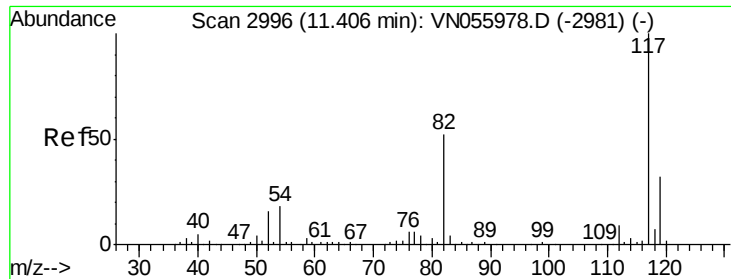
Tot Ion:129 Resp: 29
Ion Ratio Lower Upper
129 100
127 0.0 38.1 114.3#



#62
4-Bromofluorobenzene
Concen: 49.411 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056061.D
Acq: 6 Jun 2019 22:28

Tgt Ion: 95 Resp: 197252
Ion Ratio Lower Upper
95 100
174 94.8 0.0 191.0
176 91.4 0.0 185.2

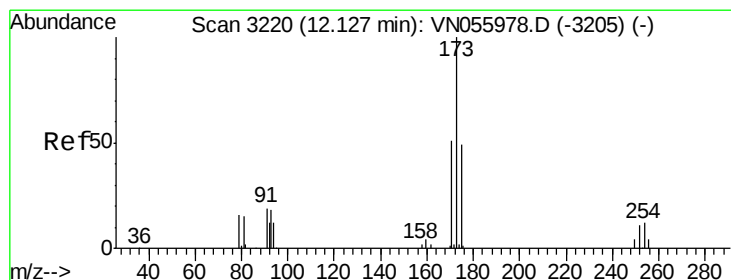
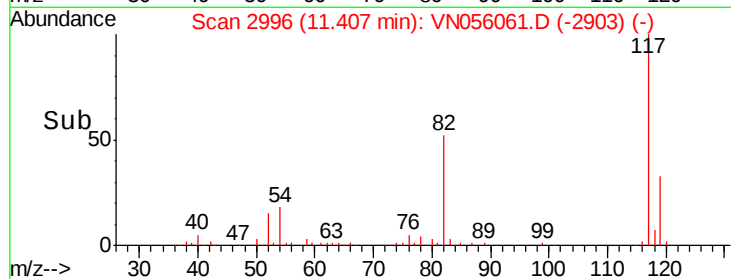
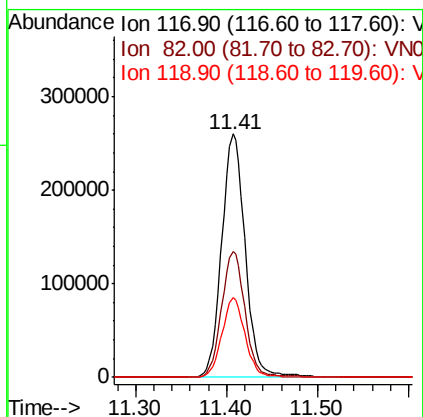
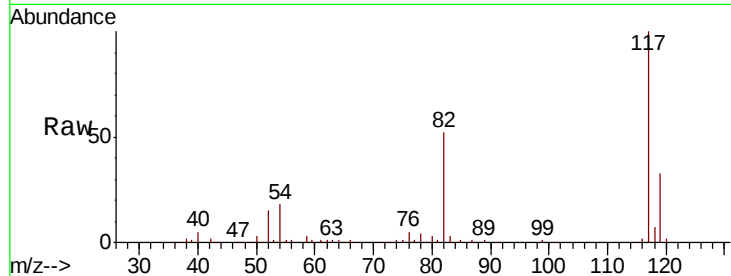




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056061.D
Acq: 6 Jun 2019 22:28

