

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051244.D
 Acq On : 16 Sep 2018 00:55
 Operator : MD\SY
 Sample : PB112879ZHE#20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 04:24:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	436953	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	675636	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	546807	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	155271	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	238401	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
35) Dibromofluoromethane	7.59	113	255908	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
50) Toluene-d8	10.09	98	868512	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	
62) 4-Bromofluorobenzene	12.40	95	218407	34.27	ug/l	0.00
Spiked Amount			Recovery	=	68.54%	

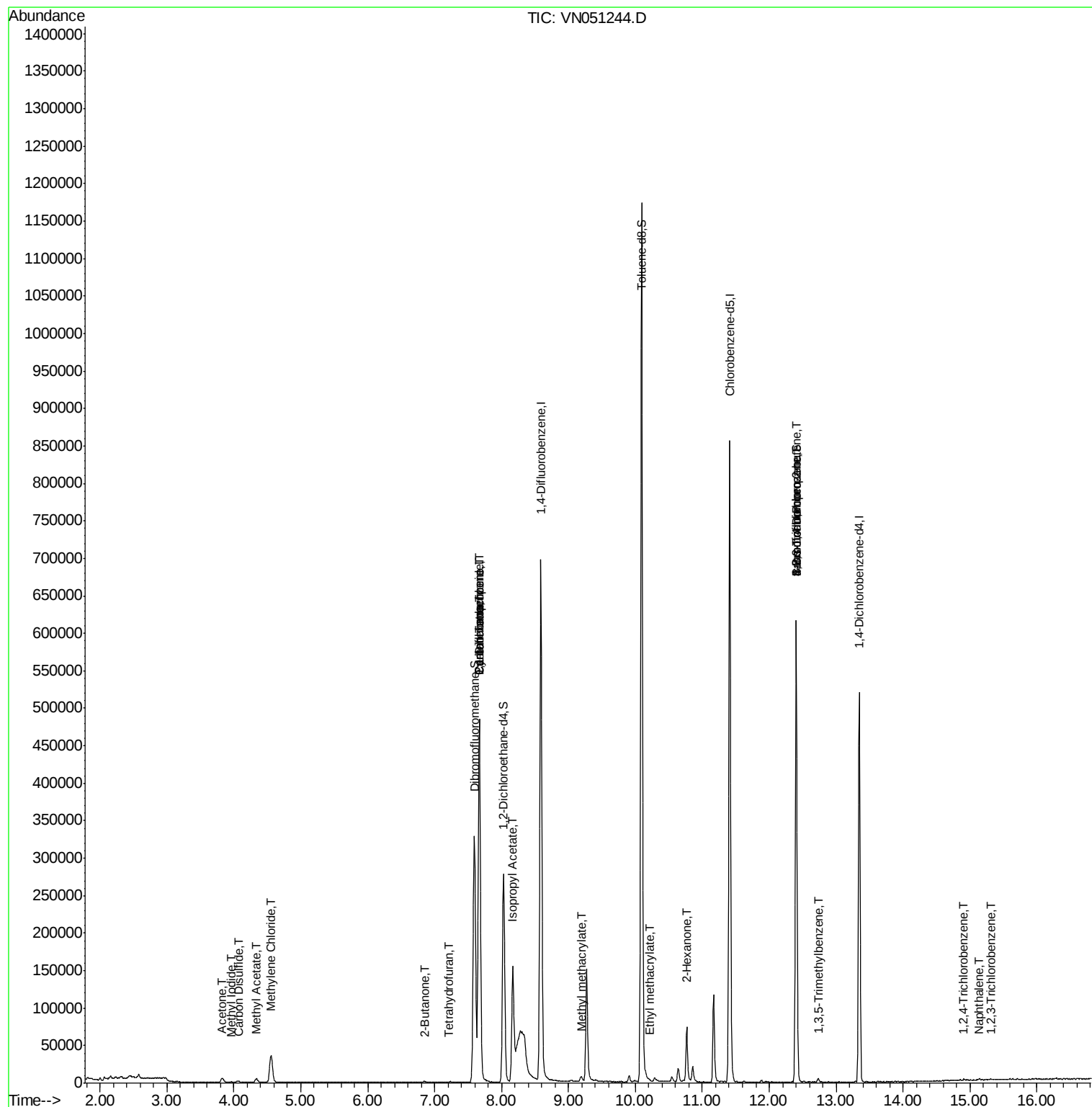
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2133	Below Cal		92
5) Bromomethane	2.57	94	2601	Below Cal		100
10) Methyl Iodide	3.96	142	779	5.78	ug/l #	54
16) Acetone	3.83	43	10400	2.88	ug/l	100
17) Carbon Disulfide	4.06	76	2995	0.33	ug/l #	76
18) Methyl Acetate	4.33	43	9896	2.54	ug/l	99
20) Methylene Chloride	4.56	84	29189	5.43	ug/l	94
25) 2-Butanone	6.85	43	1796	0.94	ug/l #	46
29) Tetrahydrofuran	7.22	42	480	0.40	ug/l #	42
31) Cyclohexane	7.67	56	6949	0.65	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	28894	3.90	ug/l #	48
38) Carbon Tetrachloride	7.67	117	37602	5.15	ug/l #	16
43) Isopropyl Acetate	8.17	43	189359	24.98	ug/l #	86
48) Methyl methacrylate	9.18	41	4518	1.22	ug/l #	16
56) Ethyl methacrylate	10.23	69	1178	2.62	ug/l #	70
59) 2-Hexanone	10.77	43	11028	3.88	ug/l #	58
71) Bromoform	12.40	173	726	0.21	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	101719	42.02	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2694	0.26	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	101719	124.42	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	617	4.19	ug/l #	51
94) Hexachlorobutadiene	15.00	225	210	Below Cal	#	38
95) Naphthalene	15.13	128	1429	5.56	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.31	180	658	3.18	ug/l	83

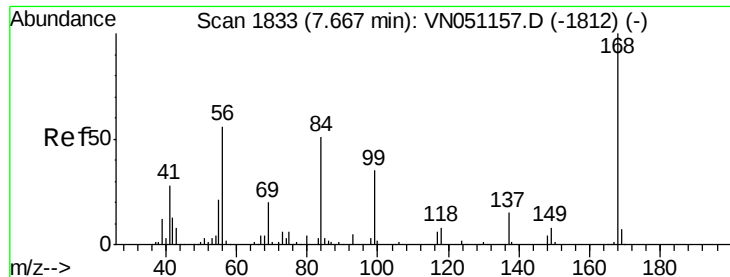
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

Instrument :

MSVOA_N

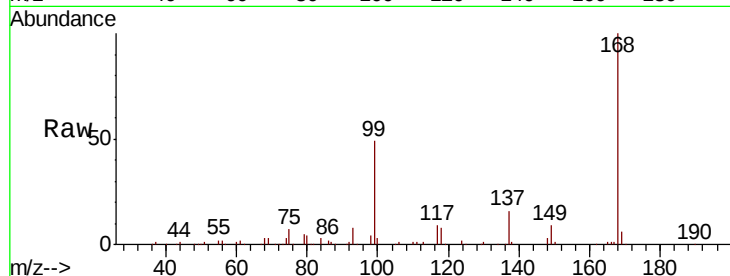
ClientSampled :

Tot Ion:168 Resp: 436953

Ion Ratio Lower Upper

168 100

99 49.1 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

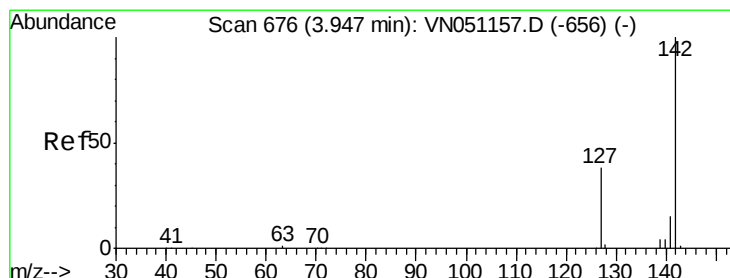
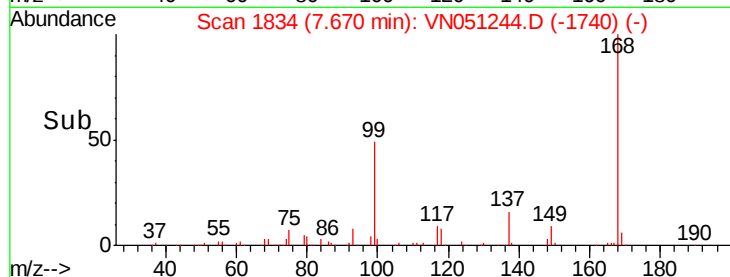
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 5.78 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.01 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

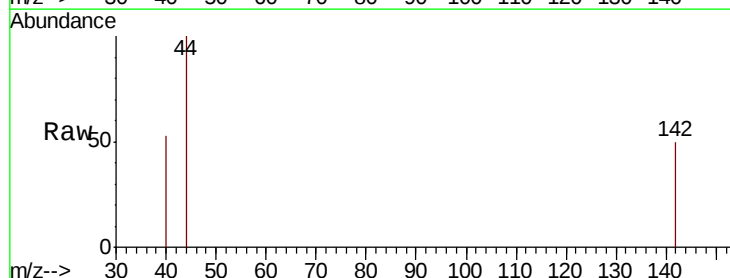
Tgt Ion:142 Resp: 779

Ion Ratio Lower Upper

142 100

127 7.8 31.0 46.4#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

500

400

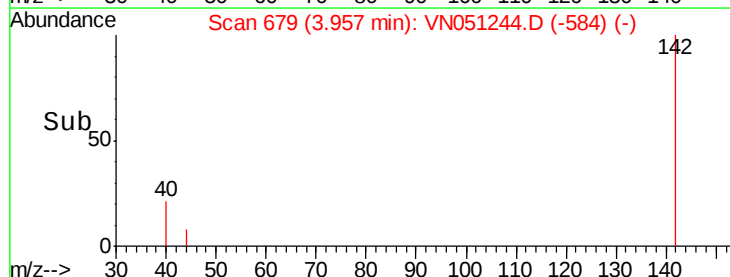
300

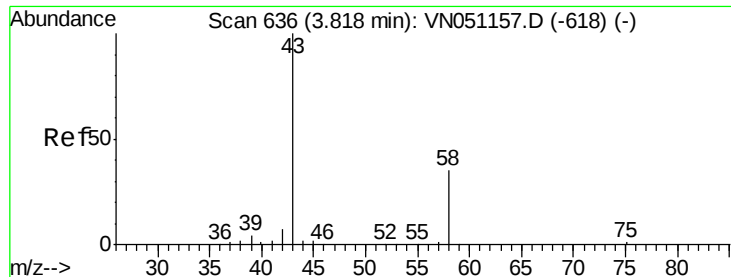
200

100

0

Time-->





#16

Acetone

Concen: 2.88 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

Instrument :

