

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051256.D
 Acq On : 16 Sep 2018 5:49
 Operator : MD\SY
 Sample : J4773-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 04:28:06 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	413117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	645046	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	516191	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	152730	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	224381	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
35) Dibromofluoromethane	7.59	113	241409	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
50) Toluene-d8	10.09	98	823550	44.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.56%	
62) 4-Bromofluorobenzene	12.40	95	207028	34.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.06%	

Target Compounds

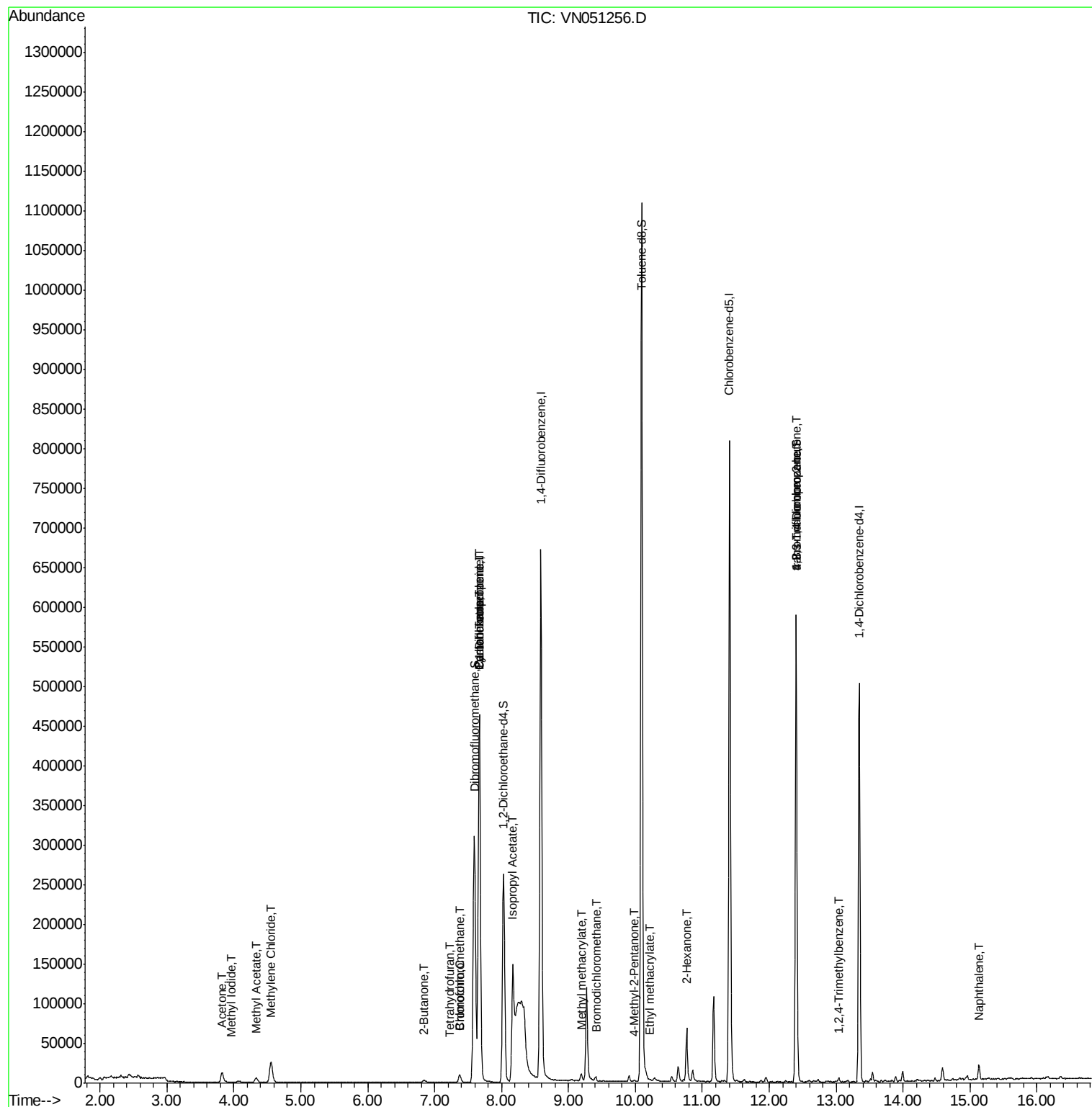
						Qvalue
3) Chloromethane	2.06	50	2021	Below Cal	#	88
5) Bromomethane	2.57	94	1708	Below Cal		85
10) Methyl Iodide	3.96	142	132	5.66	ug/l #	44
16) Acetone	3.82	43	21138	13.06	ug/l	89
18) Methyl Acetate	4.34	43	11524	3.13	ug/l	96
20) Methylene Chloride	4.55	84	21196	4.17	ug/l	93
25) 2-Butanone	6.84	43	4488	2.48	ug/l	89
28) Bromochloromethane	7.38	49	762	0.20	ug/l #	7
29) Tetrahydrofuran	7.22	42	404	0.36	ug/l #	43
30) Chloroform	7.38	83	11474	1.36	ug/l	88
31) Cyclohexane	7.66	56	6631	0.65	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	26389	3.73	ug/l #	48
38) Carbon Tetrachloride	7.67	117	35434	5.08	ug/l #	16
43) Isopropyl Acetate	8.17	43	185638	25.65	ug/l #	80
47) Bromodichloromethane	9.41	83	3222	0.47	ug/l	95
48) Methyl methacrylate	9.18	41	4581	1.30	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	928	0.23	ug/l	96
56) Ethyl methacrylate	10.22	69	1123	2.62	ug/l #	62
59) 2-Hexanone	10.76	43	10069	3.71	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	96666	40.54	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	96666	120.20	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	3414	0.34	ug/l	96
90) Hexachloroethane	13.89	117	682	Below Cal	#	2
95) Naphthalene	15.13	128	16497	7.91	ug/l #	95

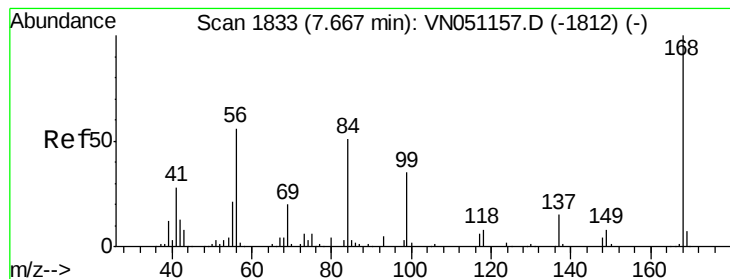
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091518\
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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: VN051256.D

Acq: 16 Sep 2018 5:49

Instrument :

MSVOA_N

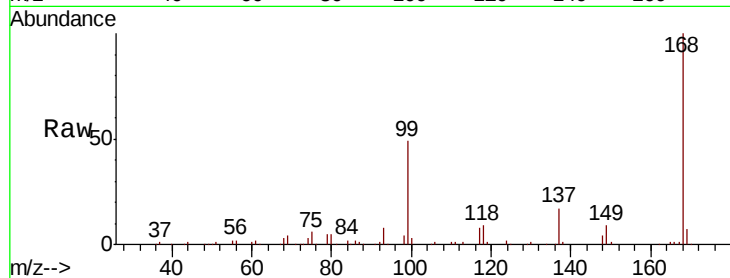
ClientSampleId :

Tot Ion:168 Resp: 413117

Ion Ratio Lower Upper

168 100

99 49.1 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

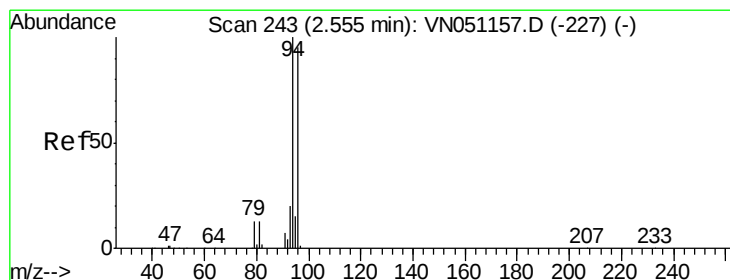
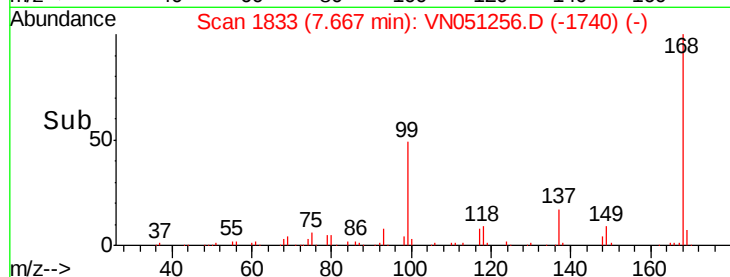
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051256.D