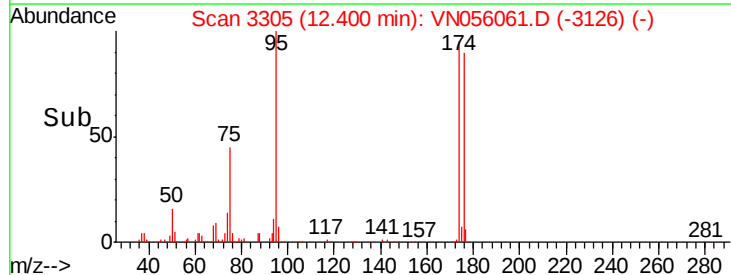
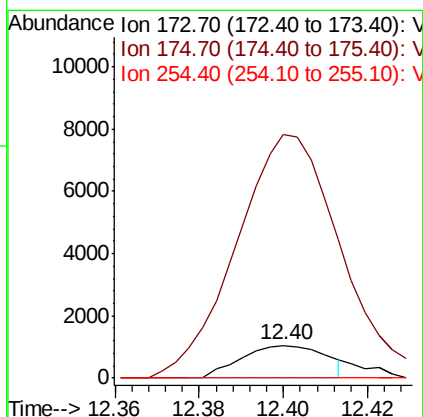
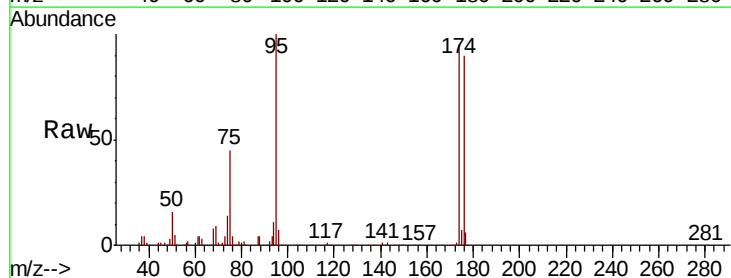
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20190605

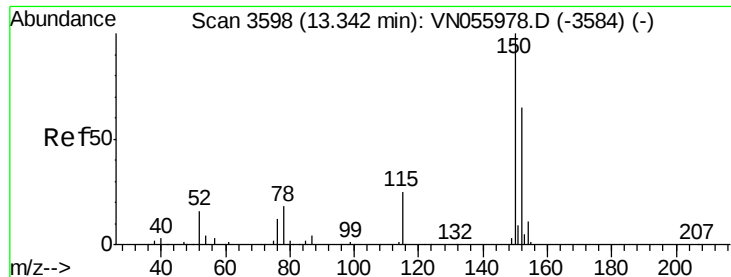
Tot Ion:117 Resp: 467447
Ion Ratio Lower Upper
117 100
82 51.9 41.8 62.8
119 32.6 25.4 38.0



#71
Bromoform
Concen: 3.258 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056061.D
Acq: 6 Jun 2019 22:28

Tgt Ion:173 Resp: 1471
Ion Ratio Lower Upper
173 100
175 796.1 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: VN056061.D

Acq: 6 Jun 2019 22:28

Instrument :

MSVOA_N

ClientSampled :