MSVOA_N

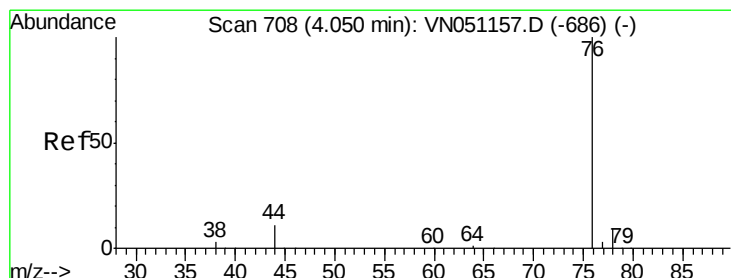
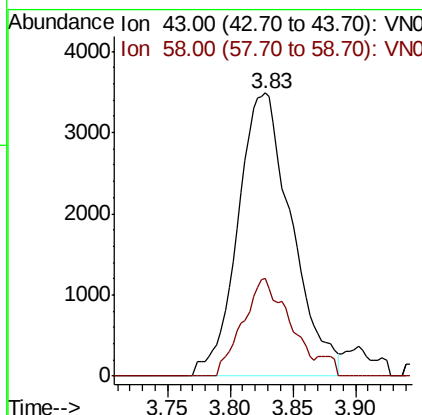
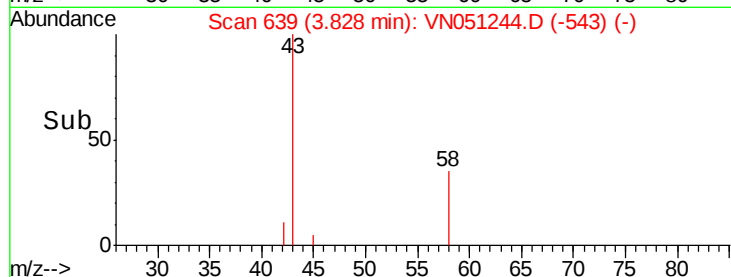
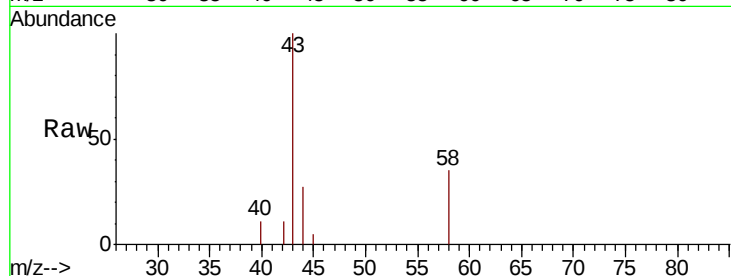
ClientSampleId :

Tot Ion: 43 Resp: 10400

Ion Ratio Lower Upper

43 100

58 34.7 27.8 41.6



#17

Carbon Disulfide

Concen: 0.33 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.01 min

Lab File: VN051244.D

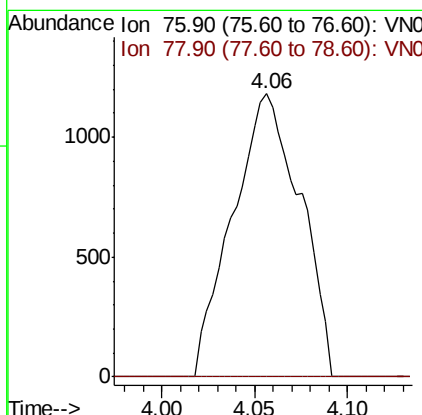
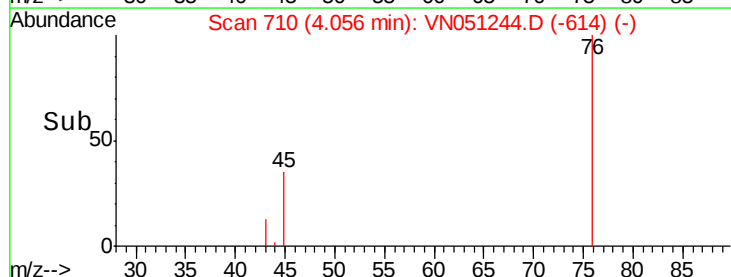
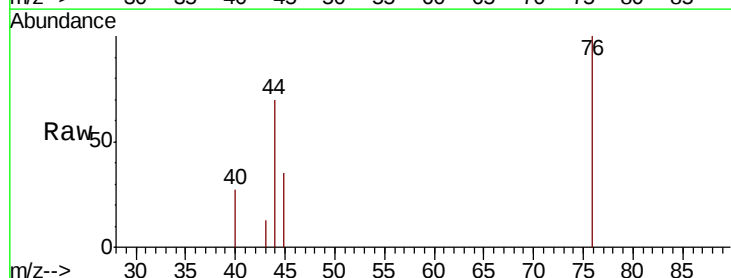
Acq: 16 Sep 2018 00:55

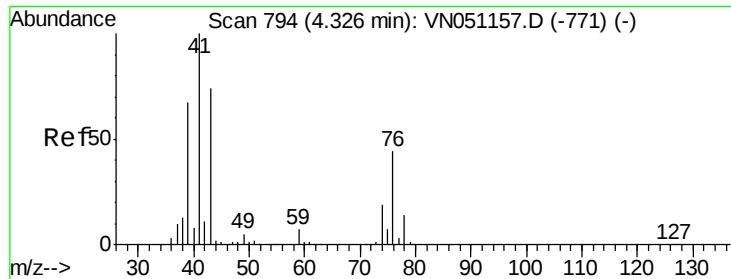
Tgt Ion: 76 Resp: 2995

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#

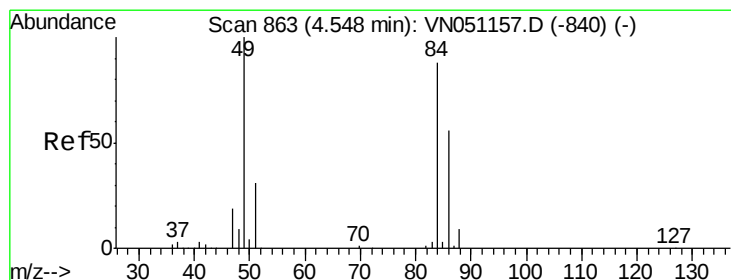
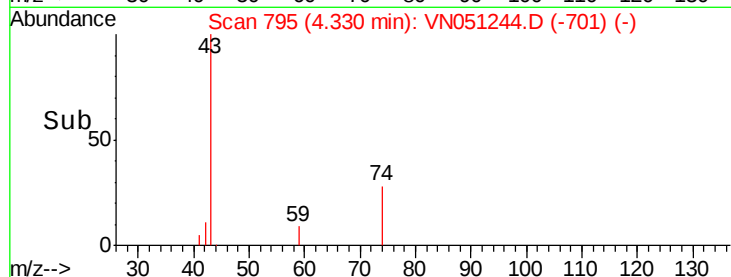
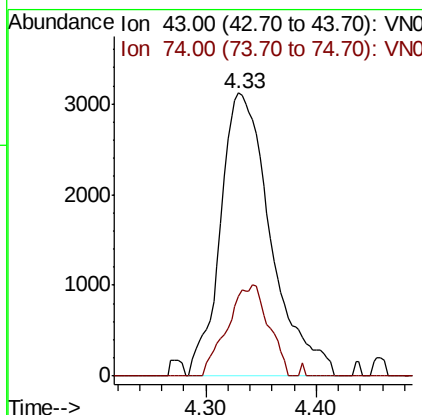
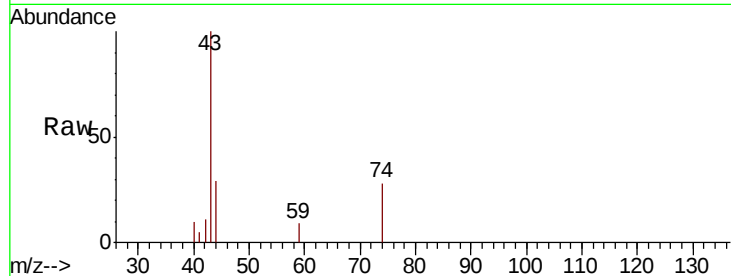




#18
Methvl Acetate
Concen: 2.54 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051244.D
Acq: 16 Sep 2018 00:55

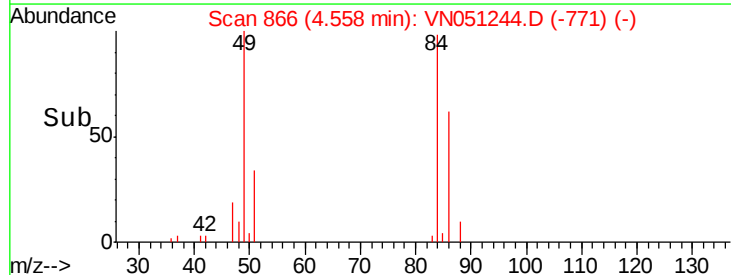
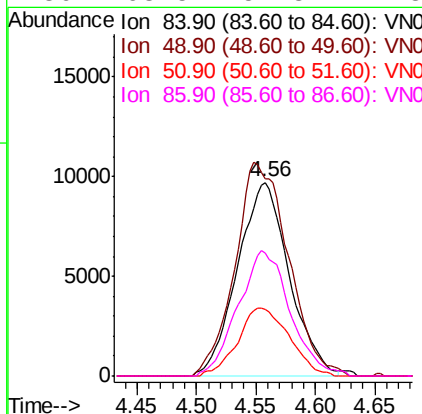
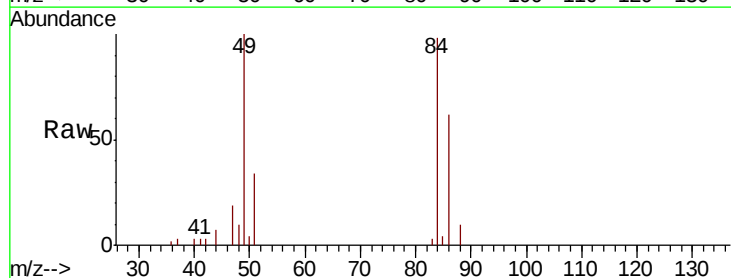
Instrument :
MSVOA_N
ClientSampleId :

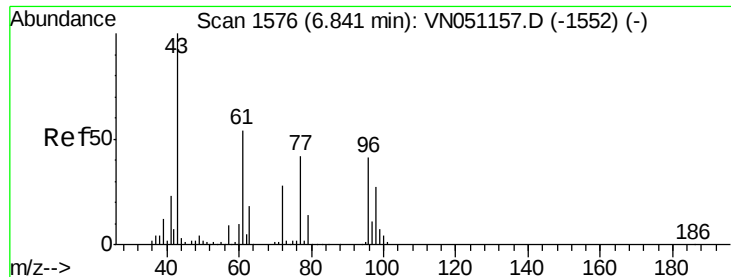
Tot Ion: 43 Resp: 9896
Ion Ratio Lower Upper
43 100
74 26.2 20.7 31.1



