

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051333.D
 Acq On : 19 Sep 2018 20:59
 Operator : MD\SY
 Sample : PB112984ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 01:47:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 18 06:04:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	527429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	852512	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	699395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	224060	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	314829	54.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.84%	
35) Dibromofluoromethane	7.59	113	319416	48.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.44%	
50) Toluene-d8	10.09	98	1113729	45.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.96%	
62) 4-Bromofluorobenzene	12.40	95	289034	37.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.22%	

Target Compounds

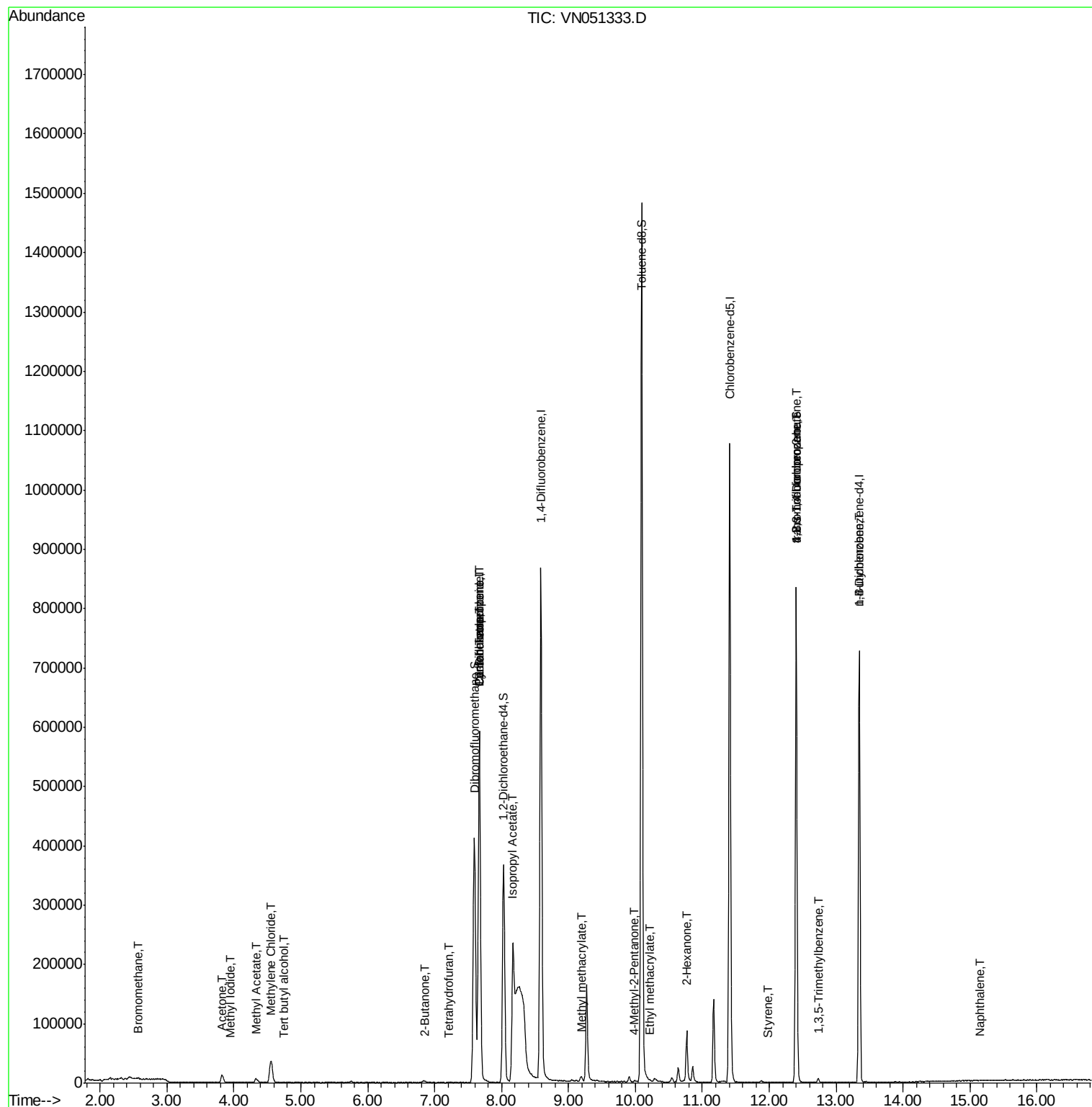
						Qvalue
3) Chloromethane	2.06	50	1471	Below Cal		95
5) Bromomethane	2.57	94	1617	0.92 ug/l	#	80
10) Methyl Iodide	3.96	142	269	6.15 ug/l	#	43
11) Tert butyl alcohol	4.74	59	184	0.58 ug/l	#	73
16) Acetone	3.82	43	22242	7.89 ug/l		95
17) Carbon Disulfide	4.06	76	769	Below Cal	#	75
18) Methyl Acetate	4.33	43	13430	2.74 ug/l		97
20) Methylene Chloride	4.55	84	30232	4.82 ug/l		97
25) 2-Butanone	6.86	43	3831	2.09 ug/l		91
29) Tetrahydrofuran	7.22	42	404	0.36 ug/l	#	63
31) Cyclohexane	7.66	56	7735	0.77 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	32600	3.53 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	44573	4.63 ug/l	#	16
43) Isopropyl Acetate	8.17	43	288037	35.09 ug/l	#	89
48) Methyl methacrylate	9.18	41	5320	1.35 ug/l	#	9
51) 4-Methyl-2-Pentanone	9.99	43	1912	0.45 ug/l		97
56) Ethyl methacrylate	10.23	69	1228	2.22 ug/l	#	37
59) 2-Hexanone	10.77	43	11883	4.26 ug/l	#	55
70) Styrene	11.96	104	91	1.25 ug/l	#	26
75) 1,1,2,2-Tetrachloroethane	12.41	83	62	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	131935	42.67 ug/l	#	100
80) 1,3,5-Trimethylbenzene	12.73	105	3097	0.20 ug/l		93
81) trans-1,4-Dichloro-2-buten	12.40	75	131935	130.78 ug/l	#	15
89) n-Butylbenzene	13.34	91	451	2.05 ug/l	#	34
95) Naphthalene	15.14	128	211	5.95 ug/l	#	69

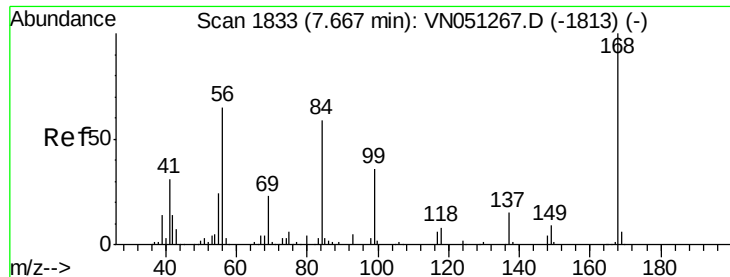
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 20 01:47:55 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091718W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 18 06:04:06 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: VN051333.D

Acq: 19 Sep 2018 20:59

Instrument :

MSVOA_N

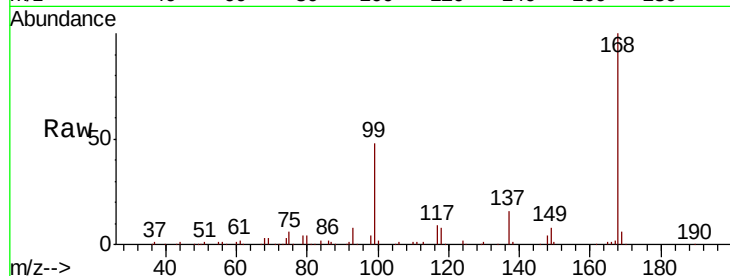
ClientSampled :

Tot Ion:168 Resp: 527429

Ion Ratio Lower Upper

168 100

99 47.9 38.2 57.4



Abundance Ion 167.90 (167.60 to 168.60): VN051267.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051267.D (-1813) (-)

7.67

250000

200000

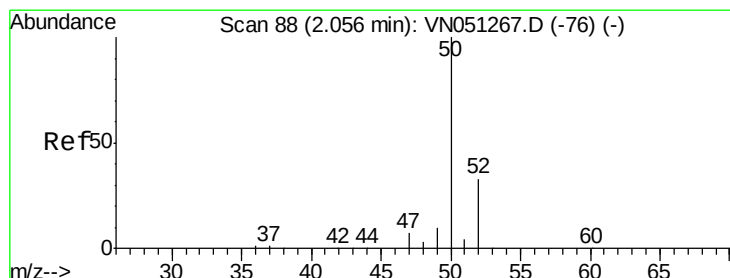
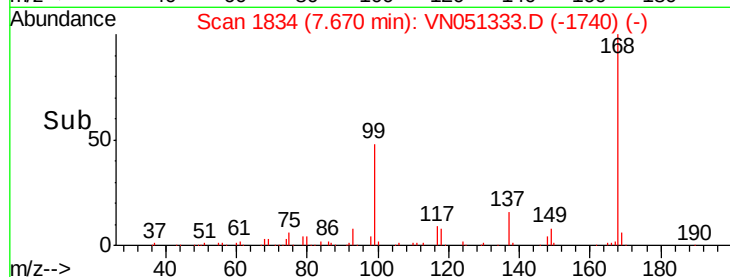
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051333.D

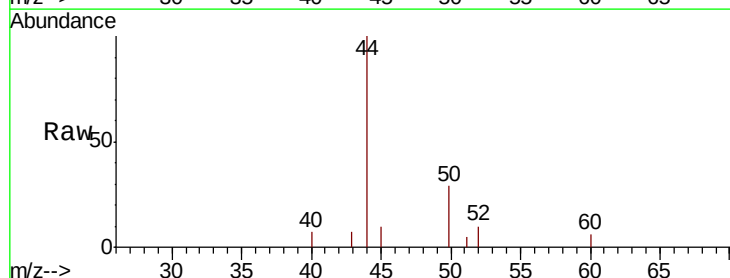
Acq: 19 Sep 2018 20:59

Tgt Ion: 50 Resp: 1471

Ion Ratio Lower Upper

50 100

52 35.9 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VN051267.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN051267.D (-76) (-)