TT-TB-20190605

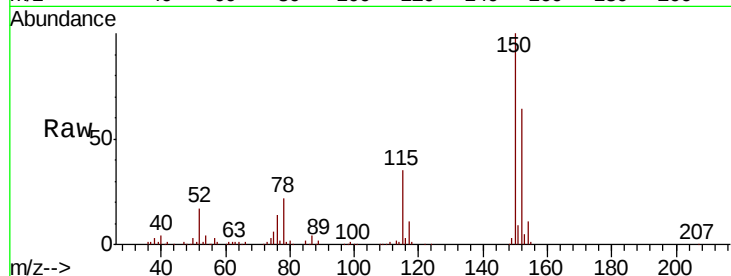
Tot Ion:152 Resp: 147425

Ion Ratio Lower Upper

152 100

115 53.5 27.0 81.0

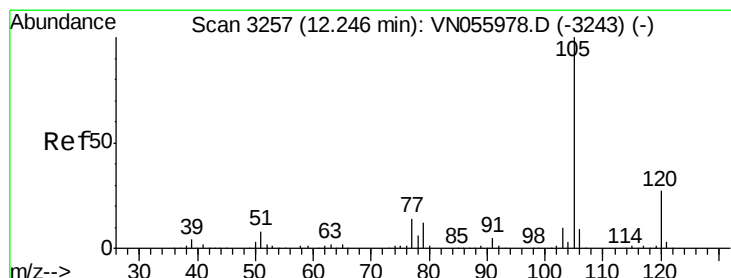
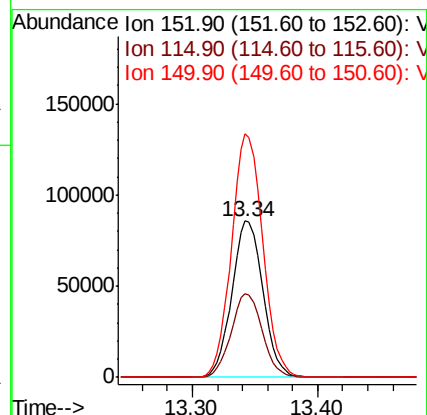
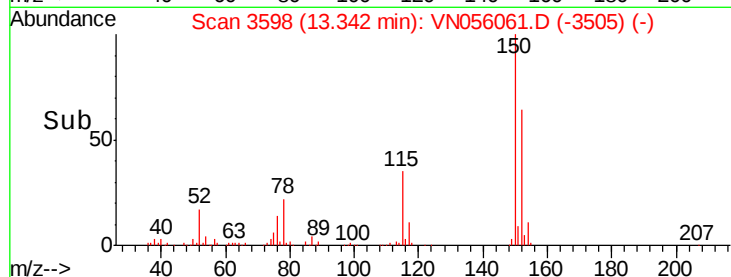
150 156.7 0.0 343.2



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: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN056061.D

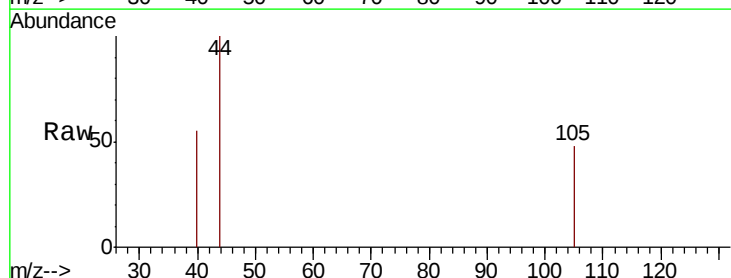
Acq: 6 Jun 2019 22:28

Tgt Ion:105 Resp: 266

Ion Ratio Lower Upper

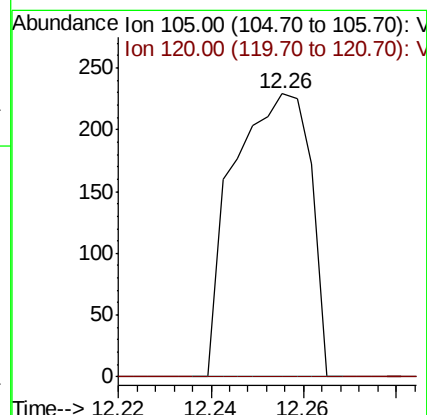
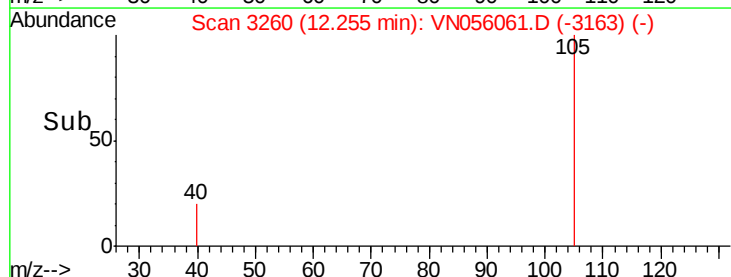
105 100

