

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056185.D
 Acq On : 10 Jun 2019 22:54
 Operator : JC/SP
 Sample : K3214-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 02:23:54 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	296916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	448963	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	435203	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	134557	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	160268	54.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.72%	
35) Dibromofluoromethane	7.59	113	147699	53.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.24%	
50) Toluene-d8	10.09	98	574914	54.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.48%	
62) 4-Bromofluorobenzene	12.40	95	180040	49.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.90%	

Target Compounds

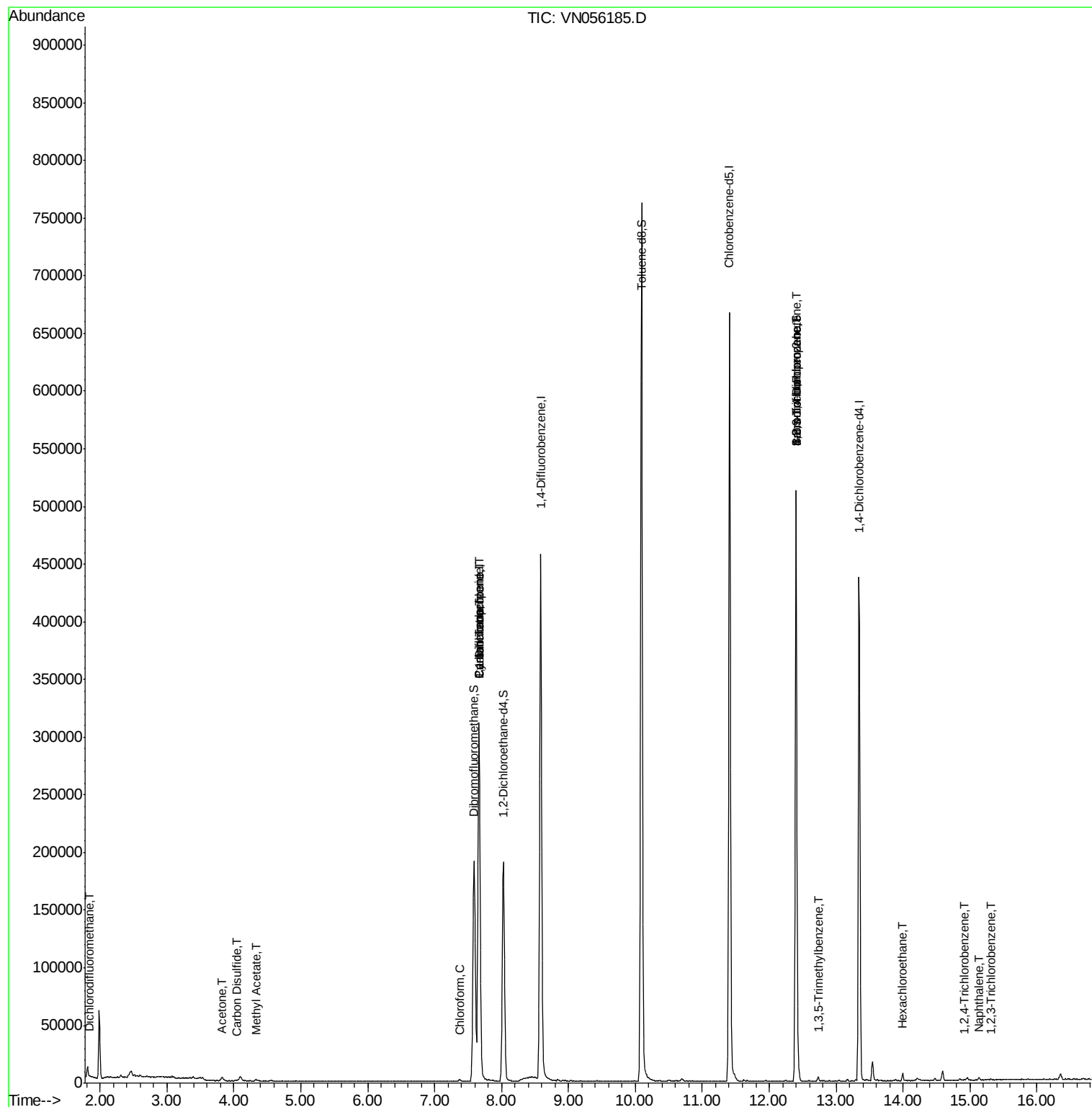
						Qvalue
2) Dichlorodifluoromethane	1.85	85	63	0.374	ug/l #	42
16) Acetone	3.82	43	5522	3.916	ug/l	93
17) Carbon Disulfide	4.04	76	1194	0.200	ug/l #	74
18) Methyl Acetate	4.33	43	2177	0.210	ug/l #	80
30) Chloroform	7.37	83	1735	0.367	ug/l	88
31) Cyclohexane	7.66	56	4284	0.916	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16877	4.372	ug/l #	48
38) Carbon Tetrachloride	7.66	117	24009	6.746	ug/l #	14
71) Bromoform	12.40	173	1360	3.254	ug/l #	1
73) Isopropylbenzene	12.25	105	936	Below Cal	#	73
76) 1,2,3-Trichloropropane	12.40	75	81241	32.813	ug/l #	100
79) 2-Chlorotoluene	12.68	91	260	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	2429	0.268	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	81241	109.272	ug/l #	15
83) tert-Butylbenzene	12.99	119	180	Below Cal	#	28
90) Hexachloroethane	13.99	117	4226	3.106	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	491	4.451	ug/l #	85
94) Hexachlorobutadiene	15.01	225	175	Below Cal	#	19
95) Naphthalene	15.13	128	2817	4.255	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.31	180	577	3.246	ug/l	87

(#) = 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: VN056185.D

Acq: 10 Jun 2019 22:54

Instrument :

MSVOA_N

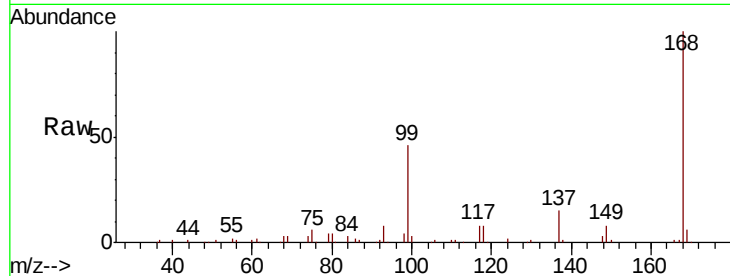
ClientSampleId :

Tot Ion:168 Resp: 296916

Ion Ratio Lower Upper

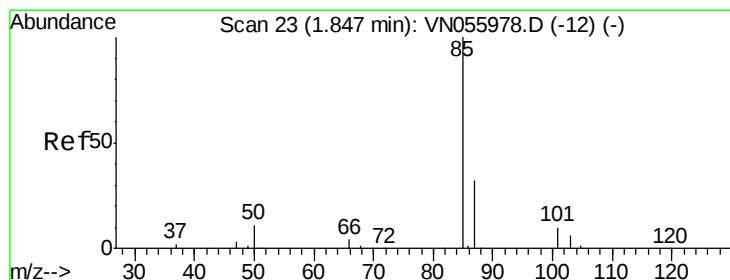
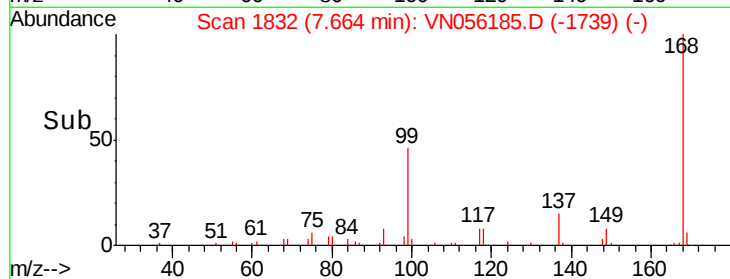
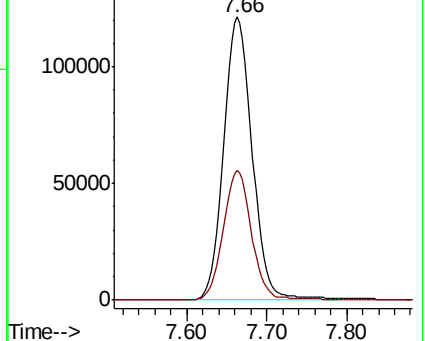
168 100

99 45.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 0.374 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN056185.D

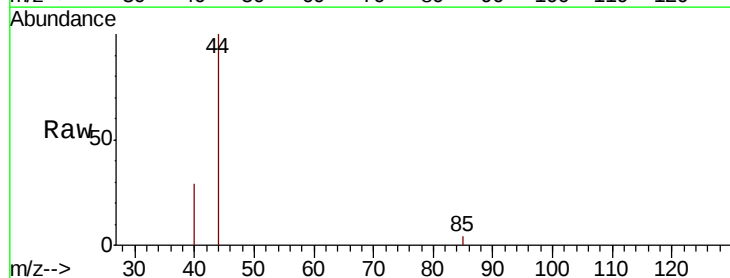
Acq: 10 Jun 2019 22:54

Tgt Ion: 85 Resp: 63

Ion Ratio Lower Upper

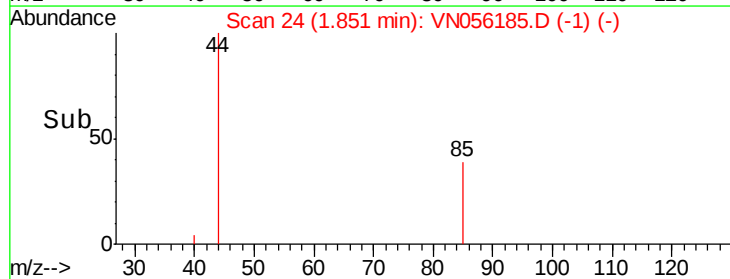
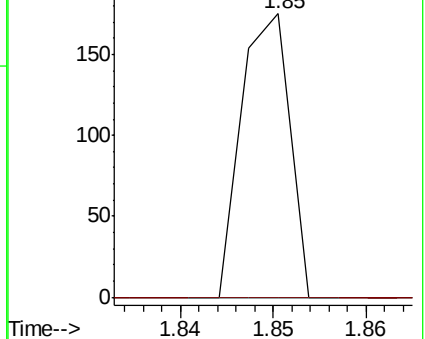
85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#16

