

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051262.D
 Acq On : 16 Sep 2018 8:16
 Operator : MD\SY
 Sample : J4936-38
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 04:29:51 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	397199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	613787	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	496274	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	141160	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	220092	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
35) Dibromofluoromethane	7.59	113	233894	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
50) Toluene-d8	10.09	98	798397	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	
62) 4-Bromofluorobenzene	12.40	95	197638	34.14	ug/l	0.00
Spiked Amount			Recovery	=	68.28%	

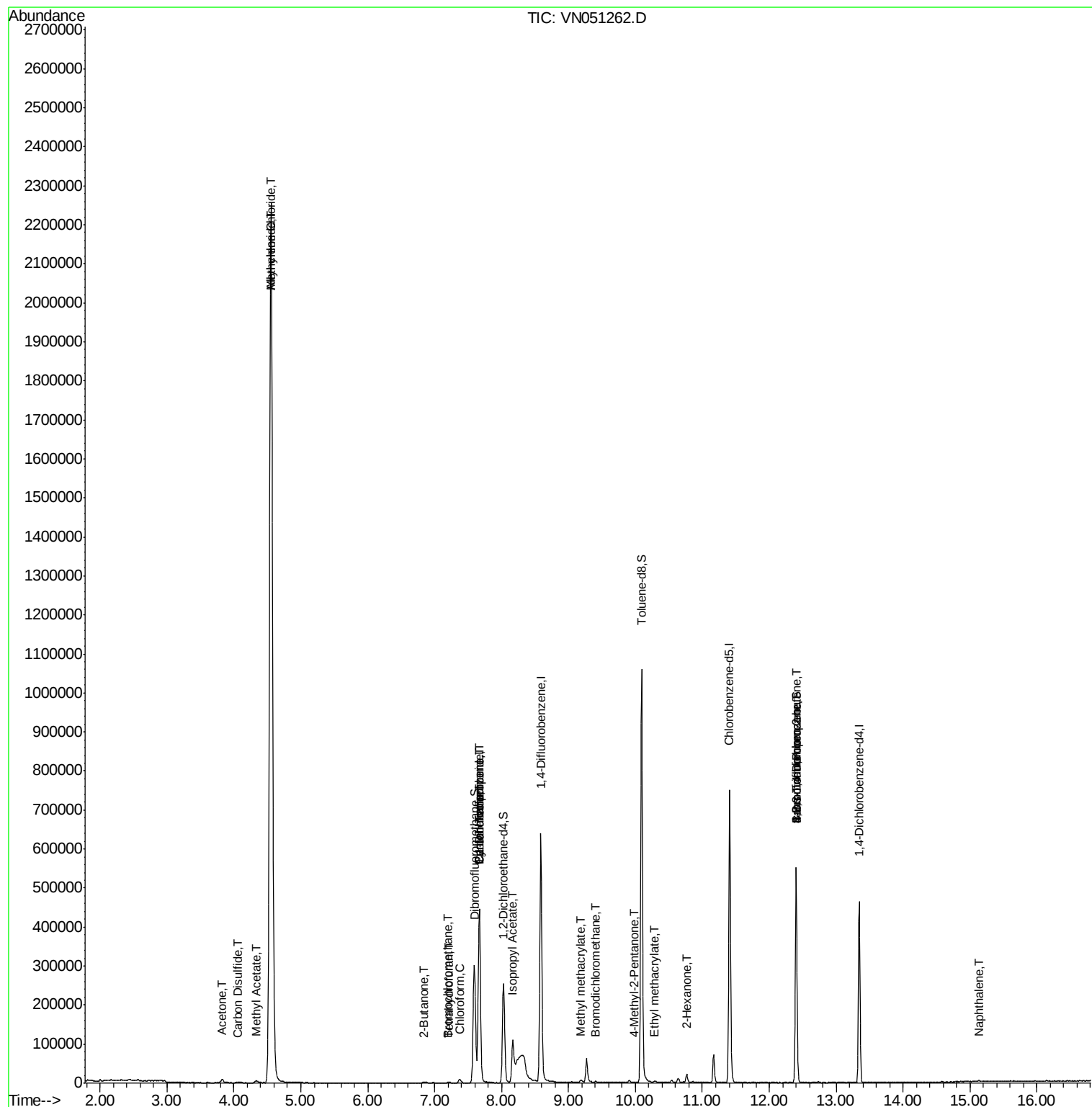
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2104	Below Cal		98
5) Bromomethane	2.57	94	1642	Below Cal	#	78
14) Allyl chloride	4.55	41	63604	9.85	ug/l #	27
16) Acetone	3.82	43	15110	8.18	ug/l	99
17) Carbon Disulfide	4.05	76	1253	0.21	ug/l #	76
18) Methyl Acetate	4.34	43	11209	3.17	ug/l	96
20) Methylene Chloride	4.55	84	1846529	378.18	ug/l	99
25) 2-Butanone	6.84	43	1539	0.89	ug/l	99
28) Bromochloromethane	7.20	49	834	0.23	ug/l #	90
29) Tetrahydrofuran	7.22	42	545	0.50	ug/l #	40
30) Chloroform	7.38	83	10857	1.34	ug/l	95
31) Cyclohexane	7.67	56	6302	0.64	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25999	3.86	ug/l #	49
38) Carbon Tetrachloride	7.67	117	34598	5.22	ug/l #	16
43) Isopropyl Acetate	8.17	43	134495	19.53	ug/l #	84
47) Bromodichloromethane	9.40	83	2189	0.34	ug/l #	83
48) Methyl methacrylate	9.18	41	3855	1.15	ug/l #	15
51) 4-Methyl-2-Pentanone	9.98	43	1006	0.26	ug/l	87
56) Ethyl methacrylate	10.28	69	62	2.46	ug/l #	45
59) 2-Hexanone	10.76	43	3558	1.38	ug/l #	53
71) Bromoform	12.40	173	845	0.27	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	91260	41.45	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	91260	122.78	ug/l #	15
90) Hexachloroethane	13.99	117	385	Below Cal	#	2
95) Naphthalene	15.13	128	2657	5.79	ug/l #	94

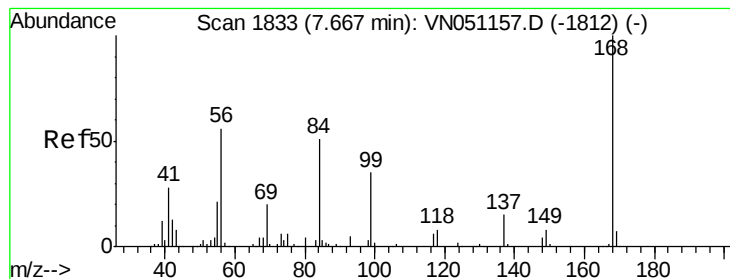
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1833

Delta R.T. -0.00 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

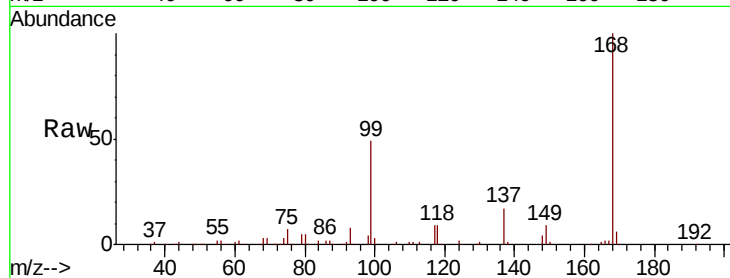
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 397199

Ion Ratio Lower Upper

168 100

99 48.7 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): VN051157.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051157.D (-1812) (-)

7.67

150000

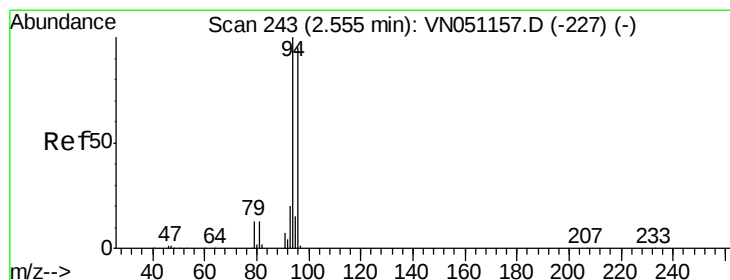
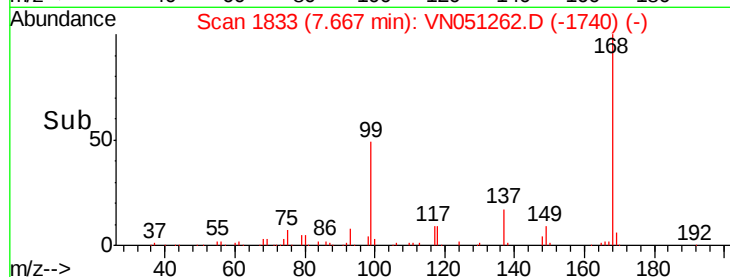
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051262.D

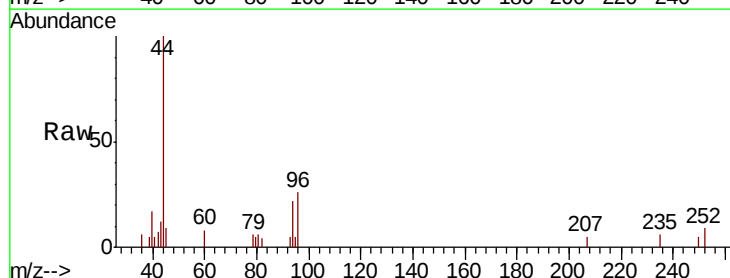
Acq: 16 Sep 2018 8:16

Tgt Ion: 94 Resp: 1642

Ion Ratio Lower Upper

94 100

96 116.3 75.9 113.9#



Abundance Ion 93.90 (93.60 to 94.60): VN051157.D (-227) (-)

Ion 95.90 (95.60 to 96.60): VN051157.D (-227) (-)

2.57

1000

800

600

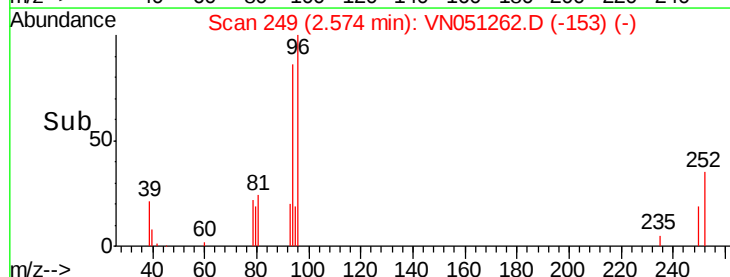
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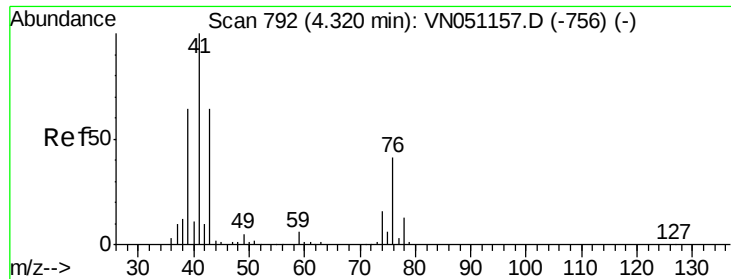
200