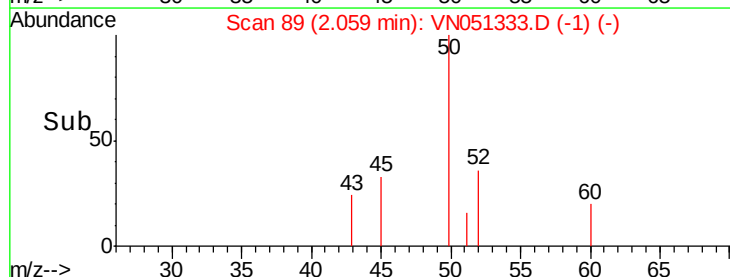
2.06

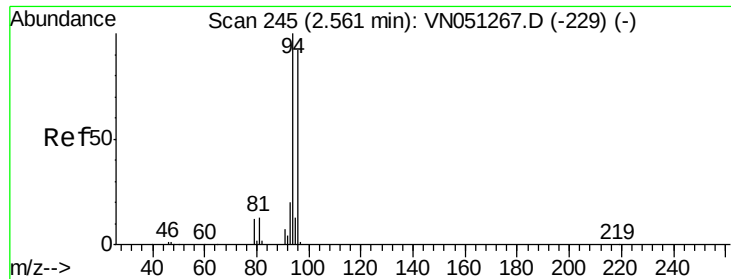
1000

500

0

Time-->

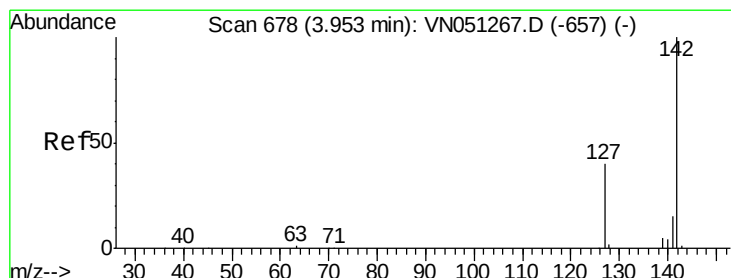
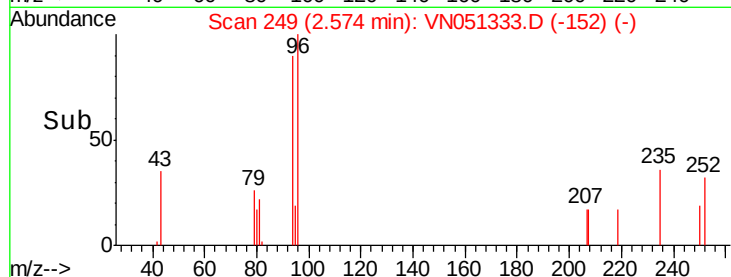
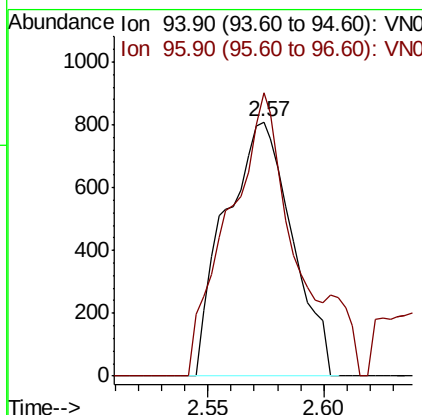
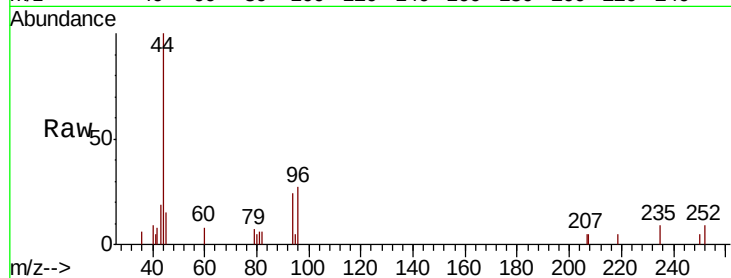




#5
Bromomethane
Concen: 0.92 ug/l
RT: 2.57 min Scan# 249
Delta R.T. 0.01 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

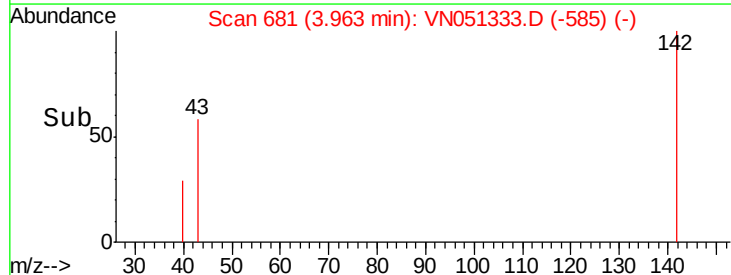
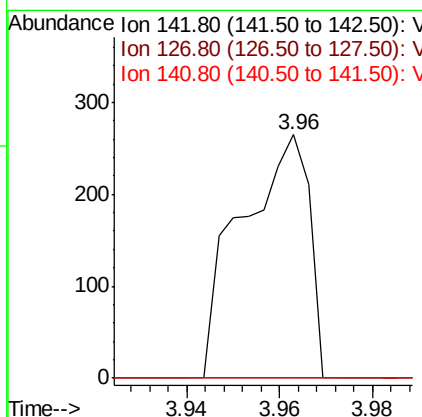
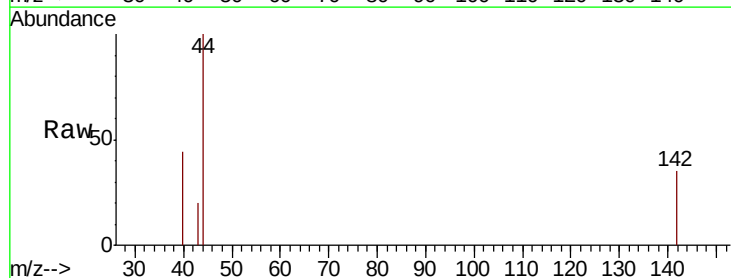
Instrument :
MSVOA_N
ClientSampled :

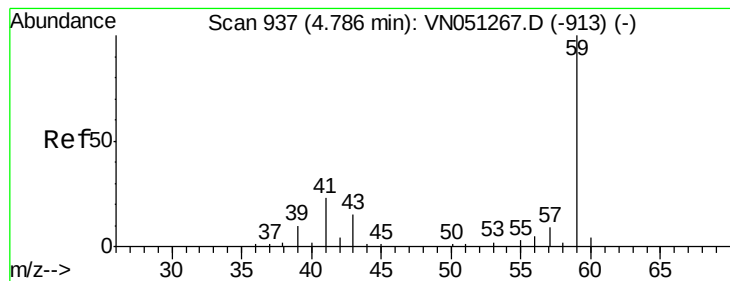
Tot Ion: 94 Resp: 1617
Ion Ratio Lower Upper
94 100
96 111.2 73.8 110.8#



#10
Methyl Iodide
Concen: 6.15 ug/l
RT: 3.96 min Scan# 681
Delta R.T. 0.01 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

Tgt Ion: 142 Resp: 269
Ion Ratio Lower Upper
142 100
127 0.0 31.7 47.5#
141 0.0 11.6 17.4#



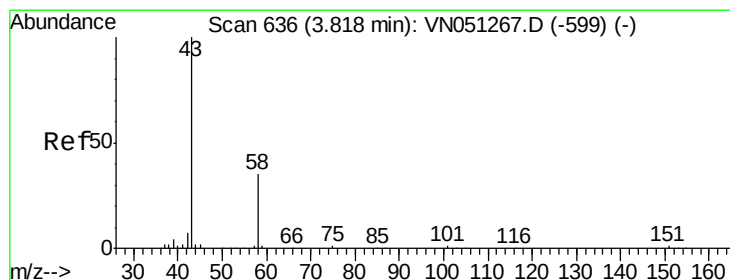
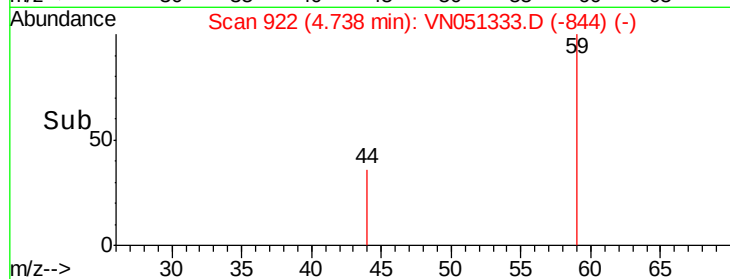
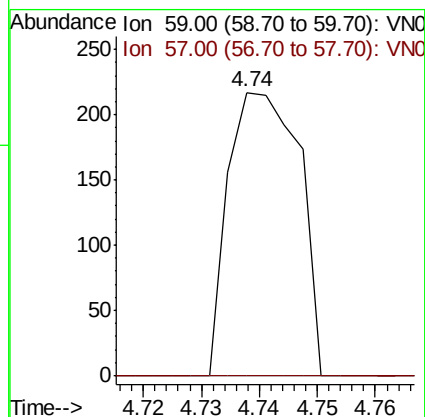
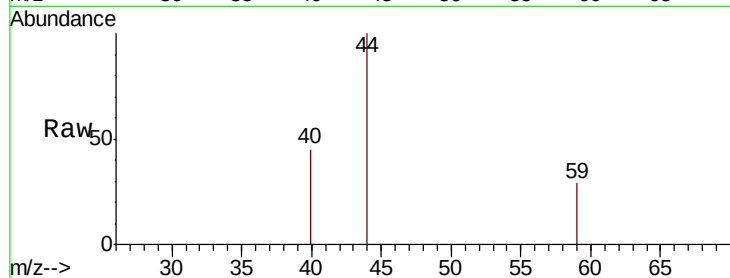


#11

Tert butyl alcohol
 Concen: 0.58 ug/l
 RT: 4.74 min Scan# 922
 Delta R.T. -0.05 min
 Lab File: VN051333.D
 Acq: 19 Sep 2018 20:59

Instrument :
 MSVOA_N
 ClientSampleId :

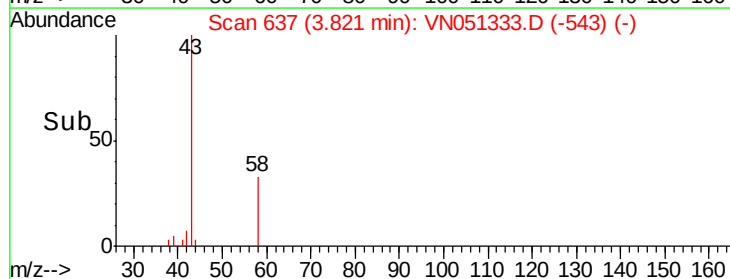
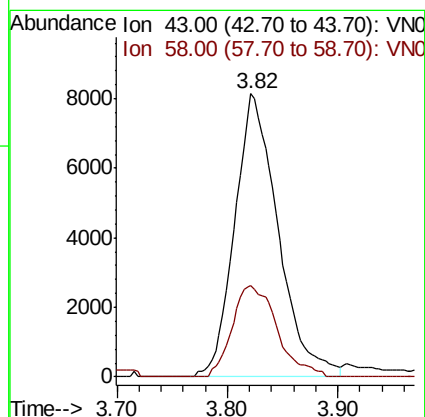
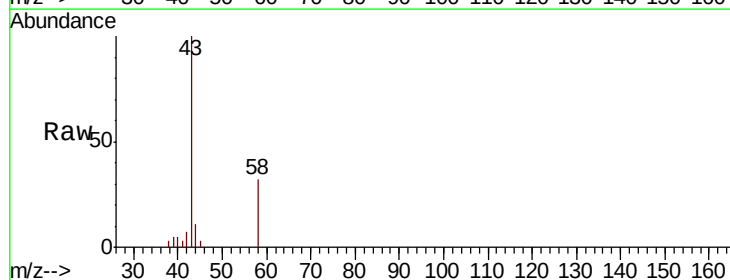
Tot Ion: 59 Resp: 184
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

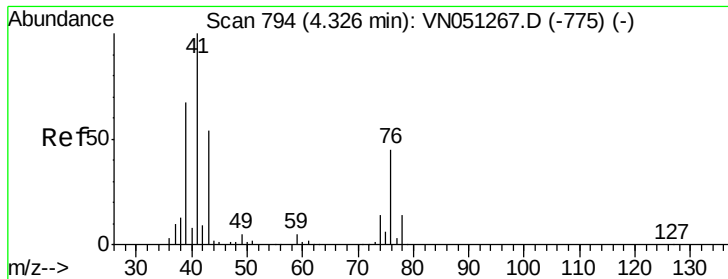


#16

Acetone
 Concen: 7.89 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN051333.D
 Acq: 19 Sep 2018 20:59

