

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051258.D
 Acq On : 16 Sep 2018 6:38
 Operator : MD\SY
 Sample : J4936-26
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 04:28:45 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	410567	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	630989	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	503392	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	139256	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	221557	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
35) Dibromofluoromethane	7.59	113	236480	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
50) Toluene-d8	10.09	98	814848	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	
62) 4-Bromofluorobenzene	12.40	95	200945	33.76	ug/l	0.00
Spiked Amount			Recovery	=	67.52%	

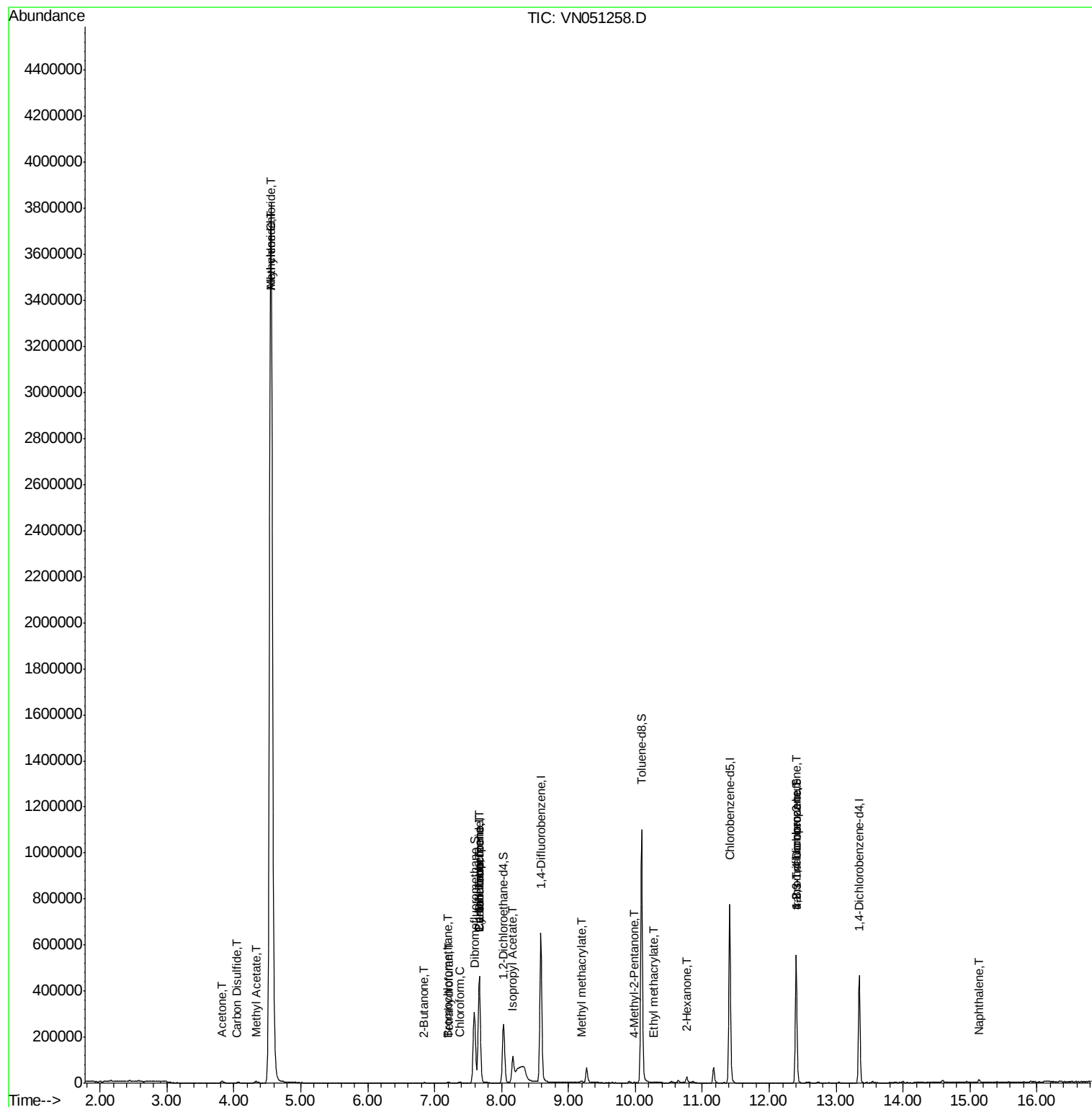
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2042	Below Cal		97
5) Bromomethane	2.58	94	1656	Below Cal		81
14) Allyl chloride	4.55	41	108576	16.27	ug/l #	27
16) Acetone	3.82	43	12678	5.51	ug/l	99
17) Carbon Disulfide	4.05	76	1449	0.23	ug/l #	76
18) Methyl Acetate	4.33	43	11766	3.22	ug/l #	67
20) Methylene Chloride	4.55	84	3158429	625.80	ug/l	99
25) 2-Butanone	6.84	43	868	0.48	ug/l #	46
28) Bromochloromethane	7.19	49	783	0.21	ug/l #	64
29) Tetrahydrofuran	7.22	42	446	0.40	ug/l #	56
30) Chloroform	7.38	83	5212	0.62	ug/l	86
31) Cyclohexane	7.67	56	6236	0.61	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	26293	3.80	ug/l #	47
38) Carbon Tetrachloride	7.67	117	34604	5.08	ug/l #	18
43) Isopropyl Acetate	8.17	43	152489	21.54	ug/l #	80
48) Methyl methacrylate	9.18	41	3809	1.10	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	908	0.23	ug/l #	72
56) Ethyl methacrylate	10.26	69	32	2.46	ug/l #	1
59) 2-Hexanone	10.76	43	3486	1.31	ug/l #	60
76) 1,2,3-Trichloropropane	12.40	75	91376	42.09	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	91376	124.62	ug/l #	15
90) Hexachloroethane	13.89	117	95	Below Cal	#	2
95) Naphthalene	15.13	128	8717	6.83	ug/l	97