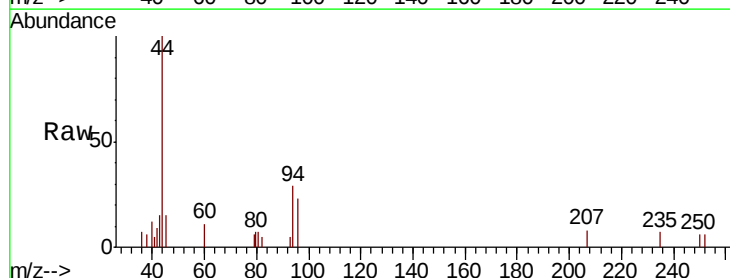
Acq: 16 Sep 2018 5:49

Tgt Ion: 94 Resp: 1708

Ion Ratio Lower Upper

94 100

96 80.0 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

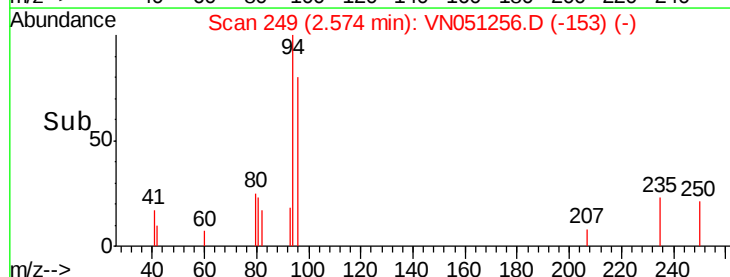
600

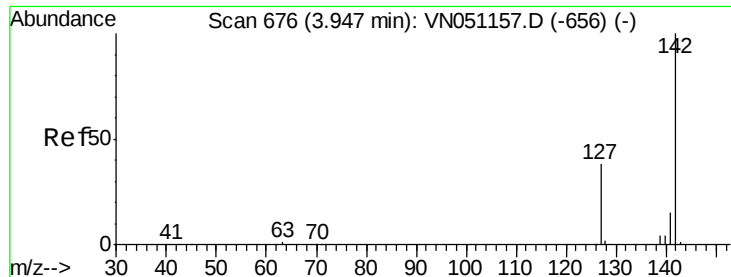
400

200

0

Time-->

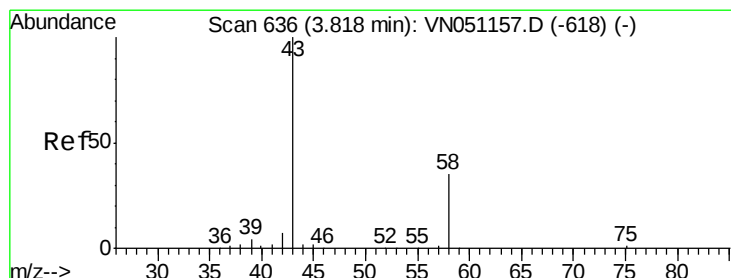
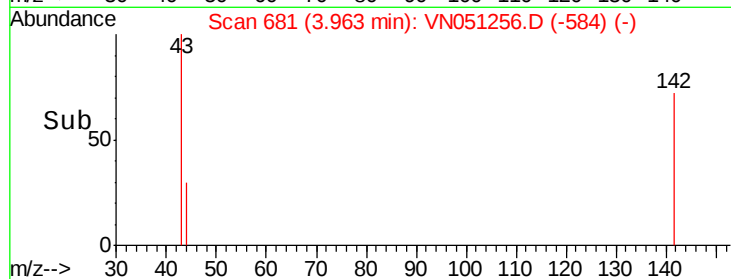
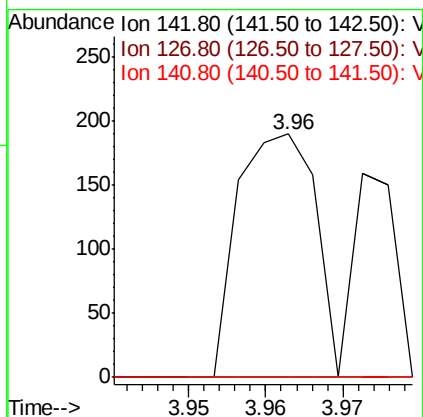
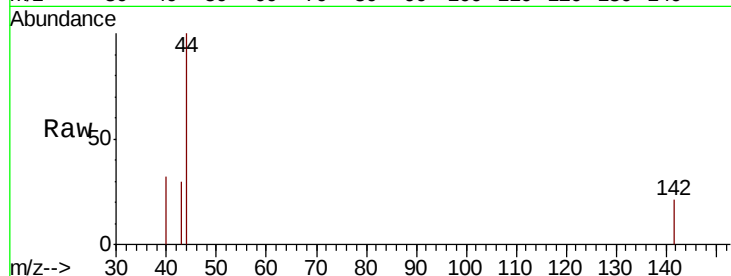




#10
Methvl Iodide
Concen: 5.66 ug/l
RT: 3.96 min Scan# 681
Delta R.T. 0.01 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

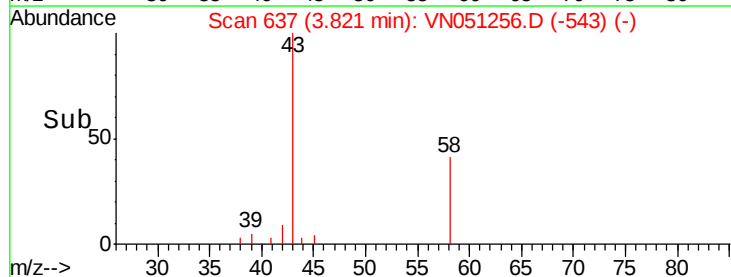
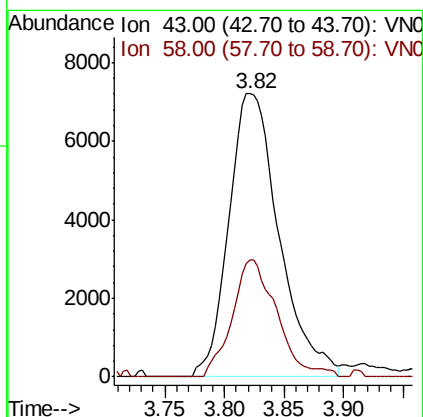
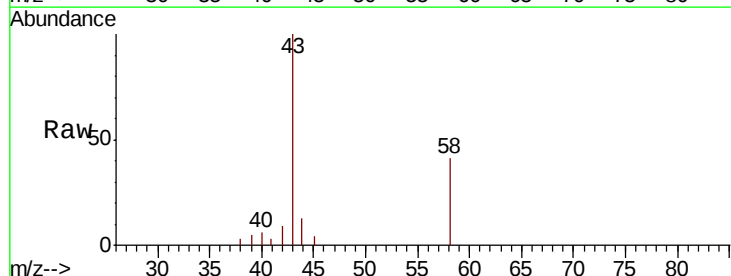
Instrument :
MSVOA_N
ClientSampleId :

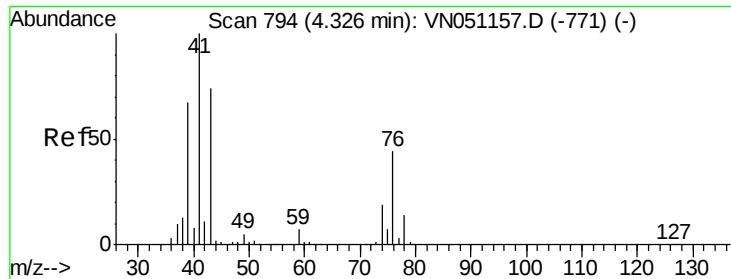
Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	31.0	46.4#
141	0.0	11.3	16.9#



#16
Acetone
Concen: 13.06 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.2	27.8	41.6

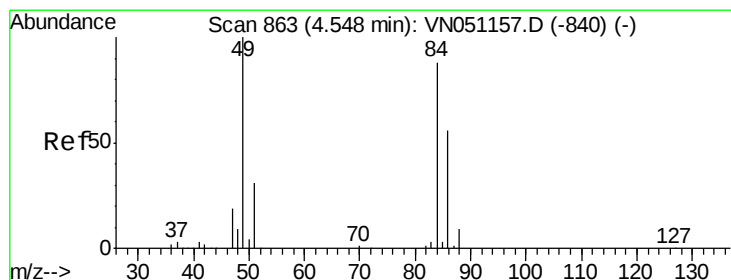
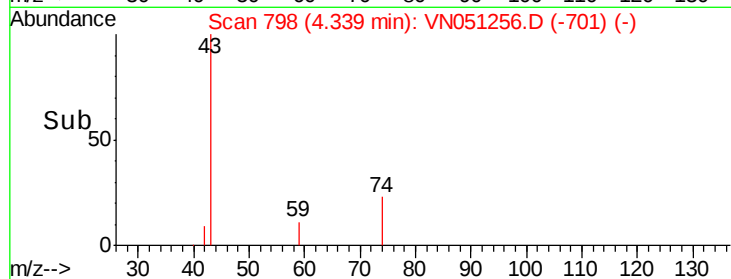
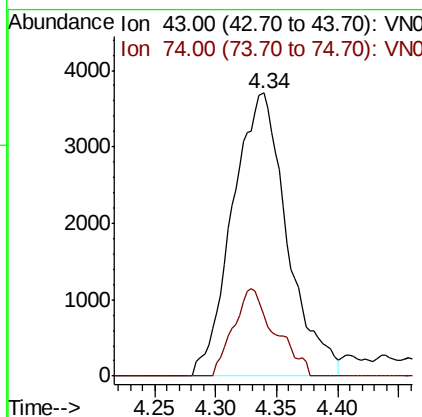
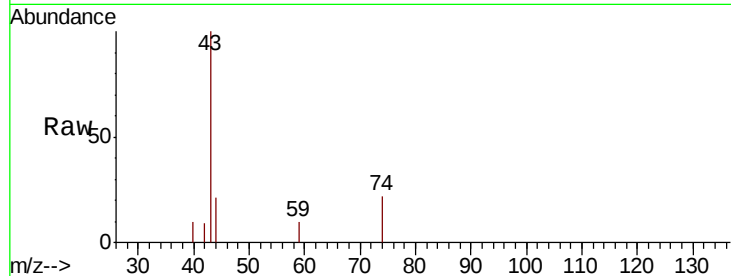




#18
Methyl Acetate
Concen: 3.13 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

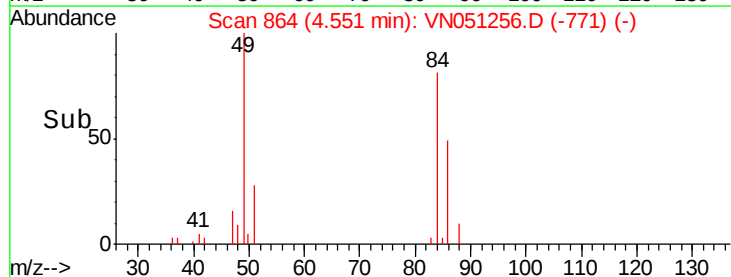
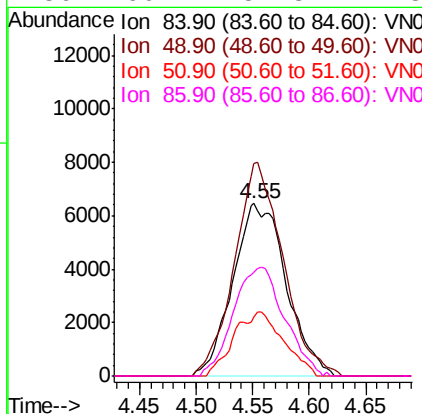
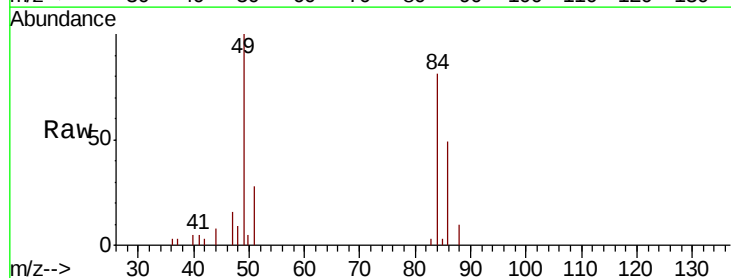
Instrument :
MSVOA_N
ClientSampleId :

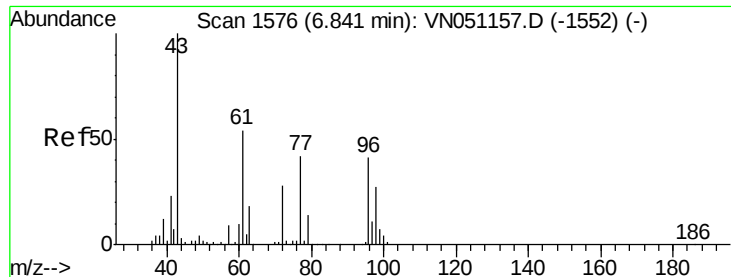
Tot Ion: 43 Resp: 11524
Ion Ratio Lower Upper
43 100
74 23.7 20.7 31.1



#20
Methylene Chloride
Concen: 4.17 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Tgt Ion: 84 Resp: 21196
Ion Ratio Lower Upper
84 100
49 123.4 90.2 135.2
51 34.0 28.4 42.6
86 60.4 51.8 77.8





#25

2-Butanone

Concen: 2.48 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051256.D

Acq: 16 Sep 2018 5:49

Instrument :