Tgt Ion: 43 Resp: 22242
 Ion Ratio Lower Upper
 43 100
 58 32.1 28.2 42.2

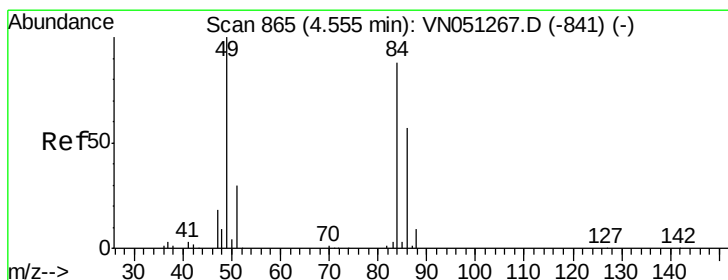
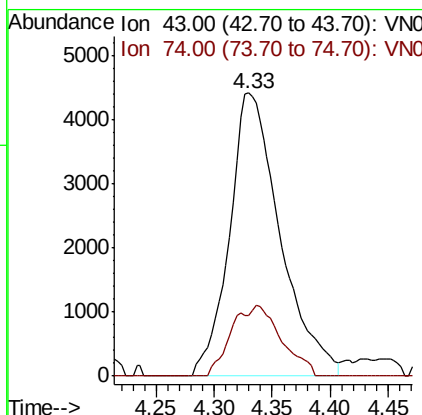
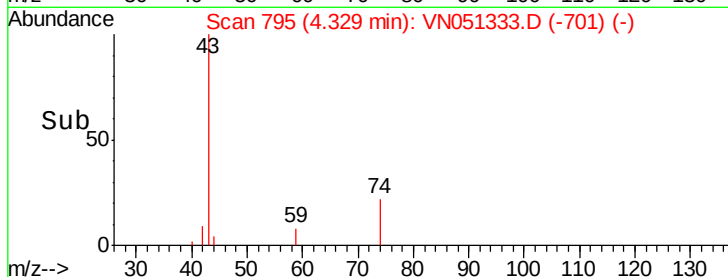
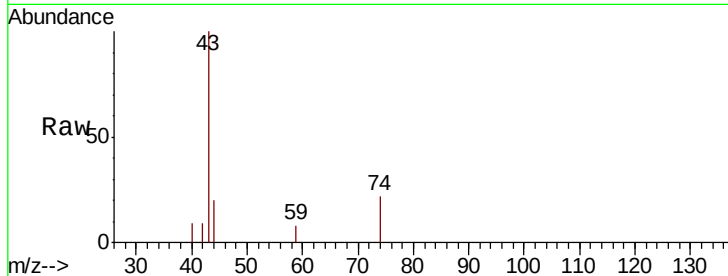




#18
Methyl Acetate
Concen: 2.74 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

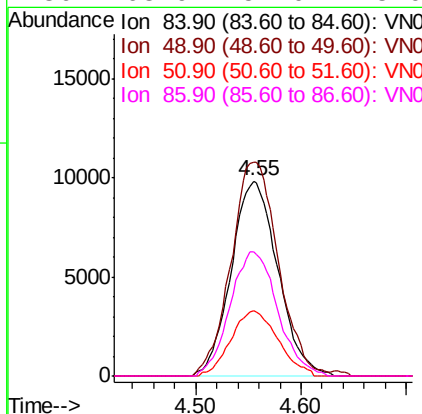
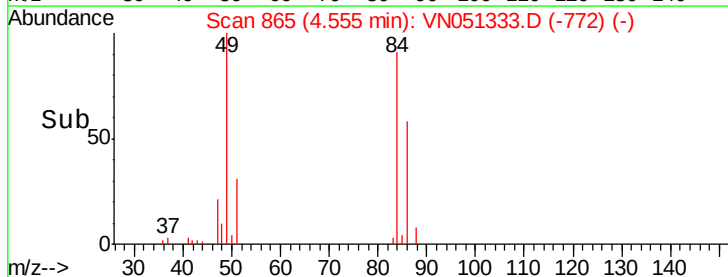
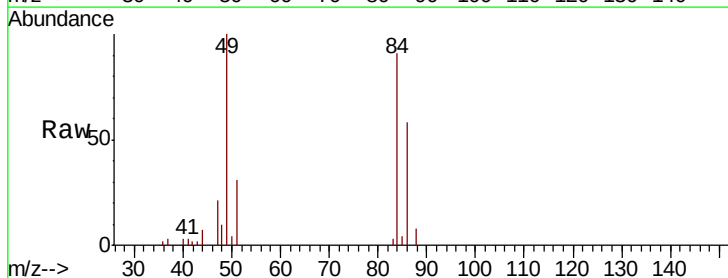
Instrument :
MSVOA_N
ClientSampleId :

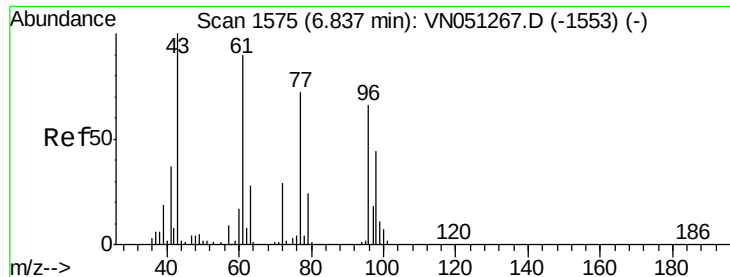
Tot Ion: 43 Resp: 13430
Ion Ratio Lower Upper
43 100
74 24.7 20.8 31.2



#20
Methylene Chloride
Concen: 4.82 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

Tgt Ion: 84 Resp: 30232
Ion Ratio Lower Upper
84 100
49 109.5 91.2 136.8
51 33.4 27.7 41.5
86 63.9 52.0 78.0





#25

2-Butanone

Concen: 2.09 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

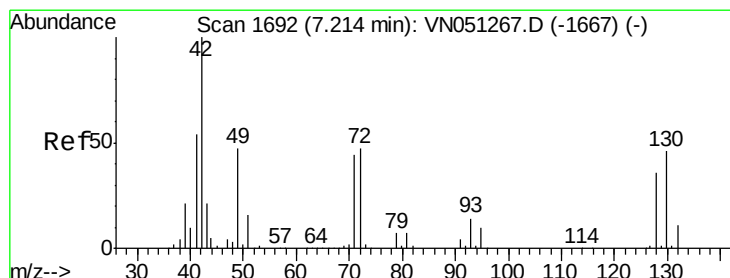
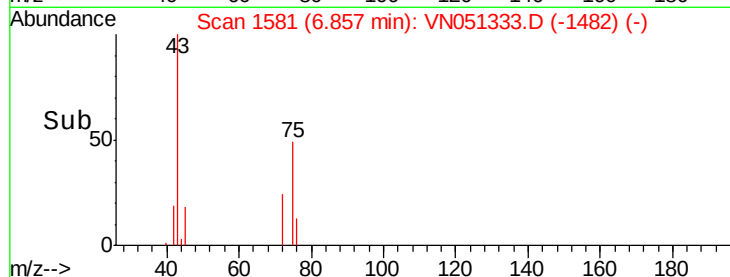
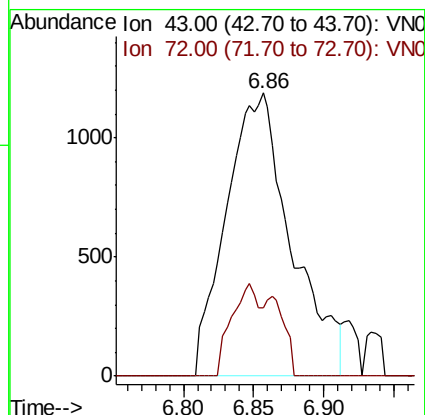
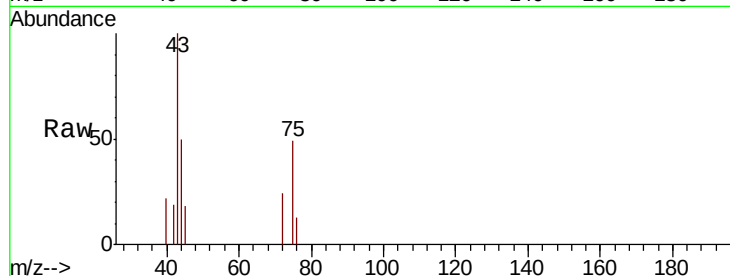
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3831

Ion Ratio Lower Upper

43 100

72 24.2 23.4 35.0



#29

Tetrahydrofuran

Concen: 0.36 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

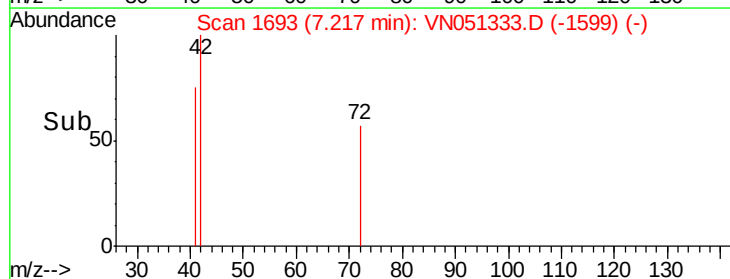
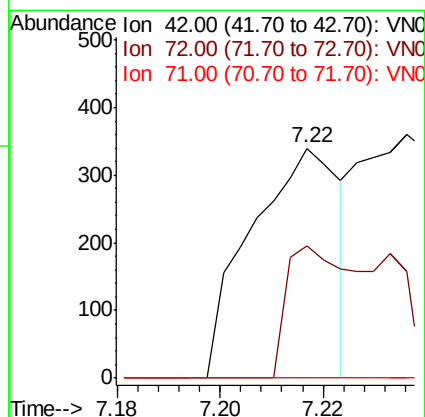
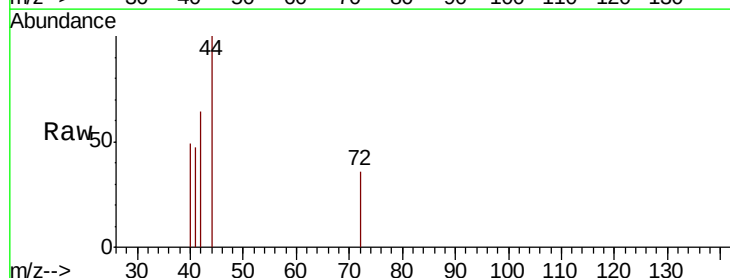
Tgt Ion: 42 Resp: 404