Acetone

Concen: 3.916 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

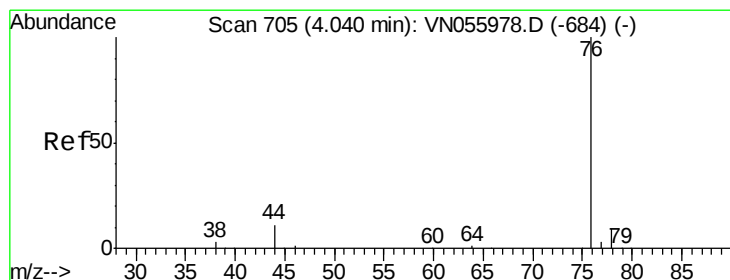
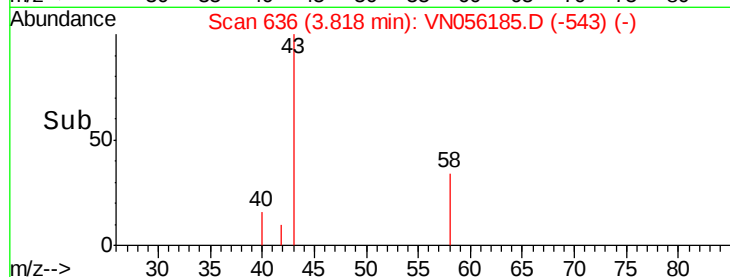
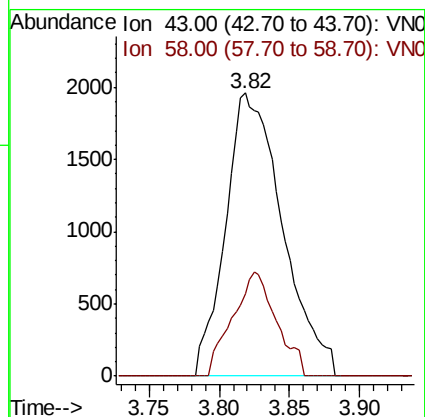
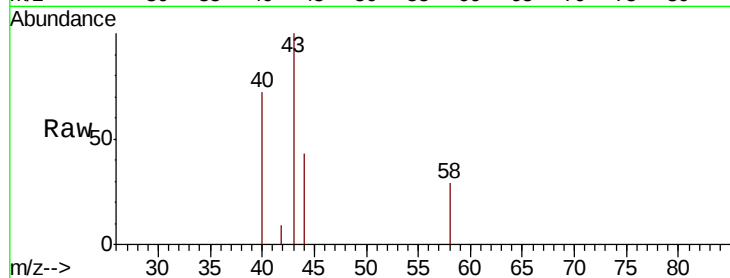
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 5522

Ion Ratio Lower Upper

43 100

58 29.0 26.6 39.8



#17

Carbon Disulfide

Concen: 0.200 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN056185.D

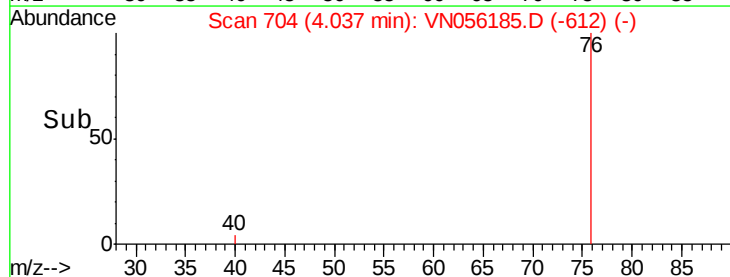
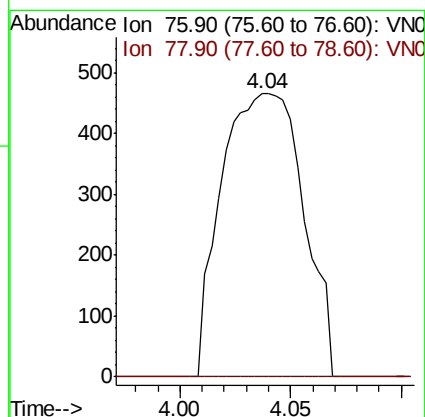
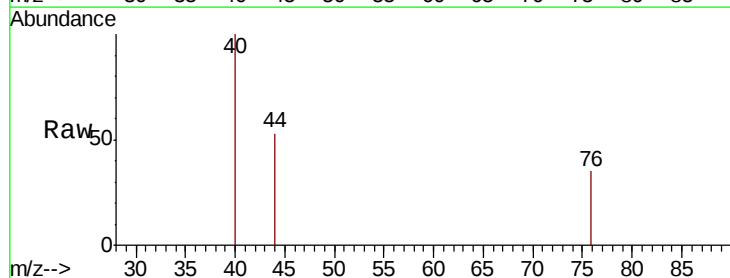
Acq: 10 Jun 2019 22:54

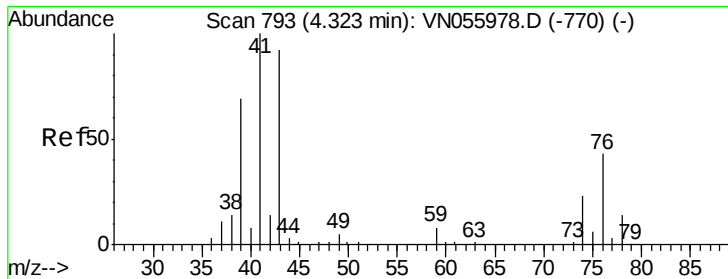
Tgt Ion: 76 Resp: 1194

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#

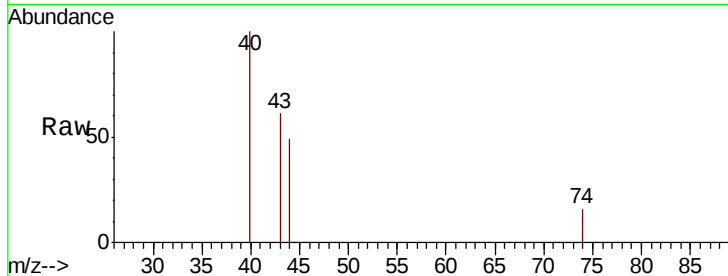




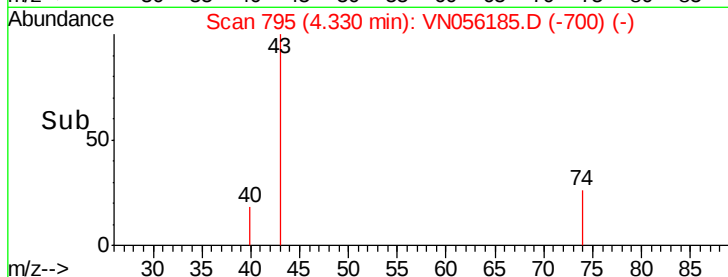
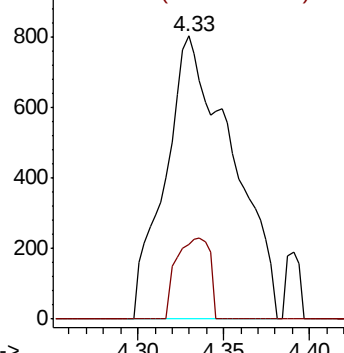
#18
Methvl Acetate
Concen: 0.210 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN056185.D
Acq: 10 Jun 2019 22:54

Instrument :
MSVOA_N
ClientSampled :

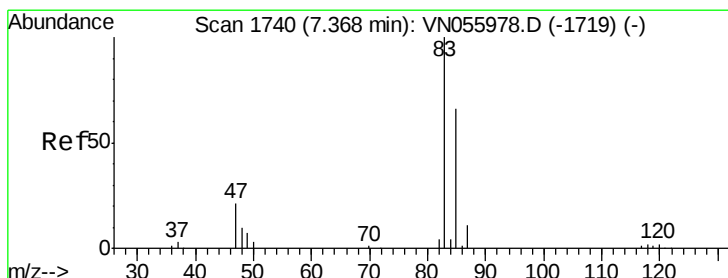
Tot Ion: 43 Resp: 2177
Ion Ratio Lower Upper
43 100
74 14.2 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 74.00 (73.70 to 74.70): VN0

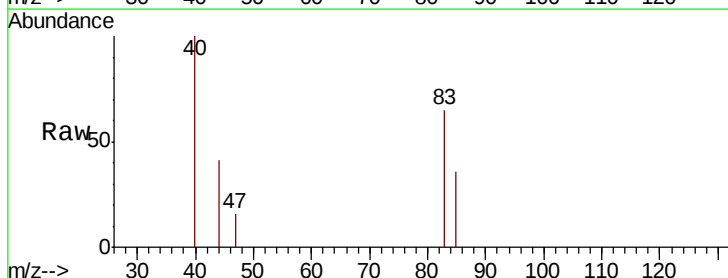


Time-->

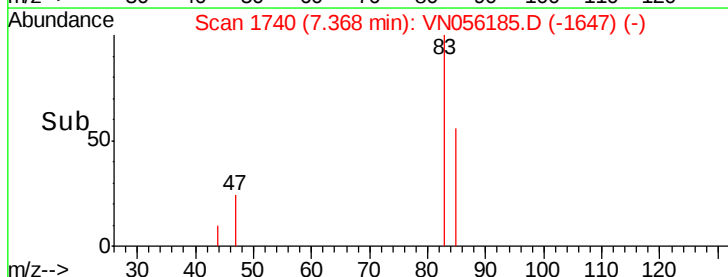
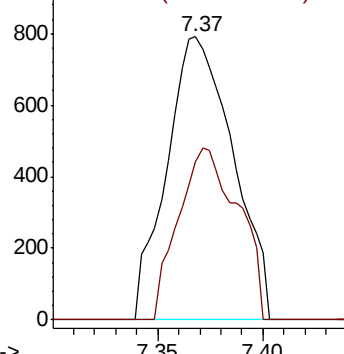