MSVOA_N

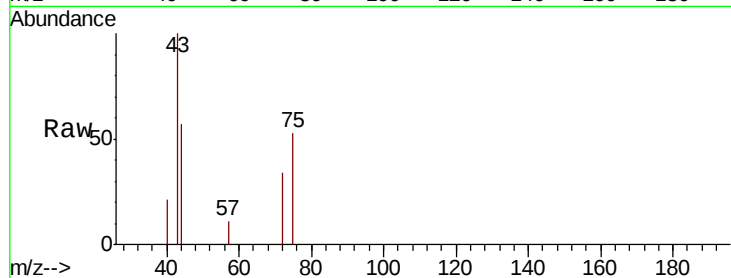
ClientSampled :

Tot Ion: 43 Resp: 4488

Ion Ratio Lower Upper

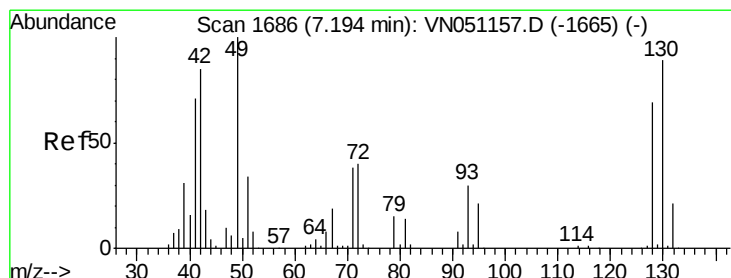
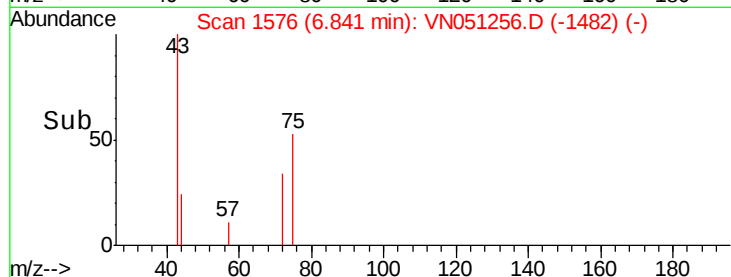
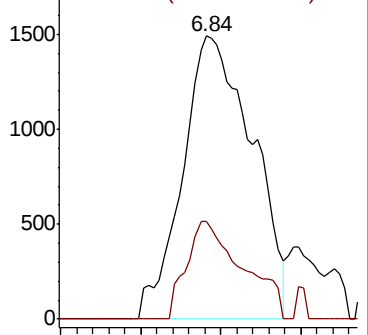
43 100

72 34.4 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-1552) (-)

Ion 72.00 (71.70 to 72.70): VN051157.D (-1552) (-)



#28

Bromochloromethane

Concen: 0.20 ug/l

RT: 7.38 min Scan# 1744

Delta R.T. 0.18 min

Lab File: VN051256.D

Acq: 16 Sep 2018 5:49

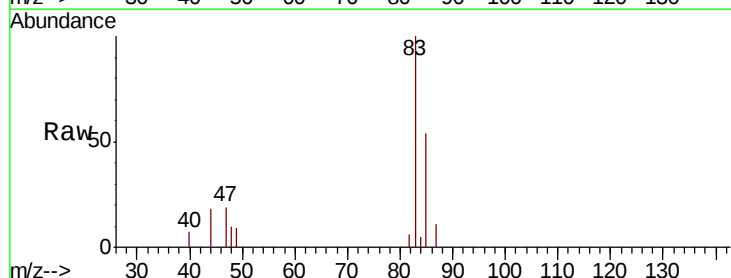
Tgt Ion: 49 Resp: 762

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

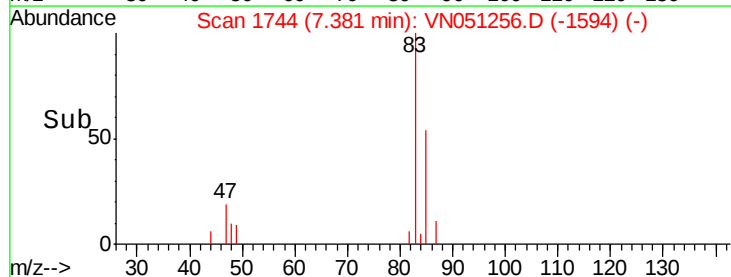
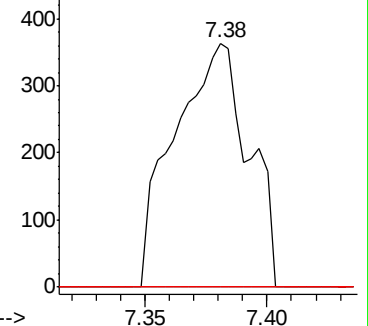
130 0.0 70.7 106.1#

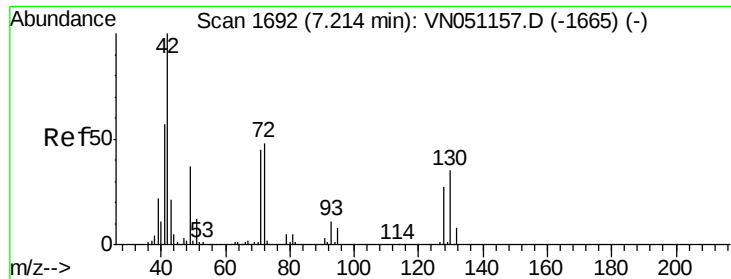


Abundance Ion 48.90 (48.60 to 49.60): VN051157.D (-1665) (-)

Ion 128.80 (128.50 to 129.50): VN051157.D (-1665) (-)

Ion 129.80 (129.50 to 130.50): VN051157.D (-1665) (-)

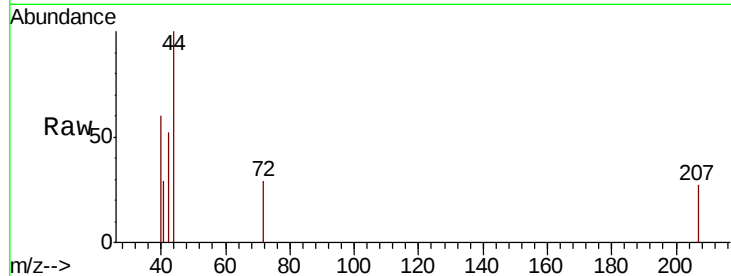




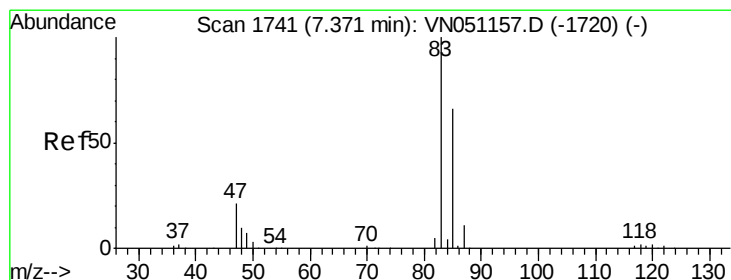
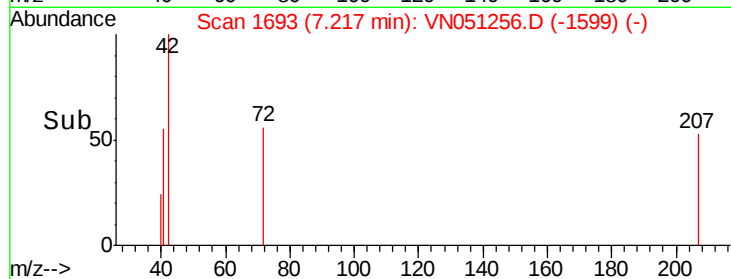
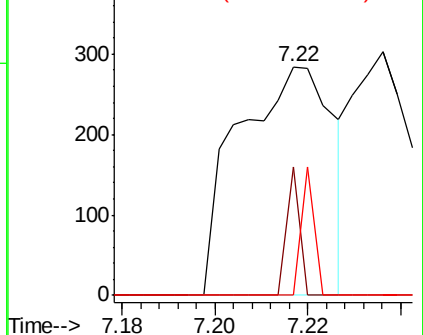
#29
Tetrahydrofuran
Concen: 0.36 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 404
Ion Ratio Lower Upper
42 100
72 7.7 37.4 56.0#
71 7.7 34.7 52.1#

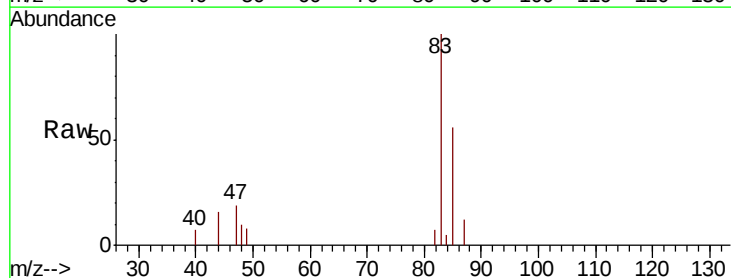


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

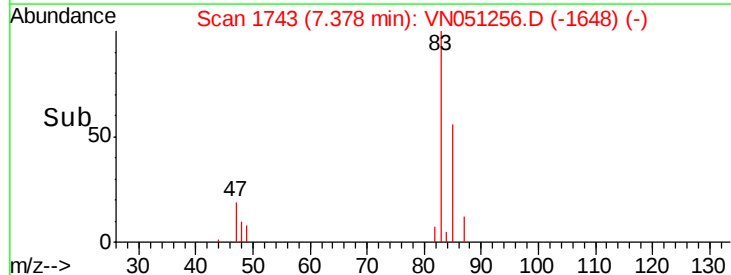
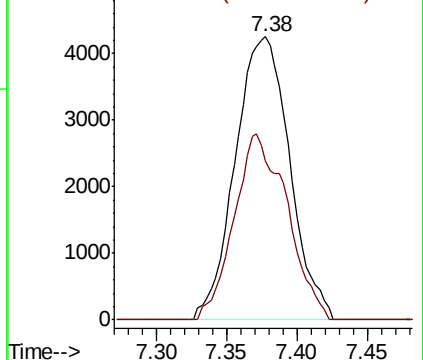


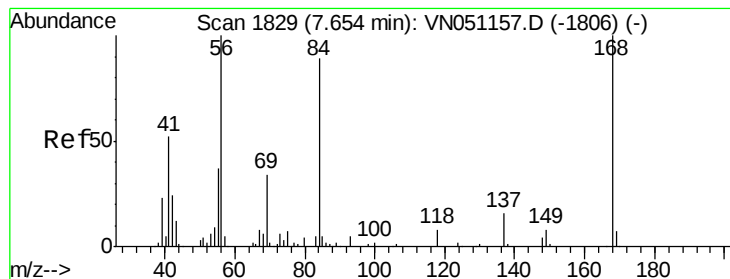
#30
Chloroform
Concen: 1.36 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Tgt Ion: 83 Resp: 11474
Ion Ratio Lower Upper
83 100
85 56.4 52.6 79.0



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





#31

Cyclohexane

Concen: 0.65 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051256.D

Acq: 16 Sep 2018 5:49

Instrument :

MSVOA_N

ClientSampleId :