#20
Methylene Chloride
Concen: 5.43 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051244.D
Acq: 16 Sep 2018 00:55

Tgt Ion: 84 Resp: 29189
Ion Ratio Lower Upper
84 100
49 102.0 90.2 135.2
51 34.4 28.4 42.6
86 63.5 51.8 77.8

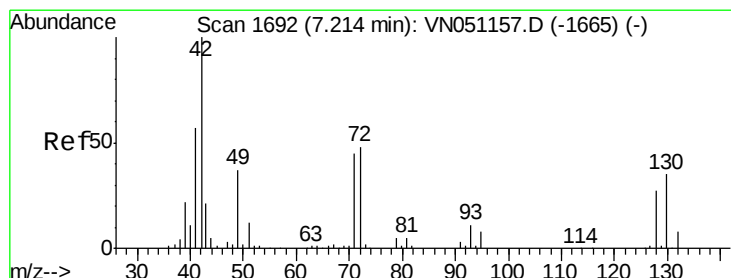
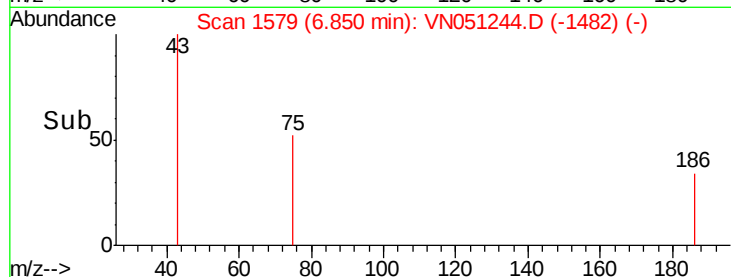
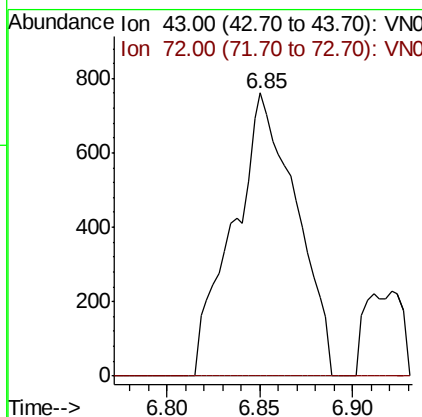
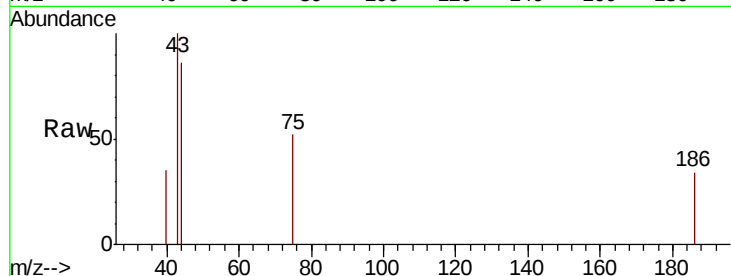




#25
2-Butanone
Concen: 0.94 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051244.D
Acq: 16 Sep 2018 00:55

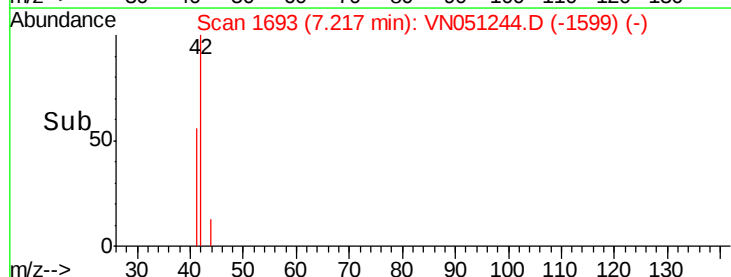
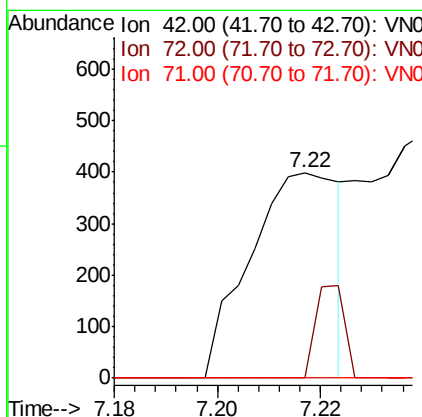
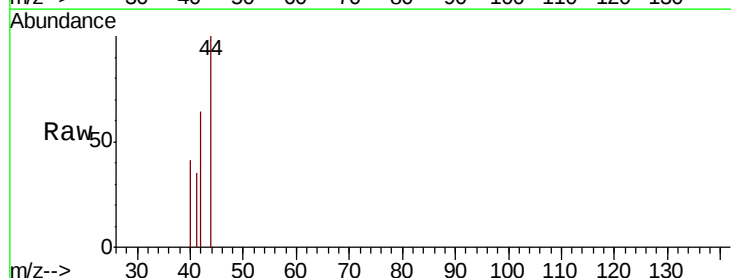
Instrument :
MSVOA_N
ClientSampled :

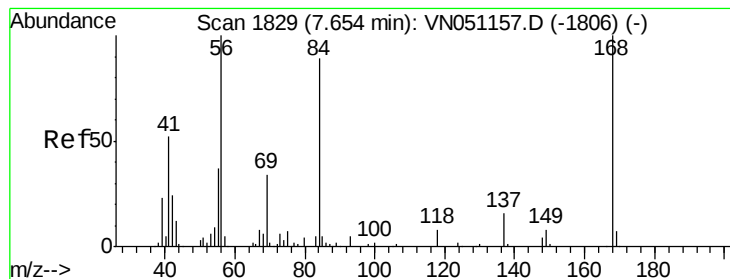
Tot Ion: 43 Resp: 1796
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.40 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051244.D
Acq: 16 Sep 2018 00:55

Tgt Ion: 42 Resp: 480
Ion Ratio Lower Upper
42 100
72 14.4 37.4 56.0#
71 0.0 34.7 52.1#





#31

Cyclohexane

Concen: 0.65 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

Instrument :
MSVOA_N
ClientSampled :

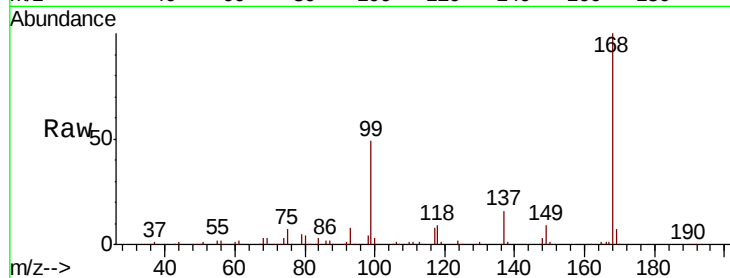
Tot Ion: 56 Resp: 6949

Ion Ratio Lower Upper

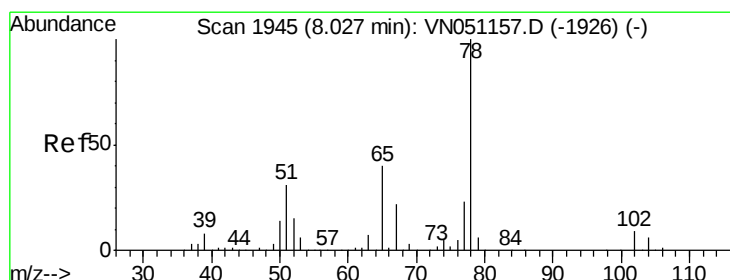
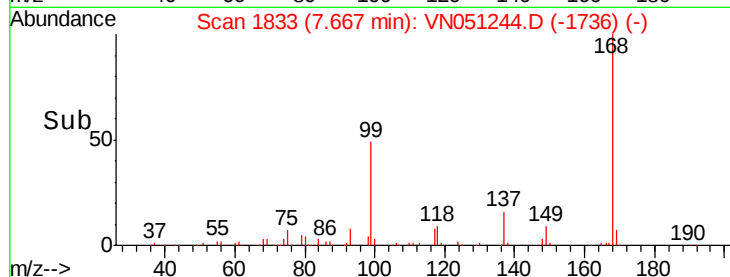
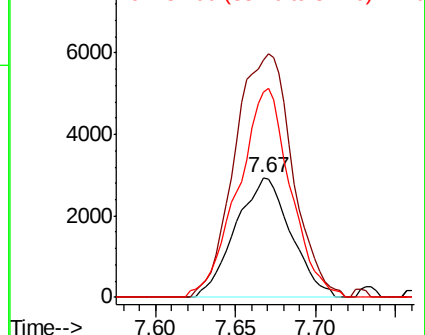
56 100

69 199.1 26.3 39.5#

84 166.1 69.4 104.0#



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



#33

1,2-Dichloroethane-d4

Concen: 49.03 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051244.D

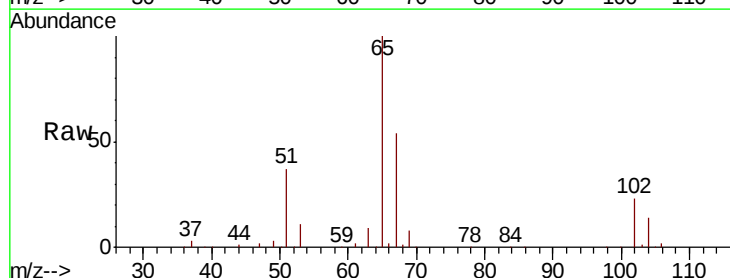
Acq: 16 Sep 2018 00:55

Tgt Ion: 65 Resp: 238401

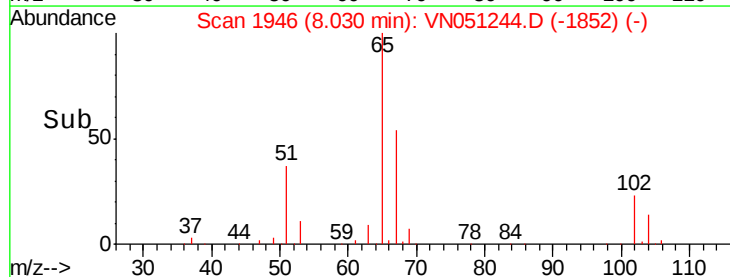
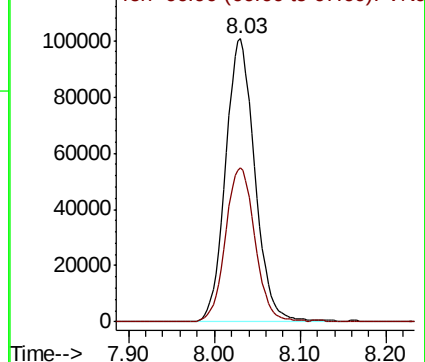
Ion Ratio Lower Upper