0

2.55 2.60

Time-->

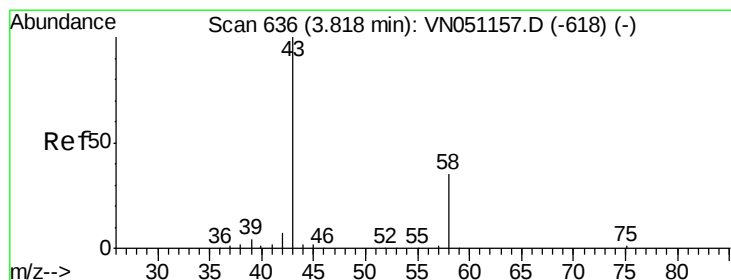
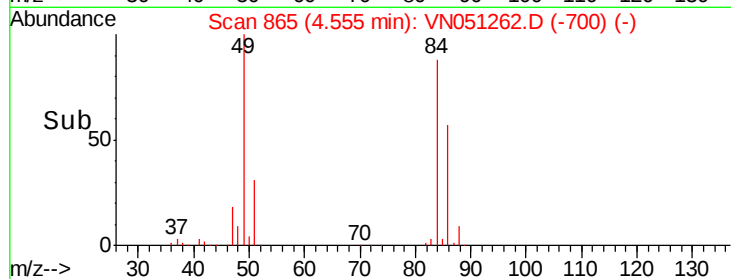
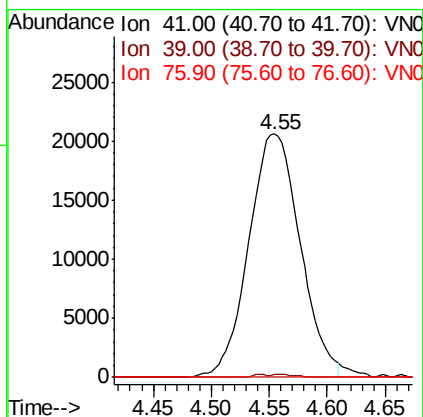
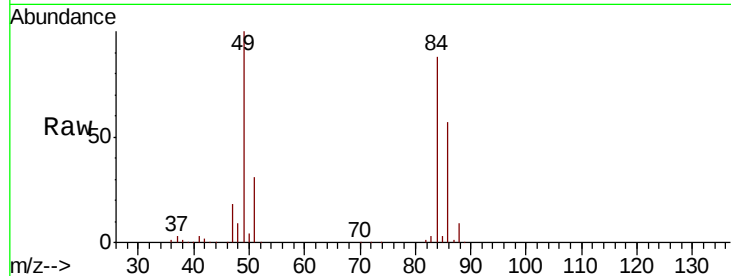




#14
Allvl chloride
Concen: 9.85 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.23 min
Lab File: VN051262.D
Acq: 16 Sep 2018 8:16

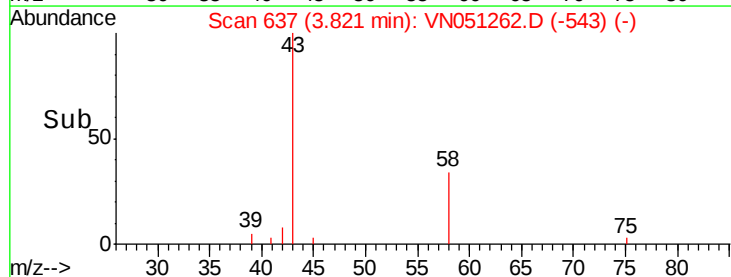
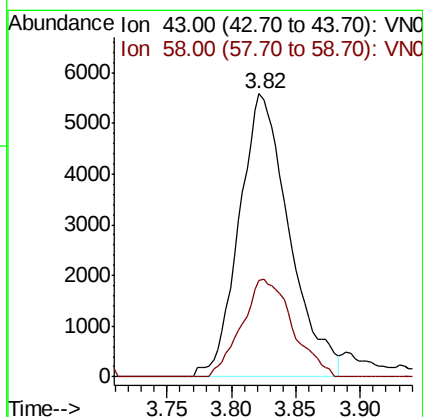
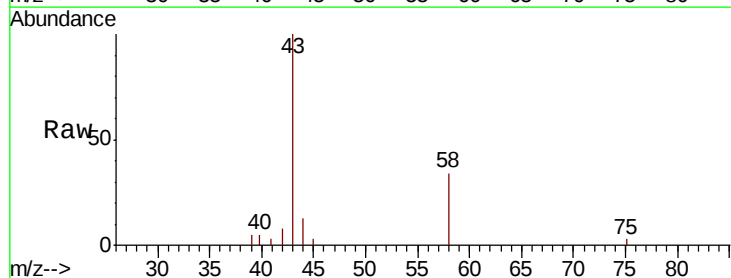
Instrument :
MSVOA_N
ClientSampled :

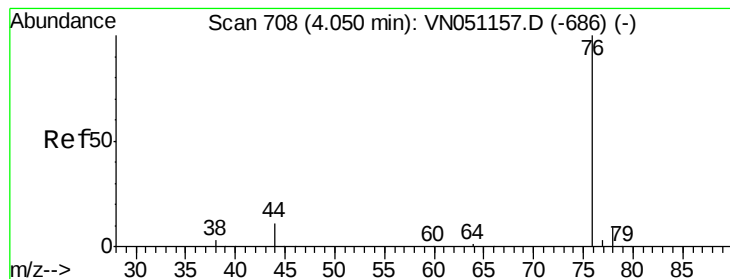
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.5	48.8	73.2#
76	0.0	30.6	45.8#



#16
Acetone
Concen: 8.18 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN051262.D
Acq: 16 Sep 2018 8:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.1	27.8	41.6





#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

Instrument :

MSVOA_N

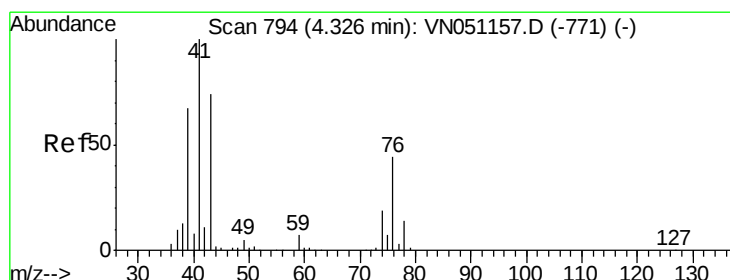
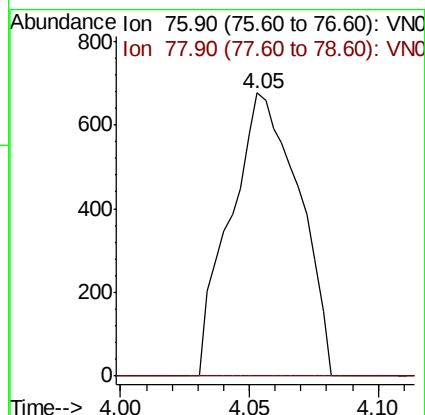
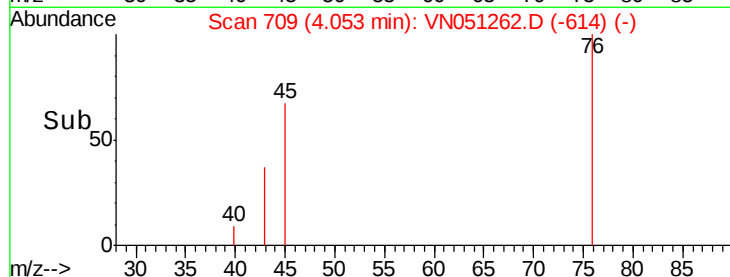
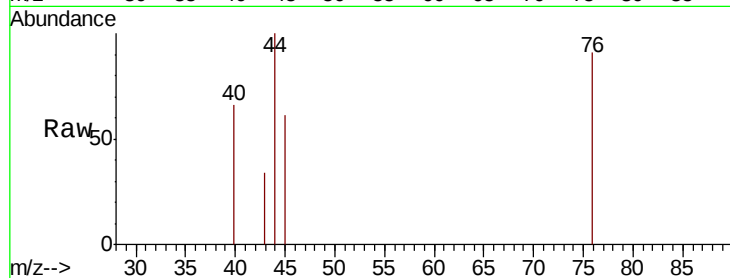
ClientSampleId :

Tot Ion: 76 Resp: 1253

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#18

Methyl Acetate

Concen: 3.17 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051262.D

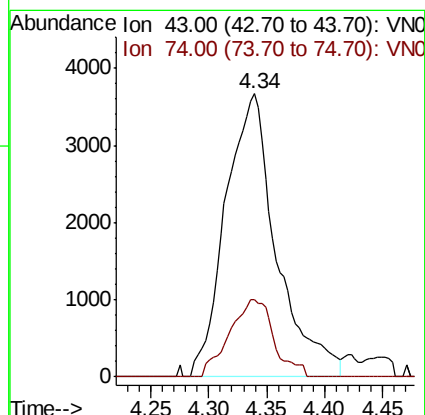
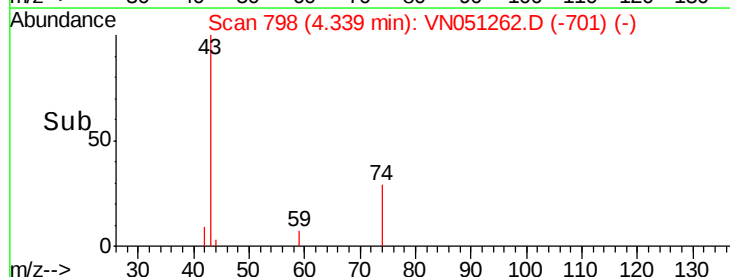
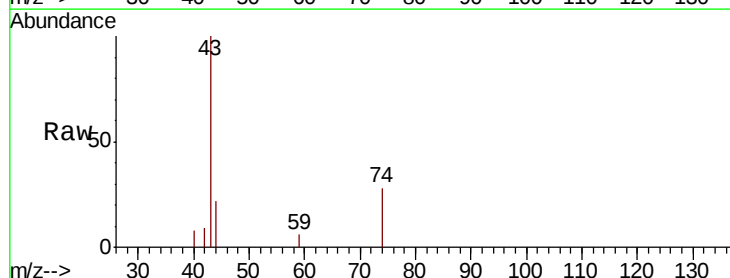
Acq: 16 Sep 2018 8:16