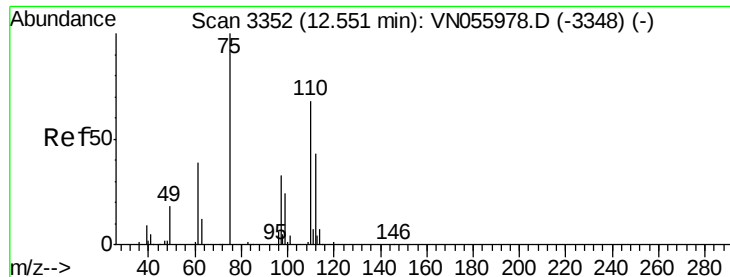
120 0.0 13.6 40.7#



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: 32.765 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056061.D

Acq: 6 Jun 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

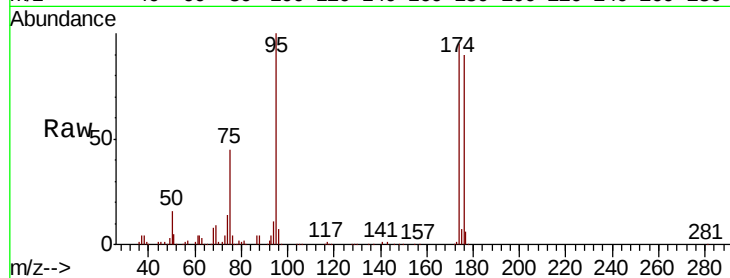
TT-TB-20190605

Tot Ion: 75 Resp: 88880

Ion Ratio Lower Upper

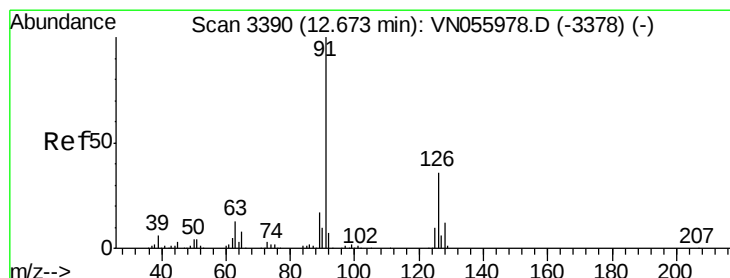
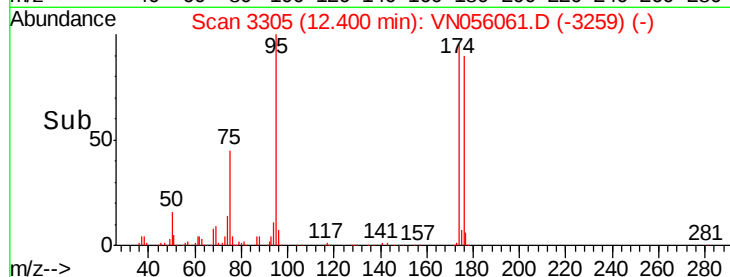
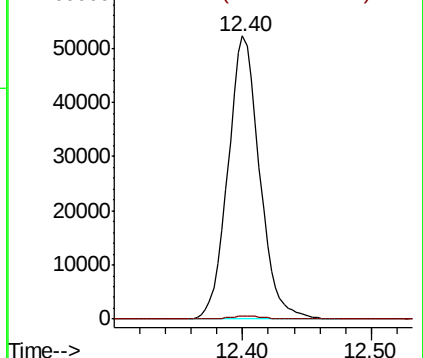
75 100

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: 12.67 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VN056061.D