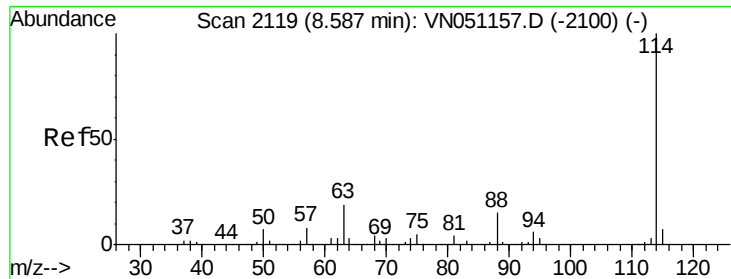
65 100

67 54.7 0.0 112.0



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

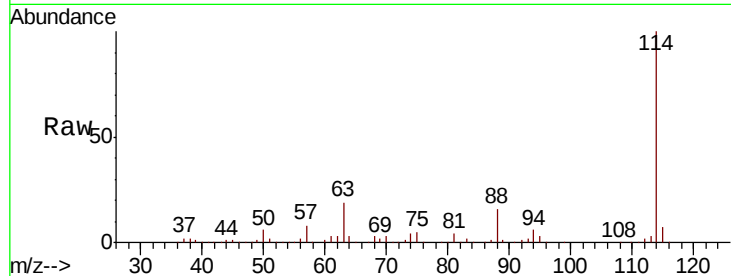




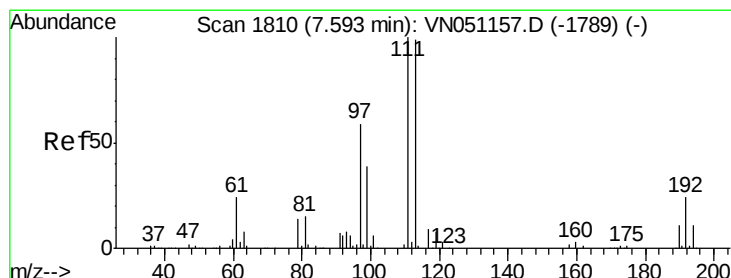
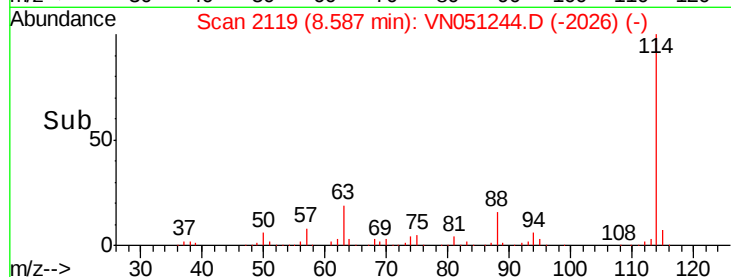
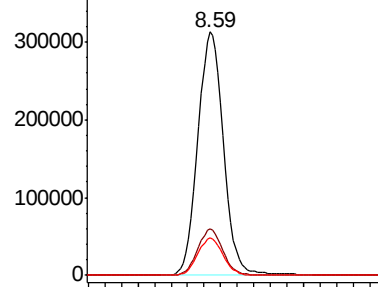
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN051244.D
Acq: 16 Sep 2018 00:55

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 675636
Ion Ratio Lower Upper
114 100
63 19.1 0.0 37.8
88 15.6 0.0 30.8

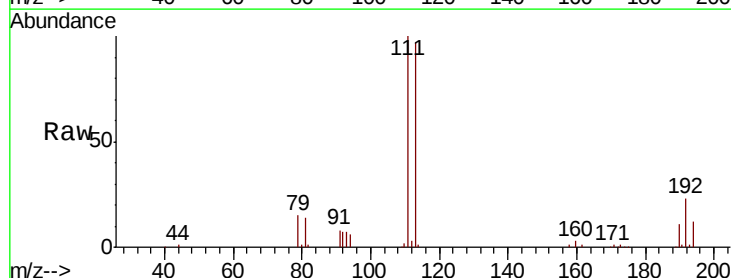


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

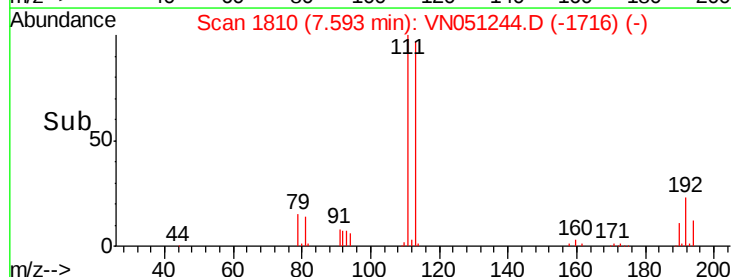
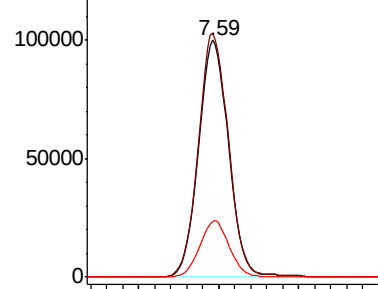


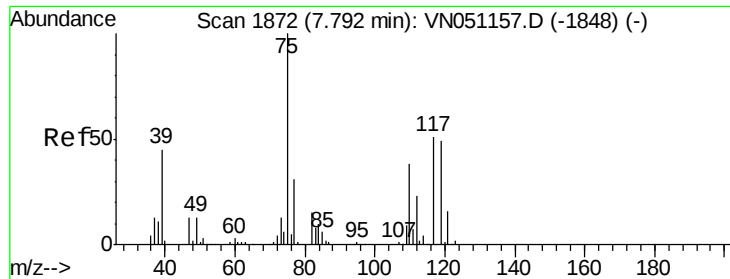
#35
Dibromofluoromethane
Concen: 50.41 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051244.D
Acq: 16 Sep 2018 00:55

Tgt Ion:113 Resp: 255908
Ion Ratio Lower Upper
113 100
111 103.2 83.0 124.6
192 23.5 18.7 28.1



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

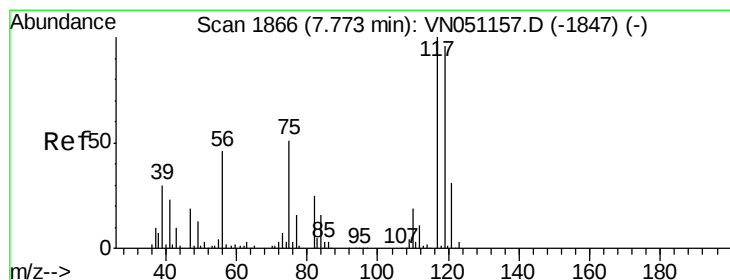
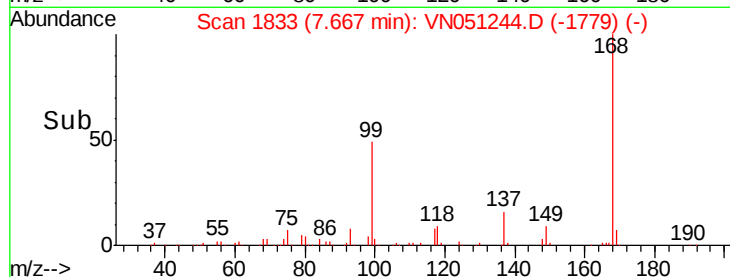
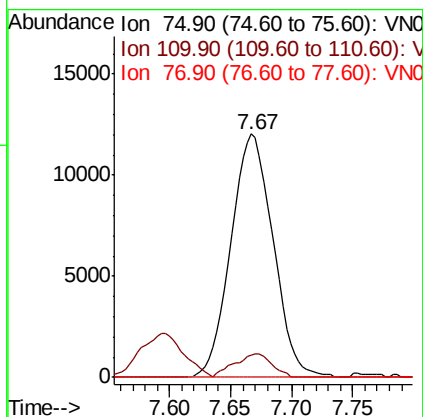
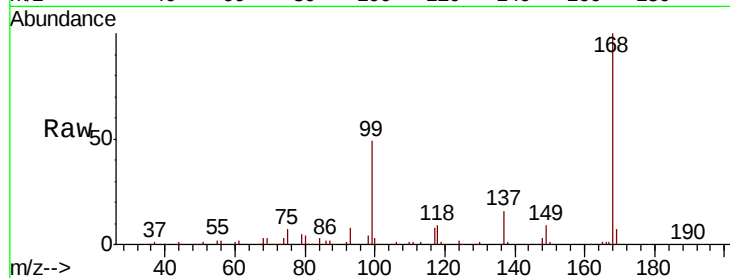




#36
 1,1-Dichloropropene
 Concen: 3.90 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051244.D
 Acq: 16 Sep 2018 00:55

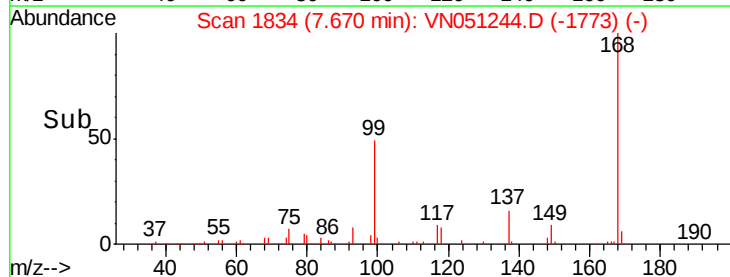
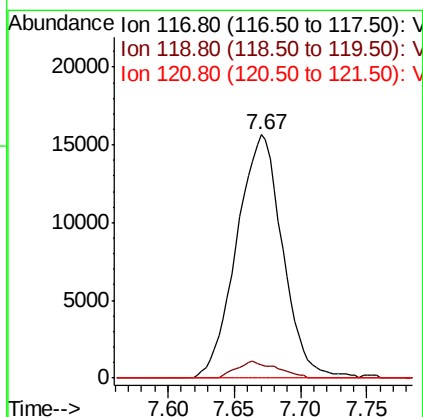
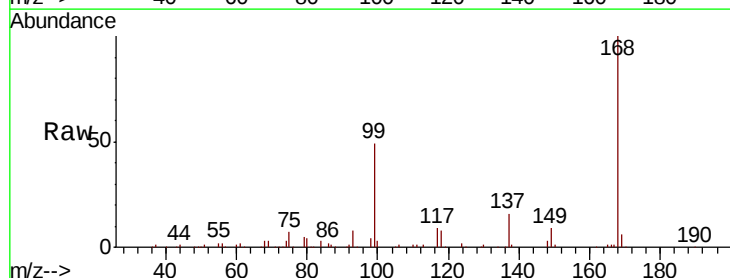
Instrument :
 MSVOA_N
 ClientSampleId :