#30
Chloroform
Concen: 0.367 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VN056185.D
Acq: 10 Jun 2019 22:54

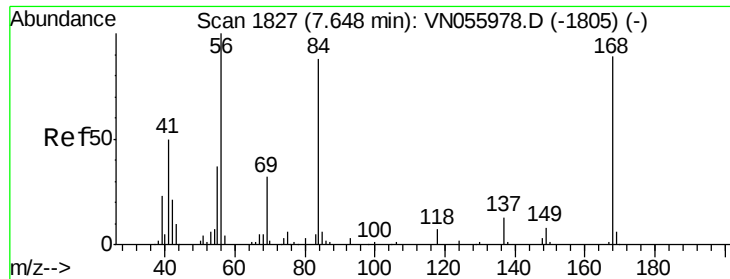
Tgt Ion: 83 Resp: 1735
Ion Ratio Lower Upper
83 100
85 55.6 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0



Time-->



#31

Cyclohexane

Concen: 0.916 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

Instrument :

MSVOA_N

ClientSampled :

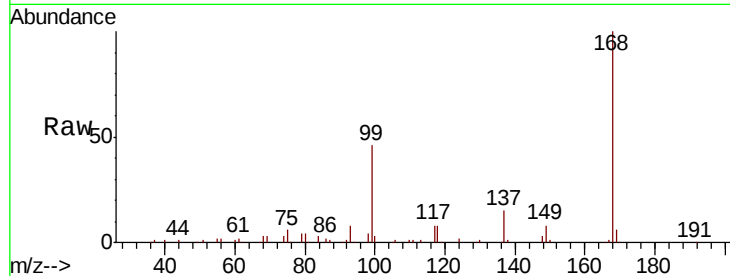
Tot Ion: 56 Resp: 4284

Ion Ratio Lower Upper

56 100

69 194.9 25.6 38.4#

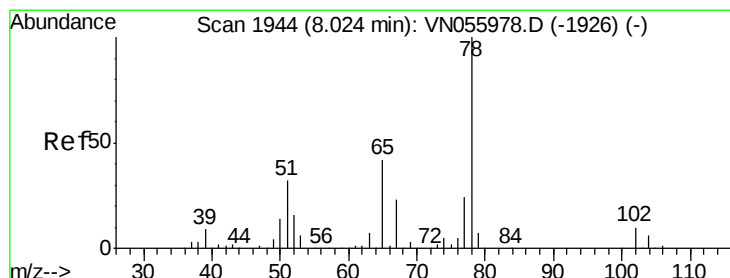
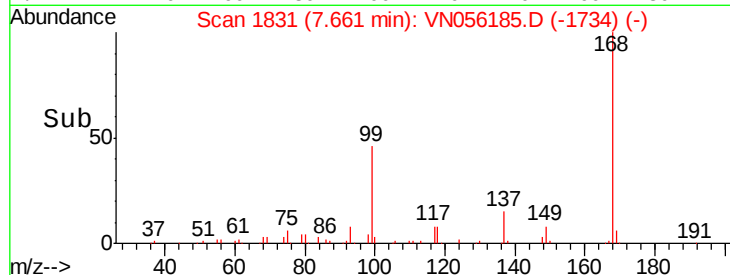
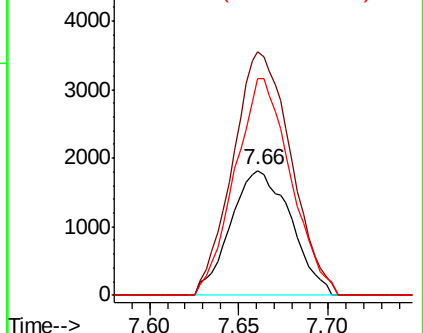
84 173.0 67.4 101.0#



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: 54.363 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056185.D

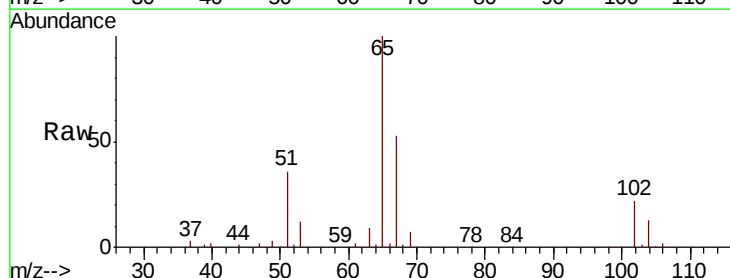
Acq: 10 Jun 2019 22:54

Tgt Ion: 65 Resp: 160268

Ion Ratio Lower Upper

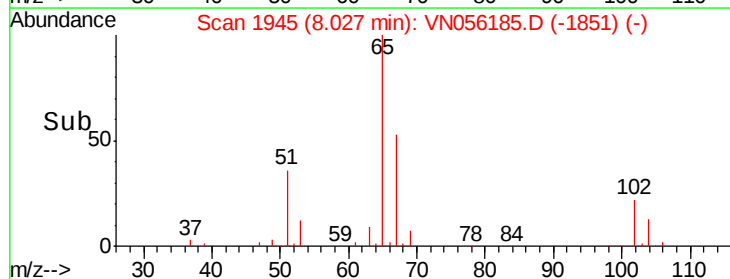
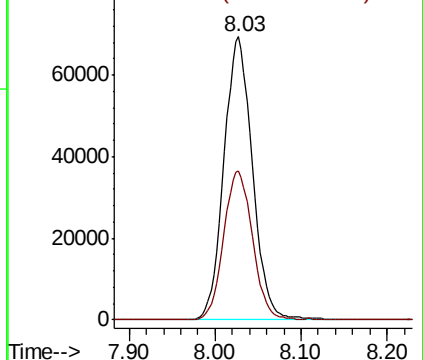
65 100

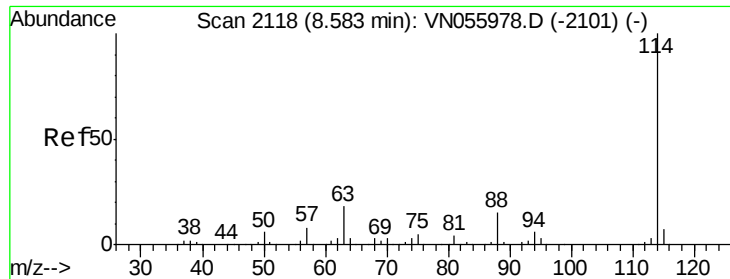
67 53.2 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

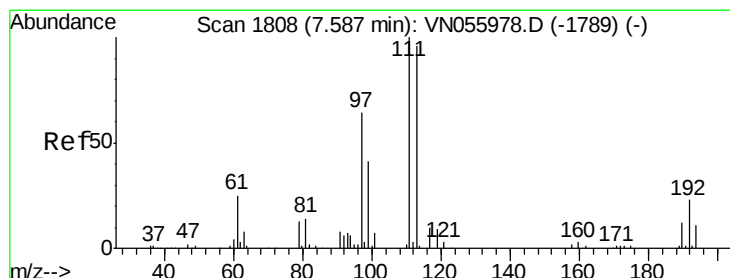
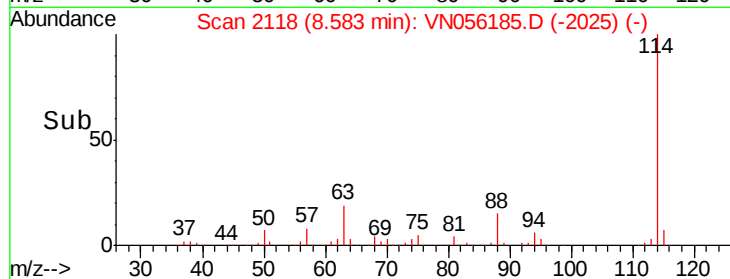
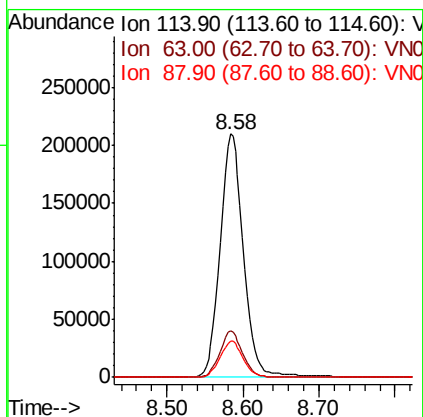
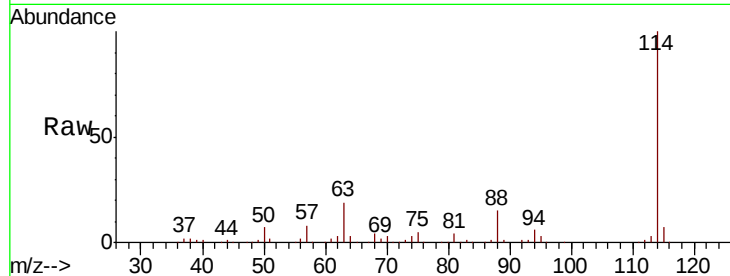




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056185.D
 Acq: 10 Jun 2019 22:54