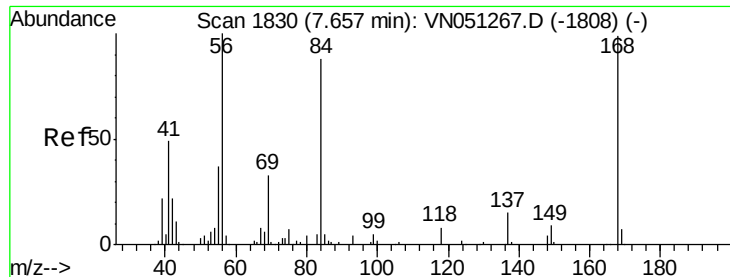
Ion Ratio Lower Upper

42 100

72 41.3 37.6 56.4

71 0.0 35.4 53.2#

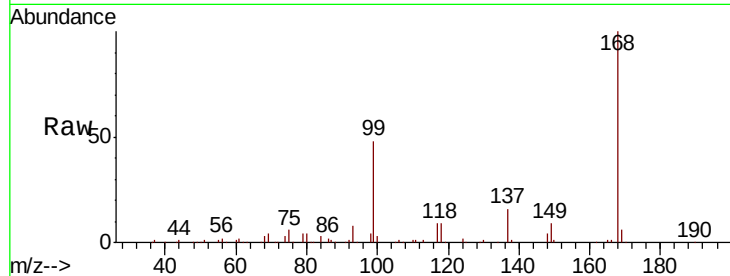




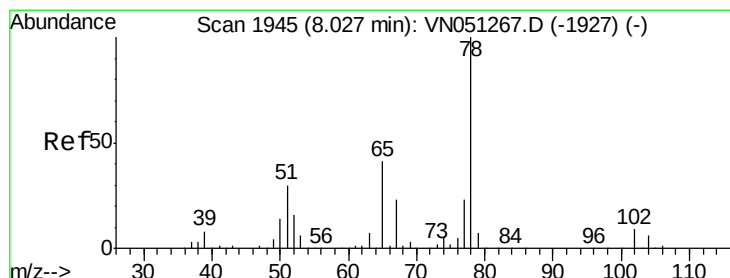
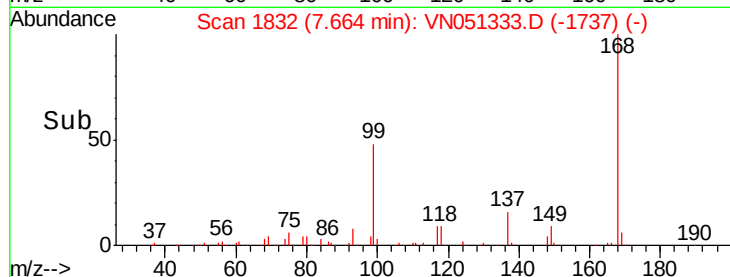
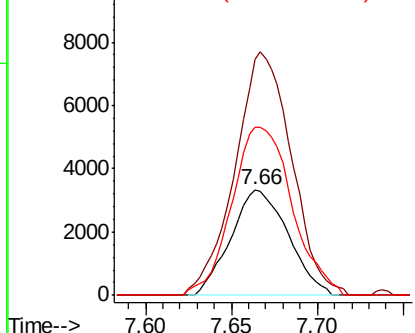
#31
Cyclohexane
Concen: 0.77 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 7735
Ion Ratio Lower Upper
56 100
69 216.0 26.2 39.2#
84 153.3 70.6 106.0#

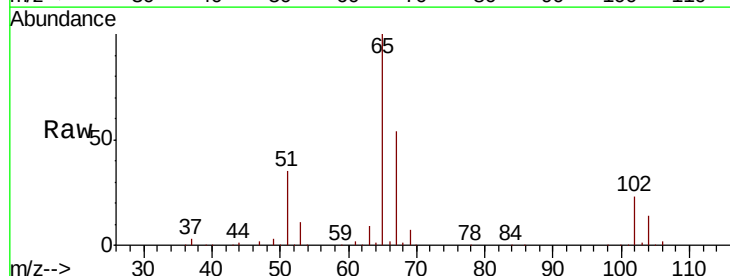


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

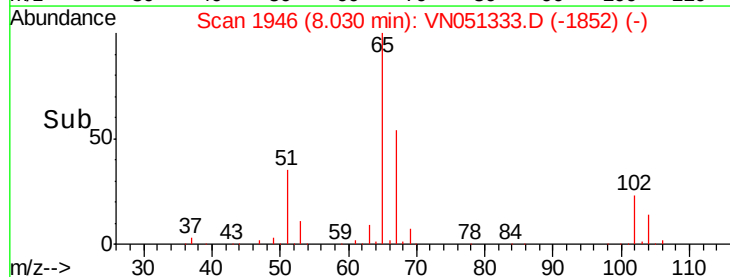
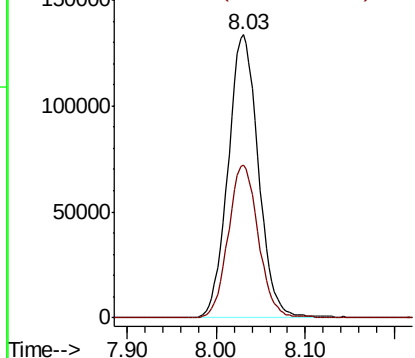


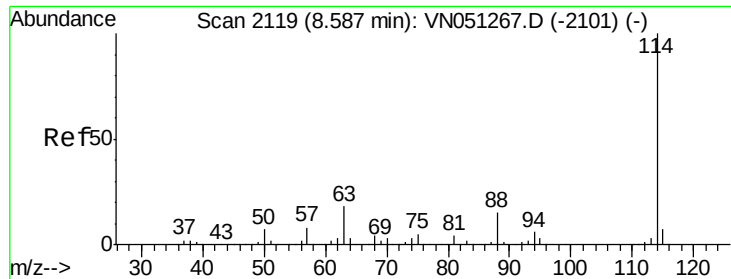
#33
1,2-Dichloroethane-d4
Concen: 54.92 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

Tgt Ion: 65 Resp: 314829
Ion Ratio Lower Upper
65 100
67 53.9 0.0 111.0



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

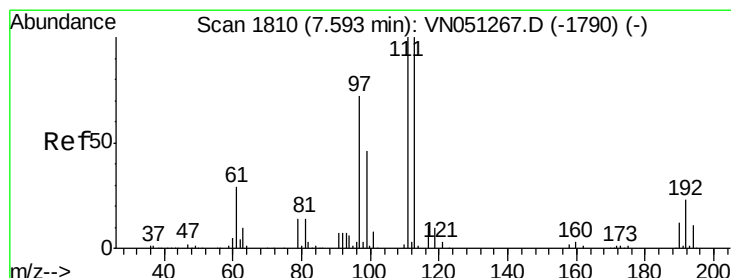
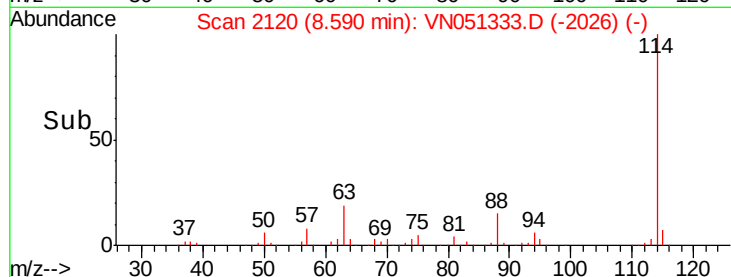
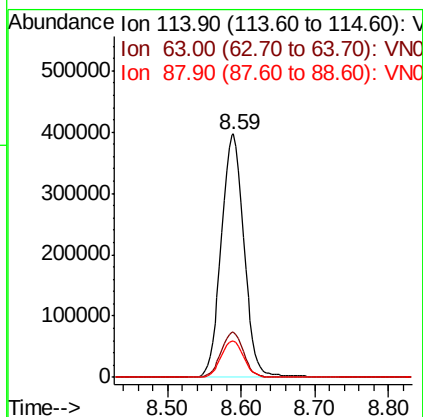
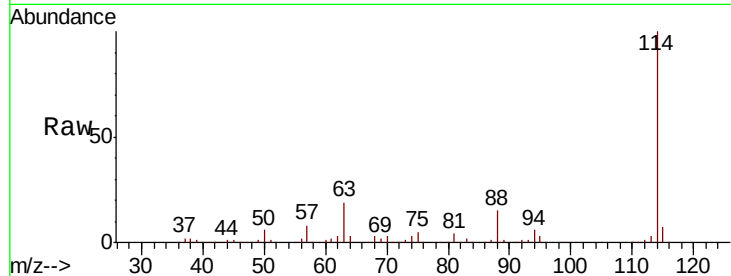




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051333.D
 Acq: 19 Sep 2018 20:59

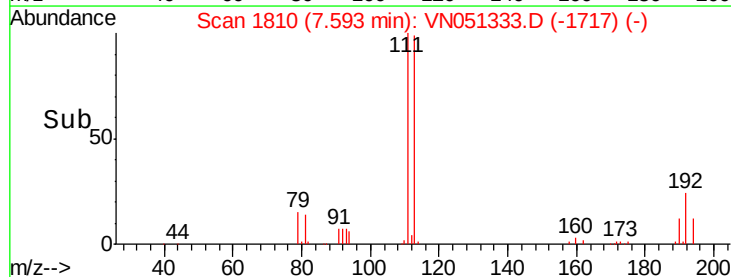
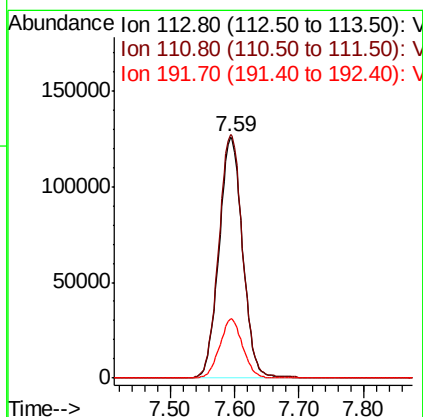
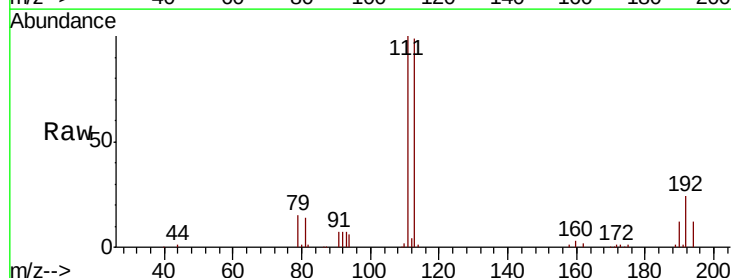
Instrument :
 MSVOA_N
 ClientSampleId :

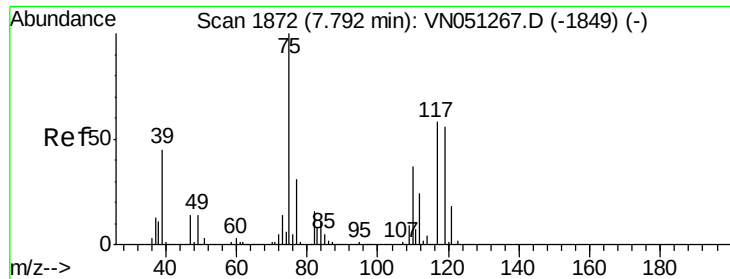
Tot Ion:114 Resp: 852512
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 36.8
 88 14.9 0.0 30.8



#35
 Dibromofluoromethane
 Concen: 48.22 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051333.D
 Acq: 19 Sep 2018 20:59

Tgt Ion:113 Resp: 319416
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.2 123.4
 192 24.0 19.0 28.6





#36

1,1-Dichloropropene

Concen: 3.53 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

Instrument :
MSVOA_N
ClientSampleId :

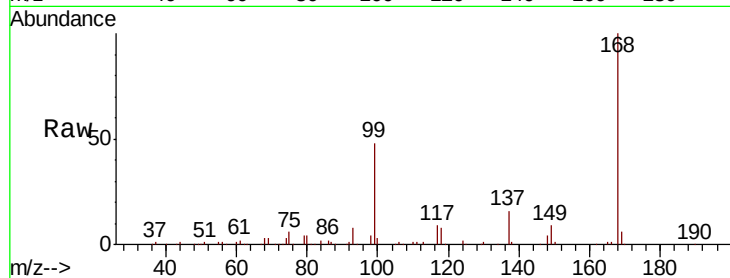
Tot Ion: 75 Resp: 32600

Ion Ratio Lower Upper

75 100

110 8.2 18.6 56.0#

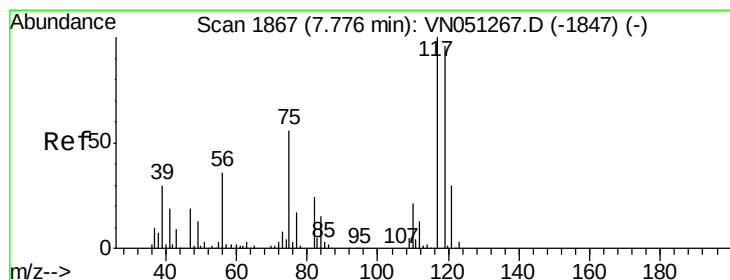
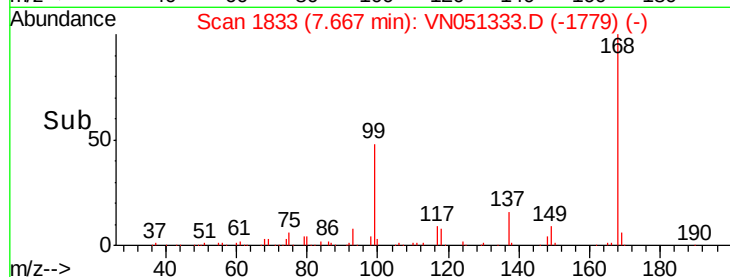
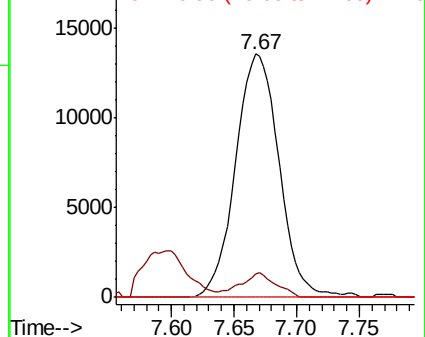
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051267.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN051267.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN051267.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 4.63 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