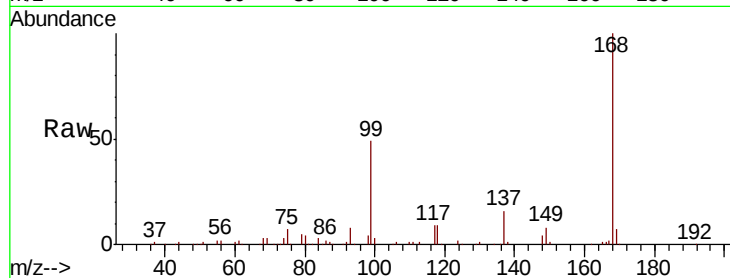
Tot Ion: 56 Resp: 6631

Ion Ratio Lower Upper

56 100

69 222.6 26.3 39.5#

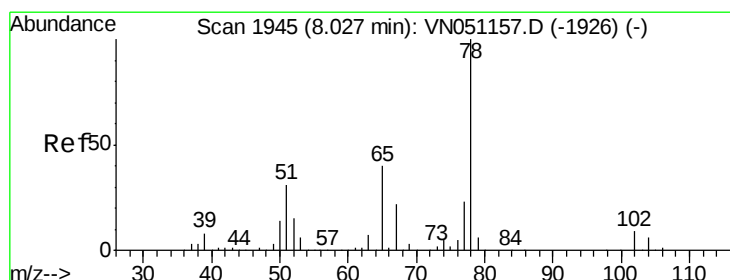
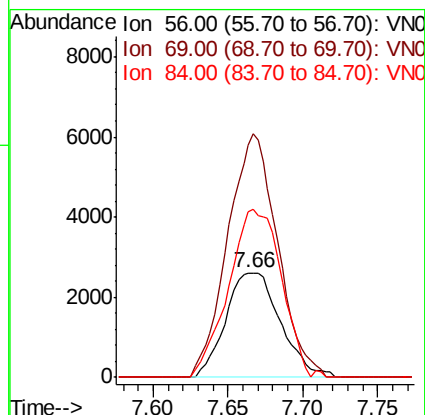
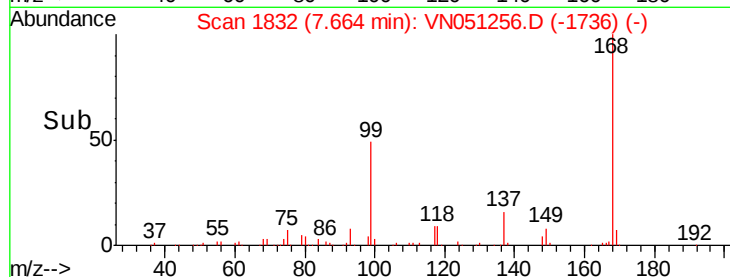
84 159.2 69.4 104.0#



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: 48.81 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051256.D

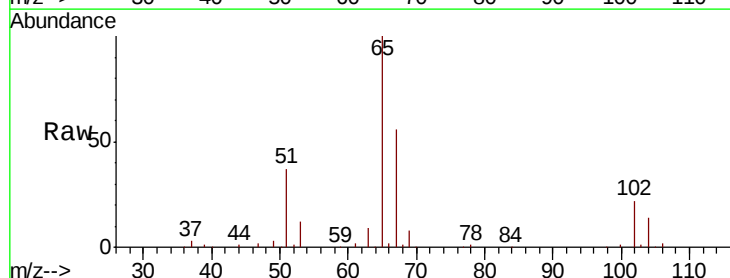
Acq: 16 Sep 2018 5:49

Tgt Ion: 65 Resp: 224381

Ion Ratio Lower Upper

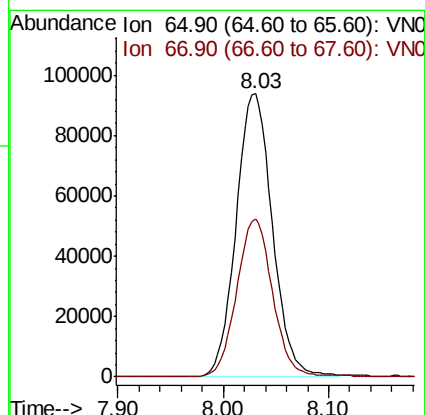
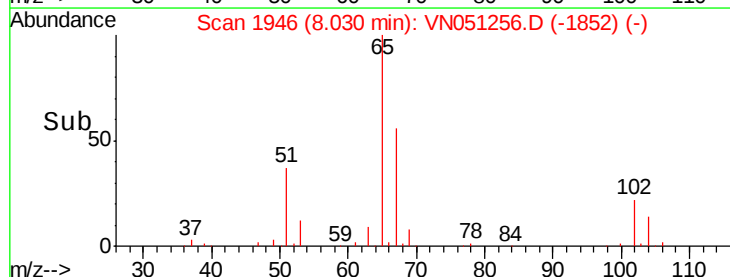
65 100

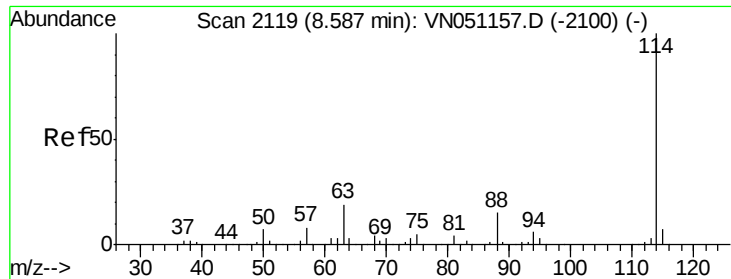
67 55.0 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

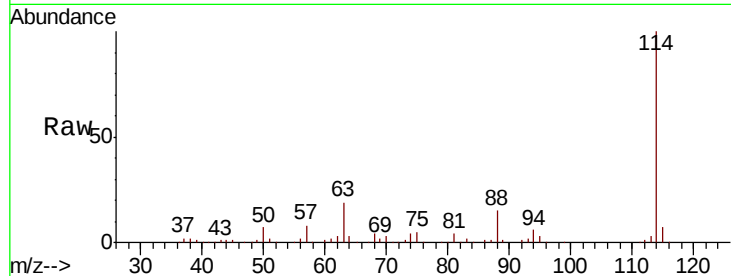




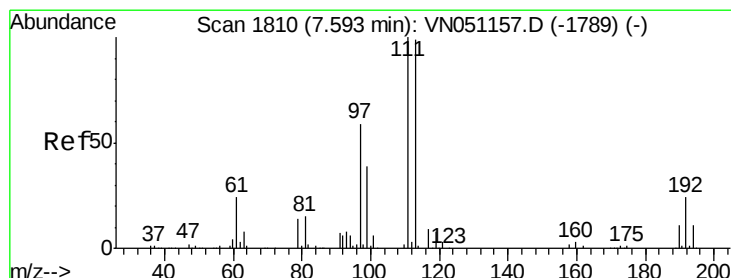
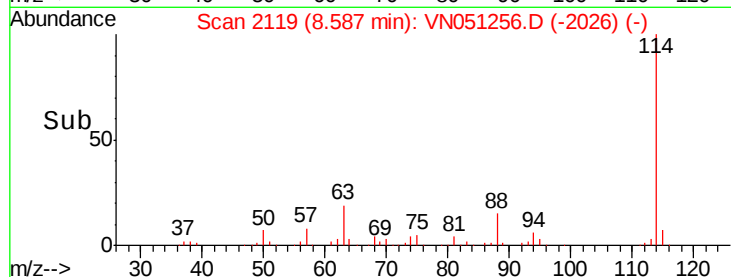
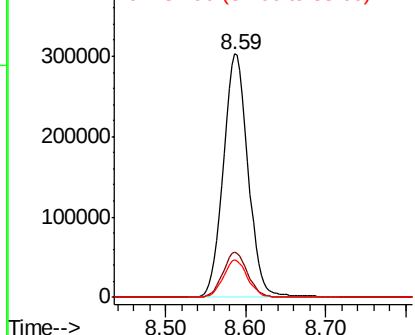
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	37.8
88	15.2	0.0	30.8

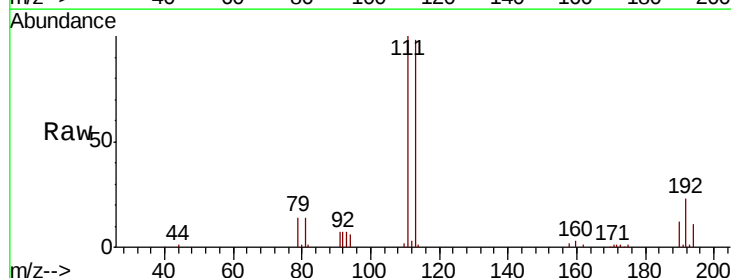


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

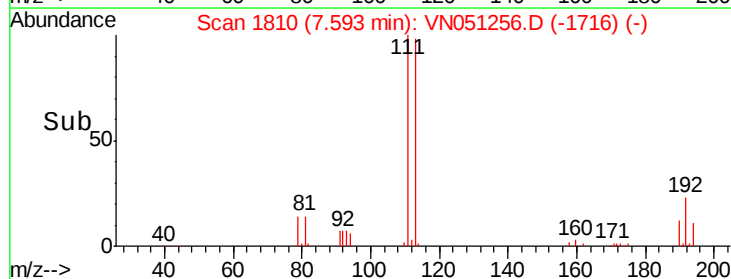
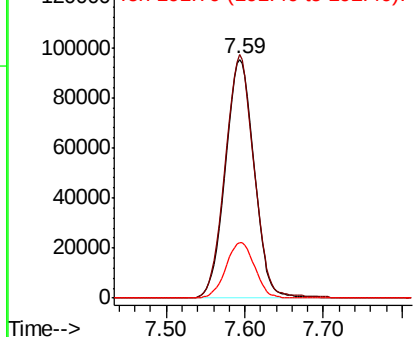


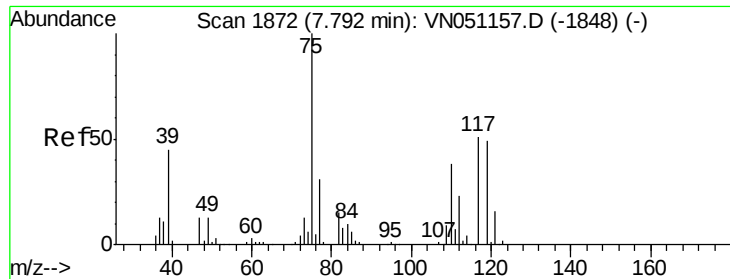
#35
Dibromofluoromethane
Concen: 49.81 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.9	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