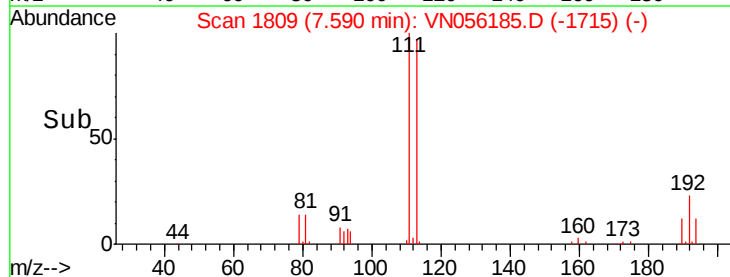
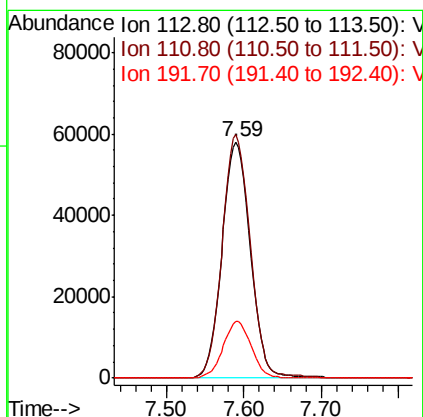
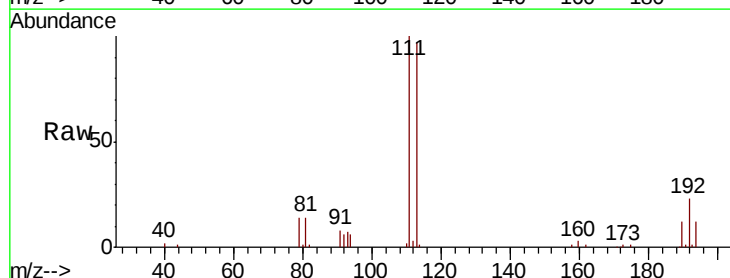
Instrument :
 MSVOA_N
 ClientSampled :

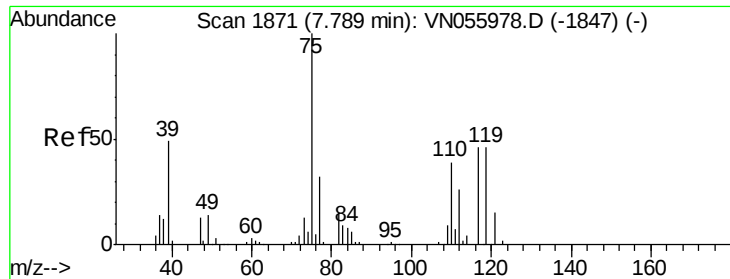
Tot Ion:114 Resp: 448963
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 14.8 0.0 31.0



#35
 Dibromofluoromethane
 Concen: 53.620 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056185.D
 Acq: 10 Jun 2019 22:54

Tgt Ion:113 Resp: 147699
 Ion Ratio Lower Upper
 113 100
 111 101.4 81.9 122.9
 192 23.8 19.5 29.3





#36

1,1-Dichloropropene

Concen: 4.372 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

Instrument :
MSVOA_N
ClientSampled :

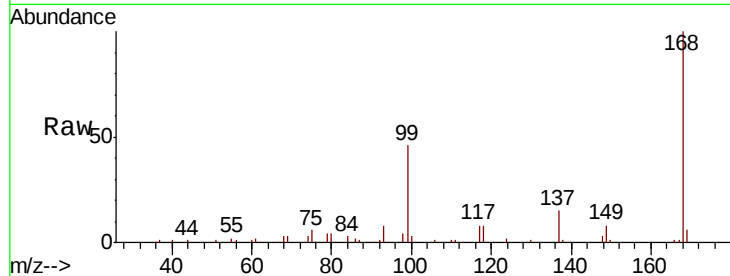
Tot Ion: 75 Resp: 16877

Ion Ratio Lower Upper

75 100

110 8.7 19.0 57.0#

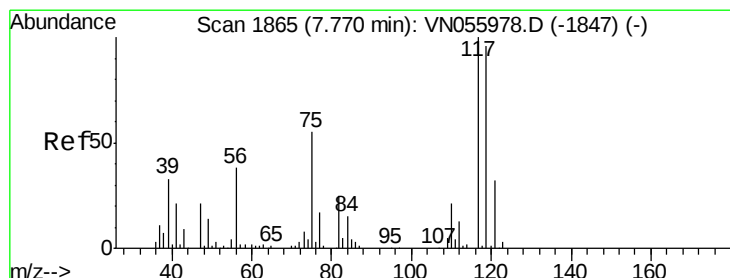
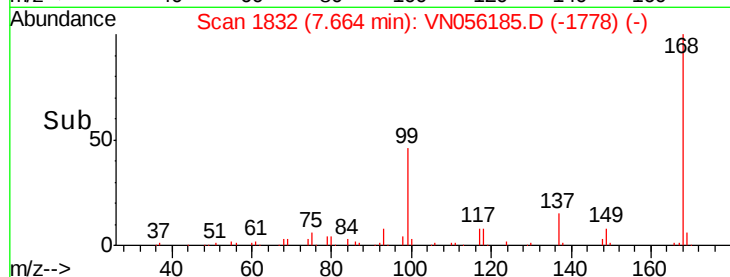
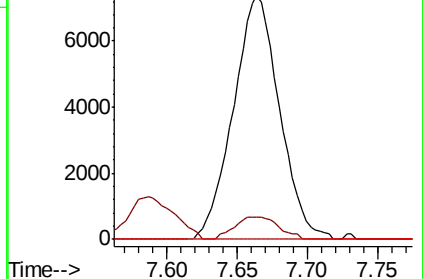
77 0.0 25.1 37.7#



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: 6.746 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

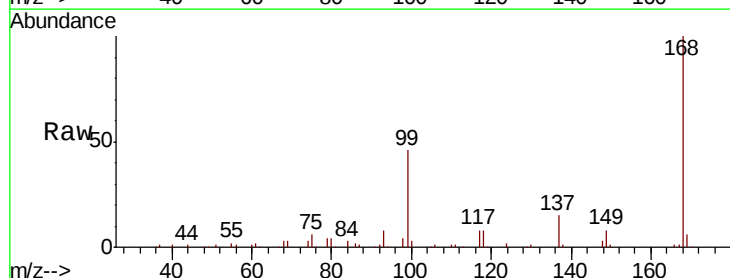
Tgt Ion: 117 Resp: 24009

Ion Ratio Lower Upper

117 100

119 3.9 79.0 118.6#

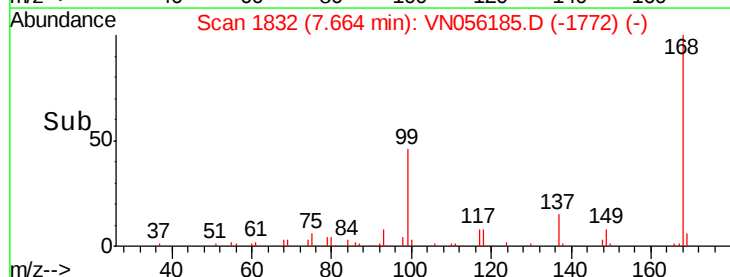
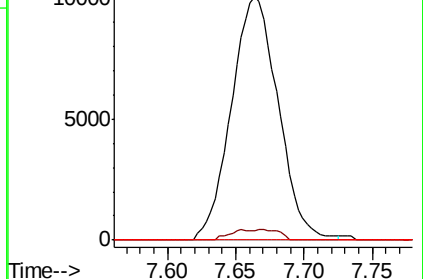
121 0.0 24.7 37.1#

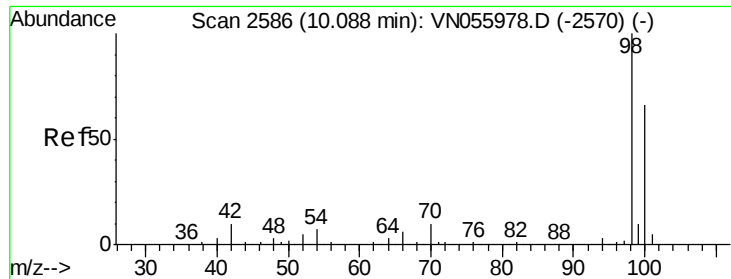


Abundance Ion 116.80 (116.50 to 117.50): VN055978.D (-1847) (-)

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

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





#50

Toluene-d8

Concen: 54.240 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

Instrument :

MSVOA_N

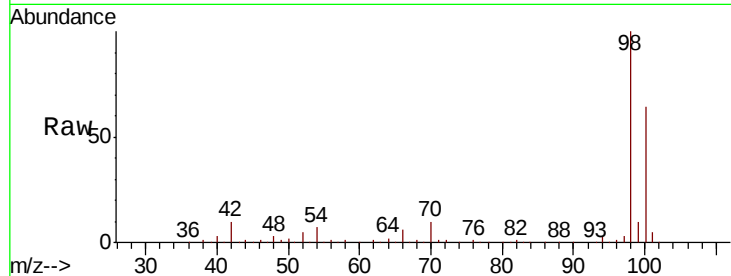
ClientSampled :

Tot Ion: 98 Resp: 574914

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) (-)

10.09

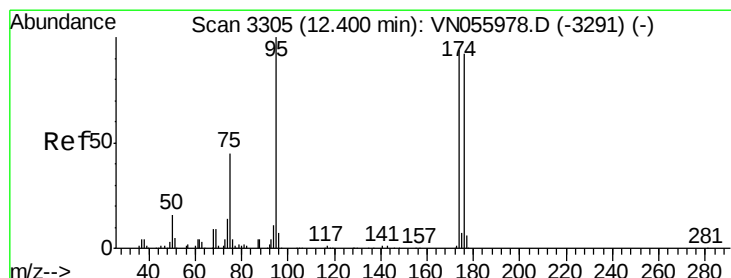
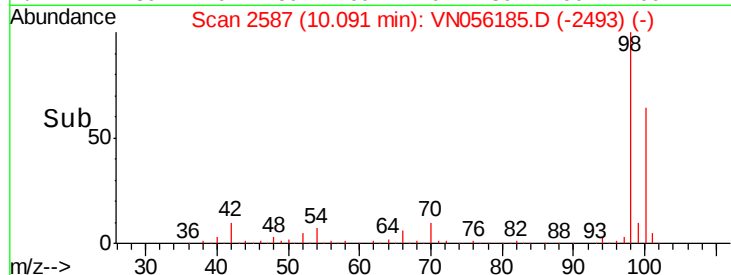
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.947 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