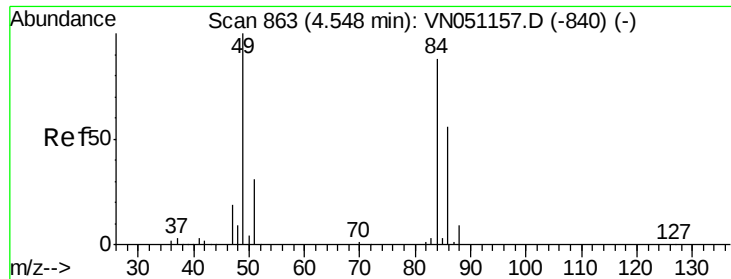
Tgt Ion: 43 Resp: 11209

Ion Ratio Lower Upper

43 100

74 23.8 20.7 31.1



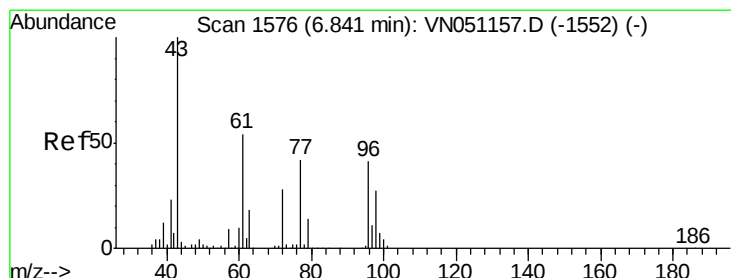
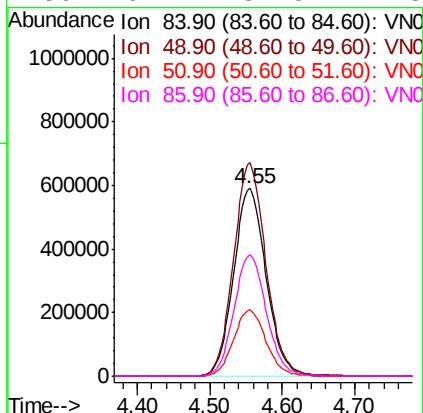
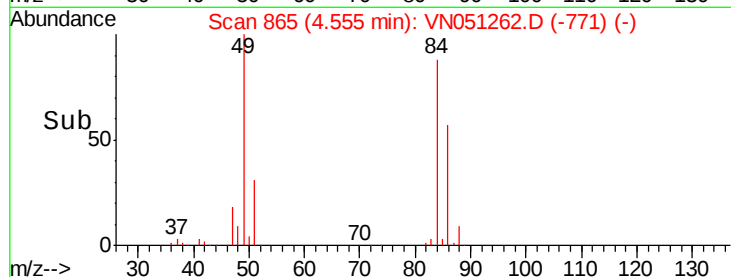
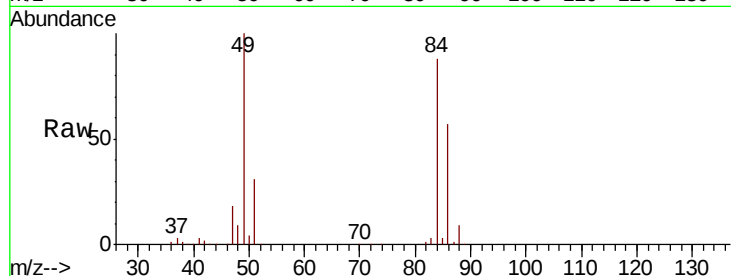


#20
Methvlene Chloride
Concen: 378.18 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051262.D
Acq: 16 Sep 2018 8:16

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 1846529

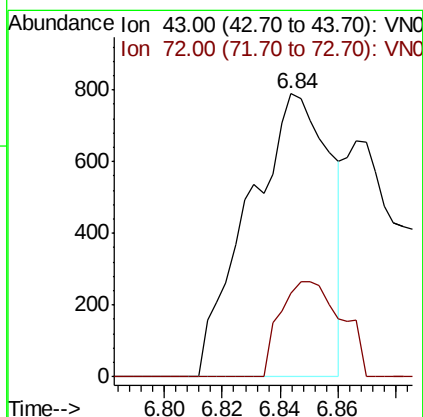
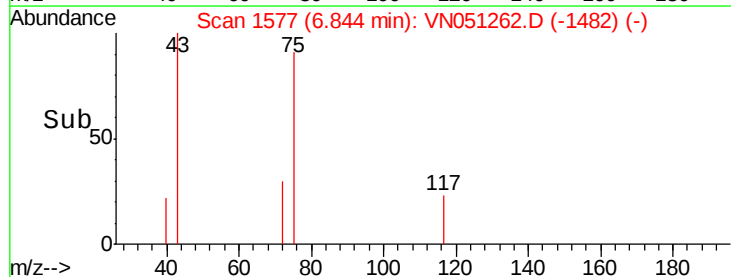
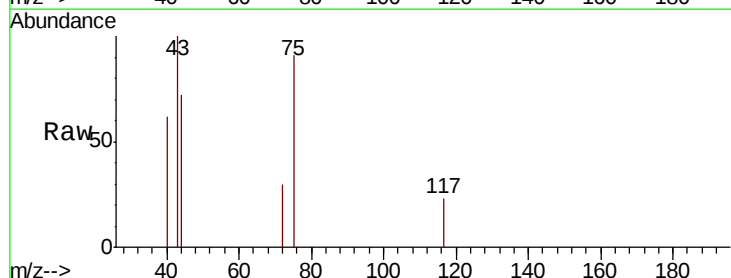
Ion	Ratio	Lower	Upper
84	100		
49	113.6	90.2	135.2
51	35.2	28.4	42.6
86	64.4	51.8	77.8

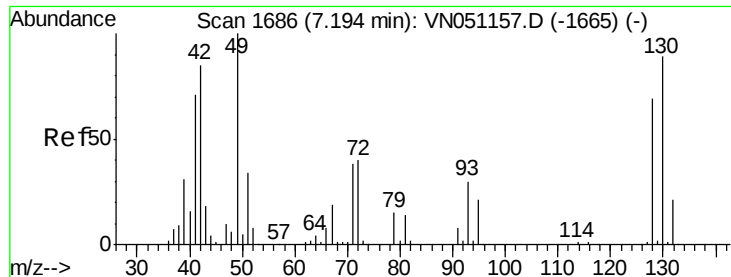


#25
2-Butanone
Concen: 0.89 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN051262.D
Acq: 16 Sep 2018 8:16

Tgt Ion: 43 Resp: 1539

Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.0	34.6

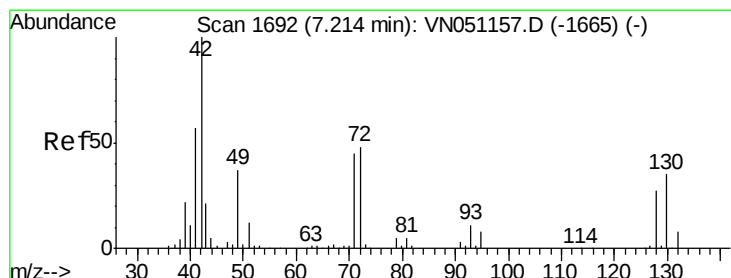
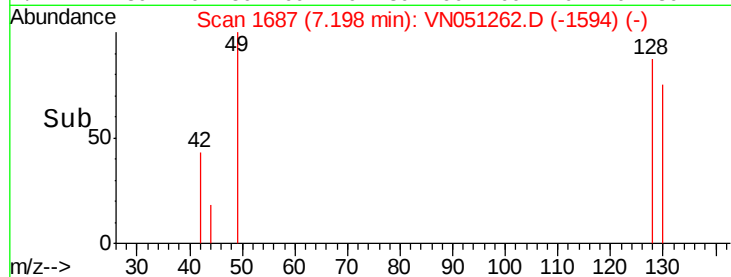
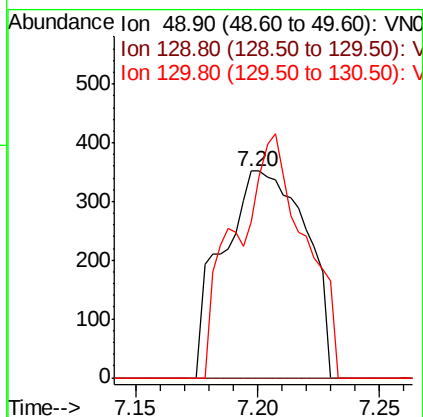
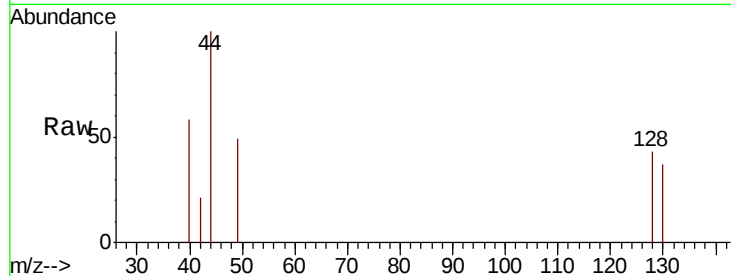




#28
 Bromochloromethane
 Concen: 0.23 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. -0.00 min
 Lab File: VN051262.D
 Acq: 16 Sep 2018 8:16

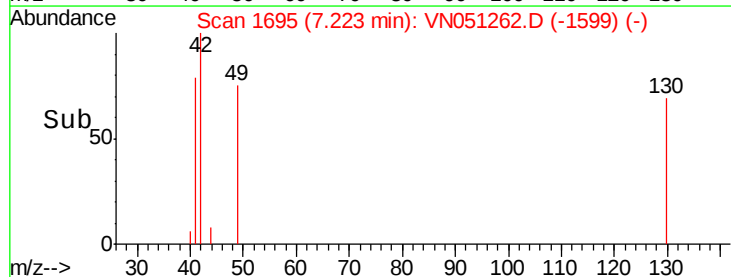
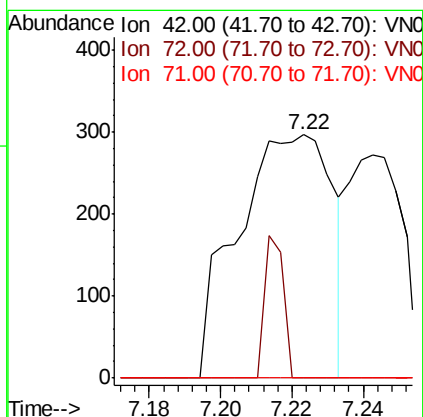
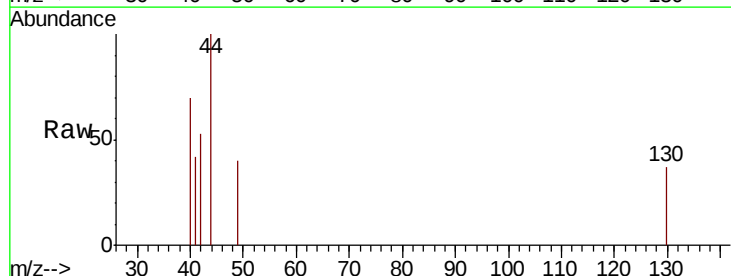
Instrument :
 MSVOA_N
 ClientSampled :

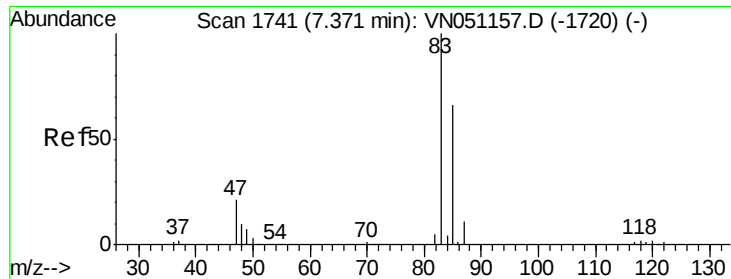
Tot Ion: 49 Resp: 834
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.4
 130 97.5 70.7 106.1