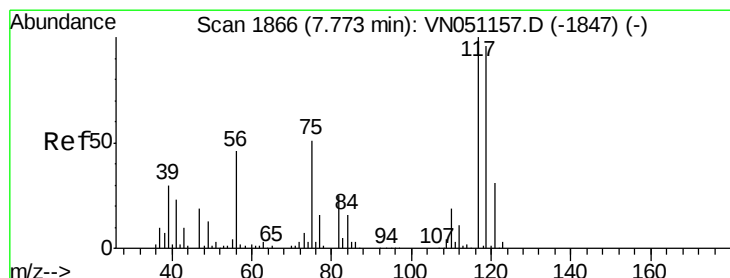
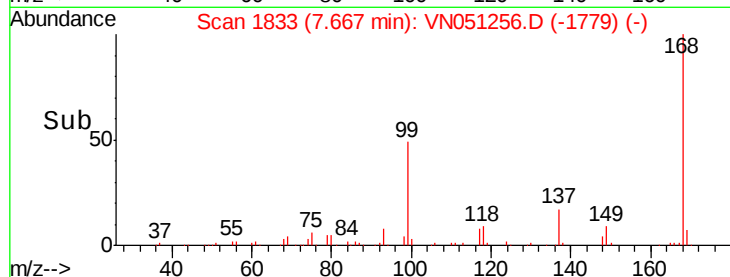
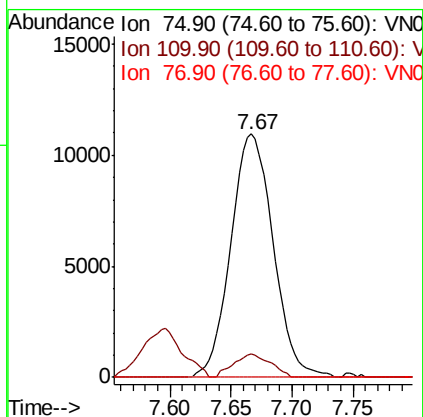
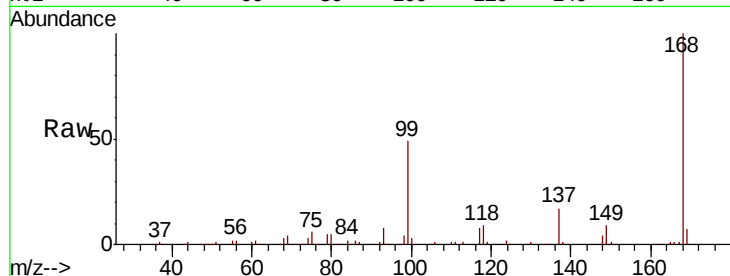




#36
 1,1-Dichloropropene
 Concen: 3.73 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051256.D
 Acq: 16 Sep 2018 5:49

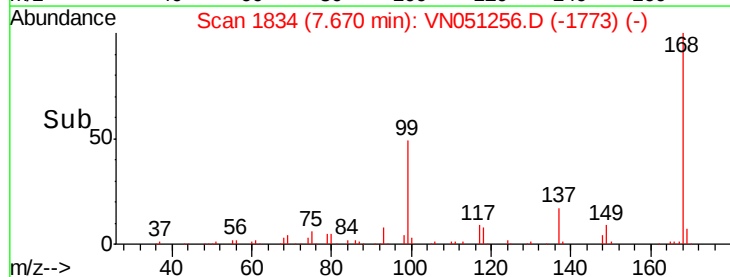
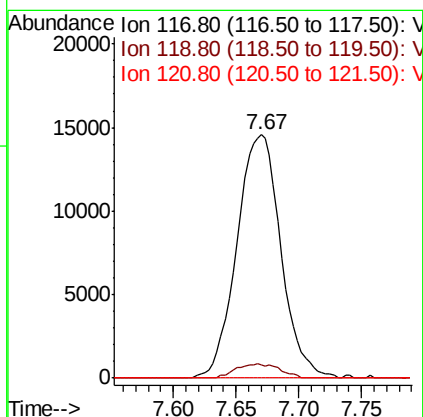
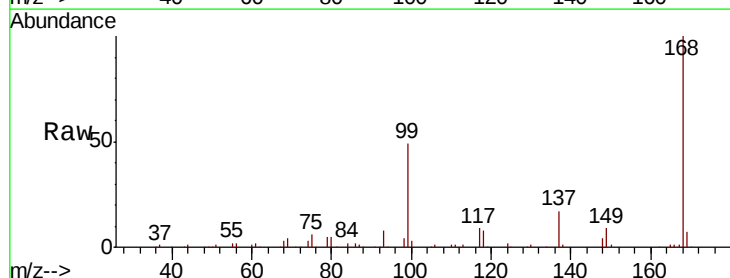
Instrument :
 MSVOA_N
 ClientSampled :

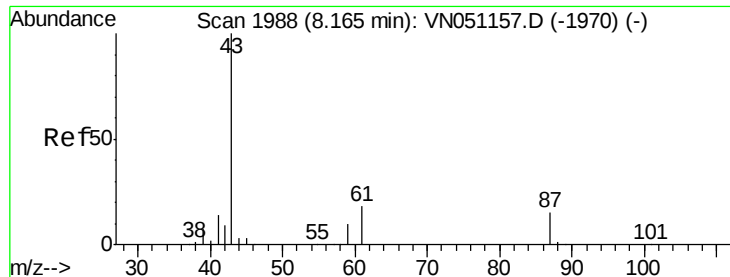
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.6	55.8#
77	0.0	25.2	37.8#



#38
 Carbon Tetrachloride
 Concen: 5.08 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.10 min
 Lab File: VN051256.D
 Acq: 16 Sep 2018 5:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.8	115.2#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 25.65 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051256.D

Acq: 16 Sep 2018 5:49

Instrument :

MSVOA_N

ClientSampled :

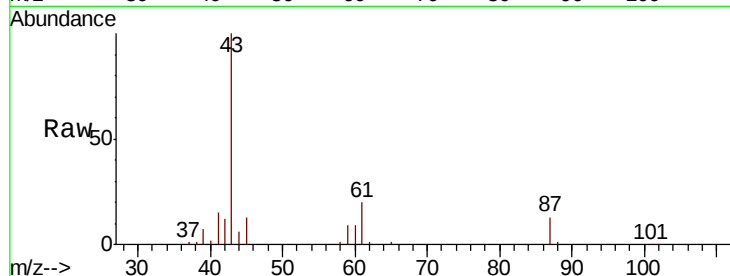
Tot Ion: 43 Resp: 185638

Ion Ratio Lower Upper

43 100

61 17.2 25.0 37.6#

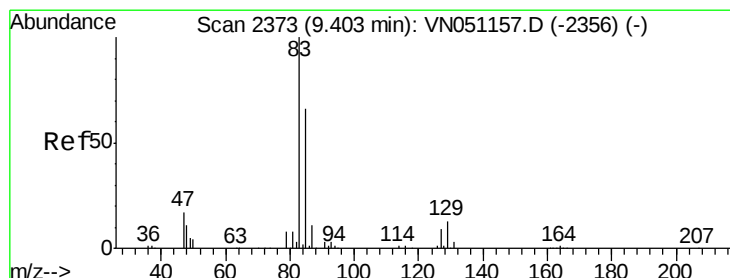
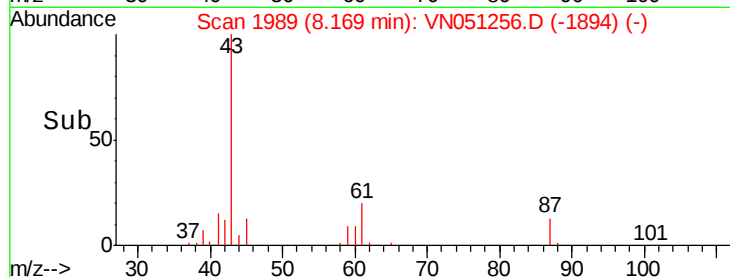
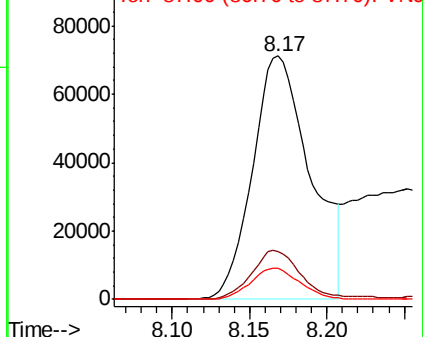
87 11.1 11.8 17.8#



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) (-)



#47

Bromodichloromethane

Concen: 0.47 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN051256.D

Acq: 16 Sep 2018 5:49

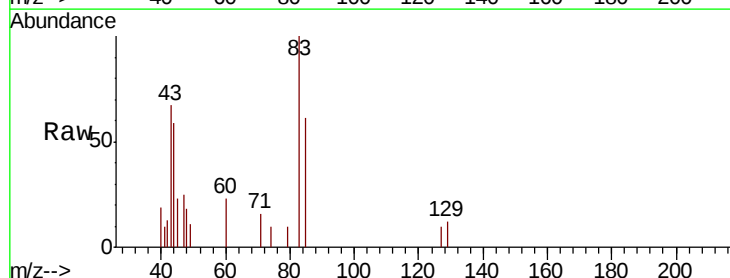
Tgt Ion: 83 Resp: 3222

Ion Ratio Lower Upper

83 100

85 61.0 52.3 78.5

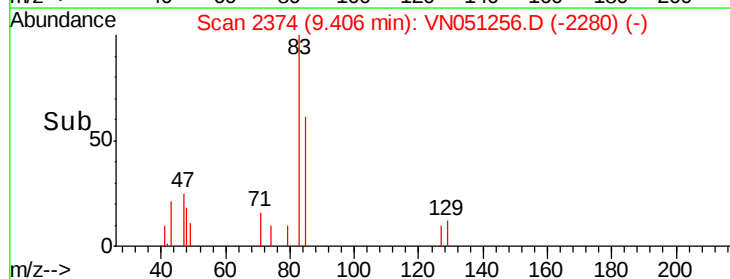
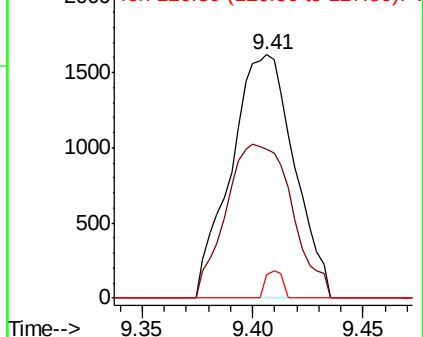
127 9.6 7.5 11.3

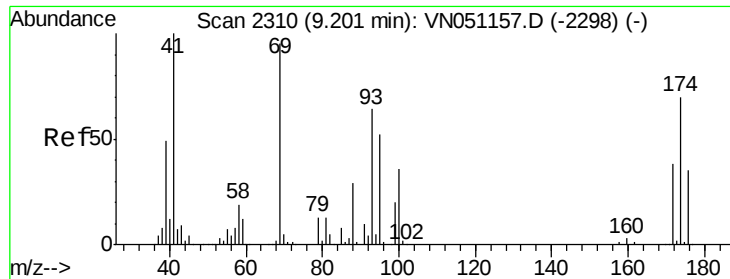


Abundance Ion 82.90 (82.60 to 83.60): VN051157.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN051157.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN051157.D (-2356) (-)