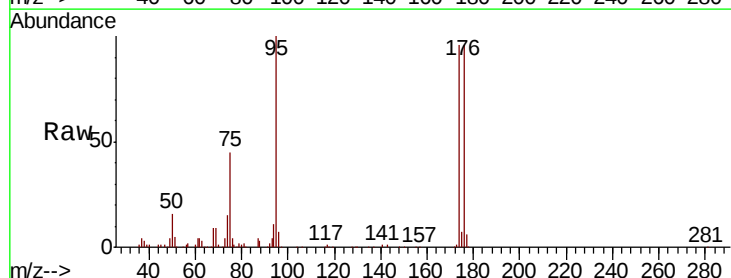
Tgt Ion: 95 Resp: 180040

Ion Ratio Lower Upper

95 100

174 97.0 0.0 191.0

176 95.3 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) (-)

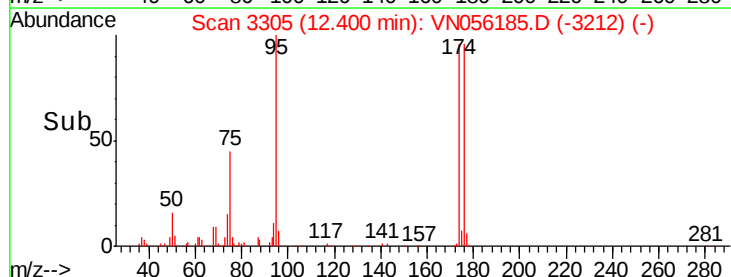
12.40

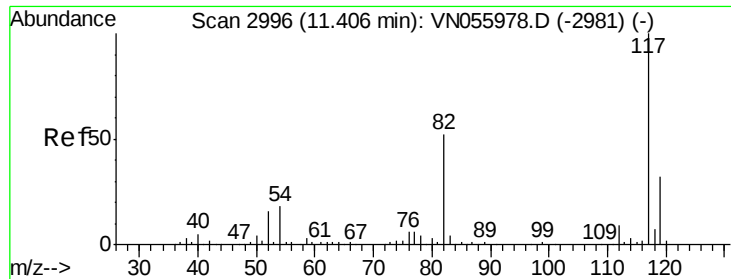
100000

50000

0

Time-->

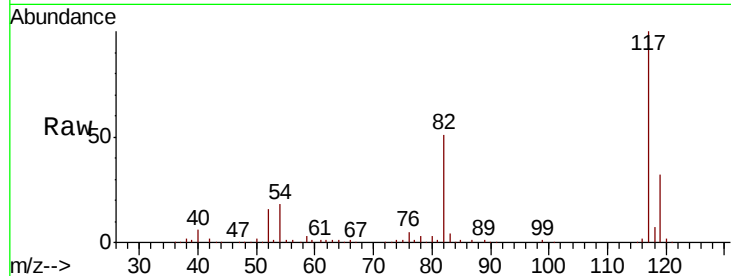




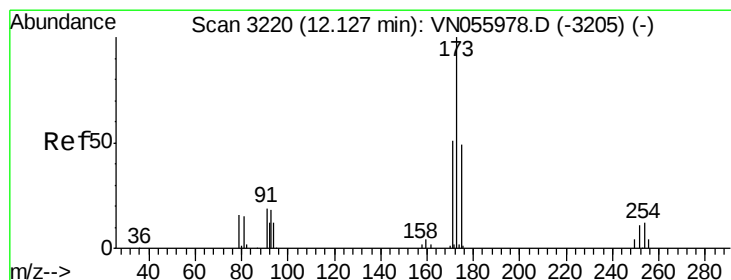
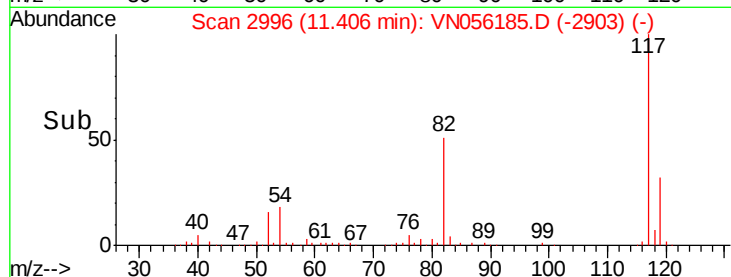
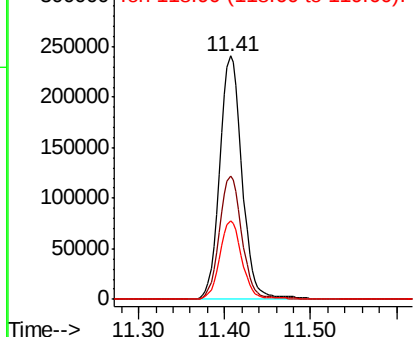
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056185.D
Acq: 10 Jun 2019 22:54

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 435203
Ion Ratio Lower Upper
117 100
82 50.9 41.8 62.8
119 32.0 25.4 38.0

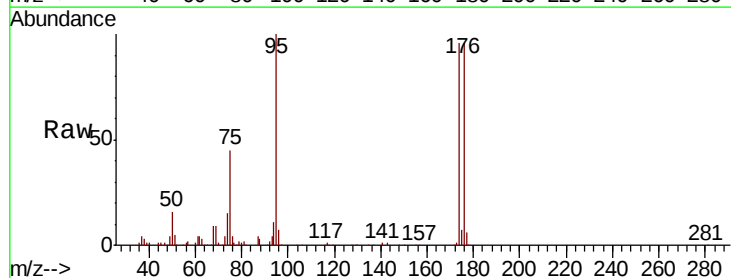


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

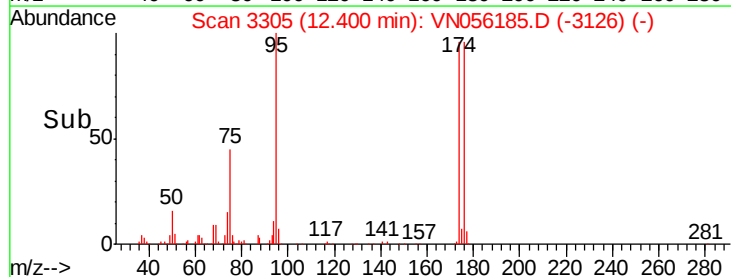
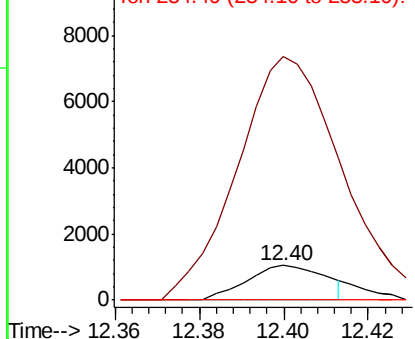


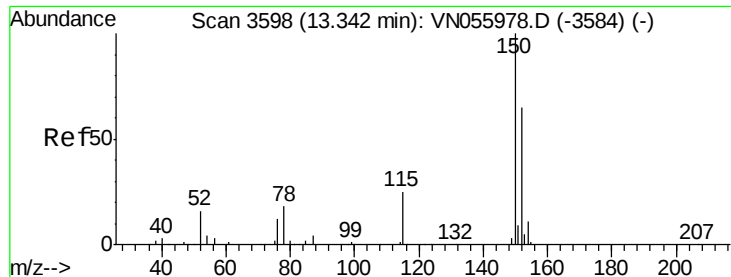
#71
Bromoform
Concen: 3.254 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056185.D
Acq: 10 Jun 2019 22:54

Tgt Ion:173 Resp: 1360
Ion Ratio Lower Upper
173 100
175 798.7 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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

Instrument :

MSVOA_N

ClientSampleId :

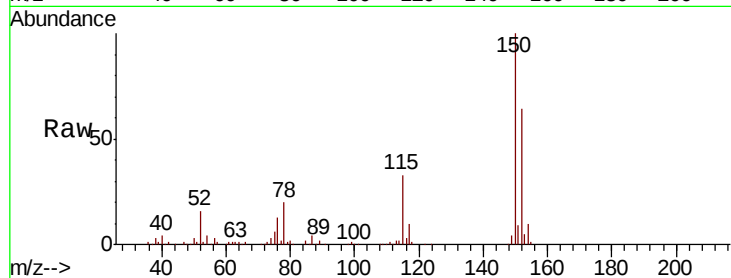
Tot Ion:152 Resp: 134557

Ion Ratio Lower Upper

152 100

115 52.2 27.0 81.0

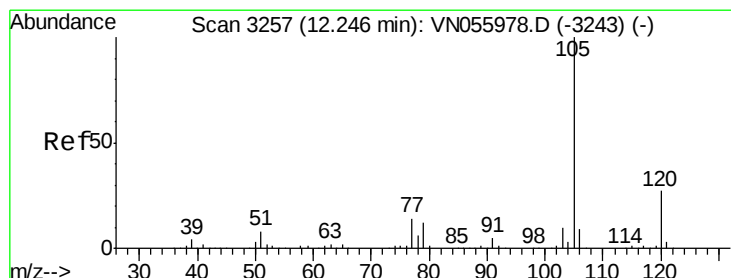
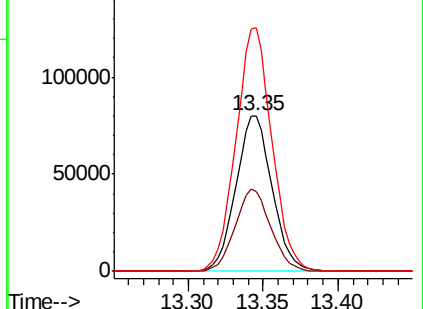
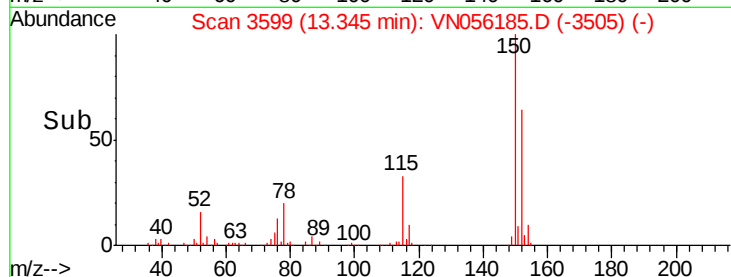
150 156.2 0.0 343.2