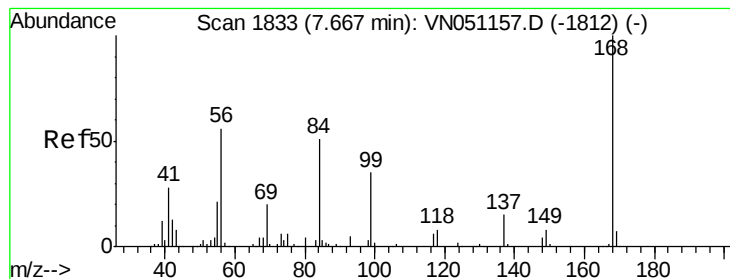
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051258.D

Acq: 16 Sep 2018 6:38

Instrument :

MSVOA_N

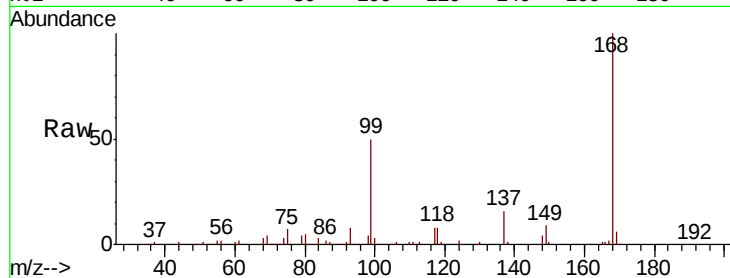
ClientSampleId :

Tot Ion:168 Resp: 410567

Ion Ratio Lower Upper

168 100

99 50.0 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

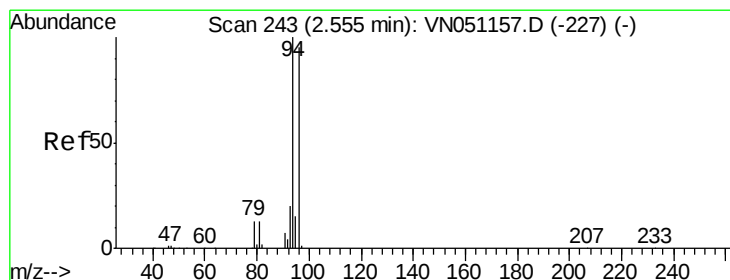
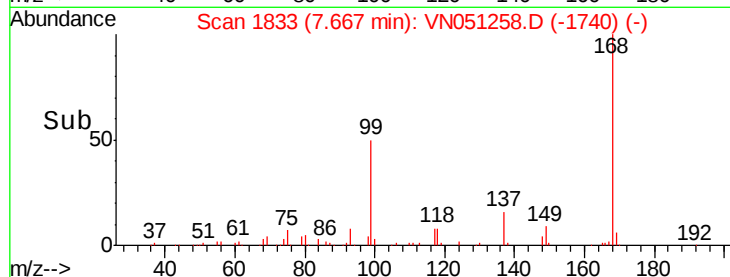
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051258.D