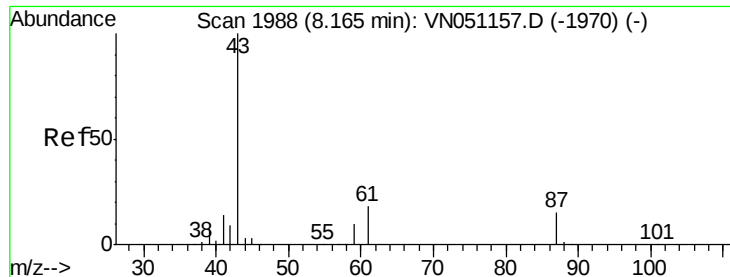
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.6	55.8#
77	0.0	25.2	37.8#



#38
 Carbon Tetrachloride
 Concen: 5.15 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.10 min
 Lab File: VN051244.D
 Acq: 16 Sep 2018 00:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.8	115.2#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 24.98 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

Instrument :

MSVOA_N

ClientSampleId :

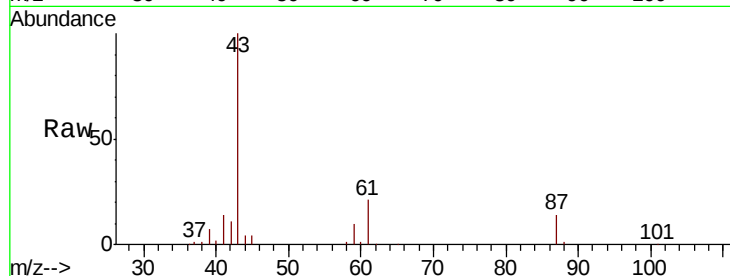
Tot Ion: 43 Resp: 189359

Ion Ratio Lower Upper

43 100

61 20.1 25.0 37.6#

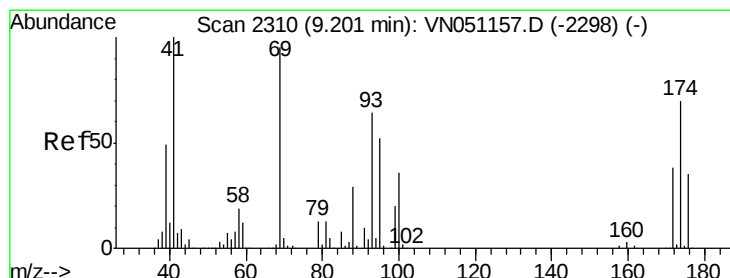
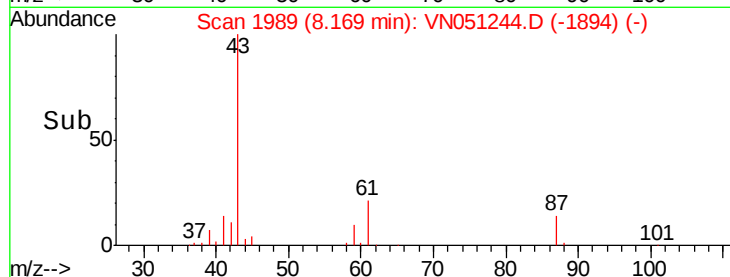
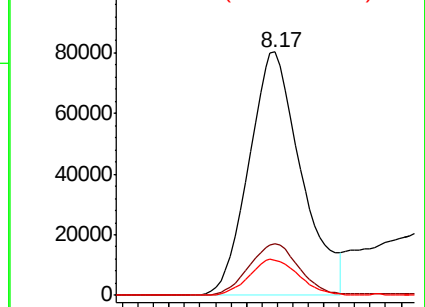
87 13.9 11.8 17.8



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN051157.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN051157.D (-1970) (-)



#48

Methyl methacrylate

Concen: 1.22 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

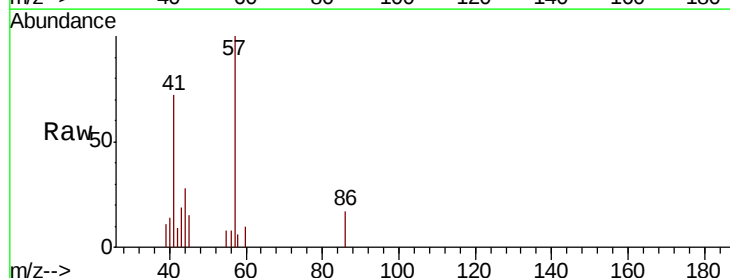
Tgt Ion: 41 Resp: 4518

Ion Ratio Lower Upper

41 100

69 0.0 77.7 116.5#

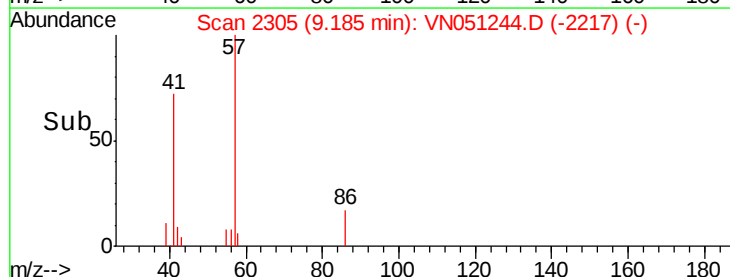
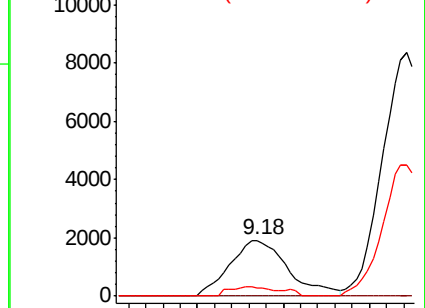
39 12.2 41.6 62.4#

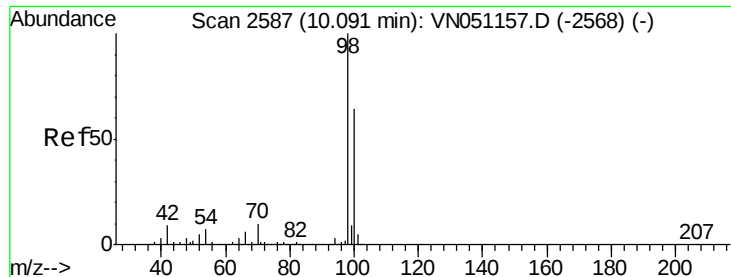


Abundance Ion 41.00 (40.70 to 41.70): VN051157.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051157.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051157.D (-2298) (-)





#50

Toluene-d8

Concen: 45.08 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

Instrument :

MSVOA_N

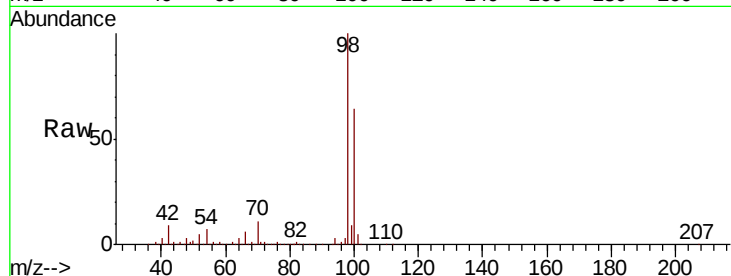
ClientSampled :

Tot Ion: 98 Resp: 868512

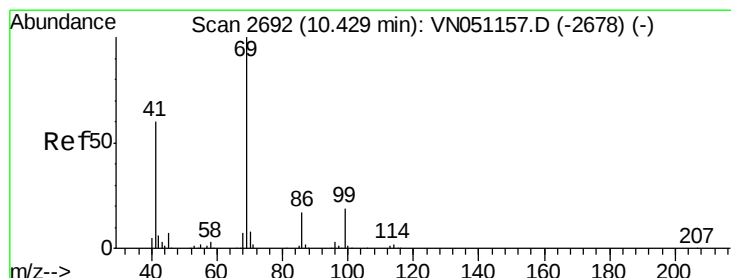
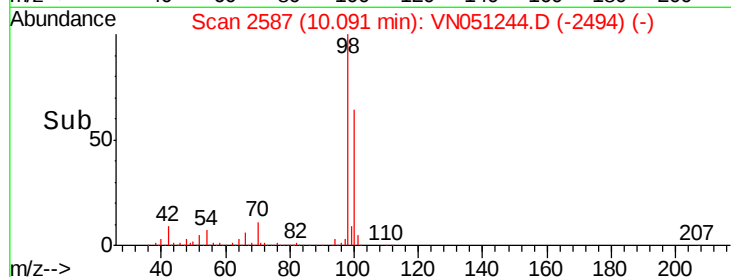
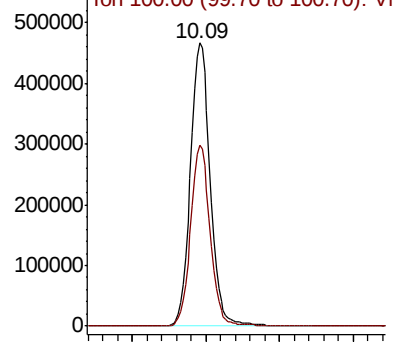
Ion Ratio Lower Upper

98 100

100 63.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN051157.D (-2568) (-)



#56

Ethyl methacrylate

Concen: 2.62 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.20 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

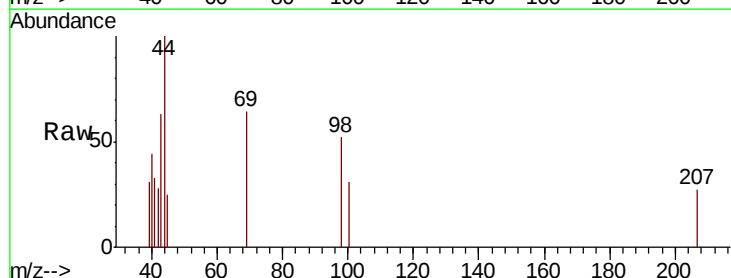
Tgt Ion: 69 Resp: 1178

Ion Ratio Lower Upper

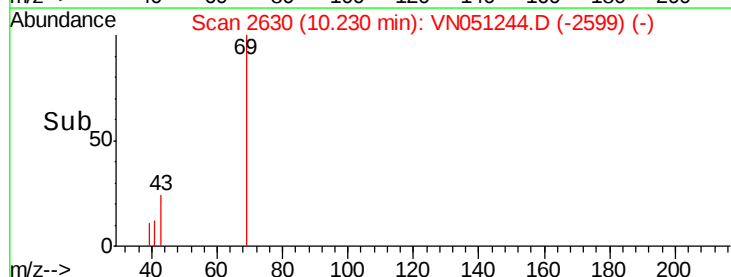
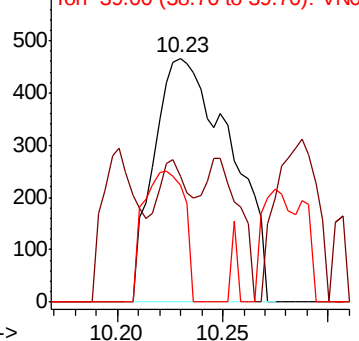
69 100