#29
 Tetrahydrofuran
 Concen: 0.50 ug/l
 RT: 7.22 min Scan# 1695
 Delta R.T. 0.01 min
 Lab File: VN051262.D
 Acq: 16 Sep 2018 8:16

Tgt Ion: 42 Resp: 545
 Ion Ratio Lower Upper
 42 100
 72 11.6 37.4 56.0#
 71 0.0 34.7 52.1#





#30

Chloroform

Concen: 1.34 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.01 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

Instrument :

MSVOA_N

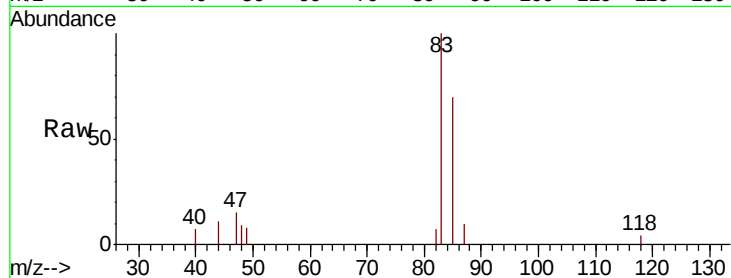
ClientSampleId :

Tot Ion: 83 Resp: 10857

Ion Ratio Lower Upper

83 100

85 69.6 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

7.38

4000

3000

2000

1000

0

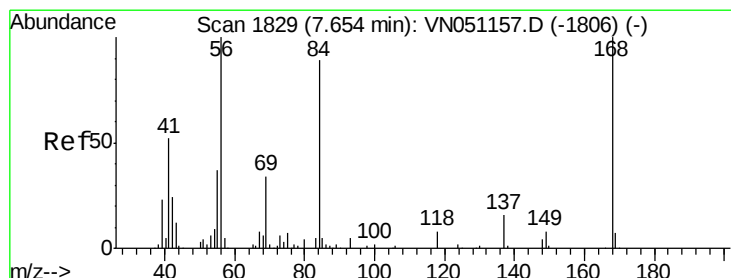
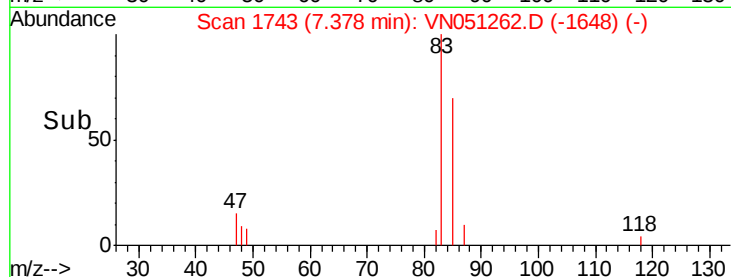
Time-->

7.30

7.35

7.40

7.45



#31

Cyclohexane

Concen: 0.64 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

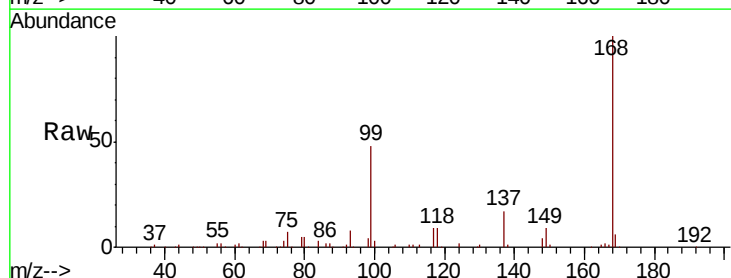
Tgt Ion: 56 Resp: 6302

Ion Ratio Lower Upper

56 100

69 200.1 26.3 39.5#

84 165.1 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

6000

4000

2000

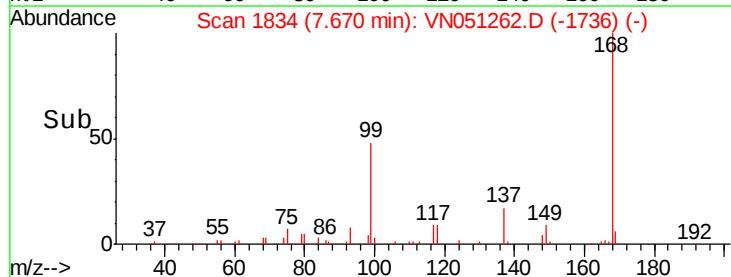
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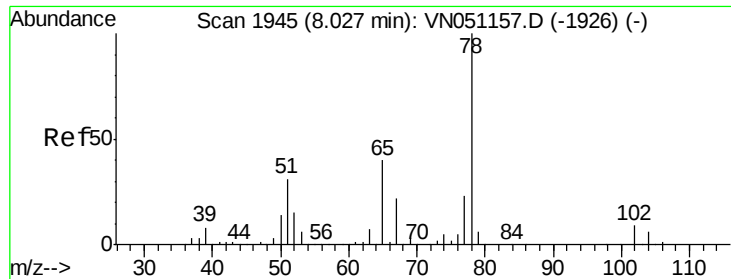
Time-->

7.60

7.65

7.70

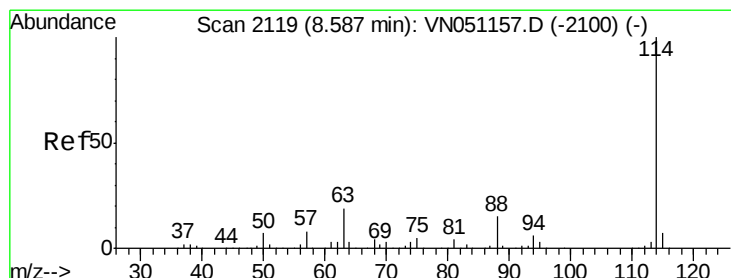
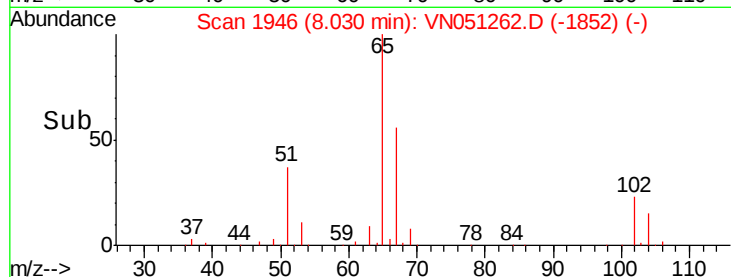
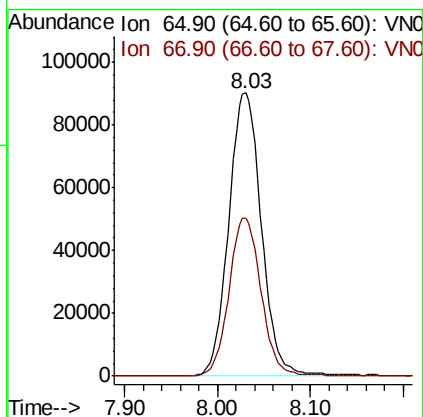
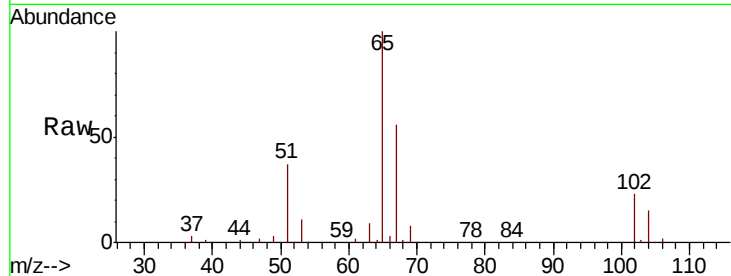




#33
 1,2-Dichloroethane-d4
 Concen: 49.79 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051262.D
 Acq: 16 Sep 2018 8:16

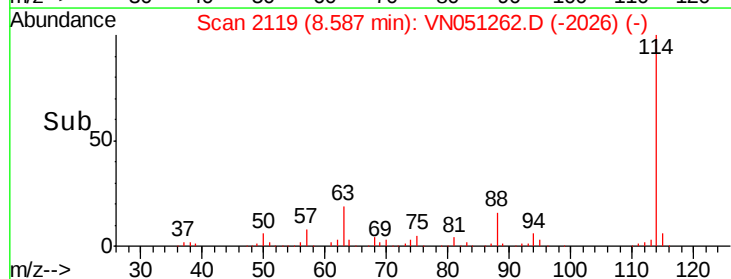
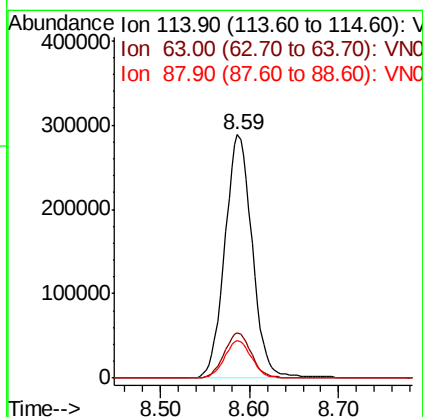
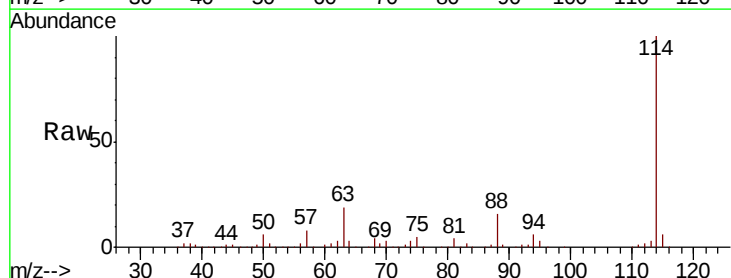
Instrument :
 MSVOA_N
 ClientSampled :

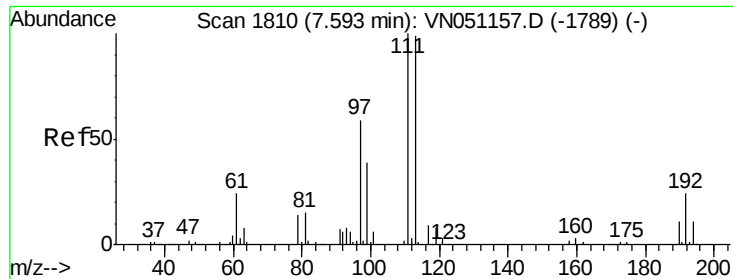
Tot Ion: 65 Resp: 220092
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051262.D
 Acq: 16 Sep 2018 8:16

Tgt Ion: 114 Resp: 613787
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 37.8
 88 15.5 0.0 30.8