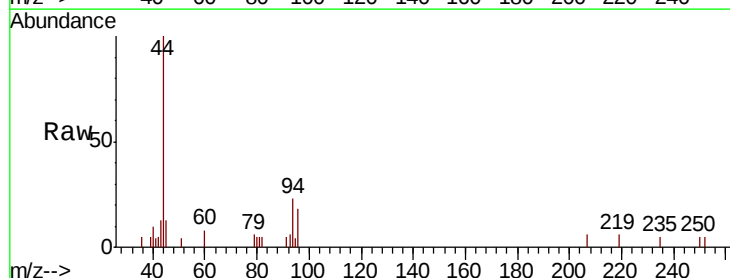
Acq: 16 Sep 2018 6:38

Tgt Ion: 94 Resp: 1656

Ion Ratio Lower Upper

94 100

96 76.1 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) (-)

2.58

1000

800

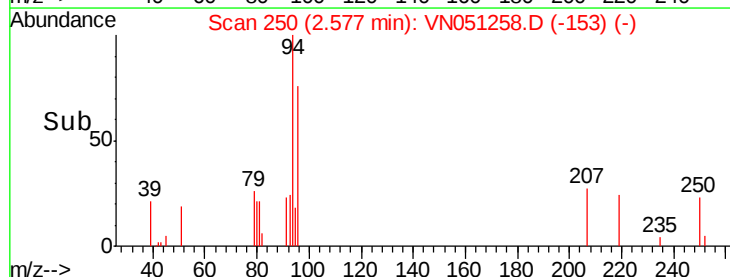
600

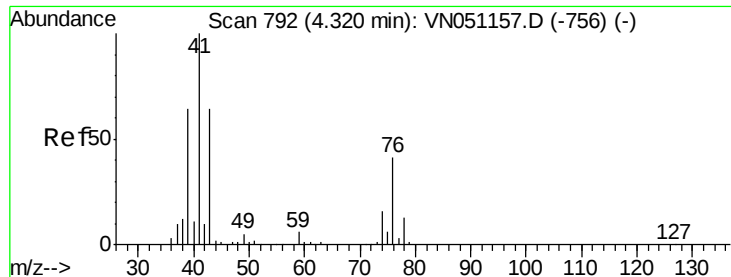
400

200

0

Time-->





#14

Allvl chloride

Concen: 16.27 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.23 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

Instrument :
MSVOA_N
ClientSampleId :