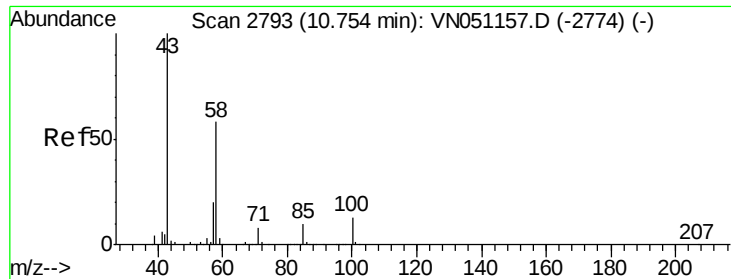
41 25.8 47.8 71.8#

39 28.7 23.0 34.4



Abundance Ion 69.00 (68.70 to 69.70): VN051157.D (-2678) (-)





#59

2-Hexanone

Concen: 3.88 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

Instrument :

MSVOA_N

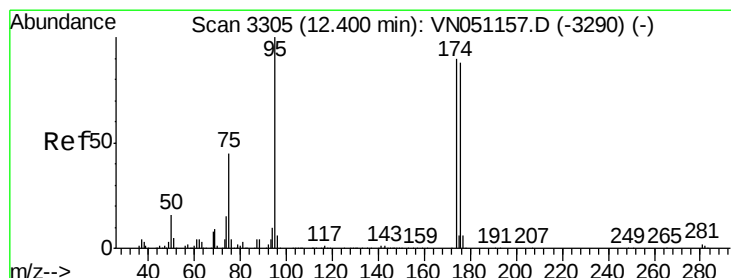
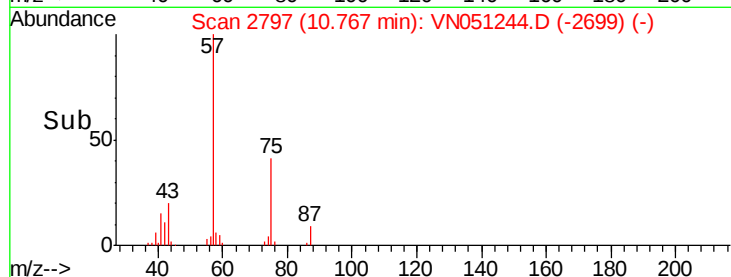
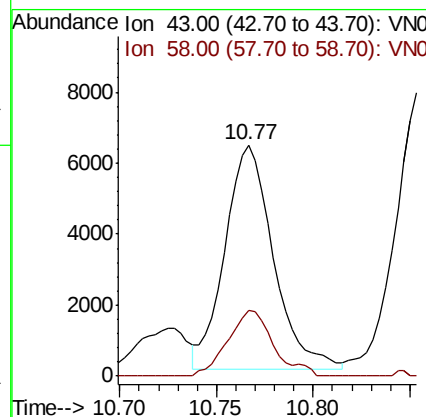
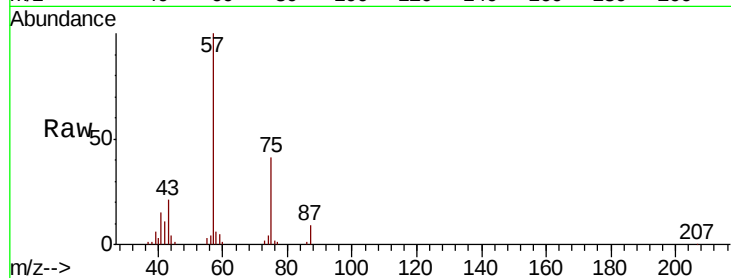
ClientSampleId :

Tot Ion: 43 Resp: 11028

Ion Ratio Lower Upper

43 100

58 27.4 29.3 88.0#



#62

4-Bromofluorobenzene

Concen: 34.27 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

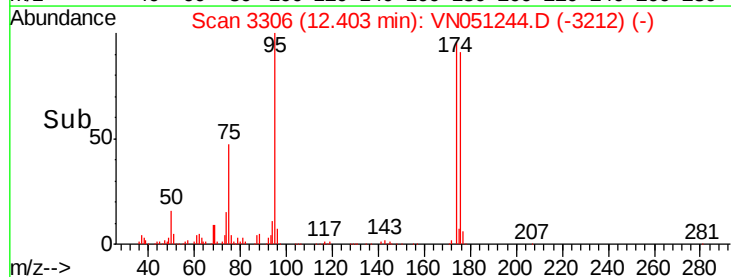
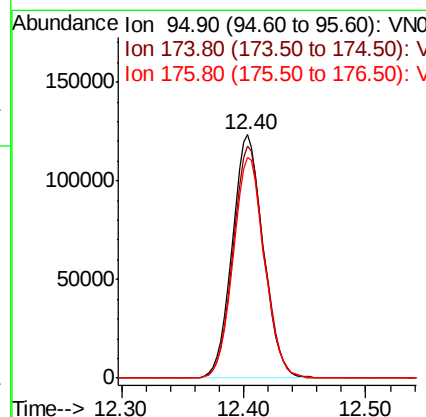
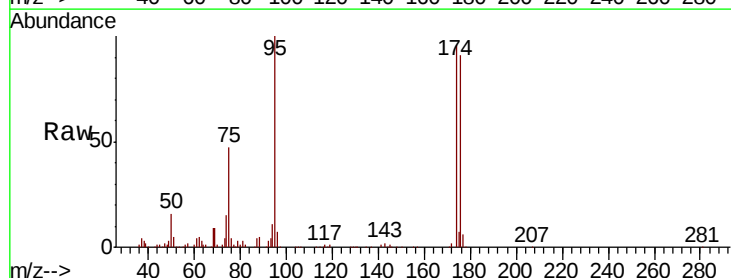
Tgt Ion: 95 Resp: 218407

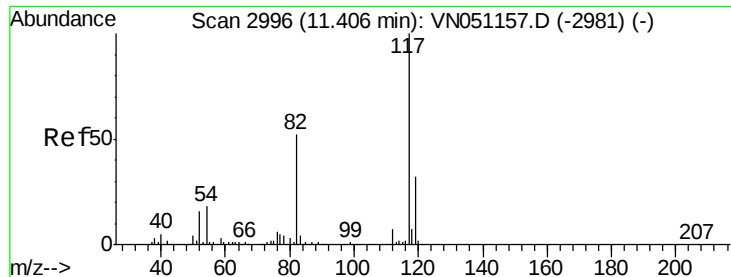
Ion Ratio Lower Upper

95 100

174 95.7 0.0 184.8

176 91.3 0.0 178.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

Instrument :

MSVOA_N

ClientSampled :

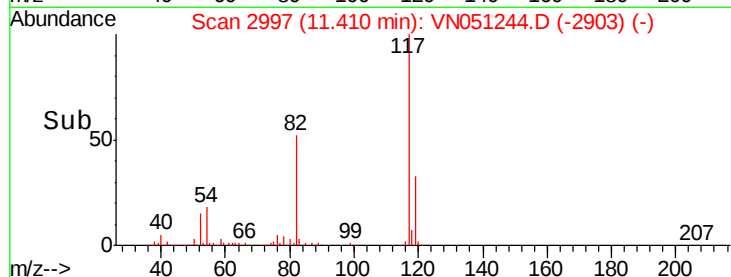
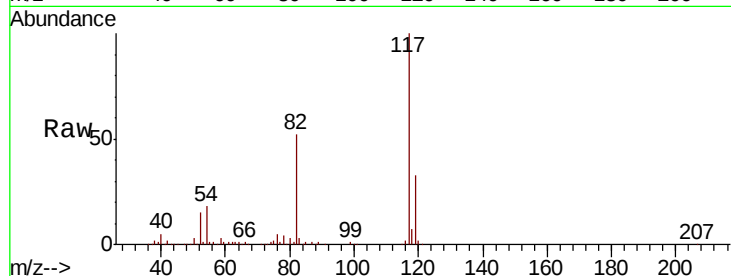
Tot Ion:117 Resp: 546807

Ion Ratio Lower Upper

117 100

82 52.2 41.8 62.6

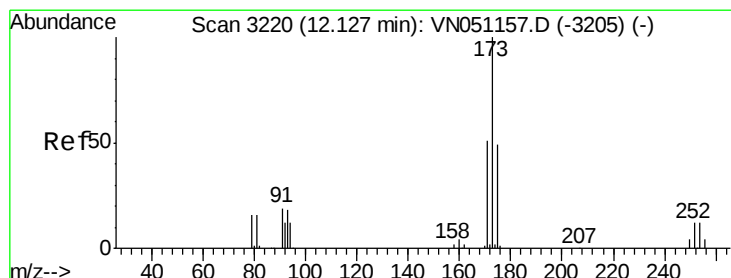
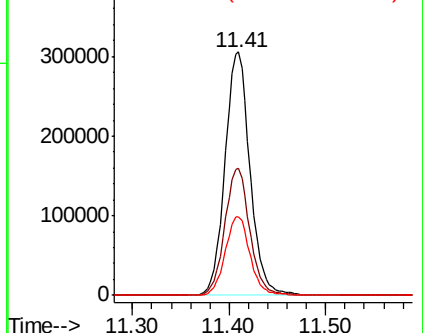
119 32.5 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.21 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

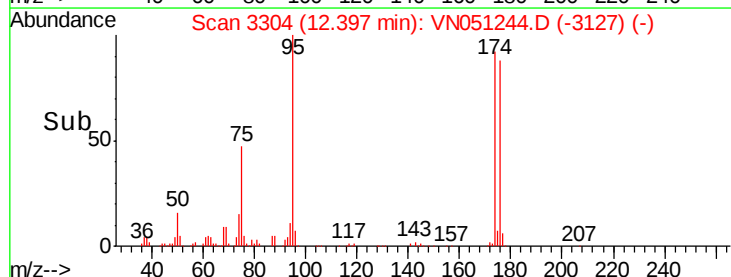
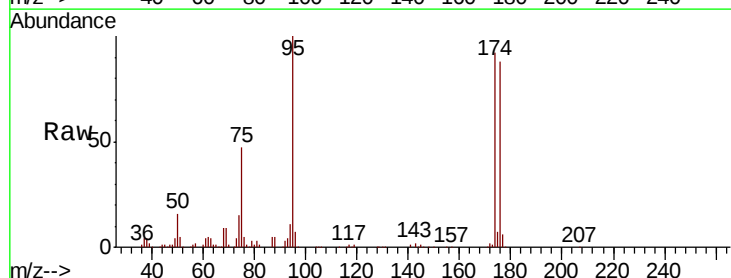
Tgt Ion:173 Resp: 726