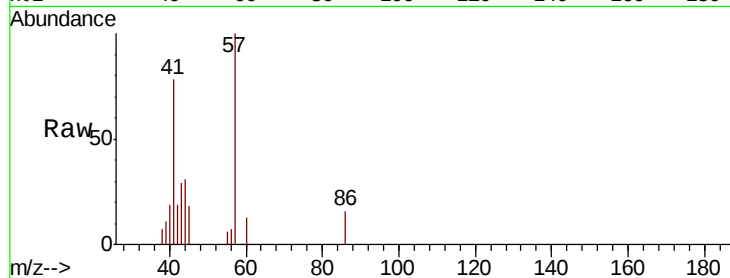




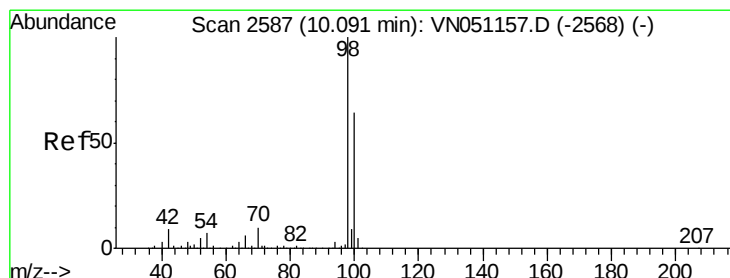
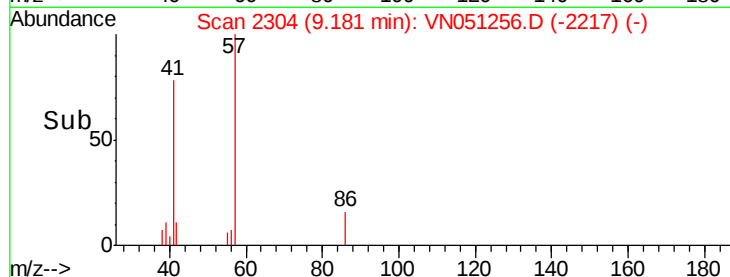
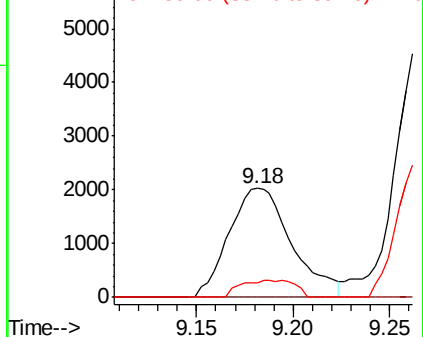
#48
Methyl methacrylate
Concen: 1.30 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 4581
Ion Ratio Lower Upper
41 100
69 0.0 77.7 116.5#
39 13.3 41.6 62.4#

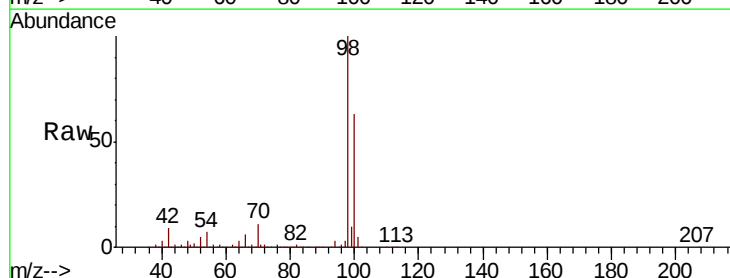


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

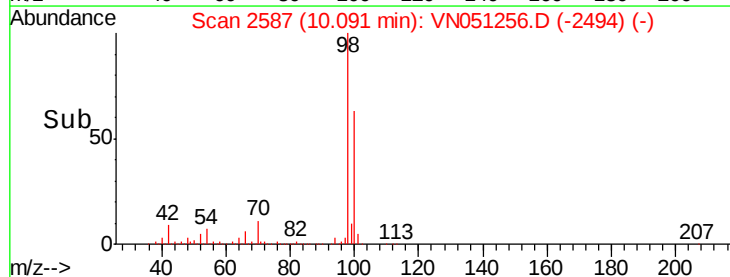
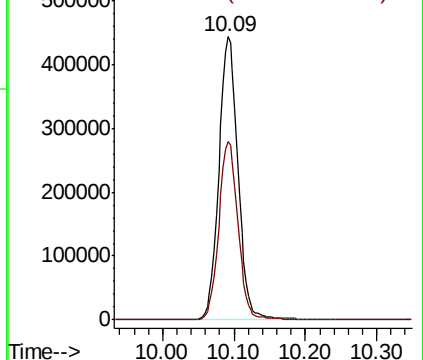


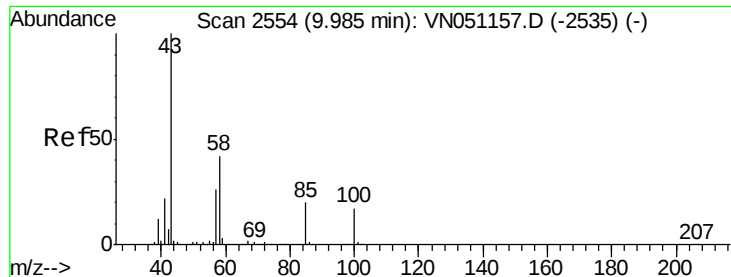
#50
Toluene-d8
Concen: 44.78 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Tgt Ion: 98 Resp: 823550
Ion Ratio Lower Upper
98 100
100 63.2 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

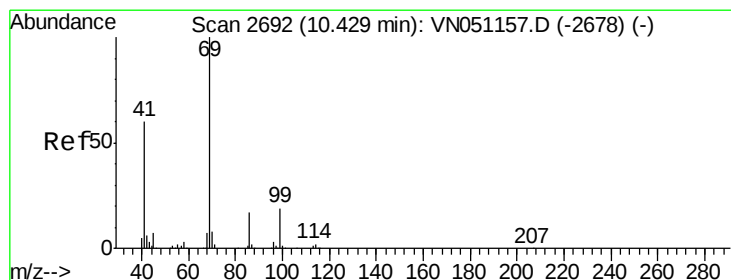
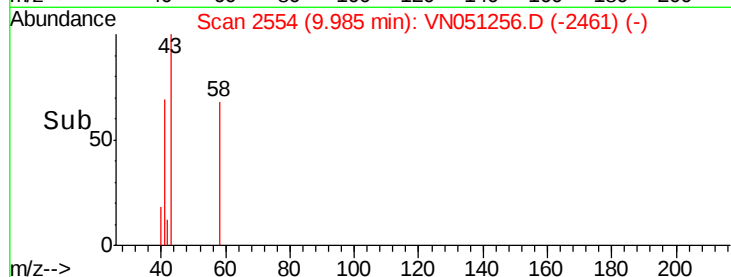
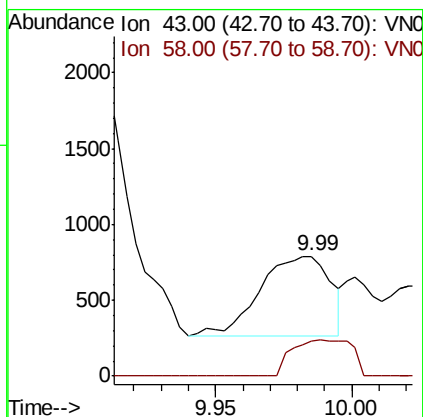
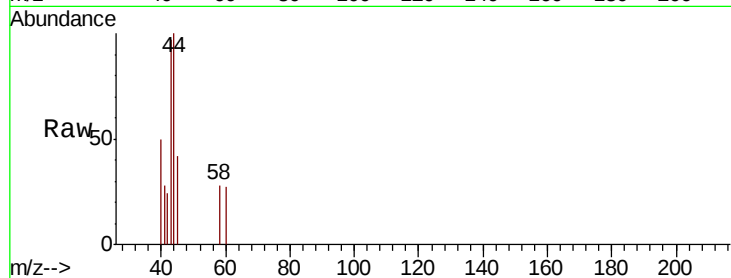




#51
4-Methyl-2-Pentanone
Concen: 0.23 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

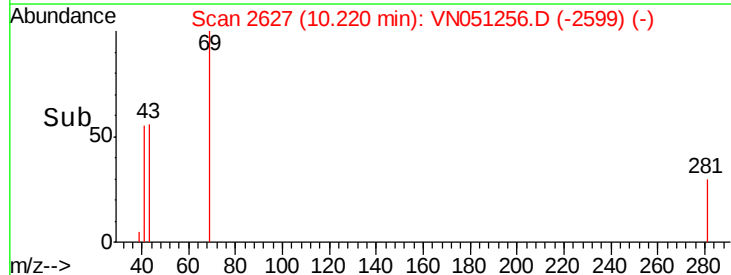
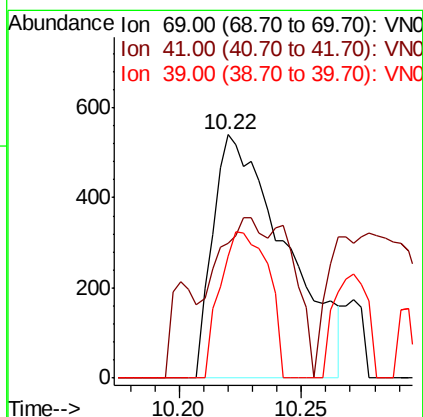
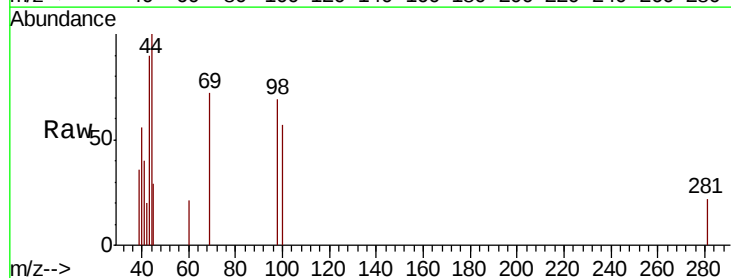
Instrument :
MSVOA_N
ClientSampled :

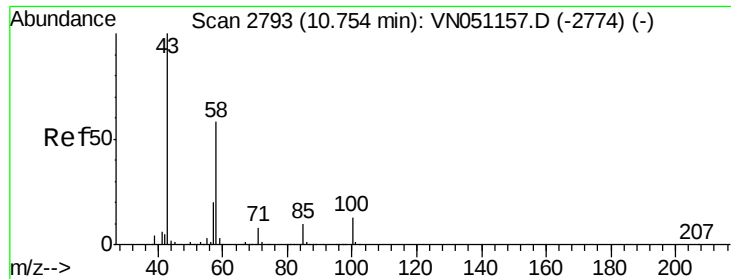
Tot Ion: 43 Resp: 928
Ion Ratio Lower Upper
43 100
58 39.5 33.5 50.3



#56
Ethyl methacrylate
Concen: 2.62 ug/l
RT: 10.22 min Scan# 2627
Delta R.T. -0.21 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Tgt Ion: 69 Resp: 1123
Ion Ratio Lower Upper
69 100
41 24.7 47.8 71.8#
39 39.5 23.0 34.4#