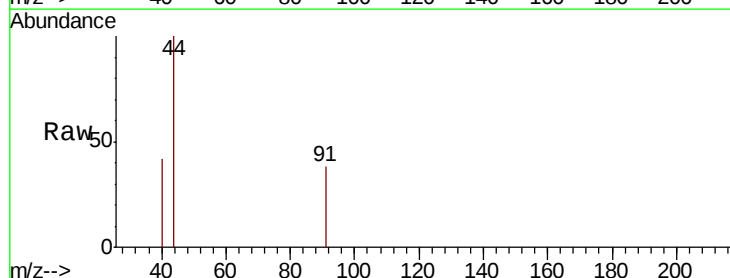
Acq: 6 Jun 2019 22:28

Tgt Ion: 91 Resp: 241

Ion Ratio Lower Upper

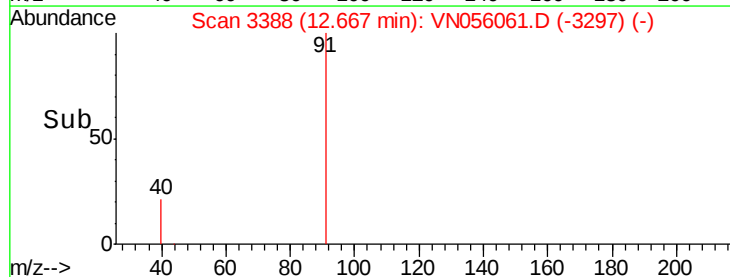
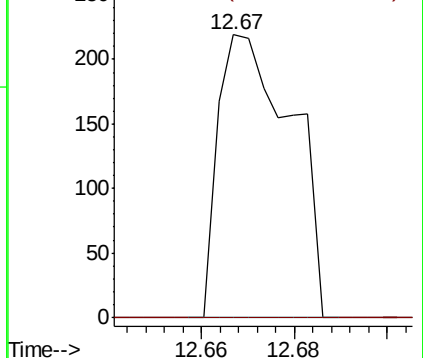
91 100

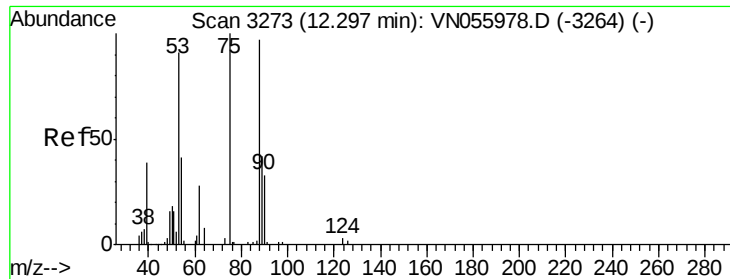
126 0.0 18.1 54.4#



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: 109.112 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056061.D

Acq: 6 Jun 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20190605

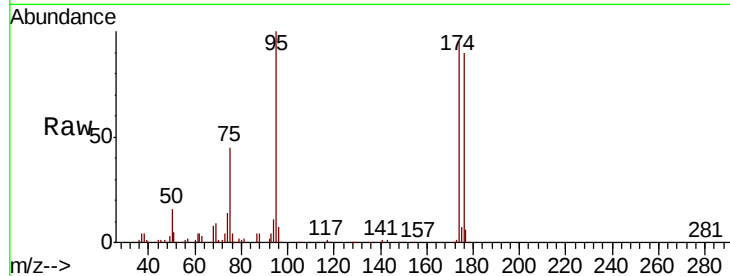
Tot Ion: 75 Resp: 88880

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

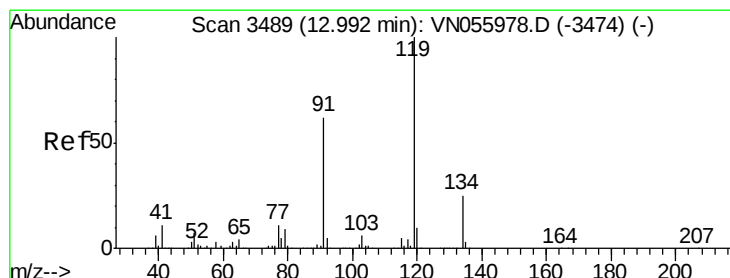
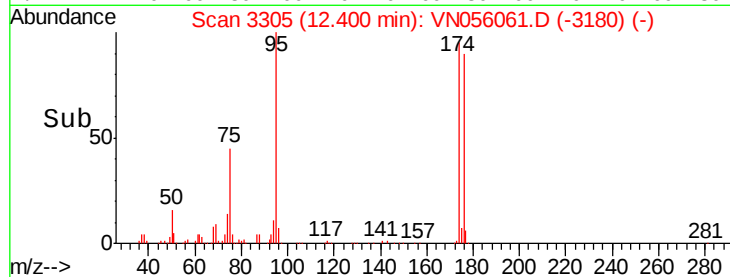
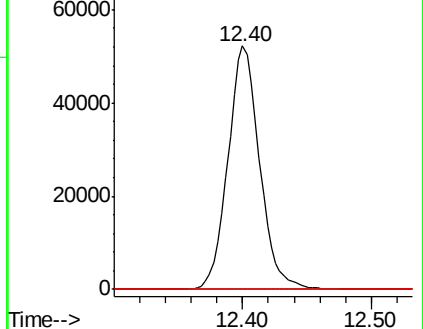
89 0.0 36.9 55.3#