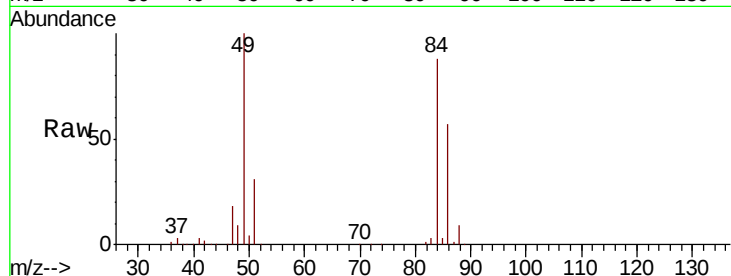
Tot Ion: 41 Resp: 108576

Ion Ratio Lower Upper

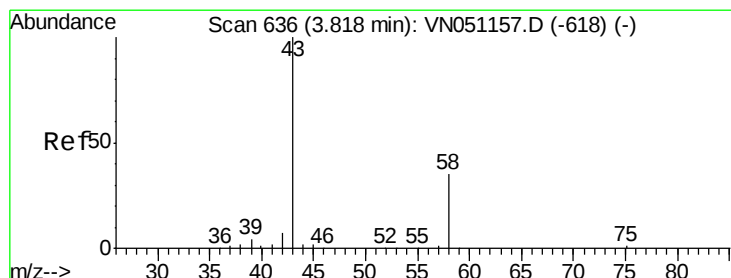
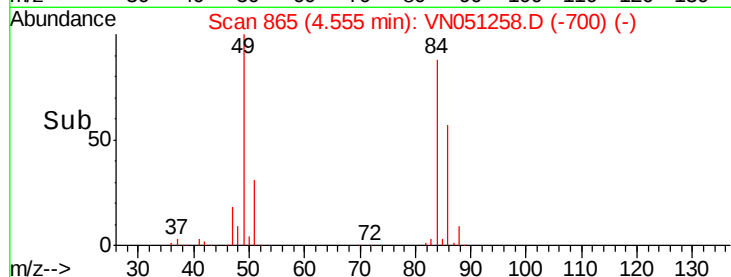
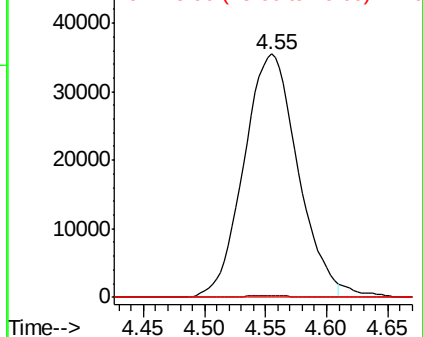
41 100

39 0.4 48.8 73.2#

76 0.0 30.6 45.8#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO



#16

Acetone

Concen: 5.51 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051258.D

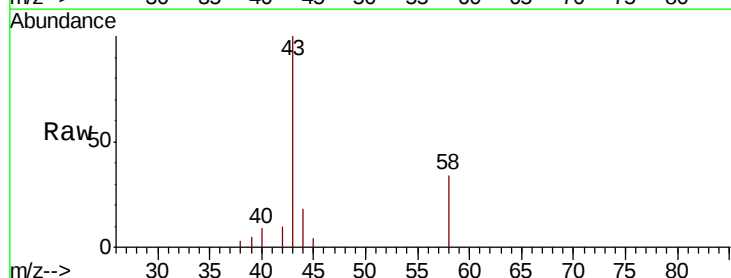
Acq: 16 Sep 2018 6:38

Tgt Ion: 43 Resp: 12678

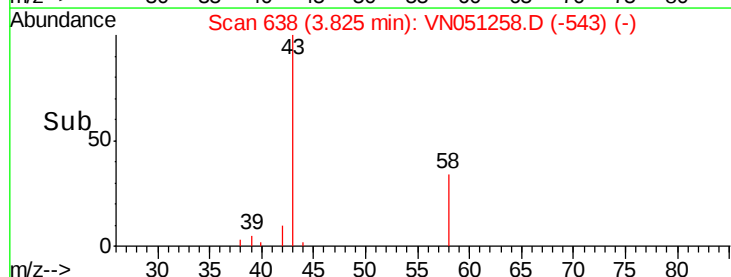
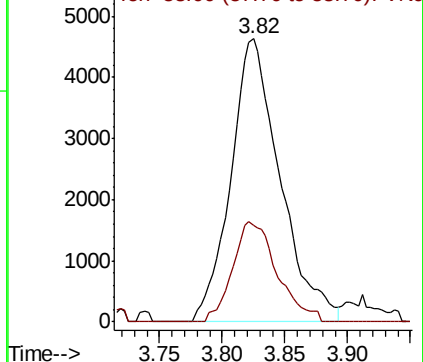
Ion Ratio Lower Upper