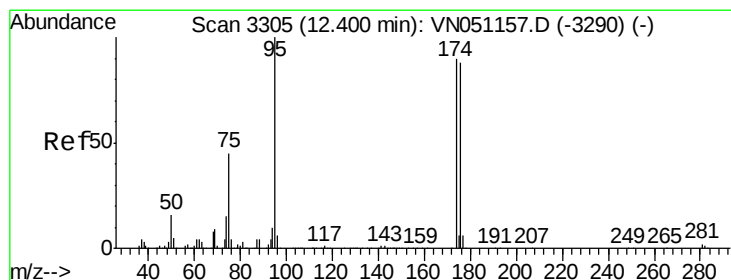
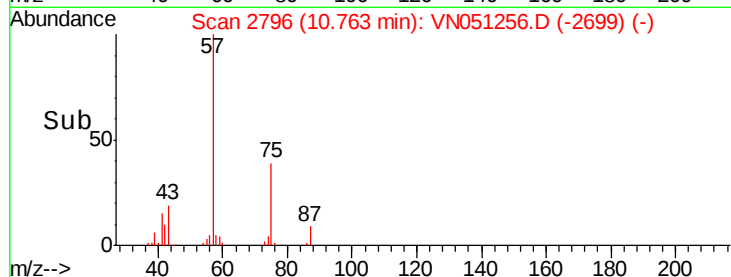
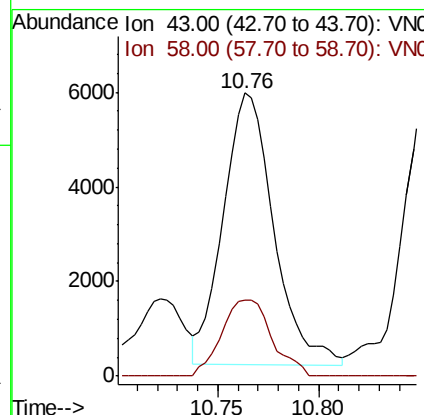
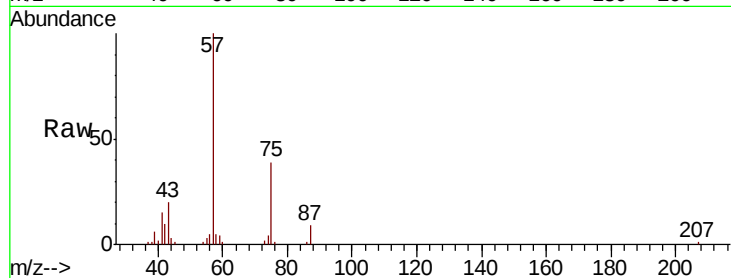




#59
2-Hexanone
Concen: 3.71 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

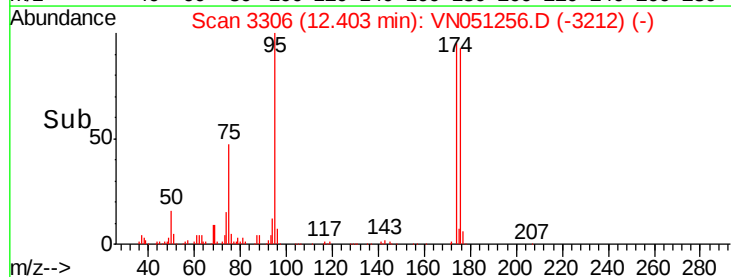
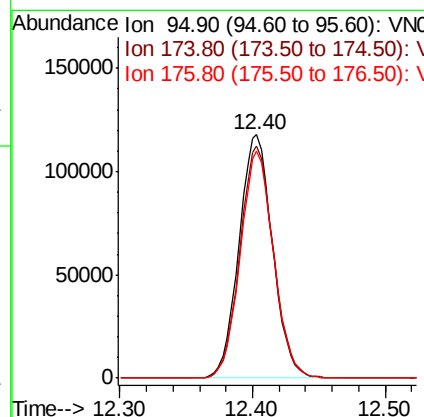
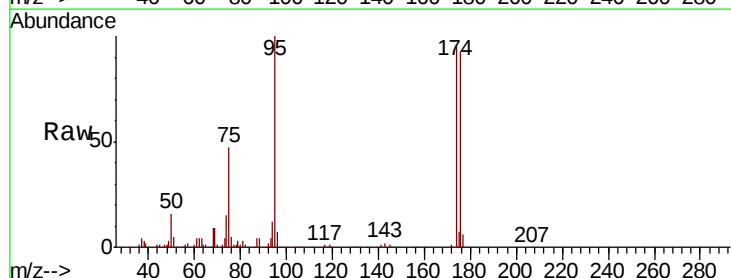
Instrument :
MSVOA_N
ClientSampleId :

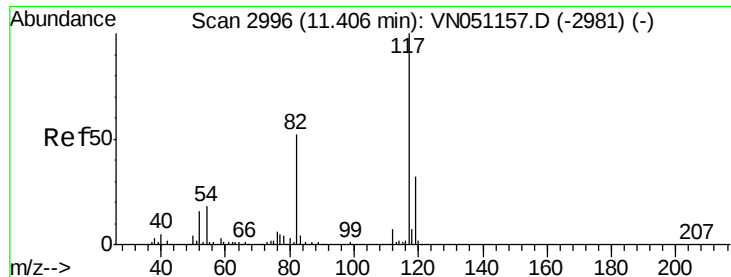
Tot Ion: 43 Resp: 10069
Ion Ratio Lower Upper
43 100
58 27.9 29.3 88.0#



#62
4-Bromofluorobenzene
Concen: 34.03 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Tgt Ion: 95 Resp: 207028
Ion Ratio Lower Upper
95 100
174 95.1 0.0 184.8
176 92.0 0.0 178.6

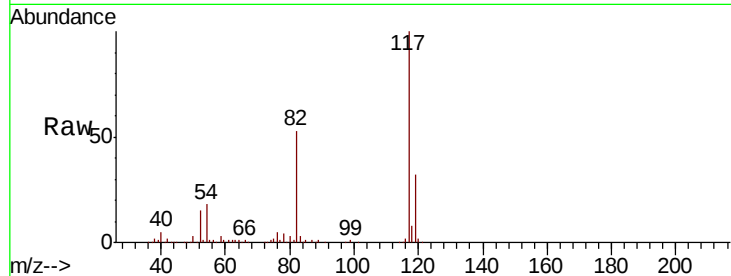




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051256.D
Acq: 16 Sep 2018 5:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	41.8	62.6
119	32.3	26.2	39.2

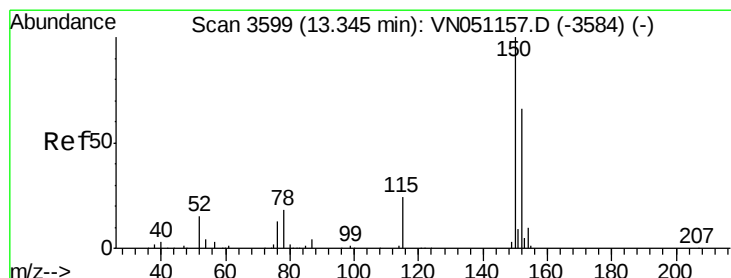
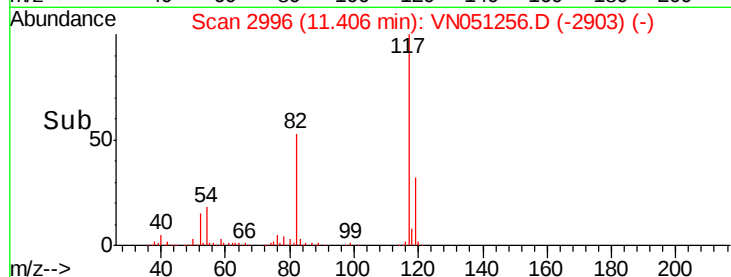
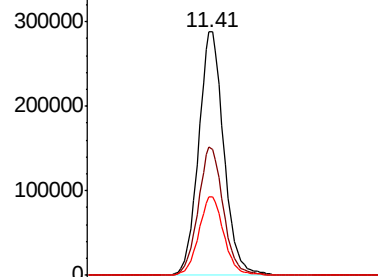


Abundance

Ion 116.90 (116.60 to 117.60): V

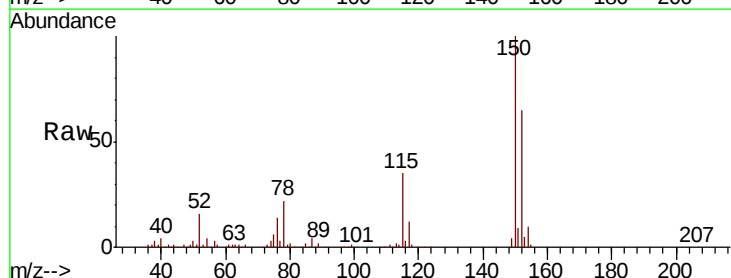
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): 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: VN051256.D
Acq: 16 Sep 2018 5:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	28.2	84.7
150	155.6	0.0	349.0

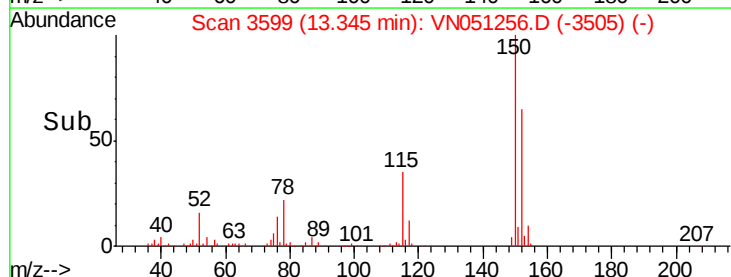
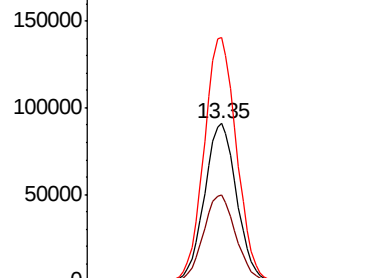


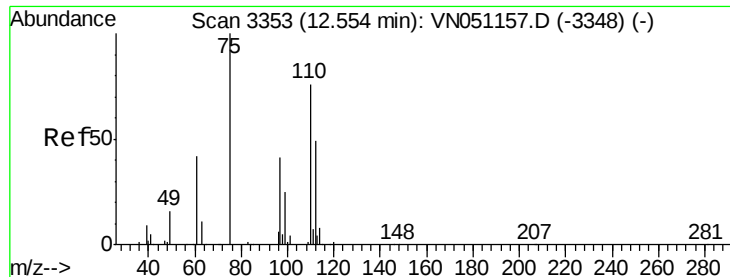
Abundance

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: 40.54 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051256.D

Acq: 16 Sep 2018 5:49

Instrument :

MSVOA_N

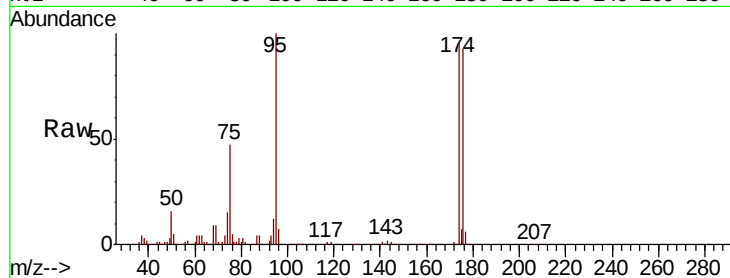
ClientSampled :