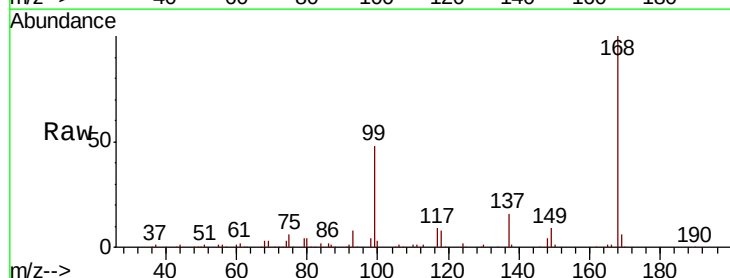
Tgt Ion: 117 Resp: 44573

Ion Ratio Lower Upper

117 100

119 5.4 76.8 115.2#

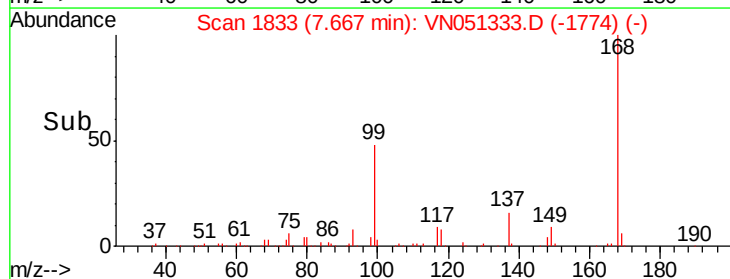
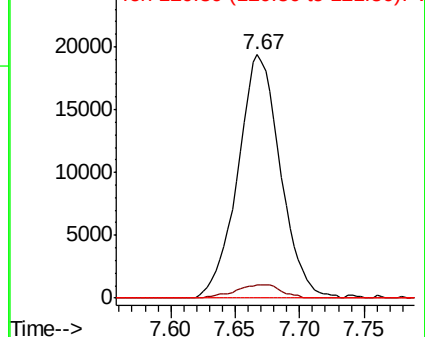
121 0.0 24.2 36.2#

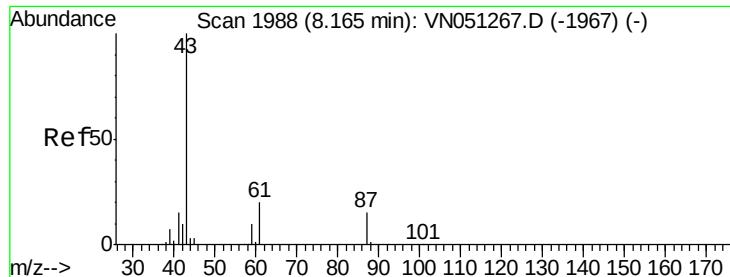


Abundance Ion 116.80 (116.50 to 117.50): VN051267.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN051267.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN051267.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 35.09 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

Instrument :

MSVOA_N

ClientSampleId :

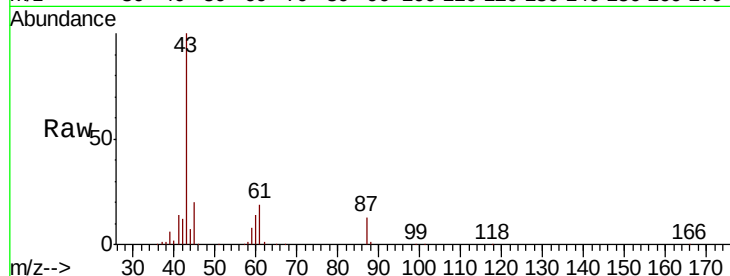
Tot Ion: 43 Resp: 288037

Ion Ratio Lower Upper

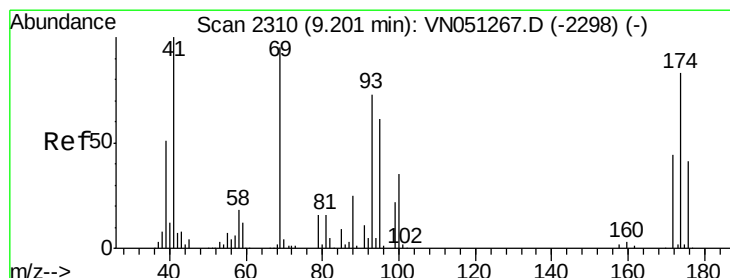
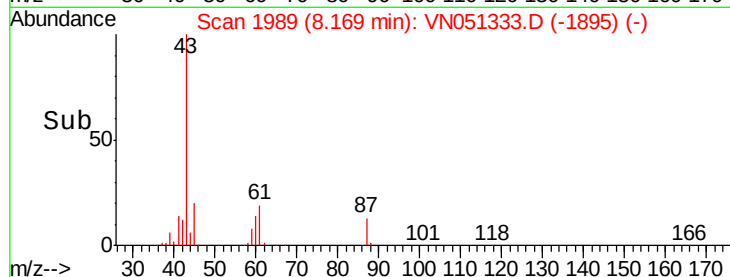
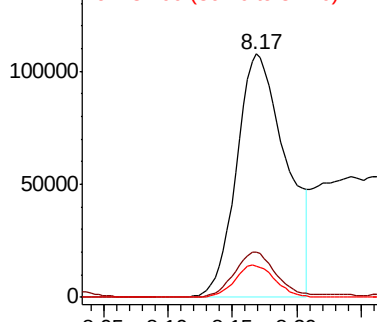
43 100

61 16.2 17.4 26.2#

87 10.7 12.2 18.4#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.35 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

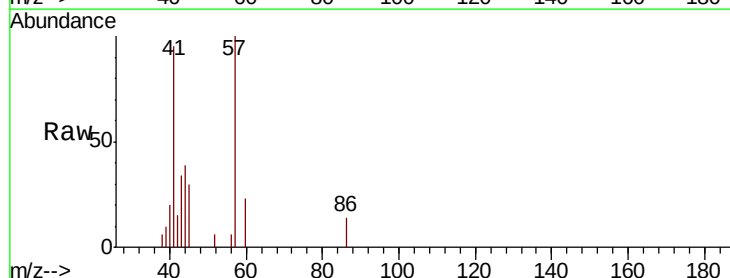
Tgt Ion: 41 Resp: 5320

Ion Ratio Lower Upper

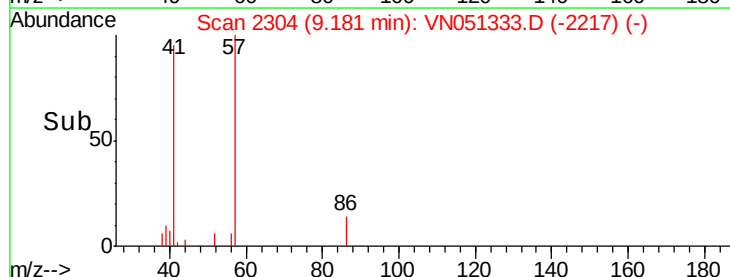
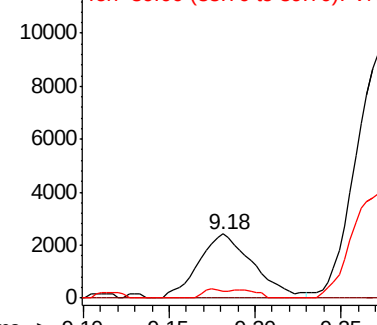
41 100

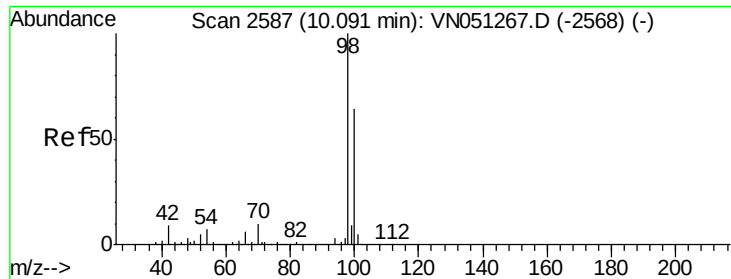
69 0.0 78.9 118.3#

39 0.0 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

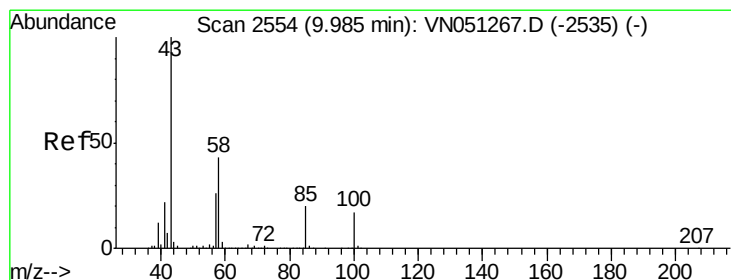
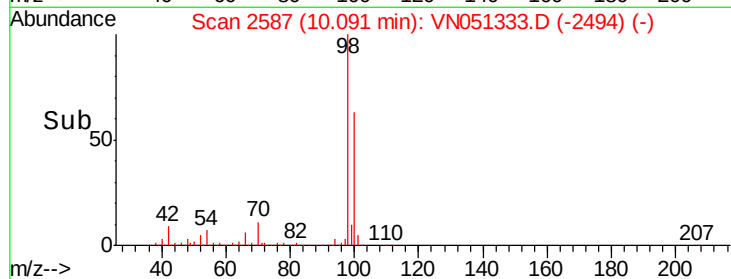
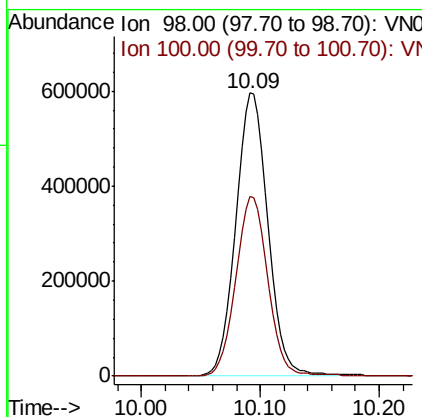
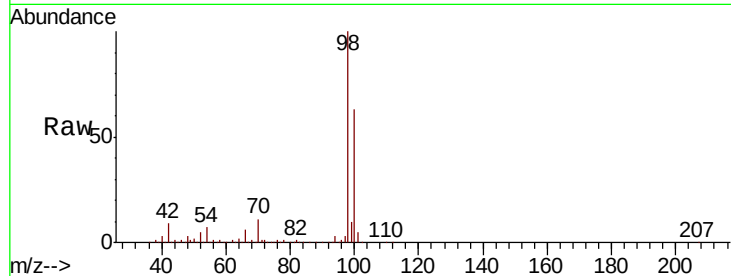