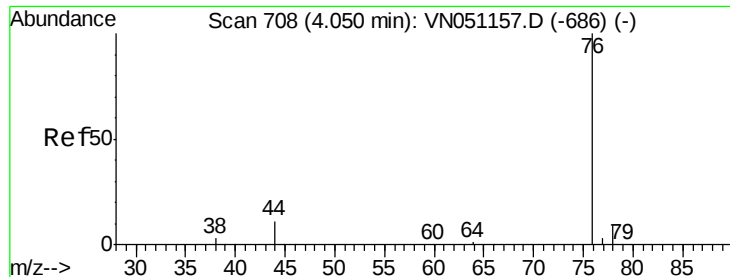
43 100

58 34.0 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

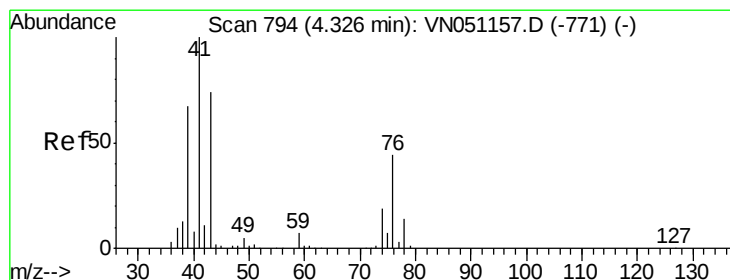
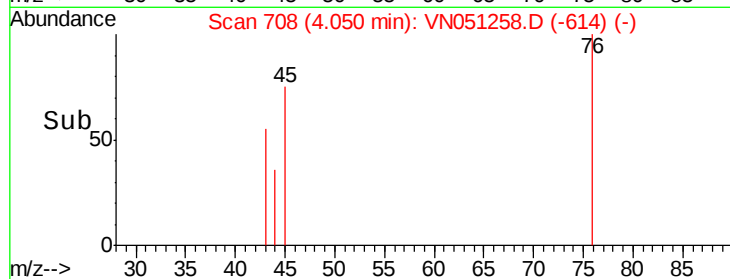
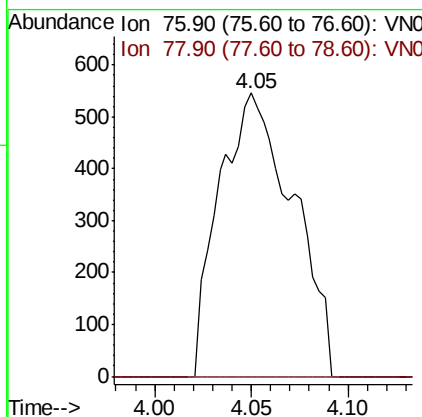
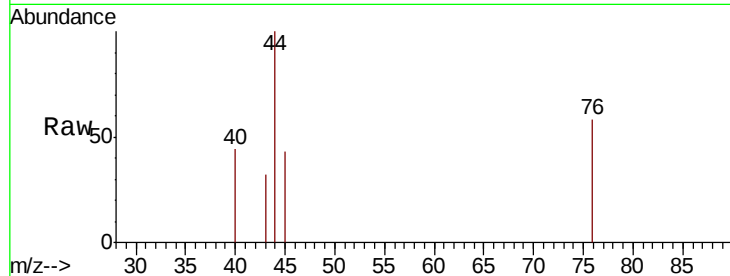




#17
Carbon Disulfide
Concen: 0.23 ug/l
RT: 4.05 min Scan# 708
Delta R.T. 0.00 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

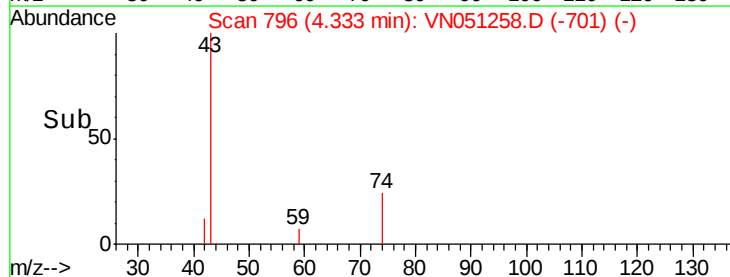
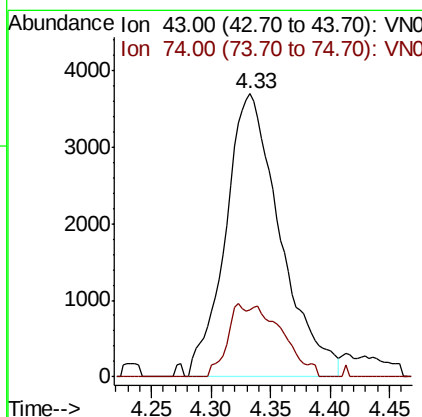
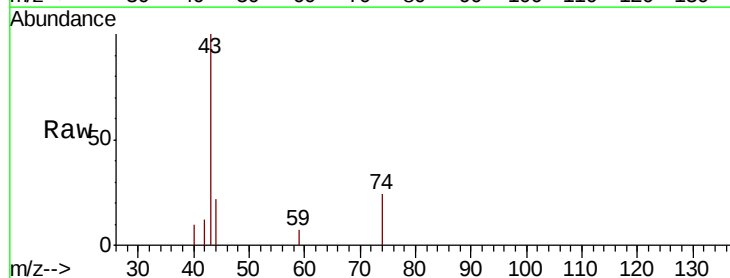
Instrument :
MSVOA_N
ClientSampled :