Tot Ion: 75 Resp: 96666

Ion Ratio Lower Upper

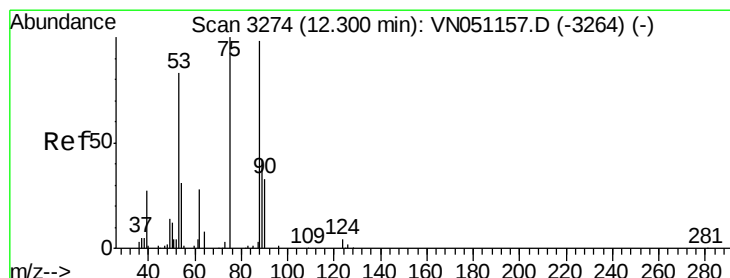
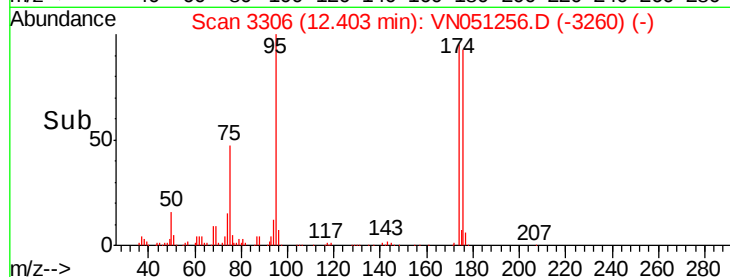
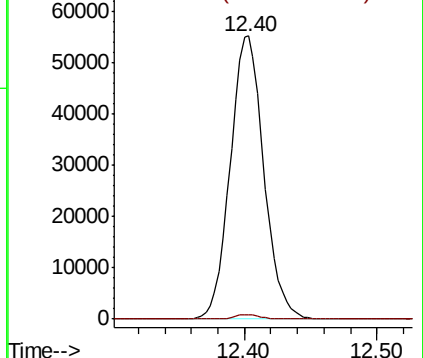
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 120.20 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051256.D

Acq: 16 Sep 2018 5:49

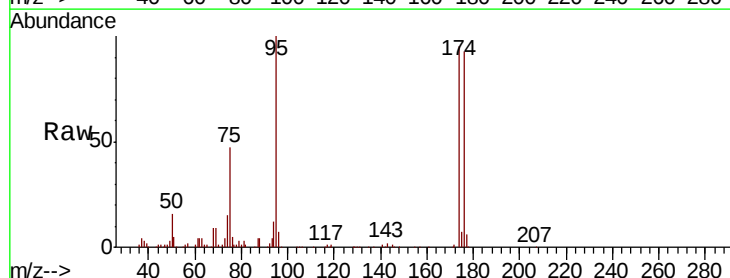
Tgt Ion: 75 Resp: 96666

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

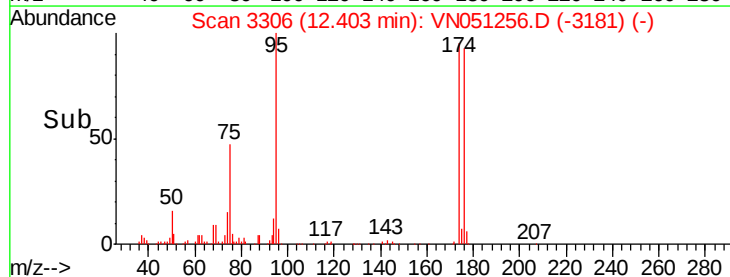
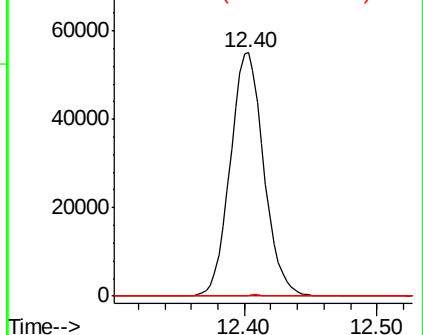
89 0.0 36.0 54.0#

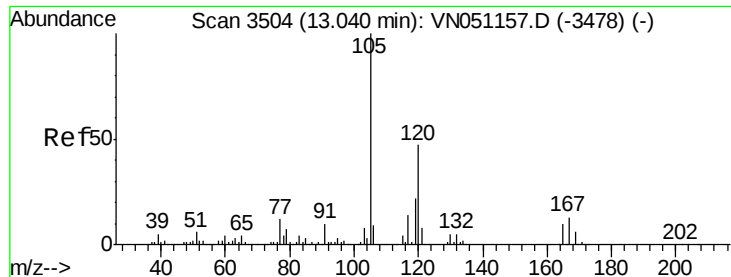


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

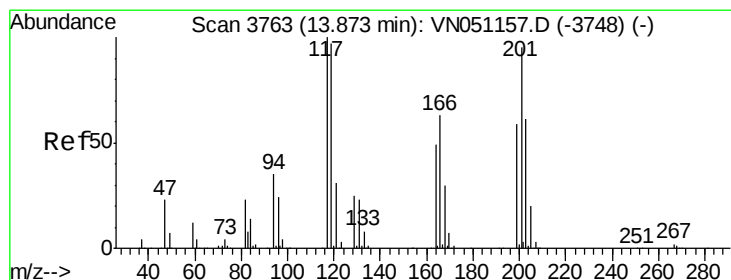
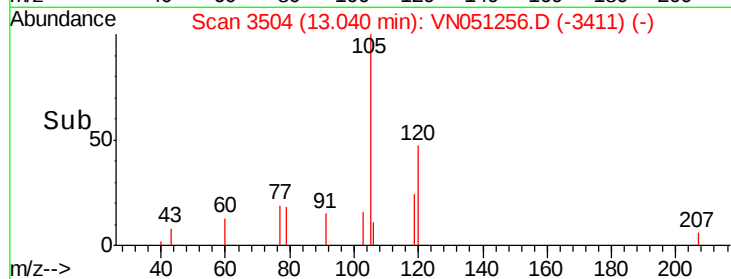
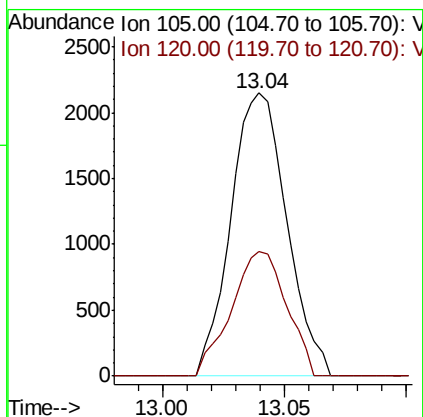
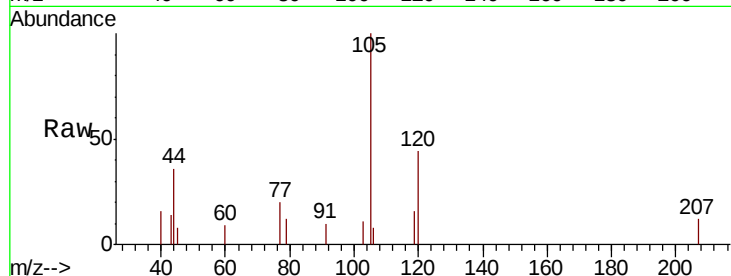




#84
 1,2,4-Trimethylbenzene
 Concen: 0.34 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051256.D
 Acq: 16 Sep 2018 5:49

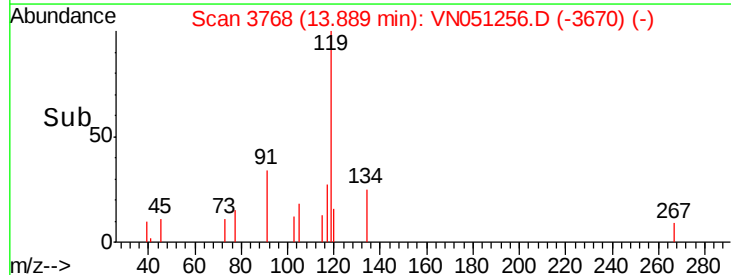
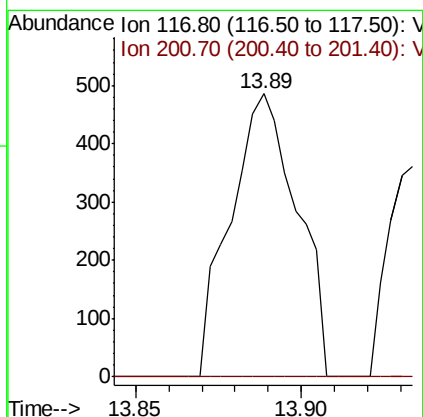
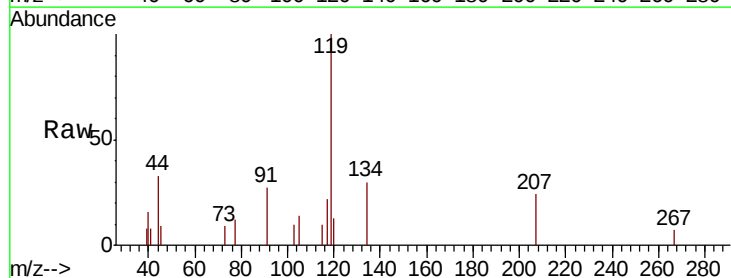
Instrument :
 MSVOA_N
 ClientSampled :

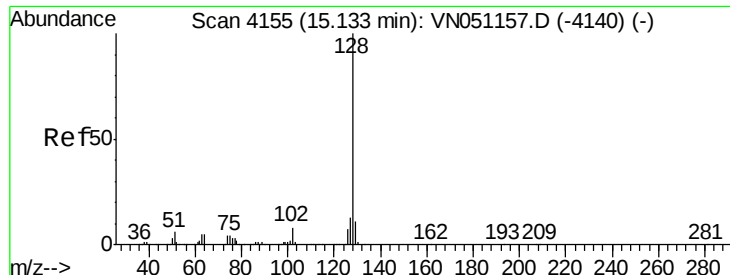
Tot Ion:105 Resp: 3414
 Ion Ratio Lower Upper
 105 100
 120 43.5 23.3 69.8



#90
 Hexachloroethane
 Concen: Below Cal
 RT: 13.89 min Scan# 3768
 Delta R.T. 0.02 min
 Lab File: VN051256.D
 Acq: 16 Sep 2018 5:49

Tgt Ion:117 Resp: 682
 Ion Ratio Lower Upper
 117 100
 201 0.0 47.3 142.0#





#95

Naphthalene

Concen: 7.91 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051256.D

Acq: 16 Sep 2018 5:49

Instrument :

MSVOA_N

ClientSampleId :

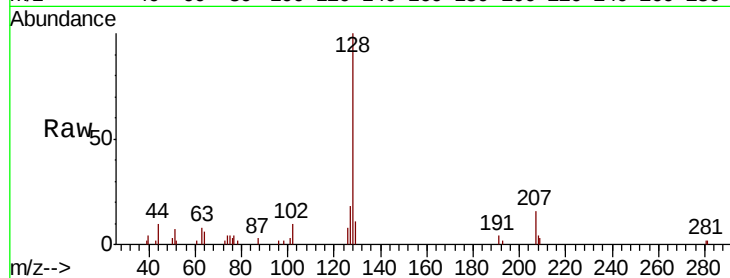
Tot Ion:128 Resp: 16497

Ion Ratio Lower Upper

128 100

127 16.5 10.6 15.8#

129 11.2 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