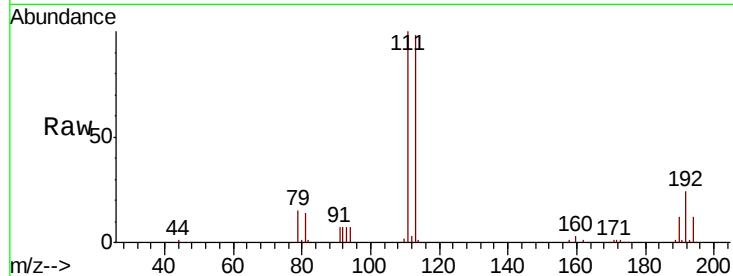




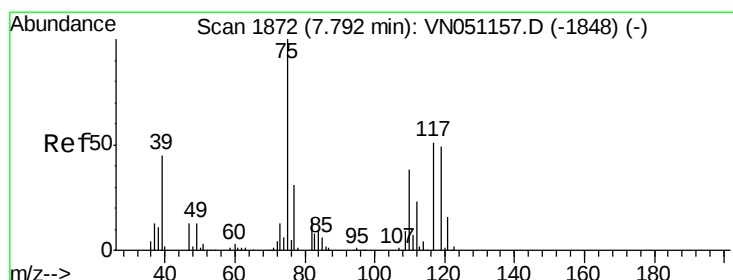
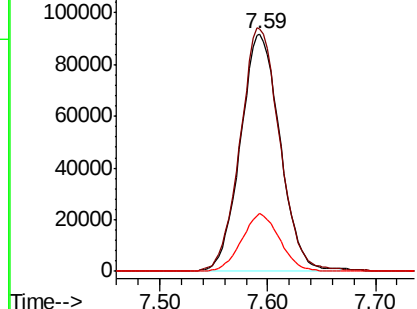
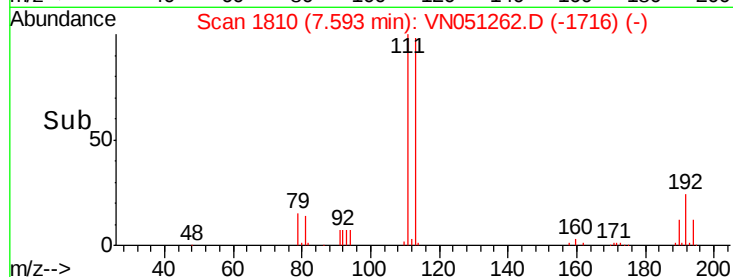
#35
 Dibromofluoromethane
 Concen: 50.71 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051262.D
 Acq: 16 Sep 2018 8:16

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.0	124.6
192	23.4	18.7	28.1

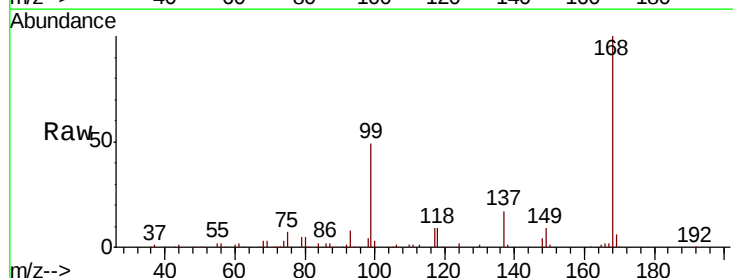


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

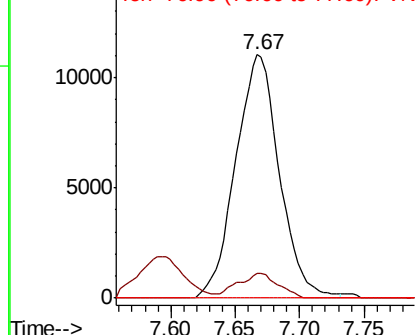
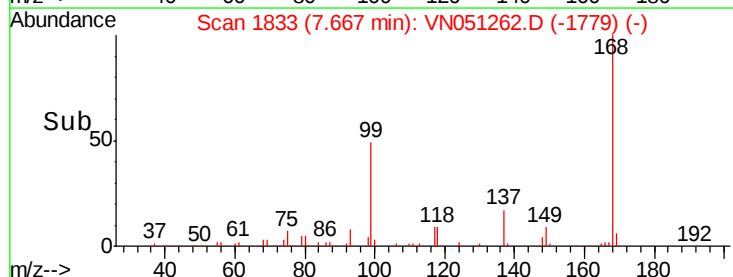


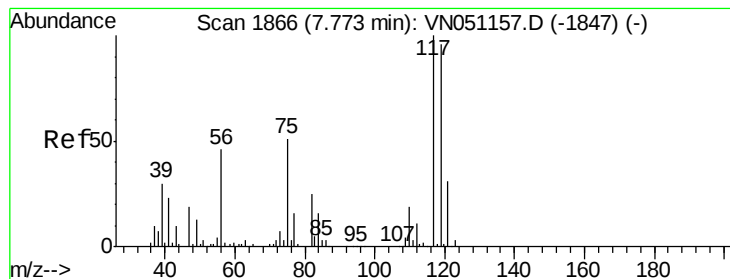
#36
 1,1-Dichloropropene
 Concen: 3.86 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051262.D
 Acq: 16 Sep 2018 8:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.6	55.8#
77	0.0	25.2	37.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.22 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

Instrument :

MSVOA_N

ClientSampleId :

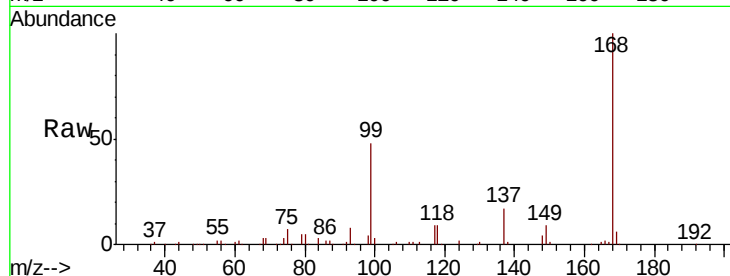
Tot Ion:117 Resp: 34598

Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

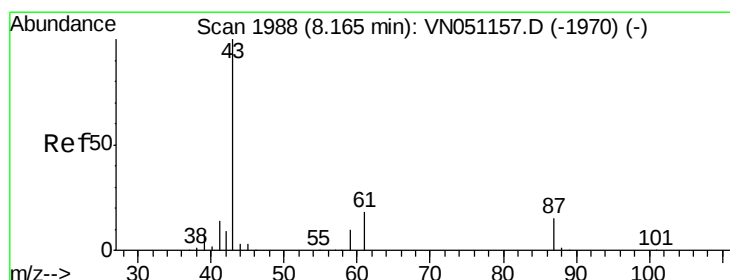
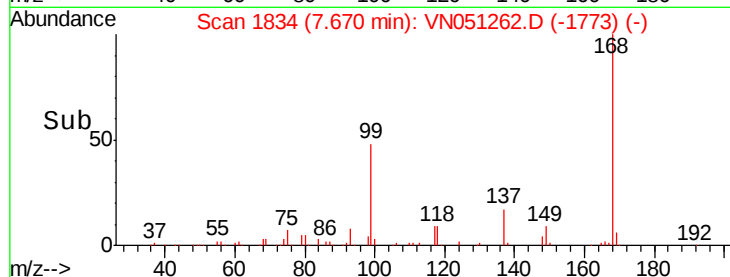
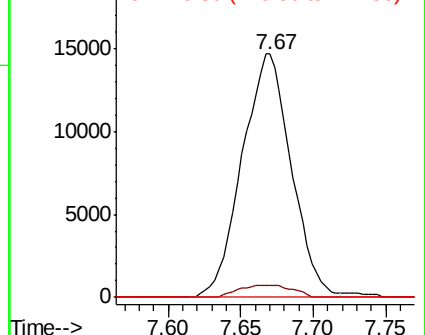
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 19.53 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

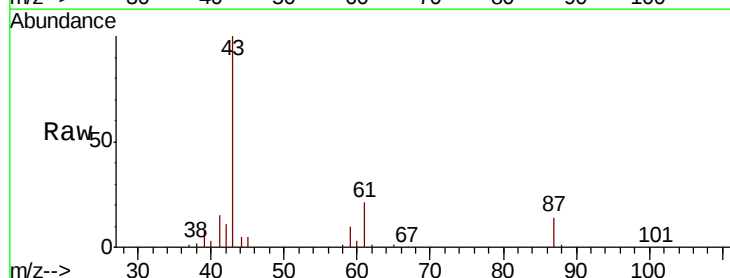
Tgt Ion: 43 Resp: 134495

Ion Ratio Lower Upper

43 100

61 19.8 25.0 37.6#

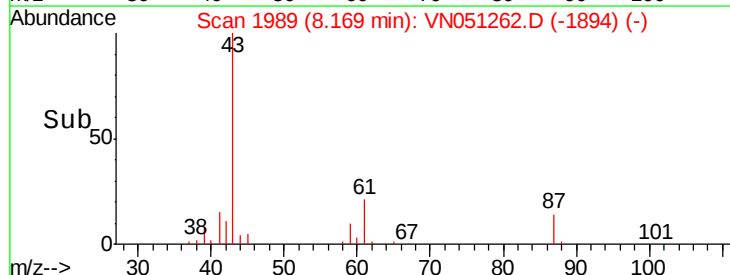
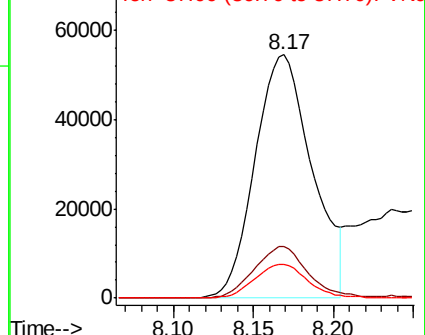
87 12.9 11.8 17.8

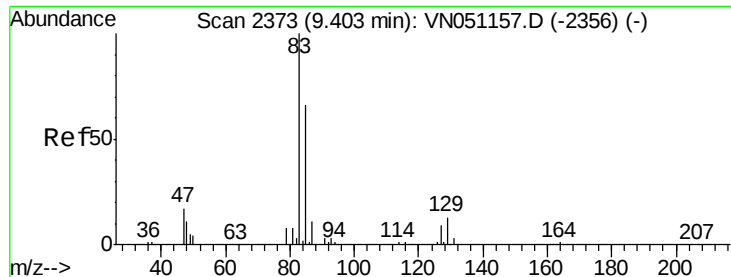


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 0.34 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

Instrument :
MSVOA_N
ClientSampled :