Ion Ratio Lower Upper

173 100

175 1675.8 24.3 72.9#

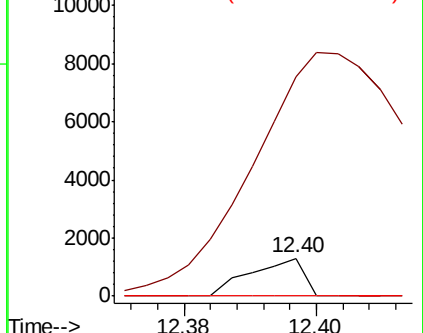
254 0.0 0.0 0.0

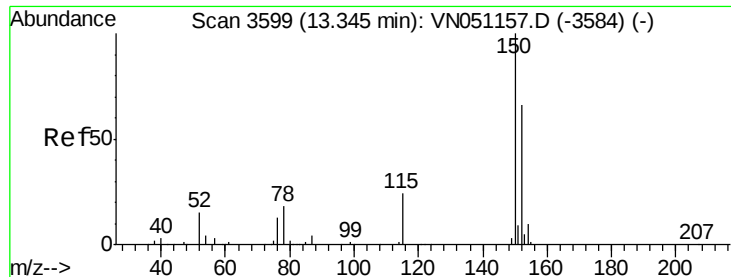


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

Instrument :

MSVOA_N

ClientSampleId :

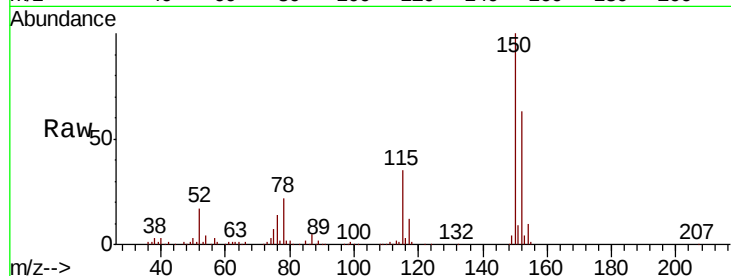
Tot Ion:152 Resp: 155271

Ion Ratio Lower Upper

152 100

115 56.0 28.2 84.7

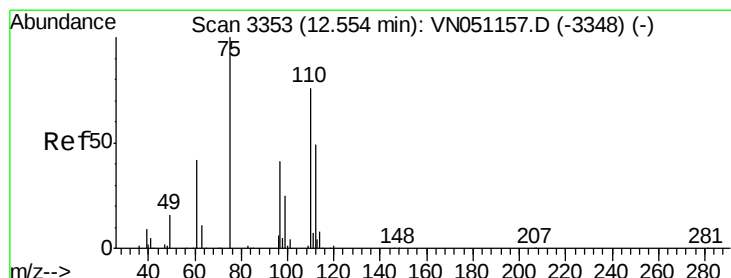
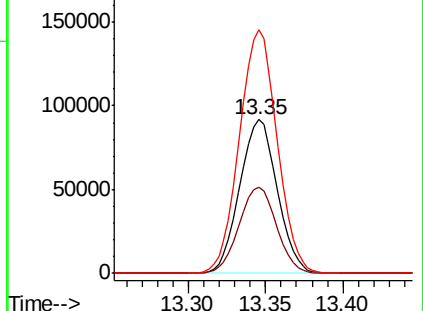
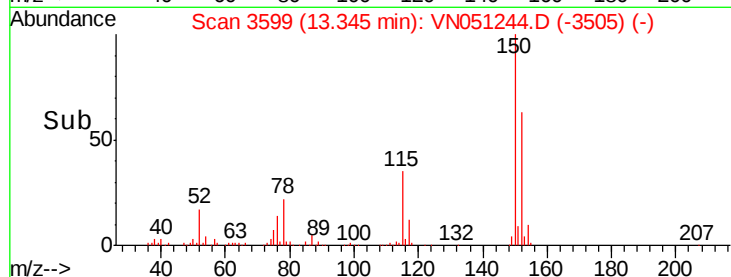
150 159.4 0.0 349.0



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



#76

1,2,3-Trichloropropane

Concen: 42.02 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051244.D

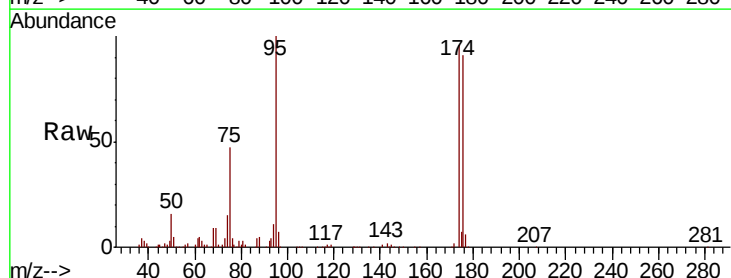
Acq: 16 Sep 2018 00:55

Tgt Ion: 75 Resp: 101719

Ion Ratio Lower Upper

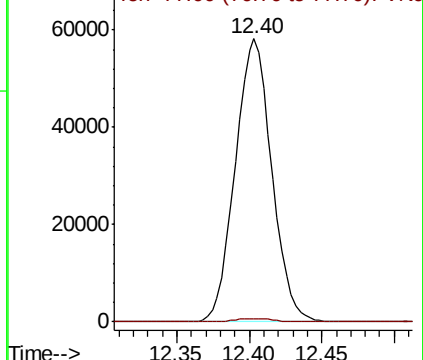
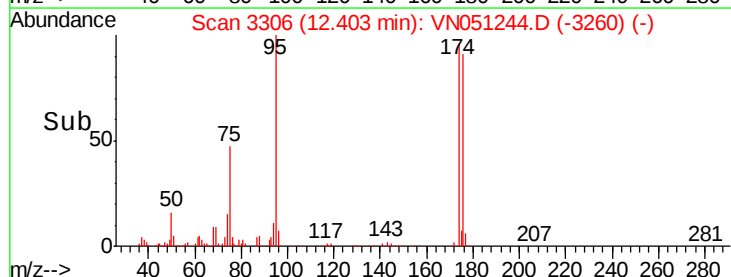
75 100

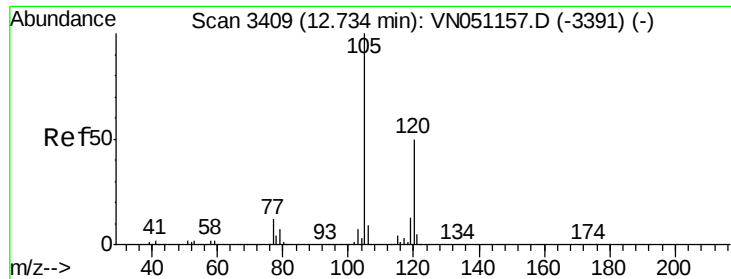
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

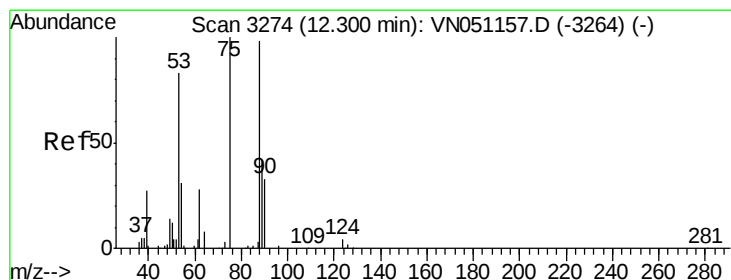
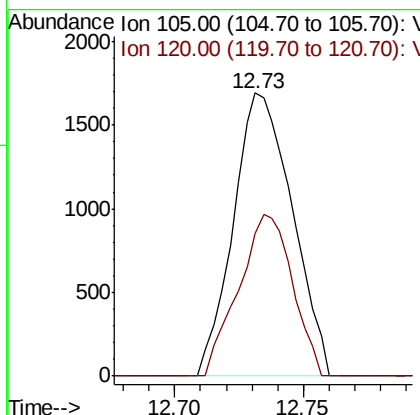
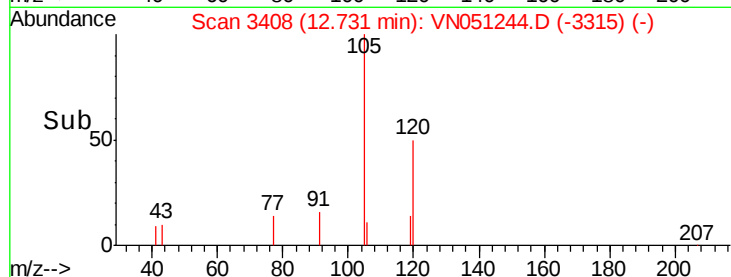
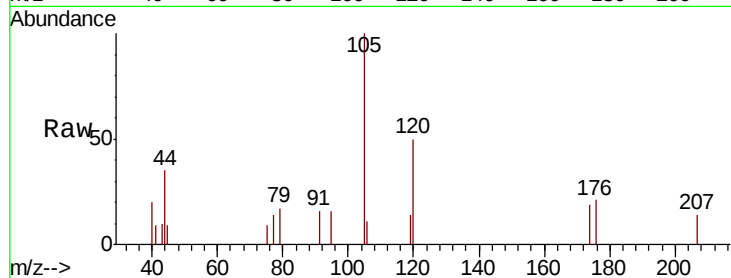




#80
 1,3,5-Trimethylbenzene
 Concen: 0.26 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN051244.D
 Acq: 16 Sep 2018 00:55

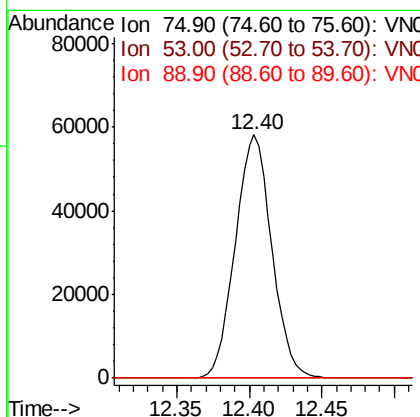
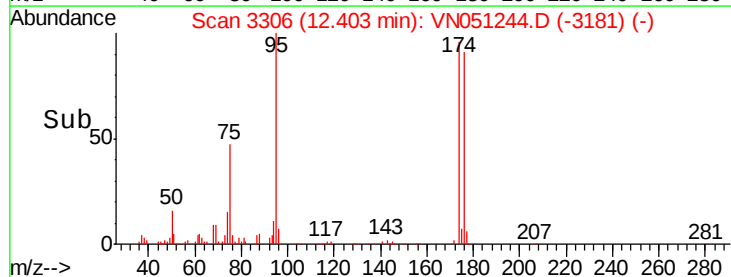
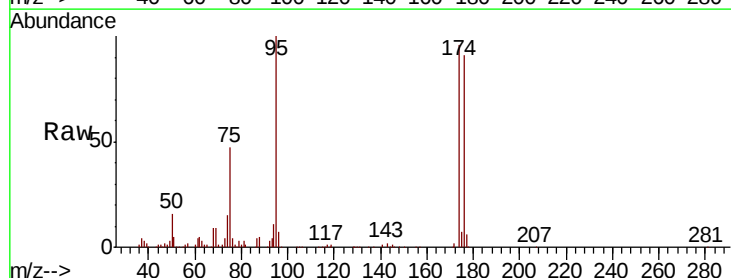
Instrument :
 MSVOA_N
 ClientSampled :