#50
Toluene-d8
Concen: 45.48 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

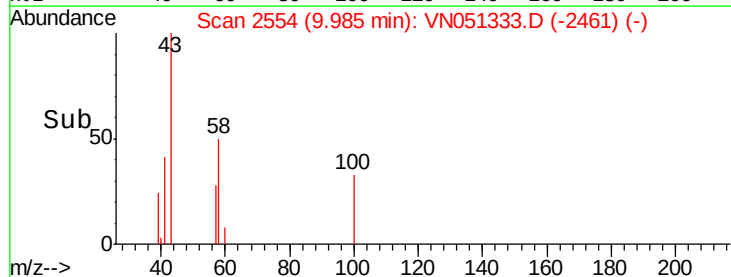
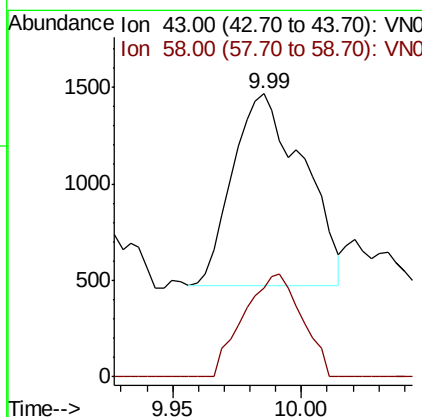
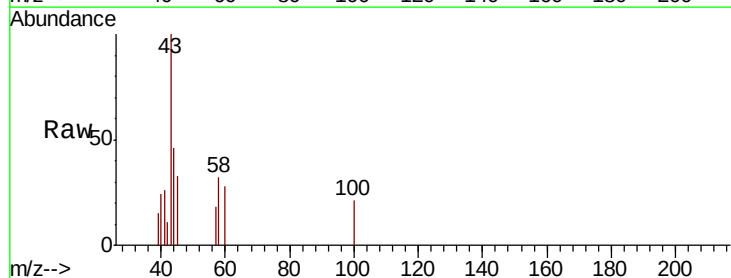
Instrument :
MSVOA_N
ClientSampleId :

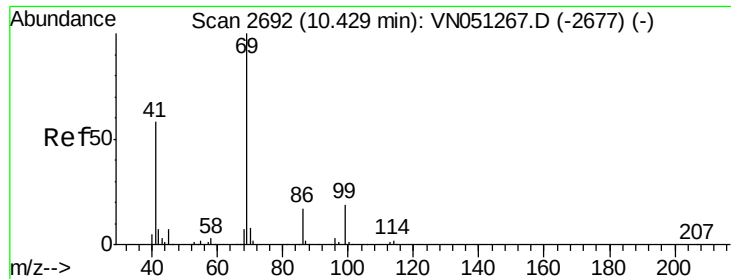
Tot Ion: 98 Resp: 1113729
Ion Ratio Lower Upper
98 100
100 63.7 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 0.45 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

Tgt Ion: 43 Resp: 1912
Ion Ratio Lower Upper
43 100
58 44.0 33.8 50.6





#56

Ethyl methacrylate

Concen: 2.22 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.20 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

Instrument :

MSVOA_N

ClientSampled :

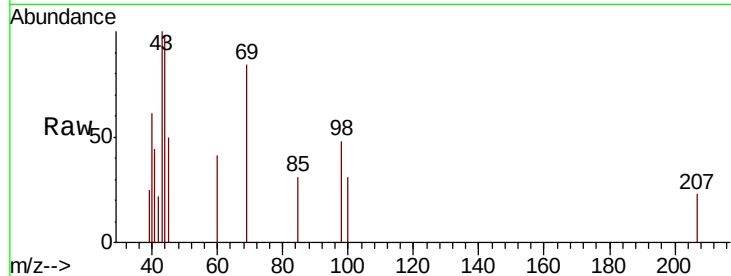
Tot Ion: 69 Resp: 1228

Ion Ratio Lower Upper

69 100

41 0.0 47.4 71.0#

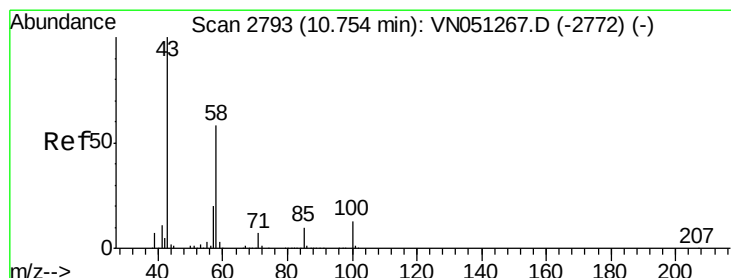
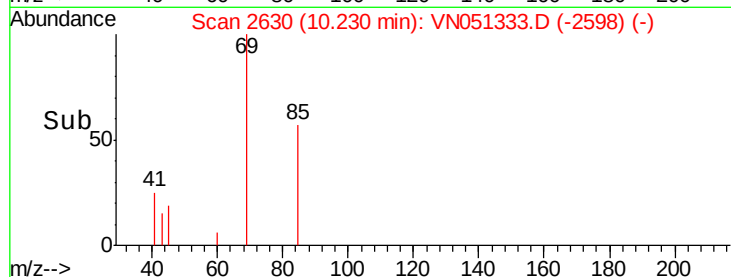
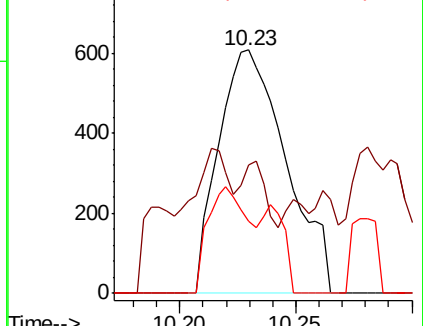
39 12.1 23.7 35.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 4.26 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051333.D

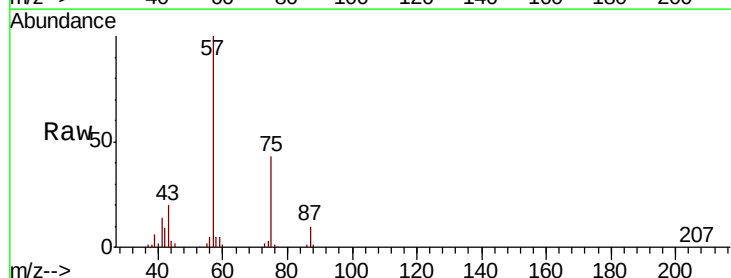
Acq: 19 Sep 2018 20:59

Tgt Ion: 43 Resp: 11883

Ion Ratio Lower Upper

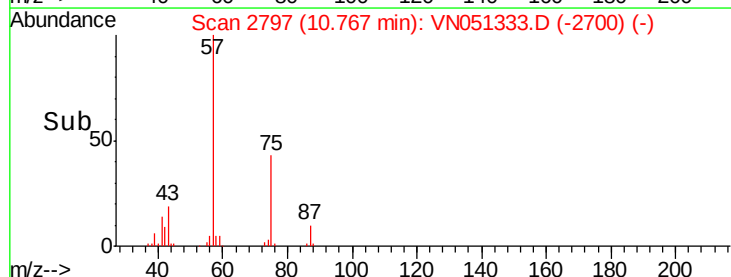
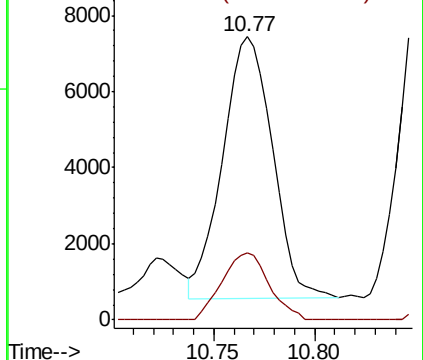
43 100

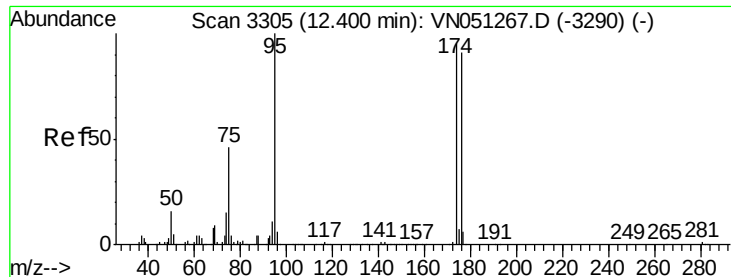
58 24.2 28.9 86.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 37.11 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

Instrument :

MSVOA_N

ClientSampled :

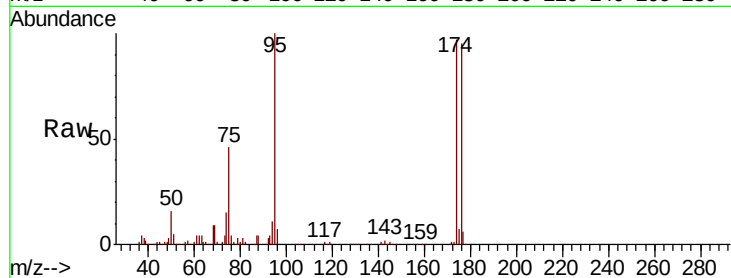
Tot Ion: 95 Resp: 289034

Ion Ratio Lower Upper

95 100

174 96.7 0.0 189.6

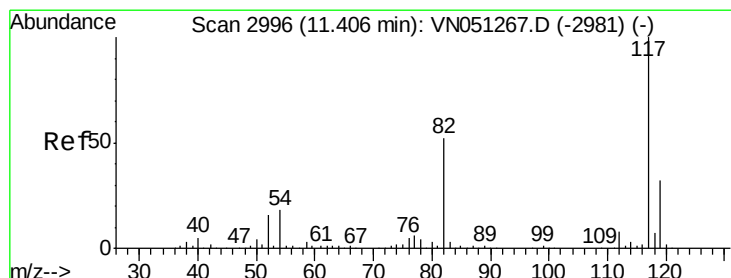
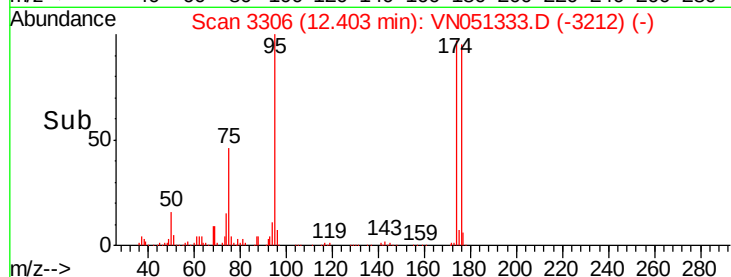
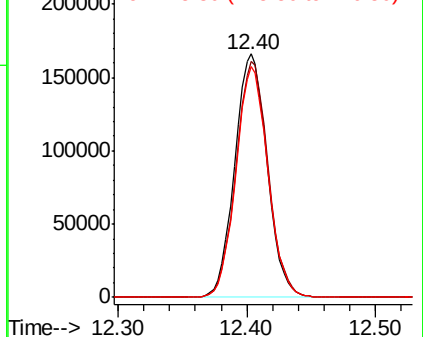
176 93.8 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