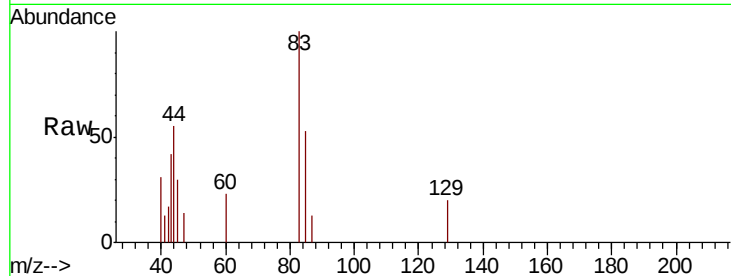
Tot Ion: 83 Resp: 2189

Ion Ratio Lower Upper

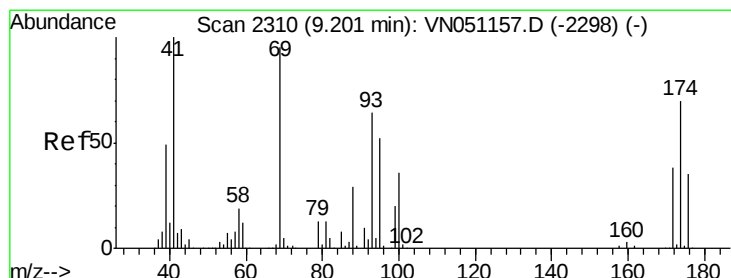
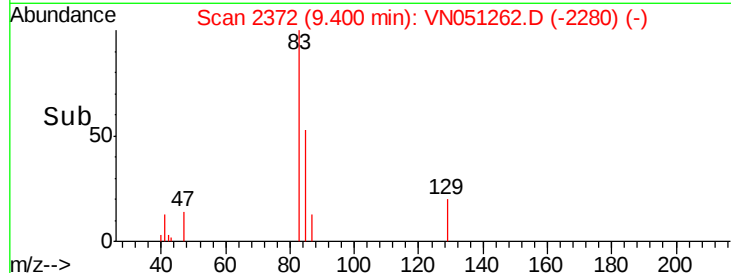
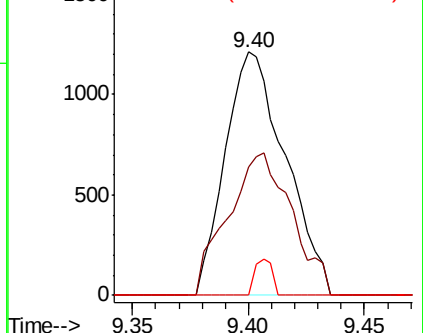
83 100

85 52.6 52.3 78.5

127 0.0 7.5 11.3#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 1.15 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

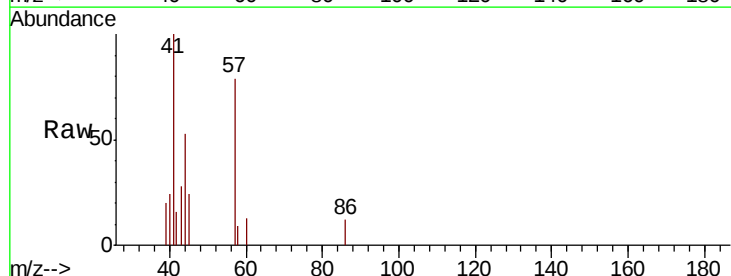
Tgt Ion: 41 Resp: 3855

Ion Ratio Lower Upper

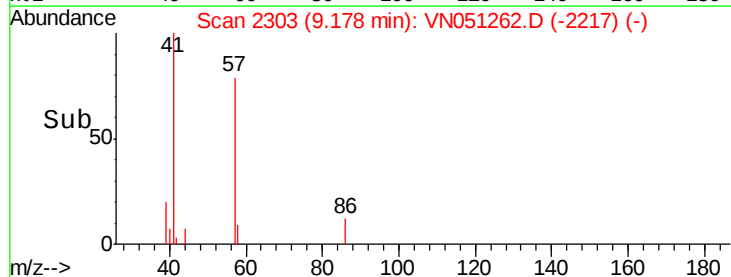
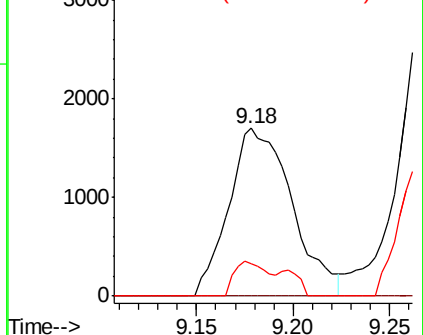
41 100

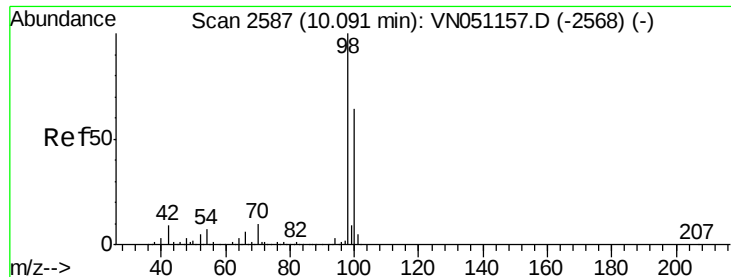
69 0.0 77.7 116.5#

39 11.1 41.6 62.4#



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





#50

Toluene-d8

Concen: 45.62 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

Instrument :

MSVOA_N

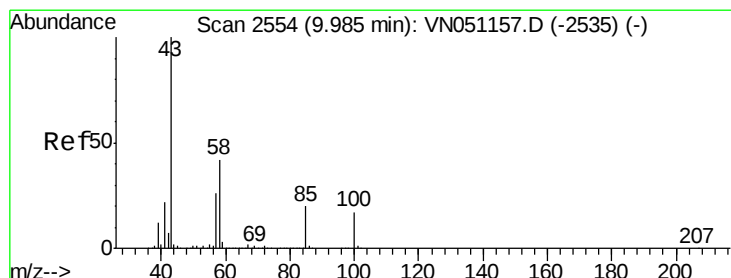
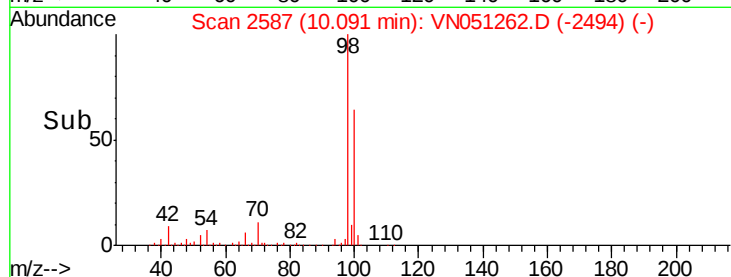
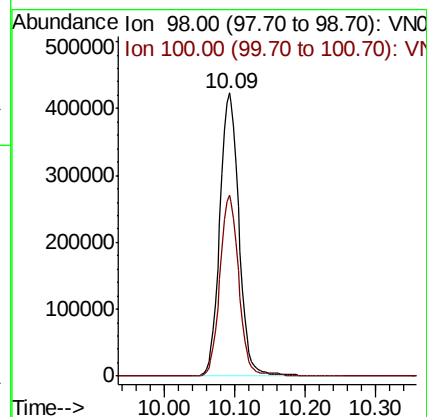
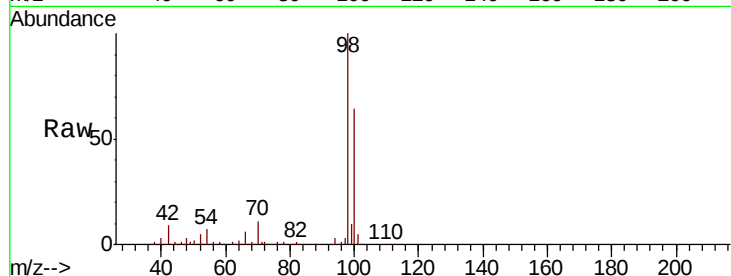
ClientSampleId :

Tot Ion: 98 Resp: 798397

Ion Ratio Lower Upper

98 100

100 62.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.01 min

Lab File: VN051262.D

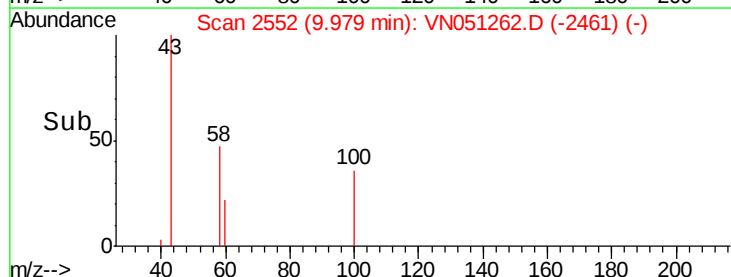
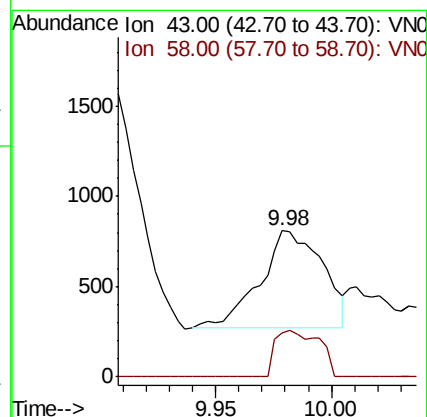
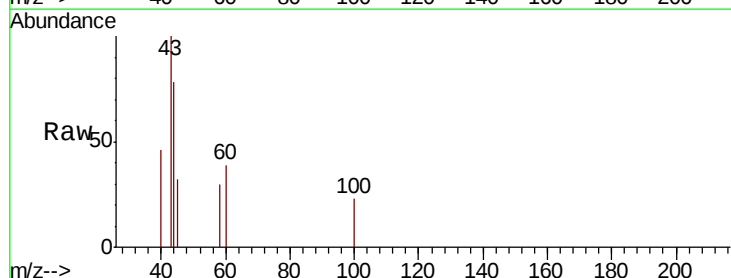
Acq: 16 Sep 2018 8:16

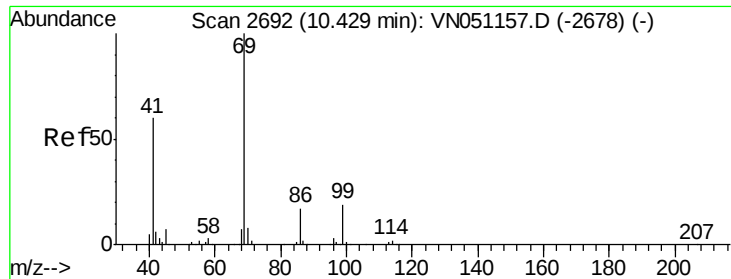
Tgt Ion: 43 Resp: 1006

Ion Ratio Lower Upper

43 100

58 33.8 33.5 50.3





#56

Ethyl methacrylate

Concen: 2.46 ug/l

RT: 10.28 min Scan# 2647

Delta R.T. -0.14 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

Instrument :

MSVOA_N

ClientSampled :

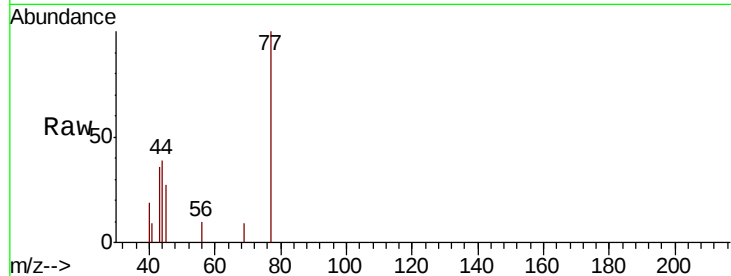
Tot Ion: 69 Resp: 62

Ion Ratio Lower Upper

69 100

41 101.6 47.8 71.8#

39 0.0 23.0 34.4#

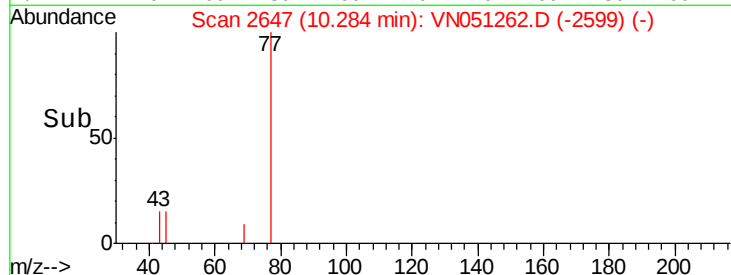


Abundance Ion 69.00 (68.70 to 69.70): VN051157.D (-2678) (-)