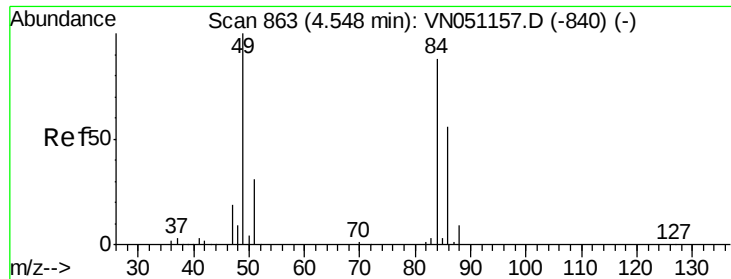
Tot Ion: 76 Resp: 1449
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 3.22 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

Tgt Ion: 43 Resp: 11766
Ion Ratio Lower Upper
43 100
74 9.1 20.7 31.1#



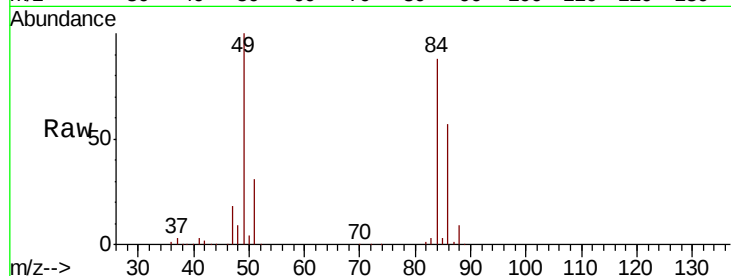


#20
Methylene Chloride
Concen: 625.80 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

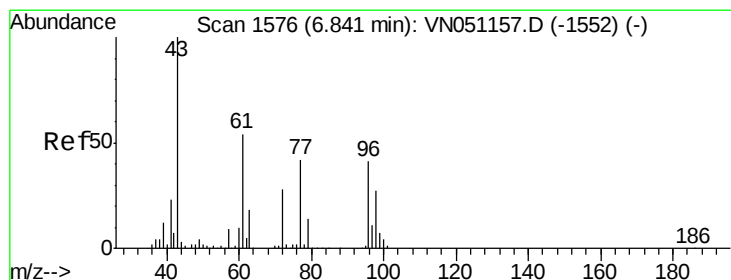
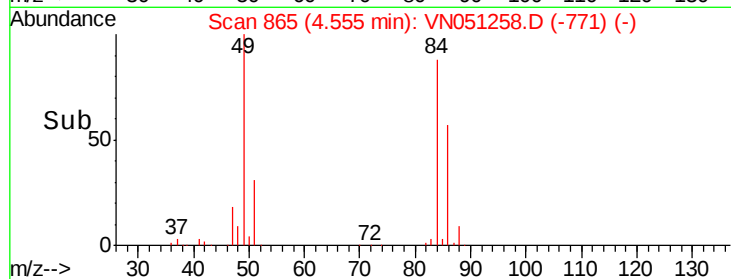
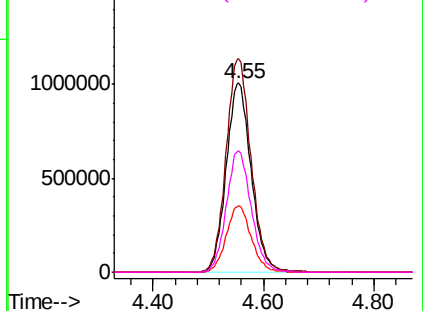
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 3158429

Ion	Ratio	Lower	Upper
84	100		
49	113.1	90.2	135.2
51	35.2	28.4	42.6
86	64.1	51.8	77.8



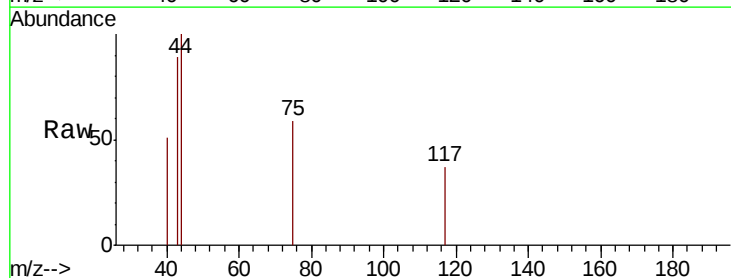
Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC