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) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056061.D

Acq: 6 Jun 2019 22:28

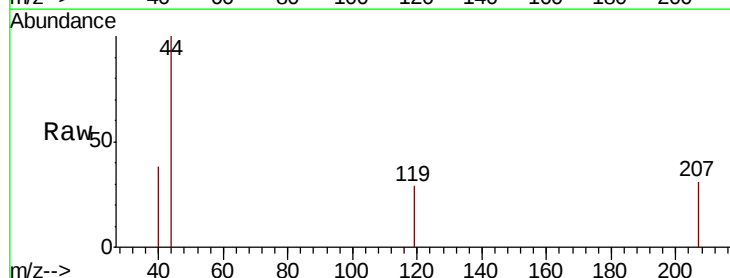
Tgt Ion: 119 Resp: 65

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

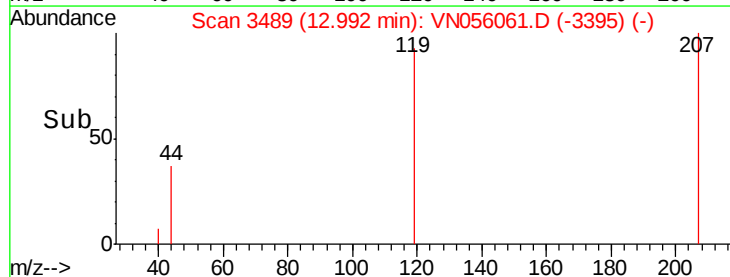
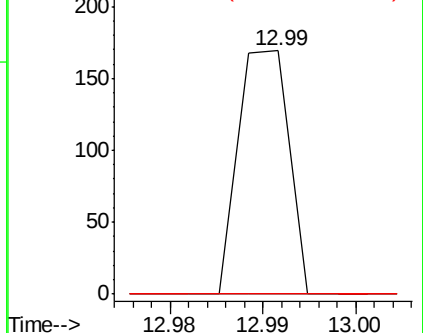
134 0.0 13.3 39.8#

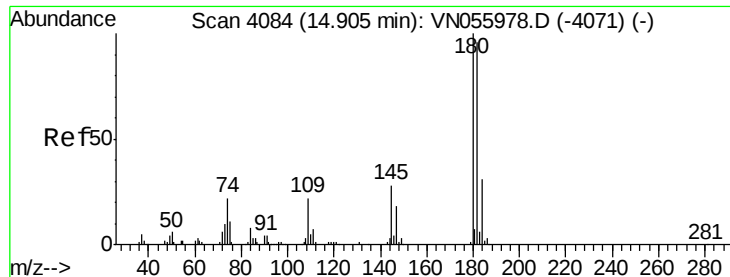


Abundance Ion 119.00 (118.70 to 119.70): VN055978.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN055978.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN055978.D (-3474) (-)