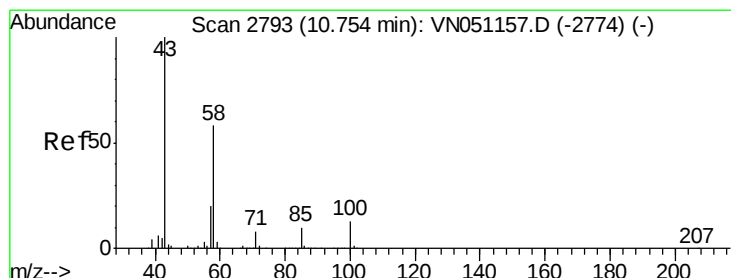
Ion 41.00 (40.70 to 41.70): VN051157.D (-2678) (-)

Ion 39.00 (38.70 to 39.70): VN051157.D (-2678) (-)

10.28



Time-->



#59

2-Hexanone

Concen: 1.38 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051262.D

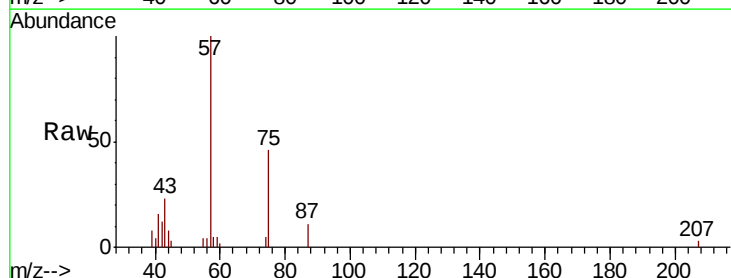
Acq: 16 Sep 2018 8:16

Tgt Ion: 43 Resp: 3558

Ion Ratio Lower Upper

43 100

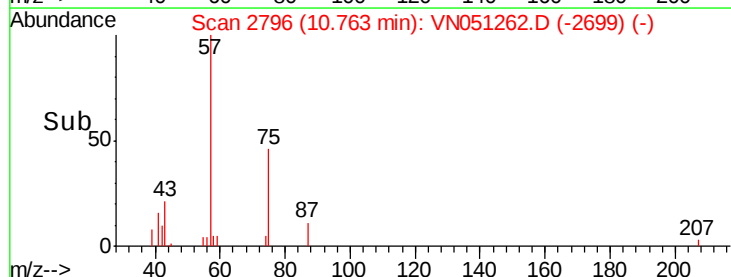
58 23.4 29.3 88.0#



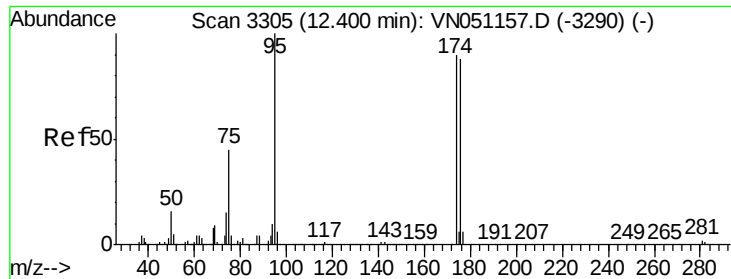
Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-2774) (-)

Ion 58.00 (57.70 to 58.70): VN051157.D (-2774) (-)

10.76



Time-->



#62

4-Bromofluorobenzene

Concen: 34.14 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

Instrument :

MSVOA_N

ClientSampled :

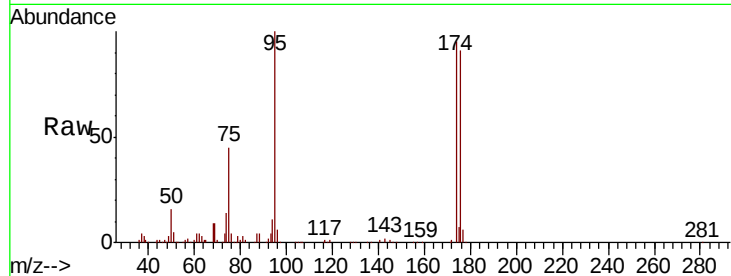
Tot Ion: 95 Resp: 197638

Ion Ratio Lower Upper

95 100

174 95.1 0.0 184.8

176 90.1 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VN051157.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051157.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051157.D (-3290) (-)

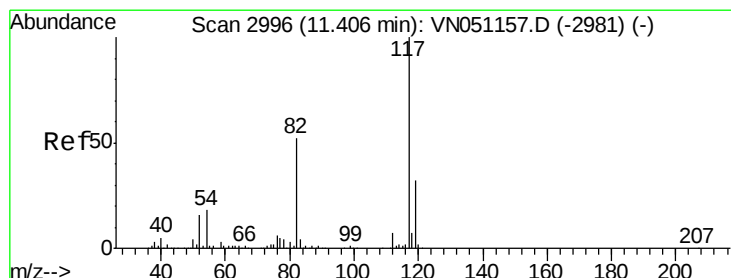
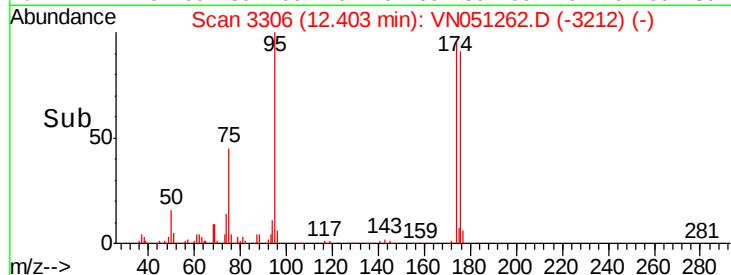
12.40

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

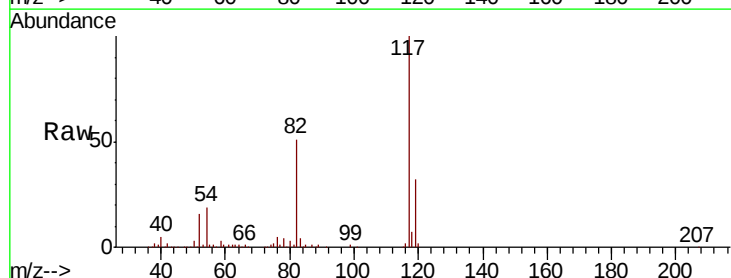
Tgt Ion: 117 Resp: 496274

Ion Ratio Lower Upper

117 100

82 51.4 41.8 62.6

119 32.5 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): VN051157.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051157.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051157.D (-2981) (-)

11.41

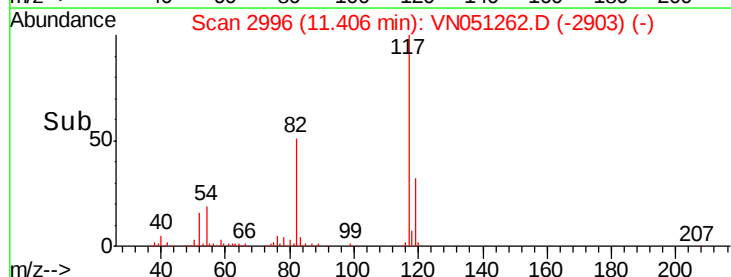
300000

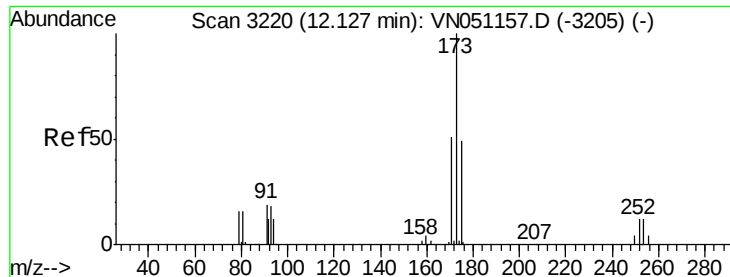
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.27 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

Instrument :

MSVOA_N

ClientSampled :

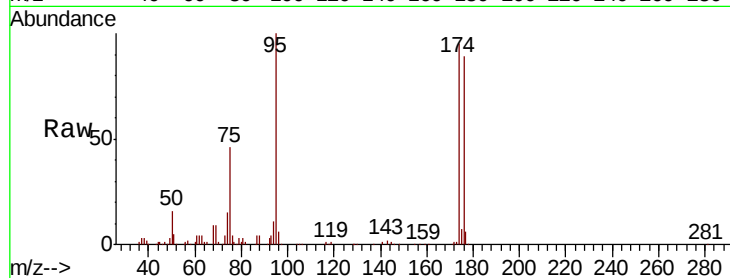
Tot Ion:173 Resp: 845

Ion Ratio Lower Upper

173 100

175 1350.2 24.3 72.9#

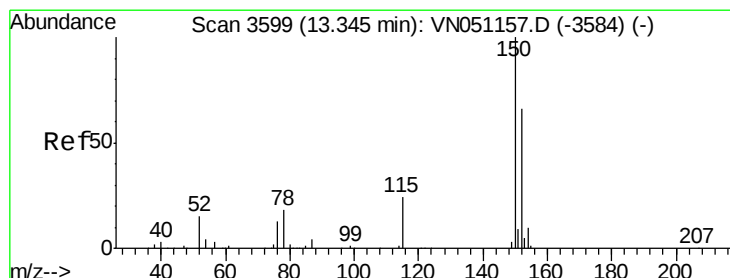
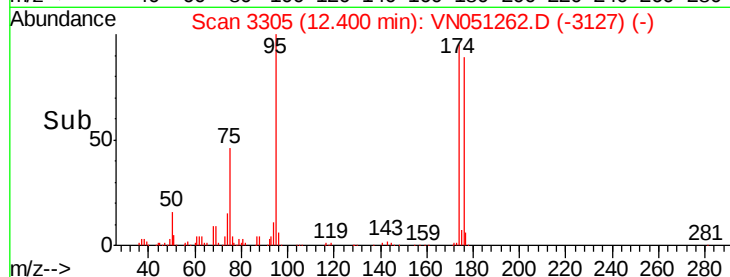
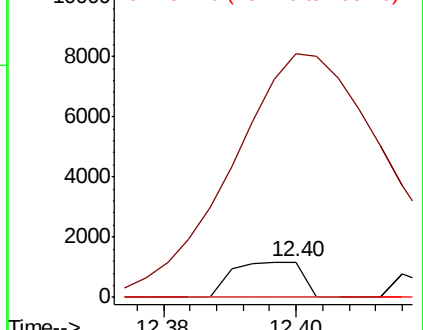
254 0.0 0.0 0.0