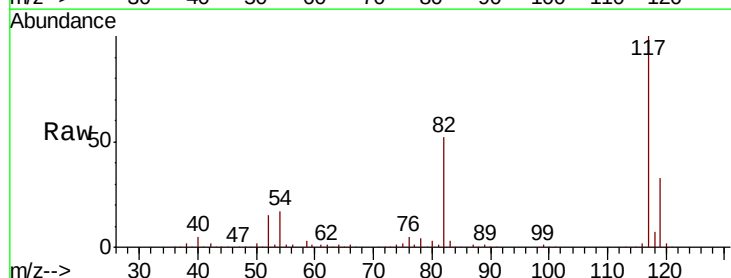
Tgt Ion: 117 Resp: 699395

Ion Ratio Lower Upper

117 100

82 52.0 41.8 62.8

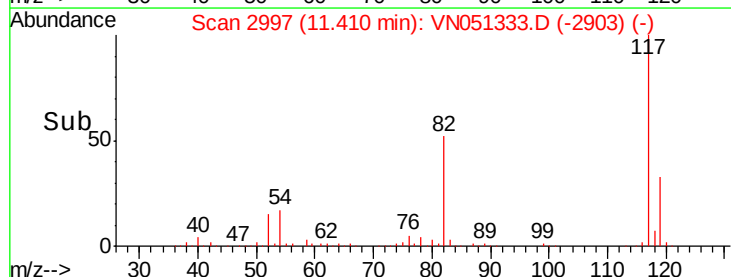
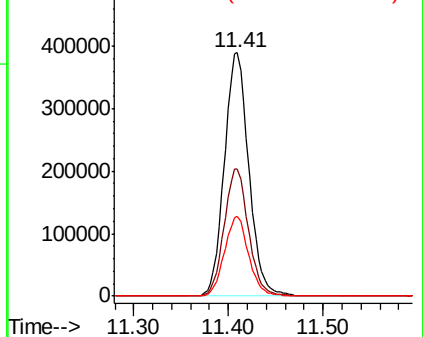
119 32.7 25.6 38.4

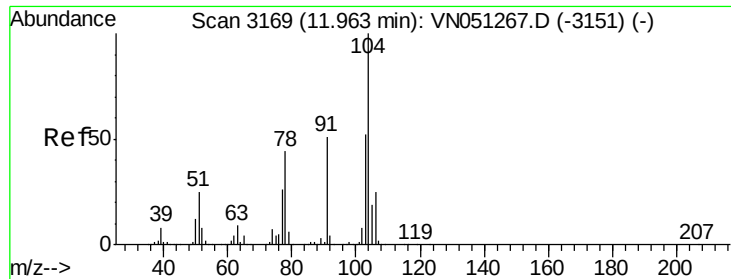


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V

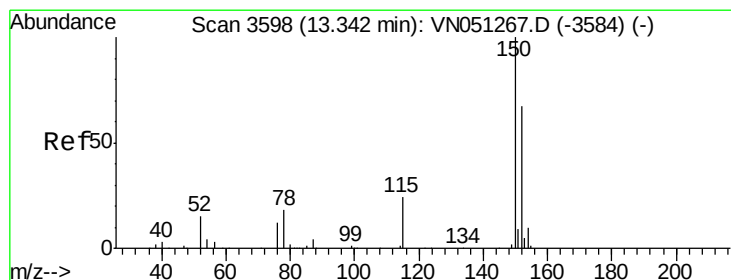
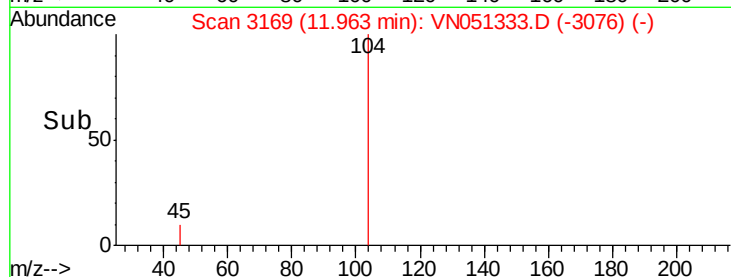
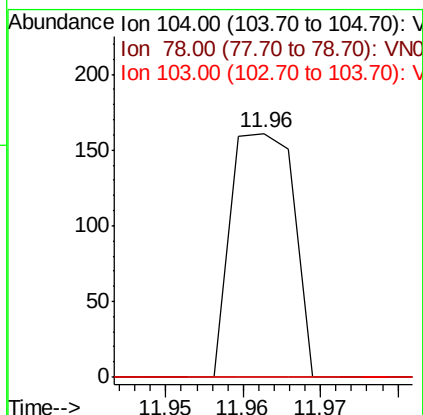
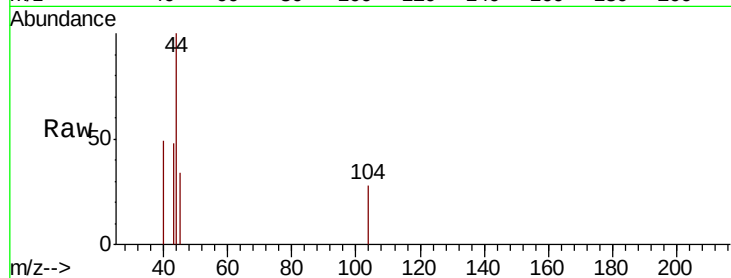




#70
Stvrene
Concen: 1.25 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

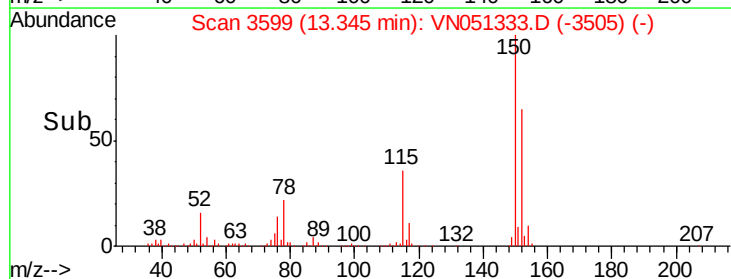
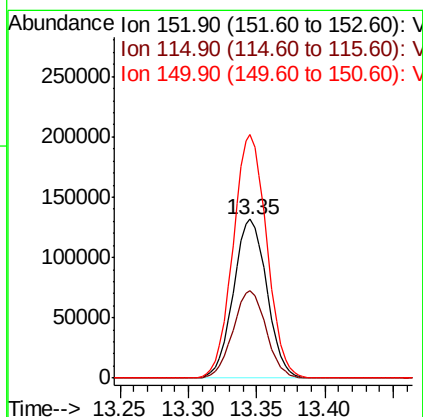
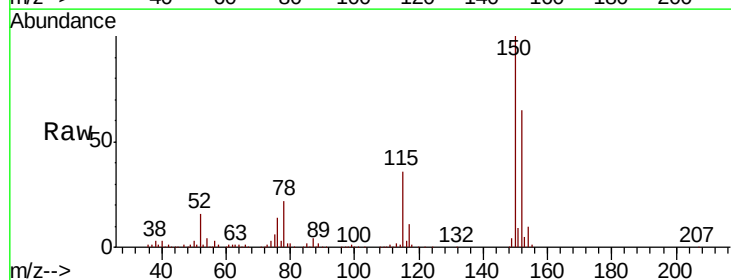
Instrument :
MSVOA_N
ClientSampleId :

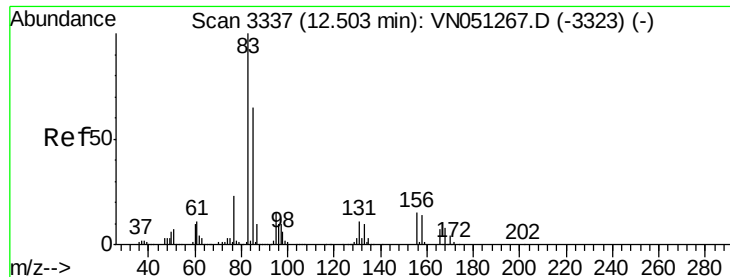
Tot Ion:104 Resp: 91
Ion Ratio Lower Upper
104 100
78 0.0 38.1 57.1#
103 0.0 44.8 67.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051333.D
Acq: 19 Sep 2018 20:59

Tgt Ion:152 Resp: 224060
Ion Ratio Lower Upper
152 100
115 54.5 27.1 81.2
150 153.9 0.0 349.0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

Instrument :

MSVOA_N

ClientSampleId :

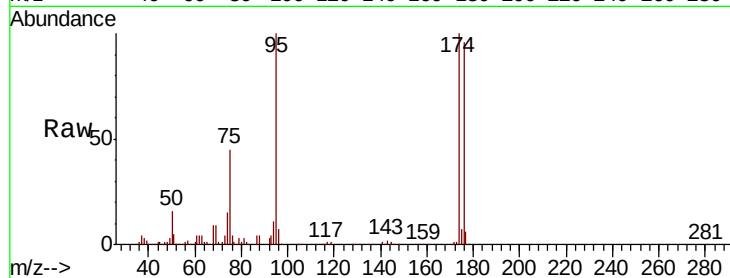
Tot Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

131 546.8 5.5 16.7#

85 0.0 32.3 96.9#

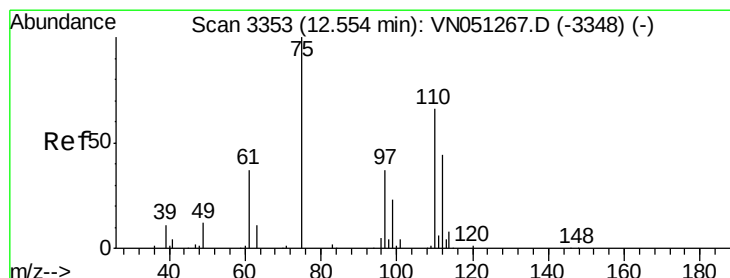
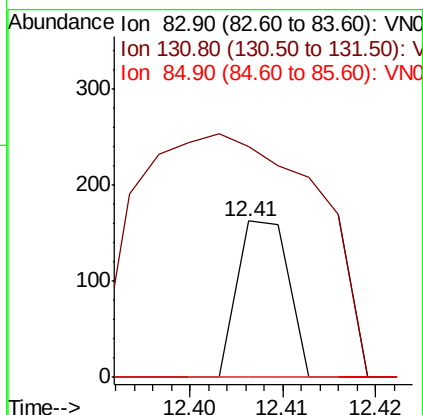
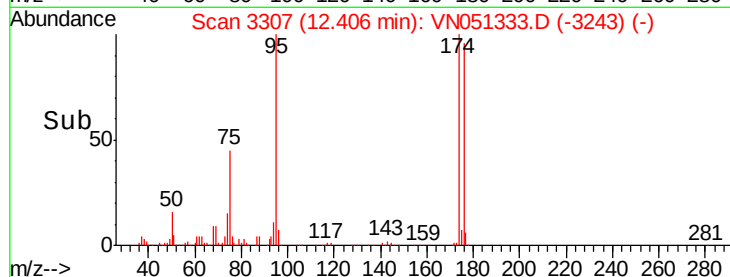