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: VN056185.D

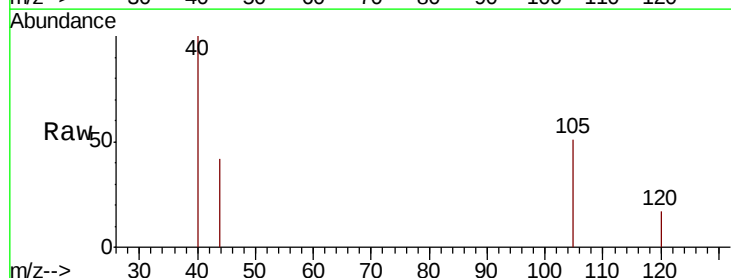
Acq: 10 Jun 2019 22:54

Tgt Ion:105 Resp: 936

Ion Ratio Lower Upper

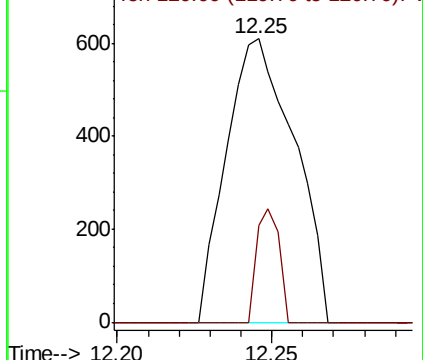
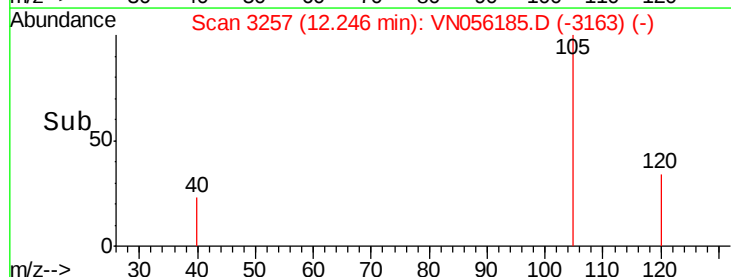
105 100

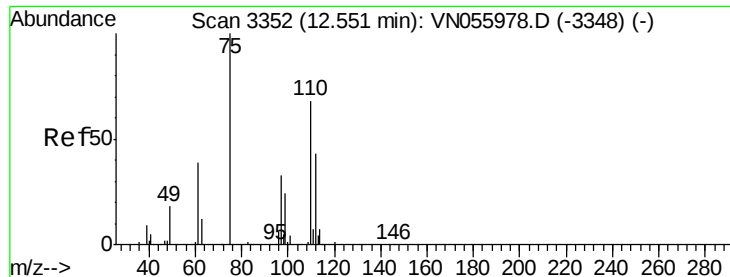
120 13.2 13.6 40.7#



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: 32.813 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

Instrument :

MSVOA_N

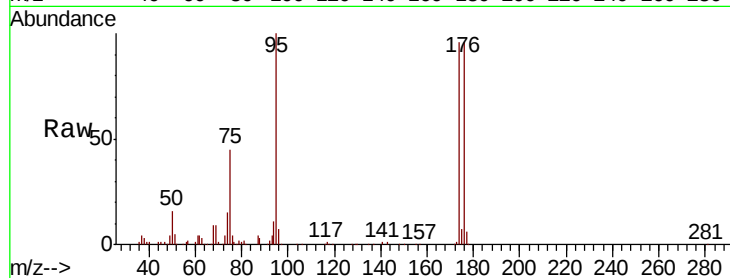
ClientSampleId :

Tot Ion: 75 Resp: 81241

Ion Ratio Lower Upper

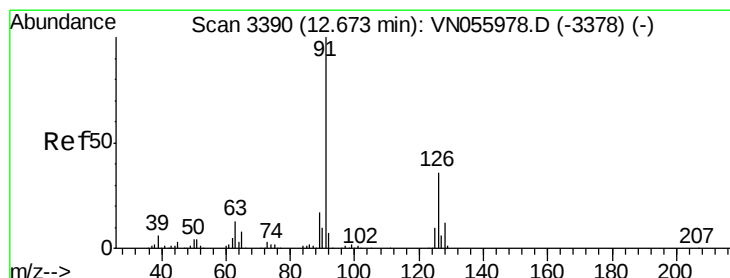
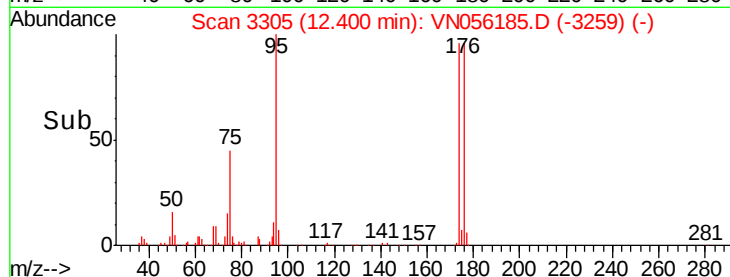
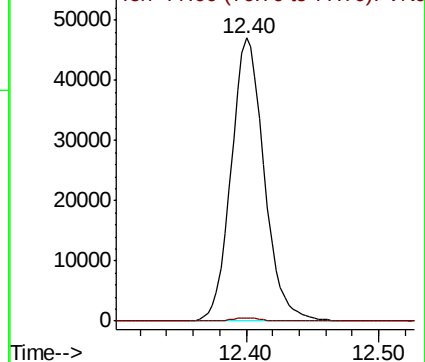
75 100

77 0.9 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# 3391

Delta R.T. 0.00 min

Lab File: VN056185.D

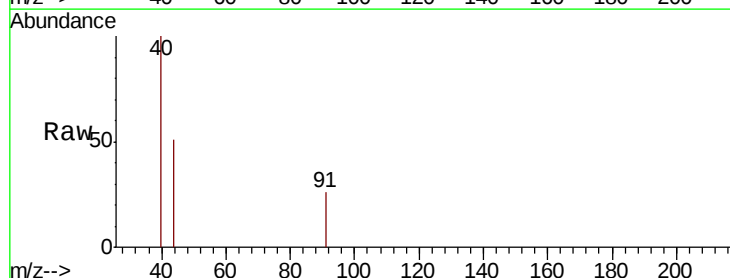
Acq: 10 Jun 2019 22:54

Tgt Ion: 91 Resp: 260

Ion Ratio Lower Upper

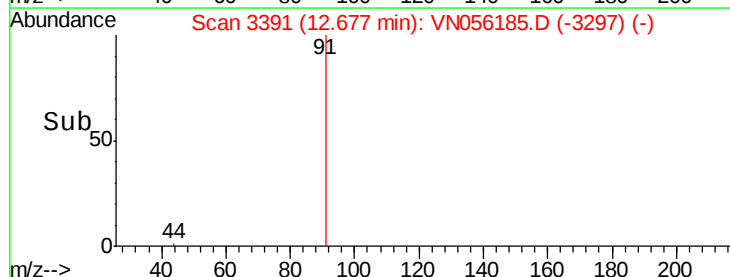
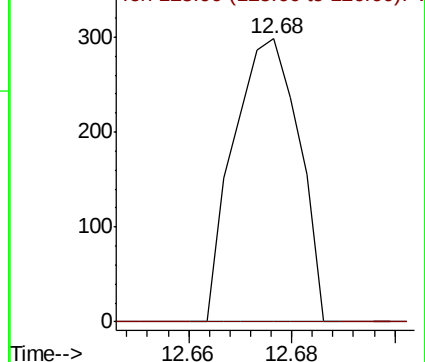
91 100

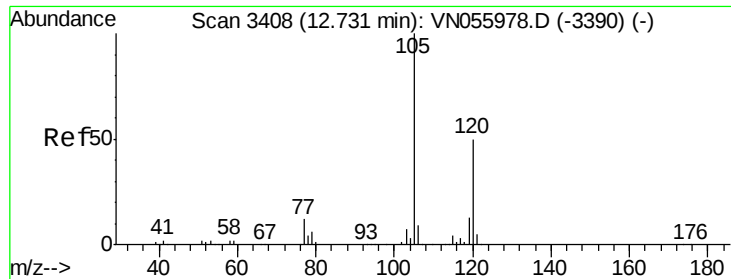
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