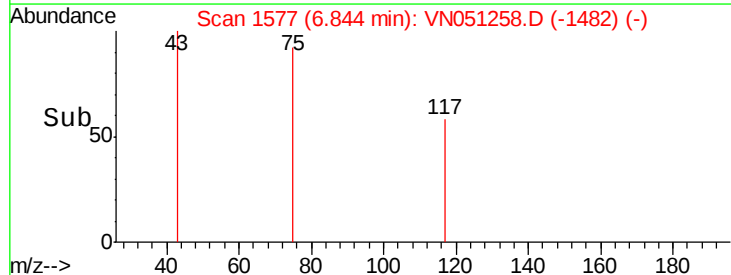
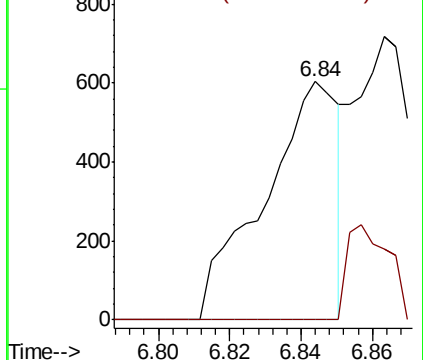
#25
2-Butanone
Concen: 0.48 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

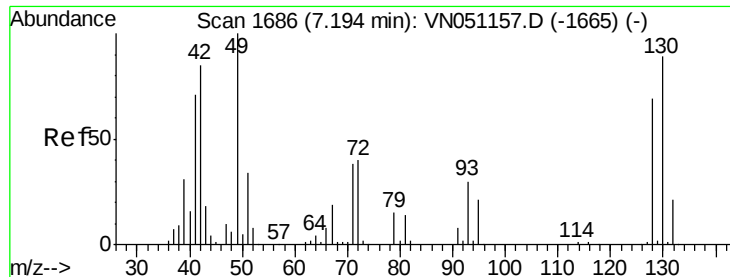
Tgt Ion: 43 Resp: 868

Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.0	34.6#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#28

Bromochloromethane

Concen: 0.21 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

Instrument :
MSVOA_N
ClientSampled :

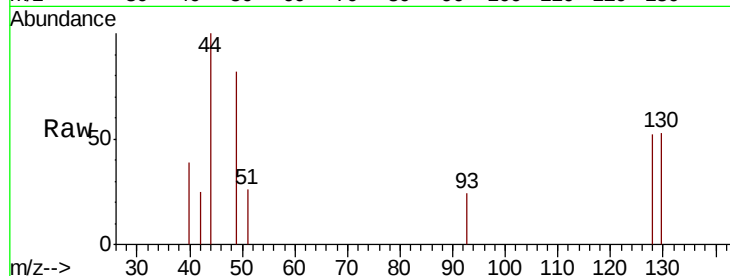
Tot Ion: 49 Resp: 783

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

130 53.9 70.7 106.1#



Abundance Ion 48.90 (48.60 to 49.60): VN051258.D (-1594) (-)

Ion 128.80 (128.50 to 129.50): VN051258.D (-1594) (-)

Ion 129.80 (129.50 to 130.50): VN051258.D (-1594) (-)

7.19

600

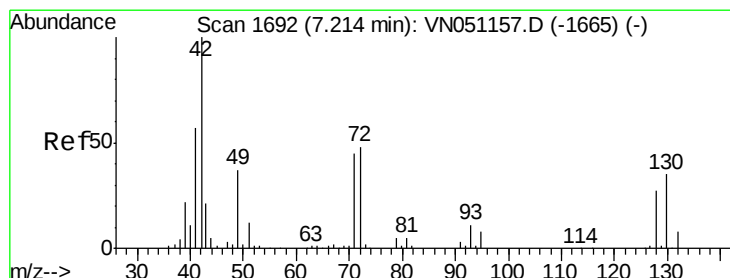
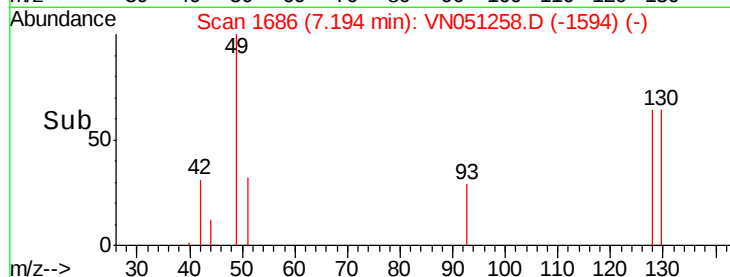
400