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: VN051262.D

Acq: 16 Sep 2018 8:16

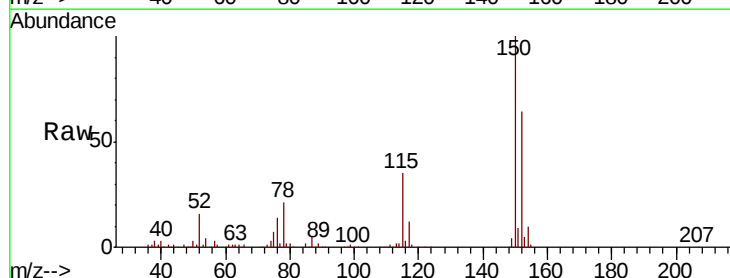
Tgt Ion:152 Resp: 141160

Ion Ratio Lower Upper

152 100

115 55.1 28.2 84.7

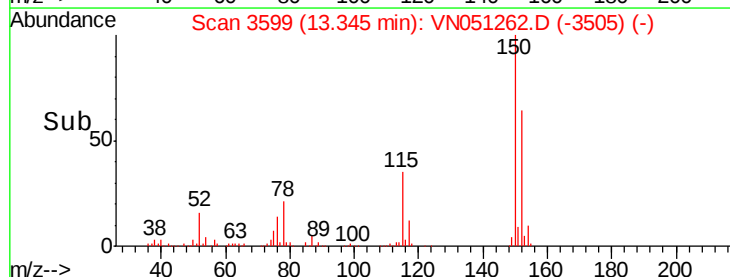
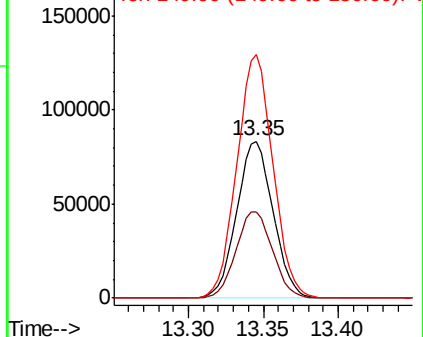
150 153.8 0.0 349.0

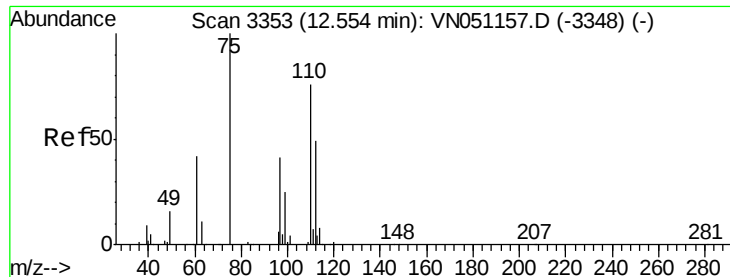


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 41.45 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

Instrument :

MSVOA_N

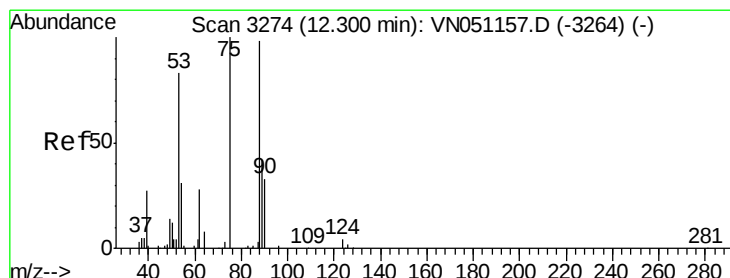
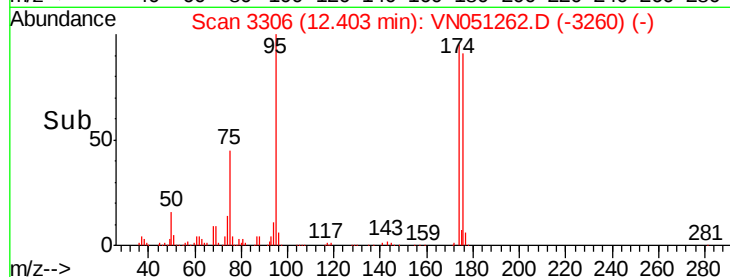
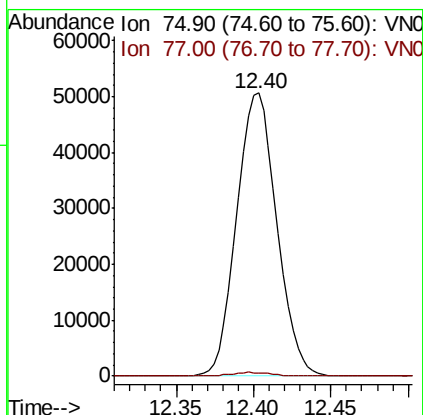
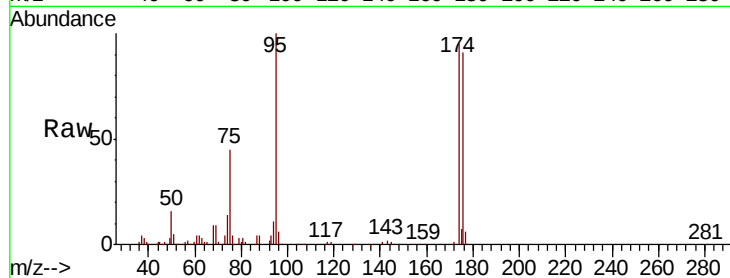
ClientSampled :

Tot Ion: 75 Resp: 91260

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 122.78 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051262.D

Acq: 16 Sep 2018 8:16

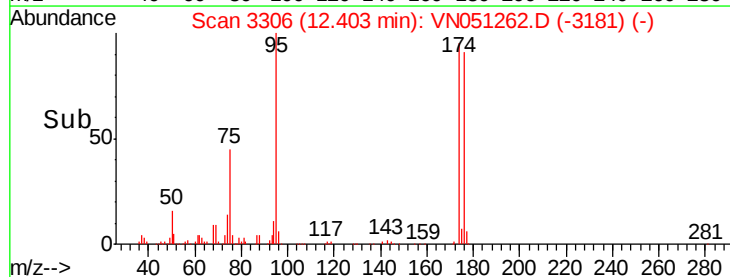
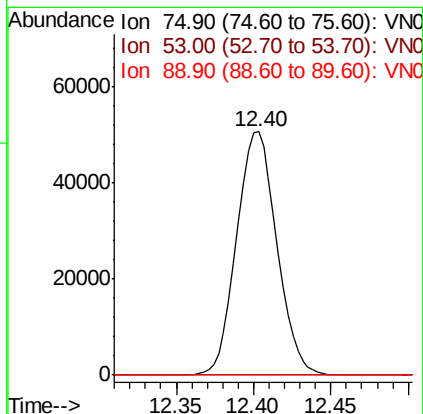
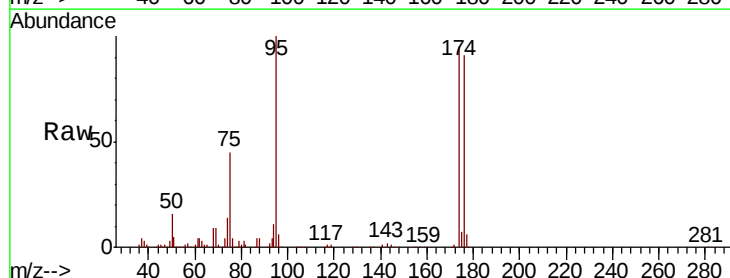
Tgt Ion: 75 Resp: 91260

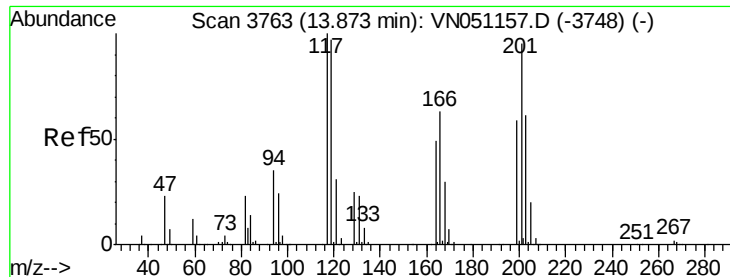
Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

89 0.0 36.0 54.0#

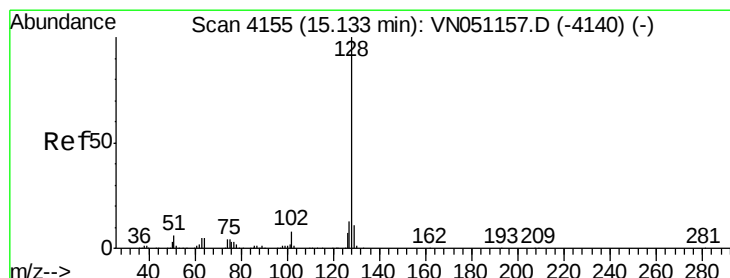
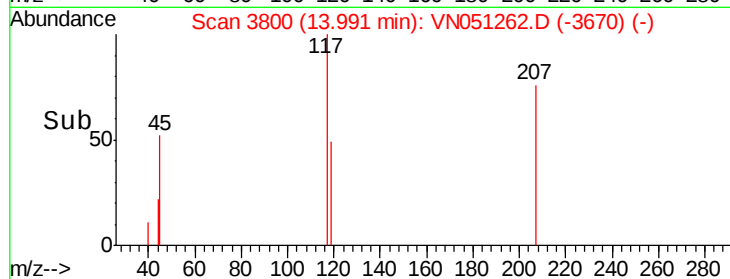
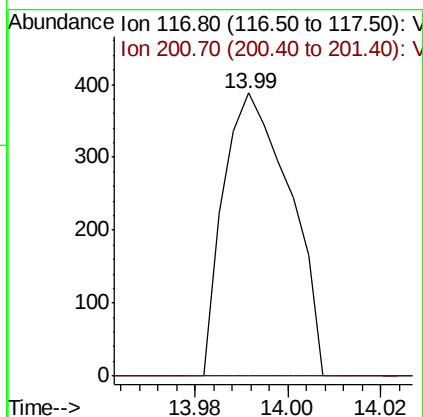
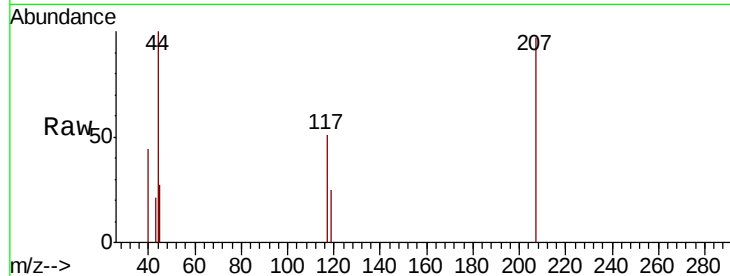




#90
Hexachloroethane
Concen: Below Cal
RT: 13.99 min Scan# 3800
Delta R.T. 0.12 min
Lab File: VN051262.D
Acq: 16 Sep 2018 8:16

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 385
Ion Ratio Lower Upper
117 100
201 0.0 47.3 142.0#



#95
Naphthalene
Concen: 5.79 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN051262.D
Acq: 16 Sep 2018 8:16

Tgt Ion:128 Resp: 2657
Ion Ratio Lower Upper
128 100
127 10.3 10.6 15.8#
129 8.8 8.6 12.8