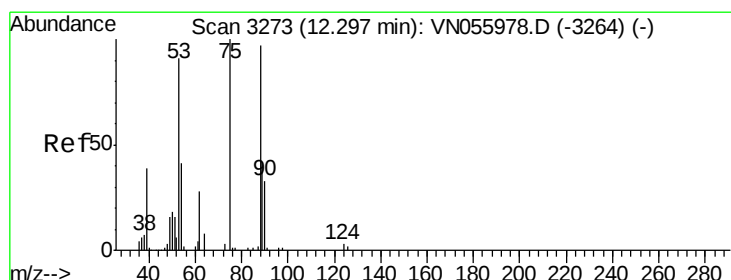
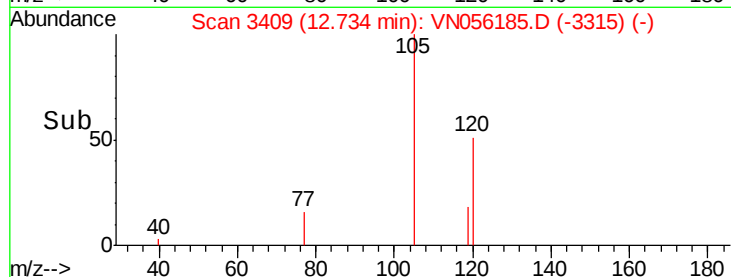
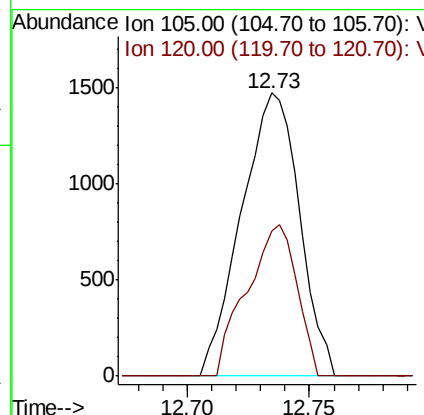
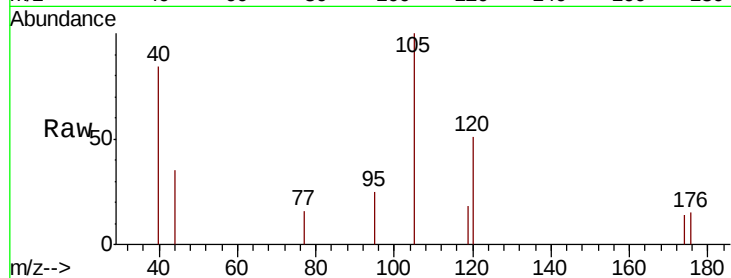




#80
 1,3,5-Trimethylbenzene
 Concen: 0.268 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN056185.D
 Acq: 10 Jun 2019 22:54

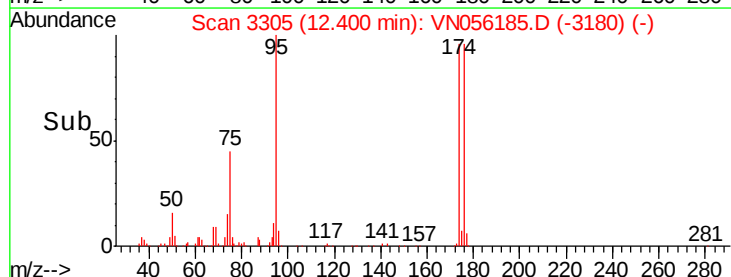
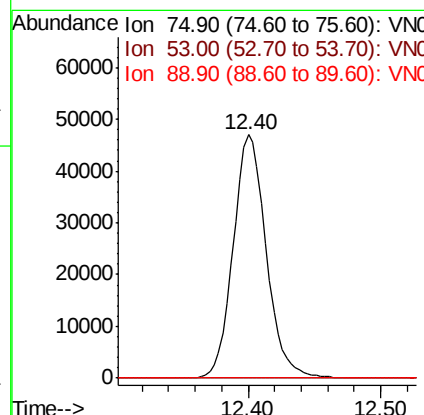
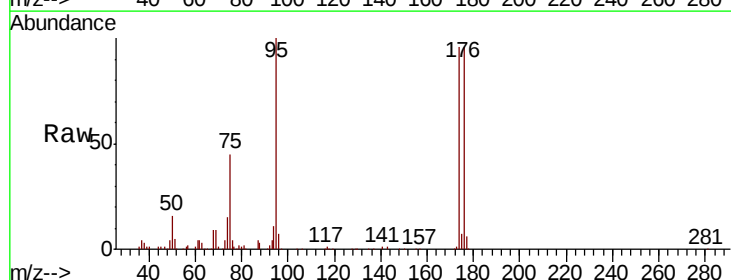
Instrument :
 MSVOA_N
 ClientSampleId :

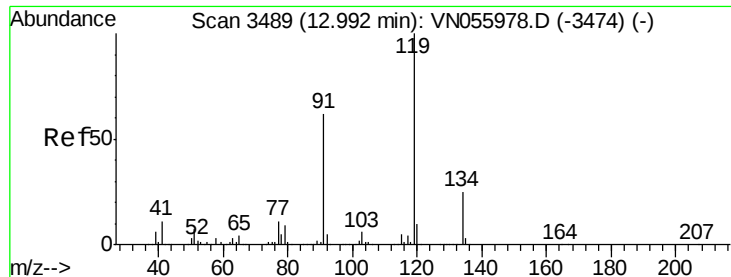
Tot Ion:105 Resp: 2429
 Ion Ratio Lower Upper
 105 100
 120 46.2 24.7 74.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 109.272 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056185.D
 Acq: 10 Jun 2019 22:54

Tgt Ion: 75 Resp: 81241
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#

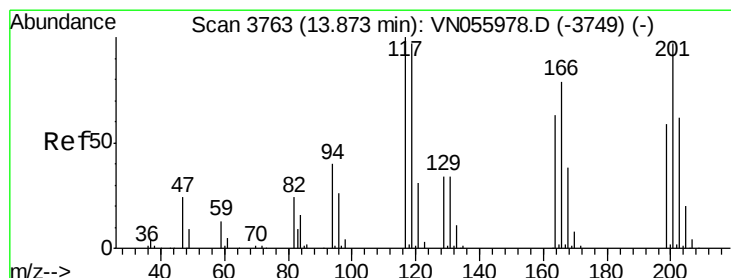
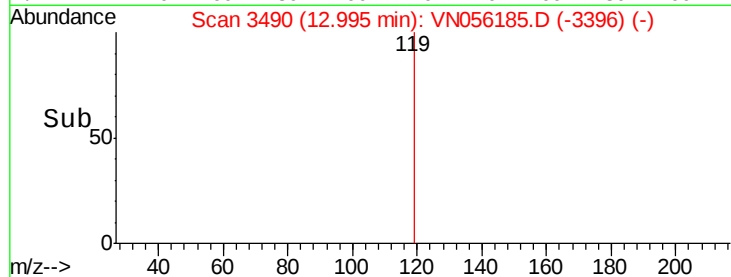
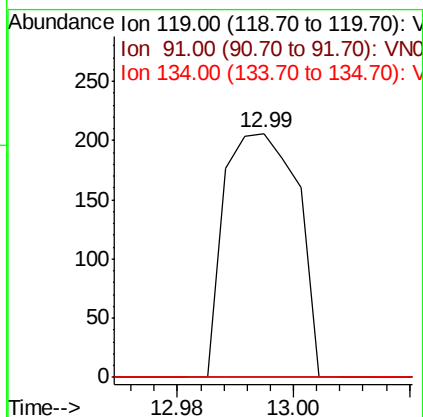
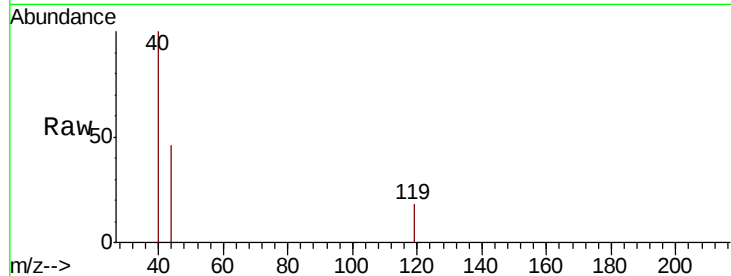




#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN056185.D
Acq: 10 Jun 2019 22:54

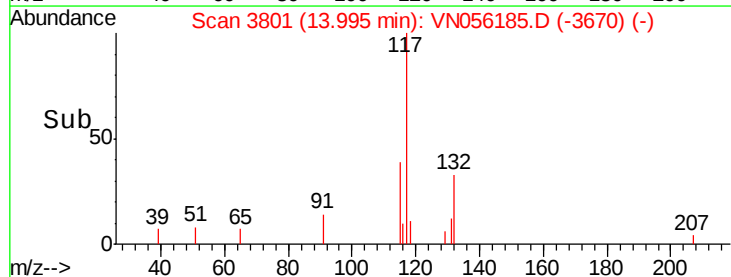
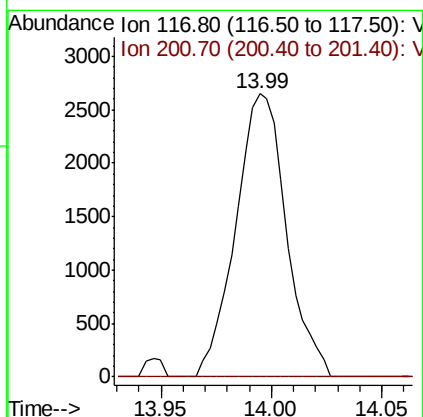
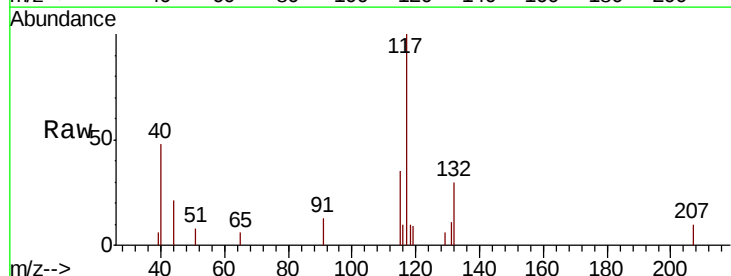
Instrument :
MSVOA_N
ClientSampled :