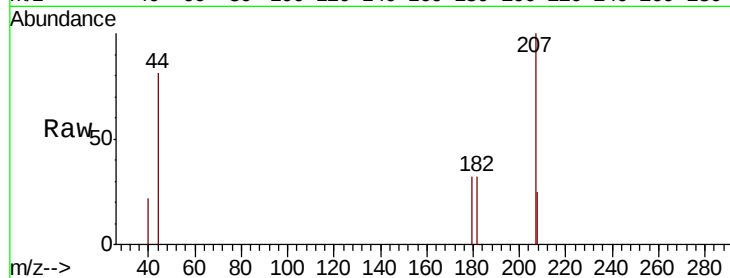




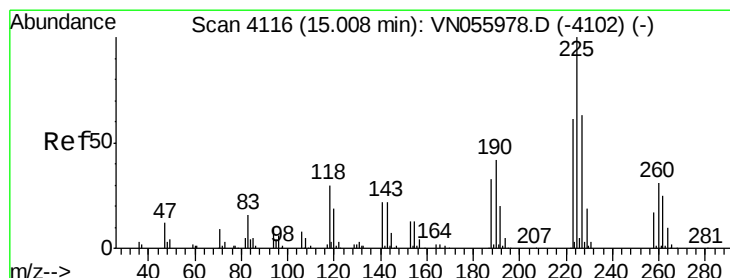
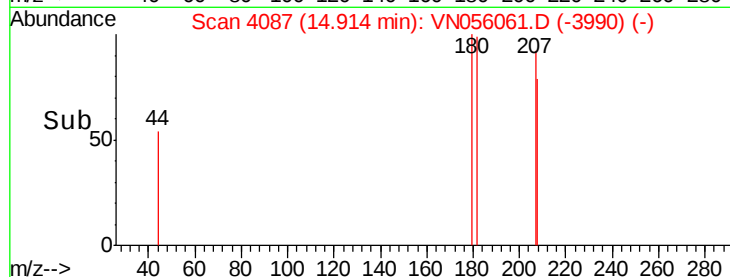
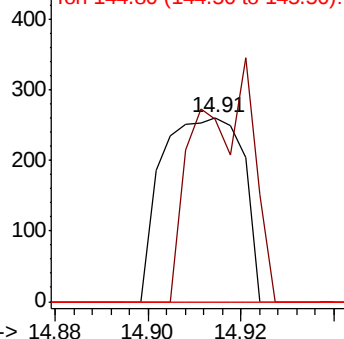
#93
 1,2,4-Trichlorobenzene
 Concen: 4.376 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN056061.D
 Acq: 6 Jun 2019 22:28

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-TB-20190605

Tot Ion:180 Resp: 316
 Ion Ratio Lower Upper
 180 100
 182 88.3 48.3 144.9
 145 0.0 14.0 41.9#

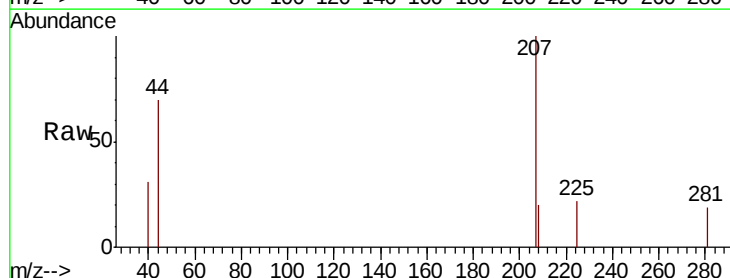


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

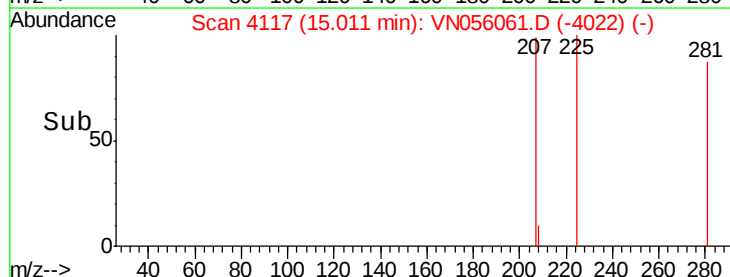
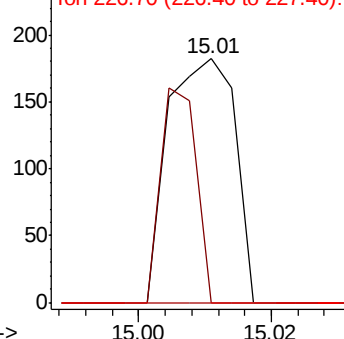