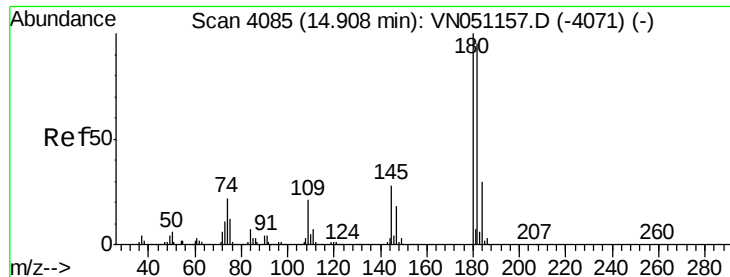
Tot Ion:105 Resp: 2694
 Ion Ratio Lower Upper
 105 100
 120 52.1 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 124.42 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN051244.D
 Acq: 16 Sep 2018 00:55

Tgt Ion: 75 Resp: 101719
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.8 101.8#
 89 0.0 36.0 54.0#

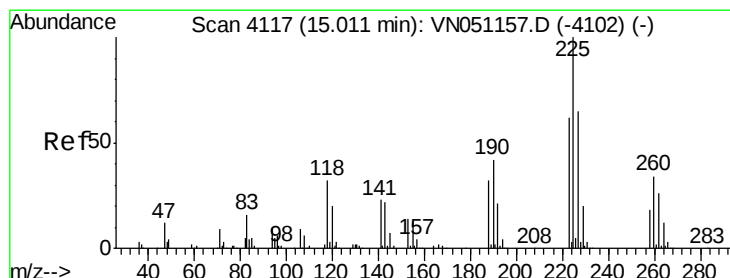
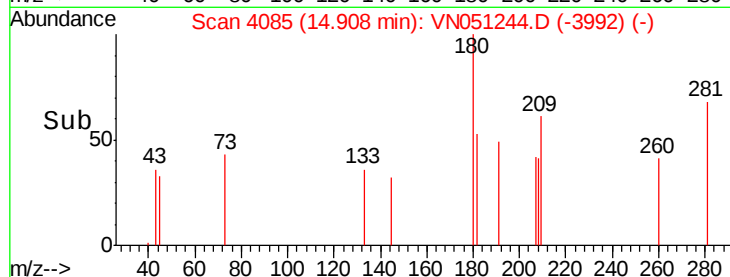
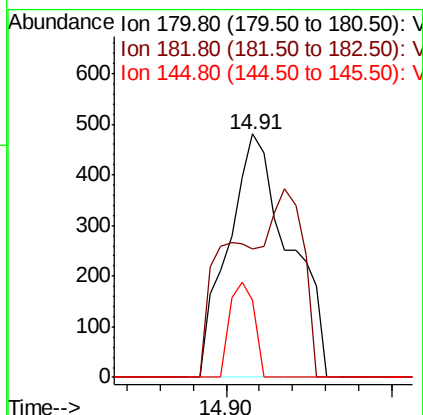
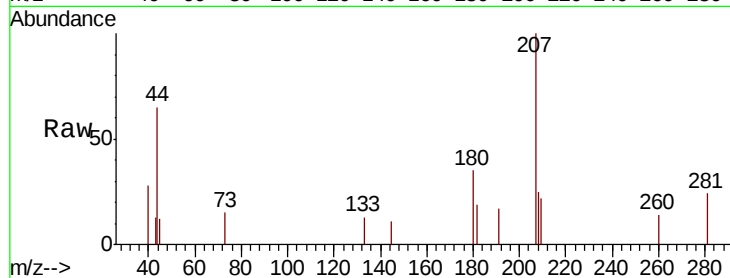




#93
 1,2,4-Trichlorobenzene
 Concen: 4.19 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051244.D
 Acq: 16 Sep 2018 00:55

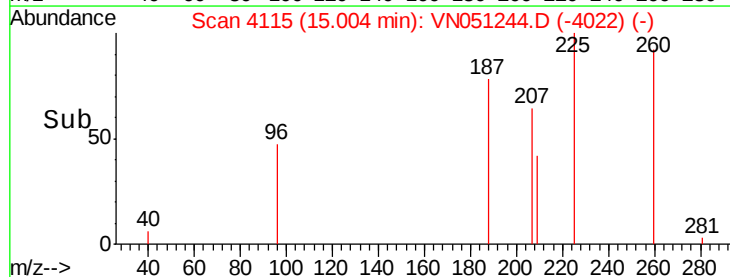
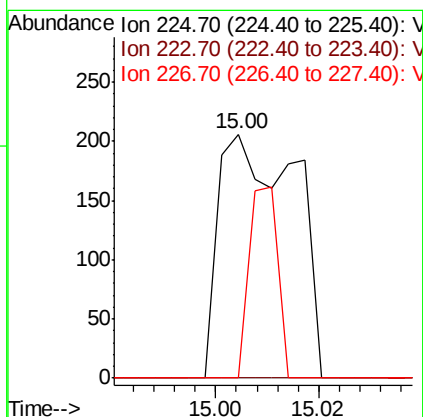
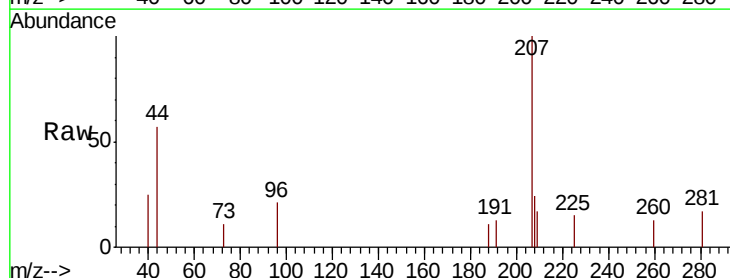
Instrument :
 MSVOA_N
 ClientSampled :

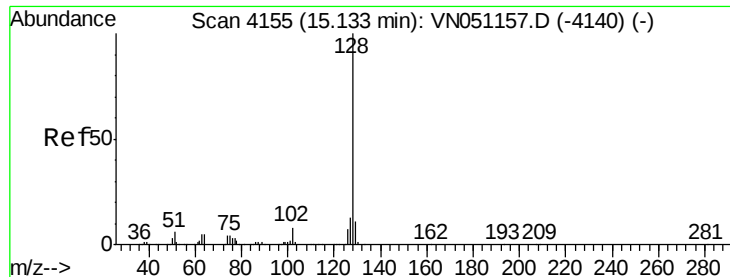
Tot Ion:180 Resp: 617
 Ion Ratio Lower Upper
 180 100
 182 39.4 47.3 141.8#
 145 15.6 14.2 42.6



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN051244.D
 Acq: 16 Sep 2018 00:55

Tgt Ion:225 Resp: 210
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.4 94.0#
 227 29.5 32.1 96.3#





#95

Naphthalene

Concen: 5.56 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

Instrument :

MSVOA_N

ClientSampled :

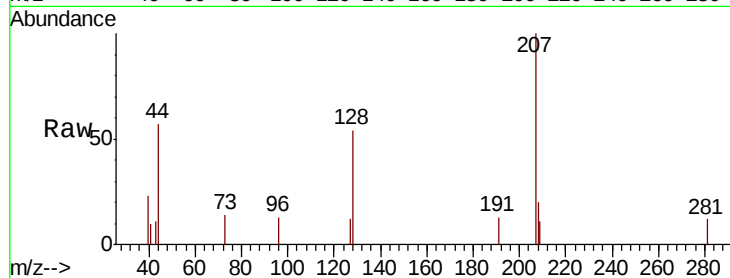
Tot Ion:128 Resp: 1429

Ion Ratio Lower Upper

128 100

127 7.3 10.6 15.8#

129 4.3 8.6 12.8#

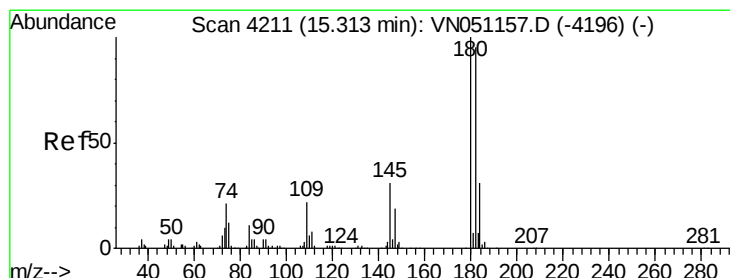
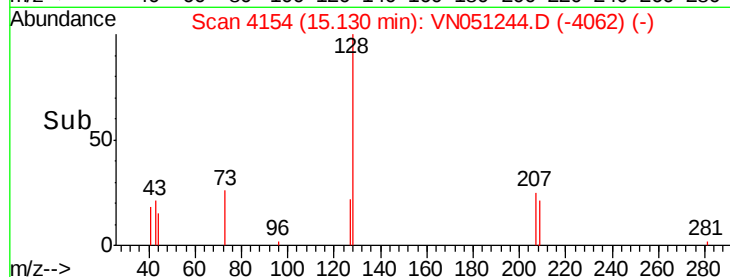
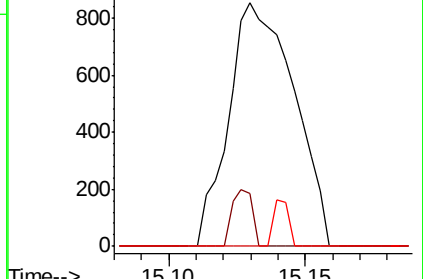


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.13



#96

1,2,3-Trichlorobenzene

Concen: 3.18 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.01 min

Lab File: VN051244.D

Acq: 16 Sep 2018 00:55

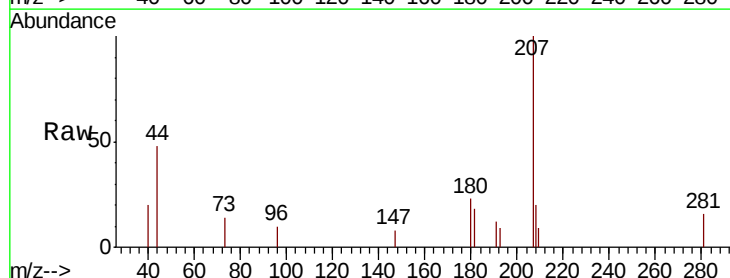
Tgt Ion:180 Resp: 658

Ion Ratio Lower Upper

180 100

182 78.1 47.8 143.3

145 22.3 14.6 43.8



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

15.31