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

Time-->



#76

1,2,3-Trichloropropane

Concen: 42.67 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051333.D

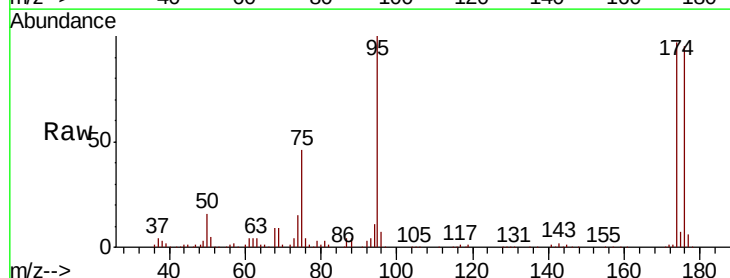
Acq: 19 Sep 2018 20:59

Tgt Ion: 75 Resp: 131935

Ion Ratio Lower Upper

75 100

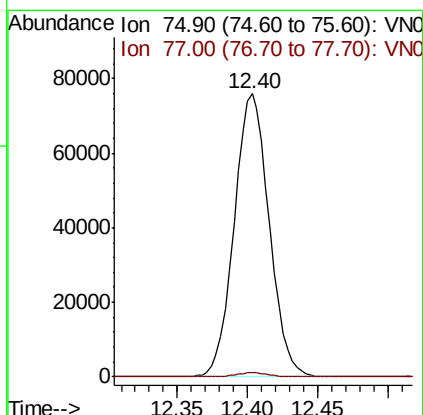
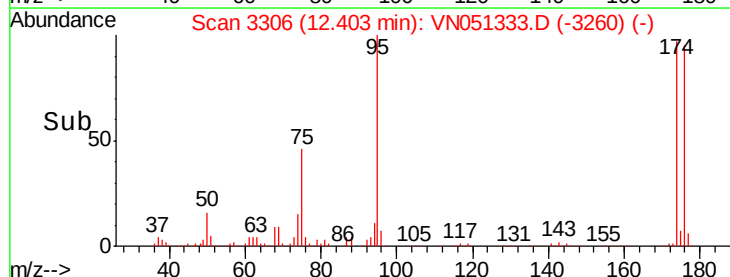
77 1.3 0.0 0.0#

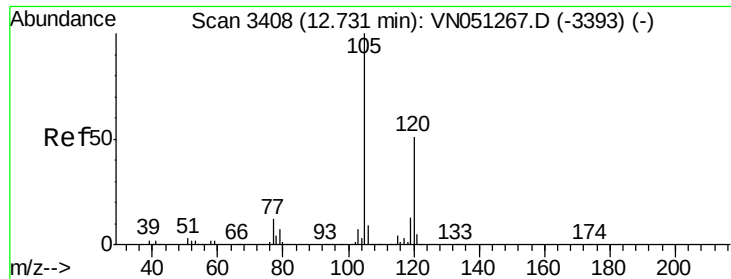


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

Time-->

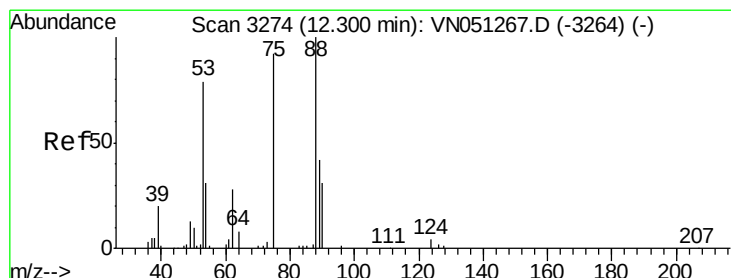
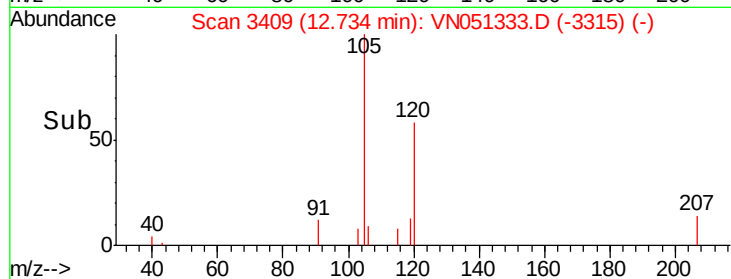
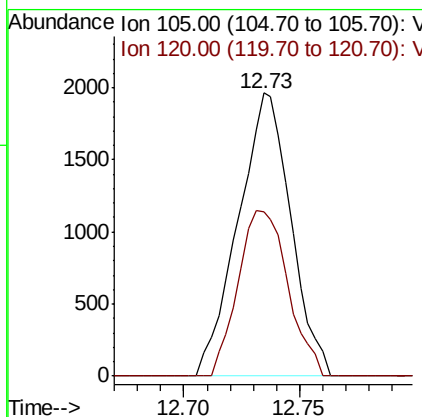
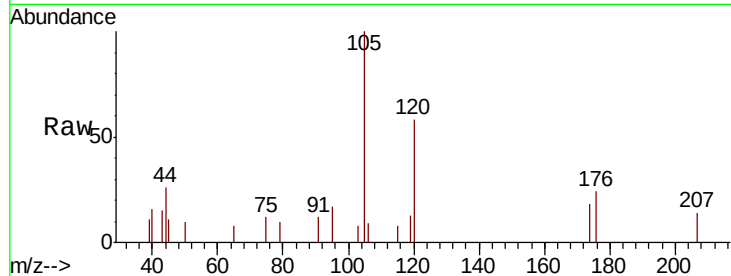




#80
 1,3,5-Trimethylbenzene
 Concen: 0.20 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN051333.D
 Acq: 19 Sep 2018 20:59

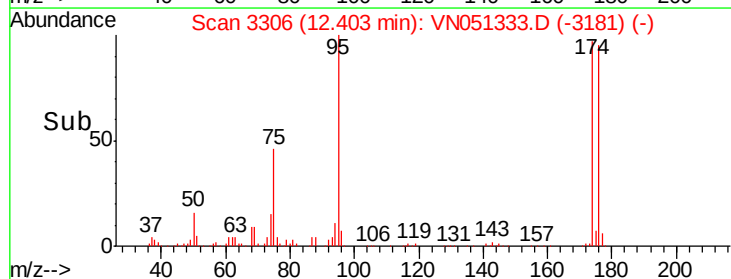
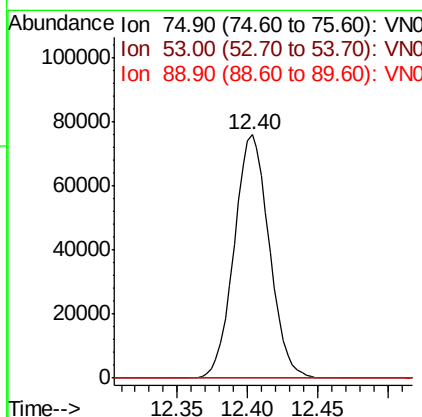
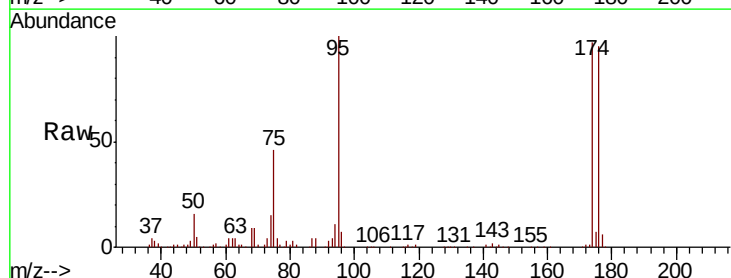
Instrument :
 MSVOA_N
 ClientSampled :

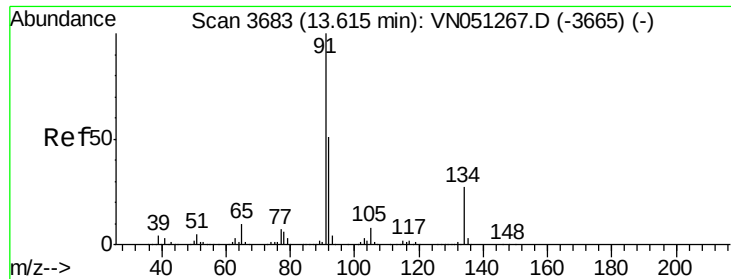
Tot Ion:105 Resp: 3097
 Ion Ratio Lower Upper
 105 100
 120 55.4 25.3 75.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 130.78 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN051333.D
 Acq: 19 Sep 2018 20:59

Tgt Ion: 75 Resp: 131935
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.7 101.5#
 89 0.0 36.9 55.3#





#89

n-Butylbenzene

Concen: 2.05 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.27 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

Instrument :

MSVOA_N

ClientSampled :

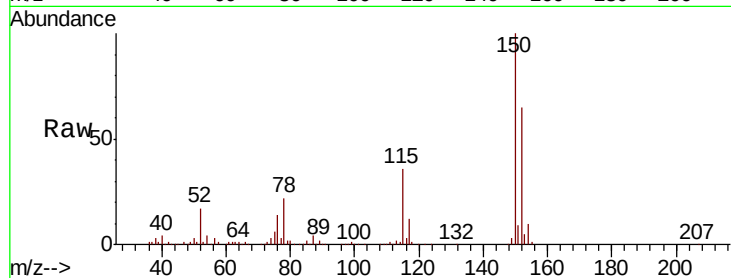
Tot Ion: 91 Resp: 451

Ion Ratio Lower Upper

91 100

92 0.0 25.8 77.4#

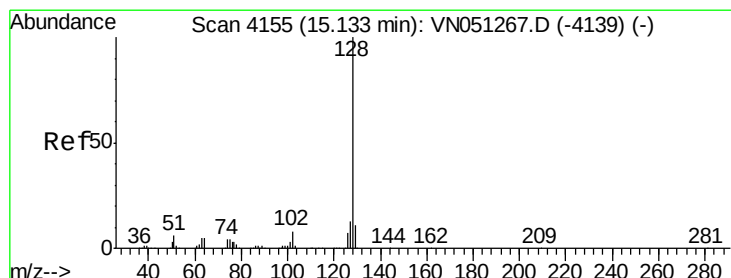
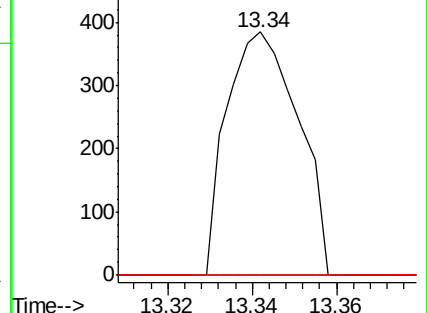
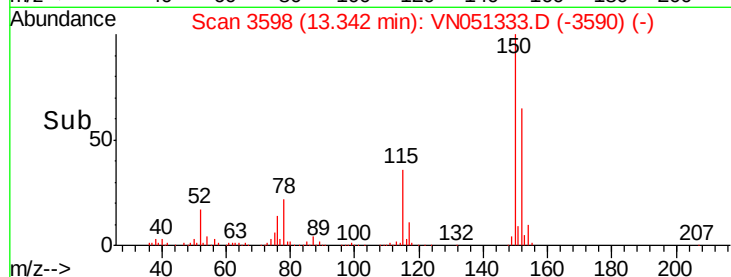
134 0.0 13.7 41.0#



Abundance Ion 91.00 (90.70 to 91.70): VN051267.D (-3665) (-)

Ion 92.00 (91.70 to 92.70): VN051267.D (-3665) (-)

Ion 134.00 (133.70 to 134.70): VN051267.D (-3665) (-)



#95

Naphthalene

Concen: 5.95 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN051333.D

Acq: 19 Sep 2018 20:59

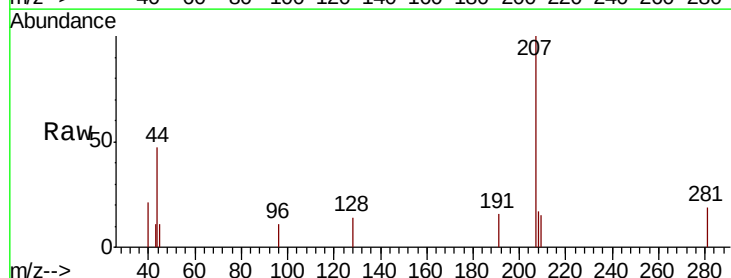
Tgt Ion: 128 Resp: 211

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): VN051267.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN051267.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN051267.D (-4139) (-)