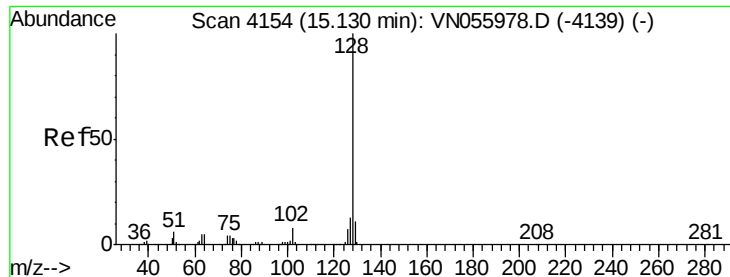
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN056061.D
 Acq: 6 Jun 2019 22:28

Tgt Ion:225 Resp: 128
 Ion Ratio Lower Upper
 225 100
 223 46.9 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: 3.942 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN056061.D

Acq: 6 Jun 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20190605

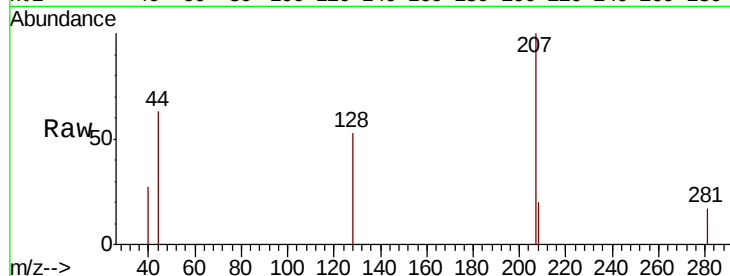
Tot Ion:128 Resp: 694

Ion Ratio Lower Upper

128 100

127 0.0 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

600

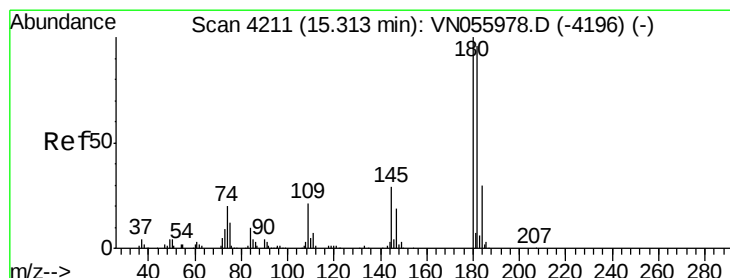
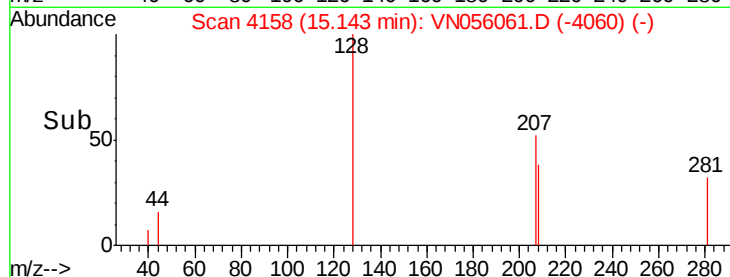
400

200

0

15.10 15.12 15.14 15.16

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 3.161 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN056061.D

Acq: 6 Jun 2019 22:28

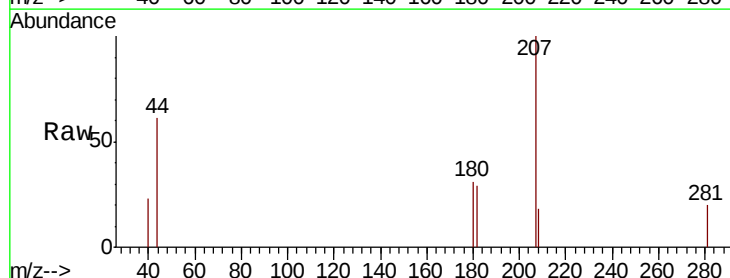
Tgt Ion:180 Resp: 383

Ion Ratio Lower Upper

180 100

182 101.0 47.9 143.7

145 0.0 14.9 44.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

400

300

200

100

0

15.30 15.32 15.34

Time-->