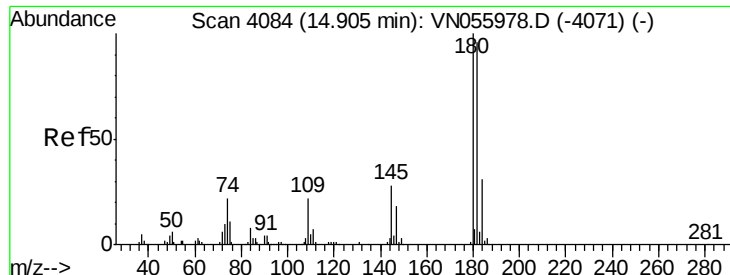
Tot Ion:119 Resp: 180
Ion Ratio Lower Upper
119 100
91 0.0 30.9 92.8#
134 0.0 13.3 39.8#



#90
Hexachloroethane
Concen: 3.106 ug/l
RT: 13.99 min Scan# 3801
Delta R.T. 0.12 min
Lab File: VN056185.D
Acq: 10 Jun 2019 22:54

Tgt Ion:117 Resp: 4226
Ion Ratio Lower Upper
117 100
201 0.0 50.0 150.0#

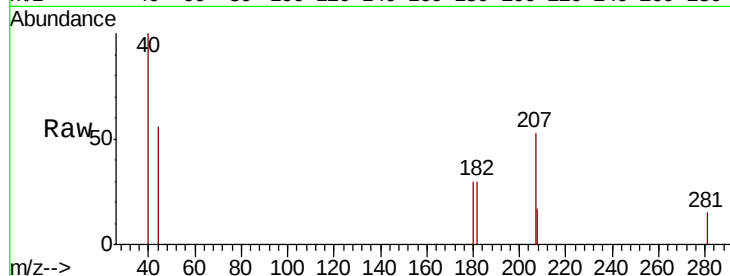




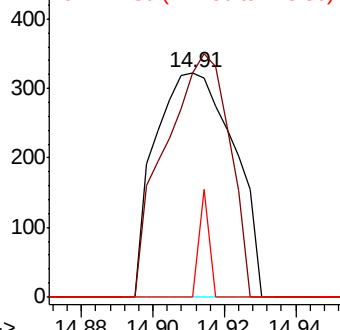
#93
 1,2,4-Trichlorobenzene
 Concen: 4.451 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056185.D
 Acq: 10 Jun 2019 22:54

Instrument :
 MSVOA_N
 ClientSampleId :

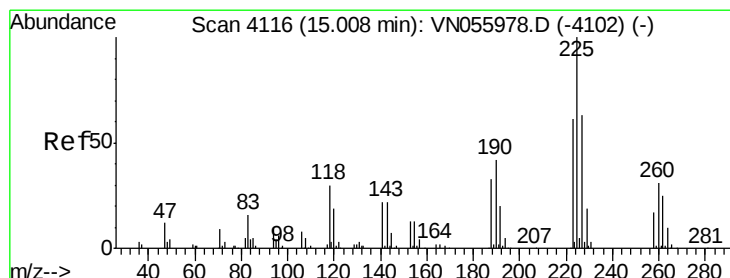
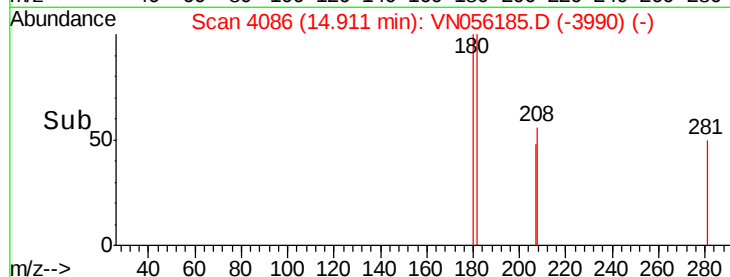
Tot Ion:180 Resp: 491
 Ion Ratio Lower Upper
 180 100
 182 88.8 48.3 144.9
 145 6.1 14.0 41.9#



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

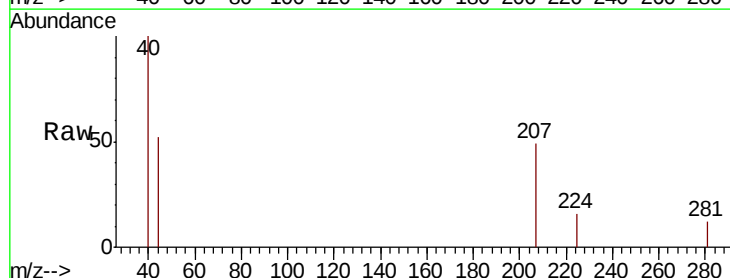


Time--> 14.88 14.90 14.92 14.94

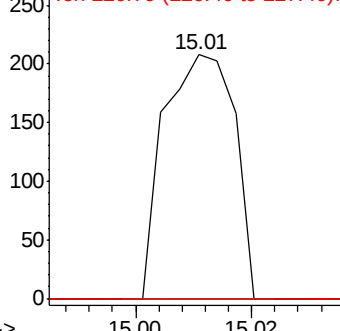


#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN056185.D
 Acq: 10 Jun 2019 22:54

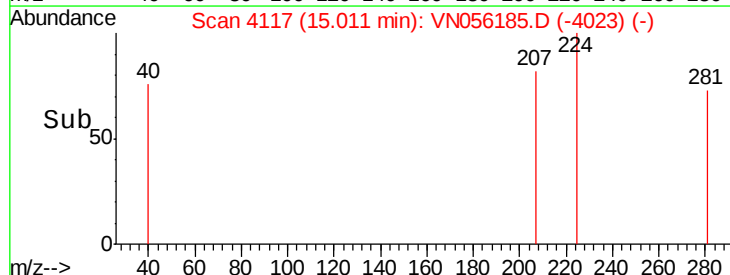
Tgt Ion:225 Resp: 175
 Ion Ratio Lower Upper
 225 100
 223 0.0 30.9 92.7#
 227 0.0 31.6 94.7#

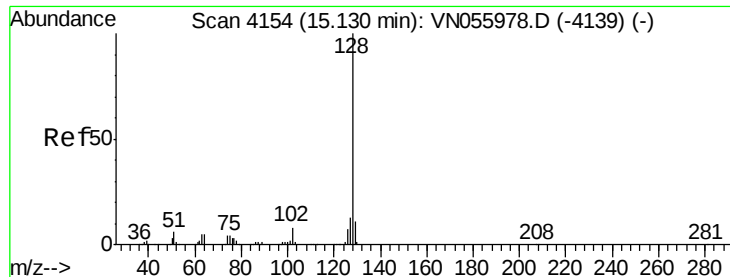


Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V



Time--> 15.00 15.02





#95

Naphthalene

Concen: 4.255 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

Instrument :

MSVOA_N

ClientSampleId :

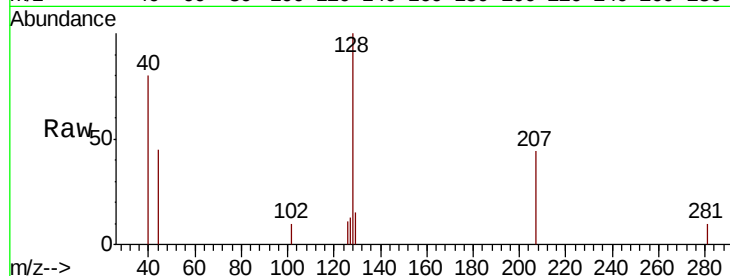
Tot Ion:128 Resp: 2817

Ion Ratio Lower Upper

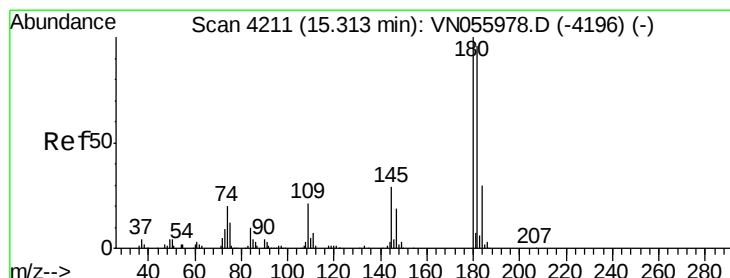
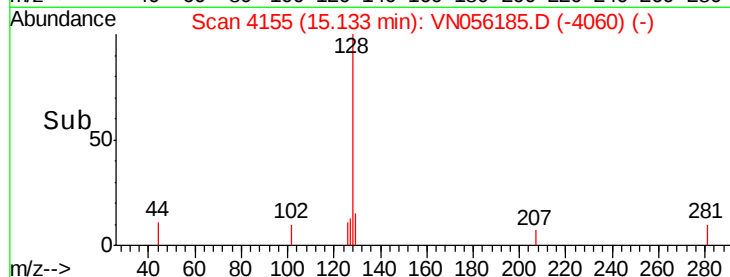
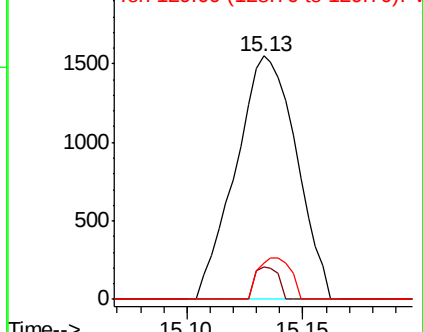
128 100

127 5.1 10.3 15.5#

129 9.2 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: 3.246 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056185.D

Acq: 10 Jun 2019 22:54

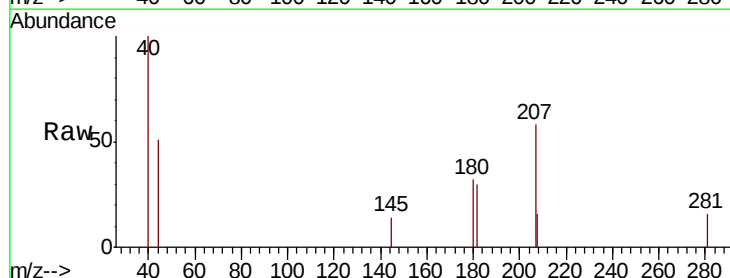
Tgt Ion:180 Resp: 577

Ion Ratio Lower Upper

180 100

182 83.9 47.9 143.7

145 22.0 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