200

0

7.16 7.18 7.20

Time-->



#29

Tetrahydrofuran

Concen: 0.40 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

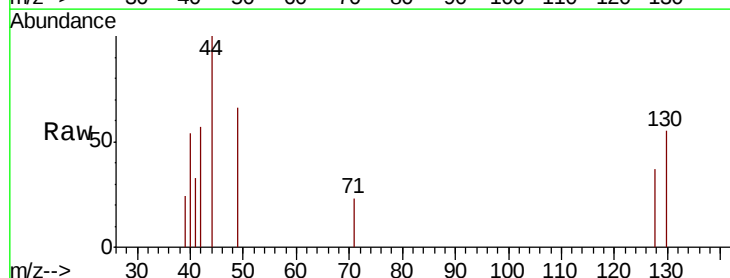
Tgt Ion: 42 Resp: 446

Ion Ratio Lower Upper

42 100

72 25.3 37.4 56.0#

71 7.2 34.7 52.1#



Abundance Ion 42.00 (41.70 to 42.70): VN051258.D (-1599) (-)

Ion 72.00 (71.70 to 72.70): VN051258.D (-1599) (-)

Ion 71.00 (70.70 to 71.70): VN051258.D (-1599) (-)

7.22

500

400

300

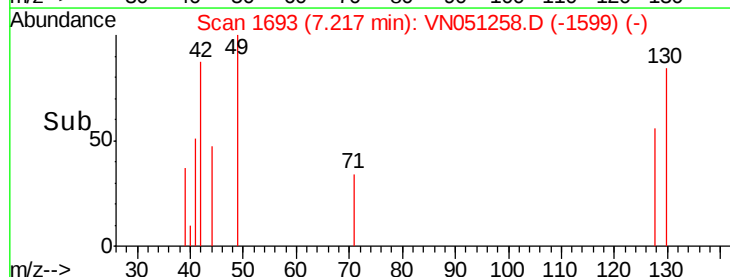
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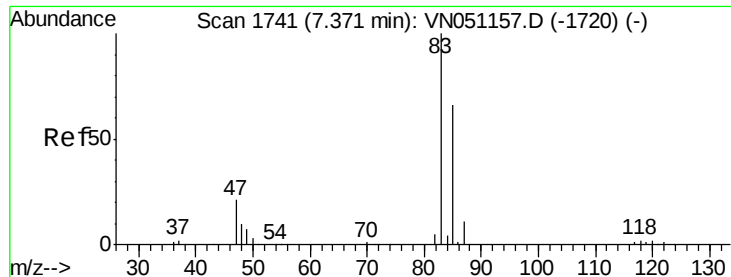
100

0

7.20 7.22 7.24

Time-->

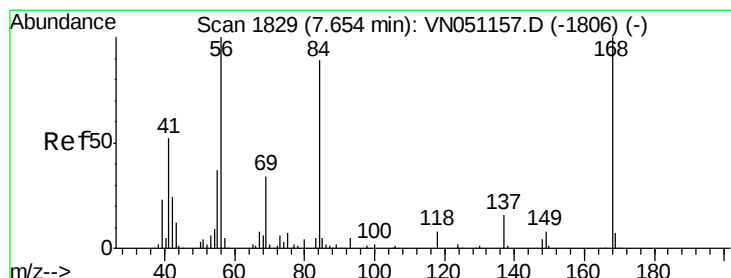
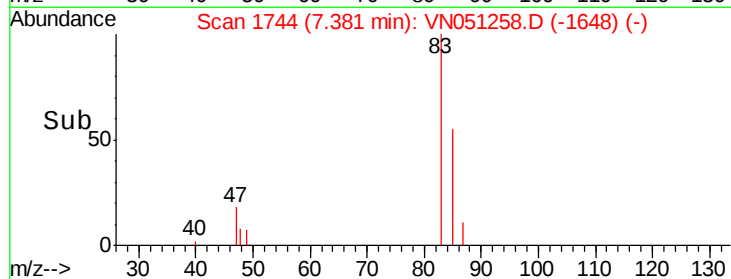
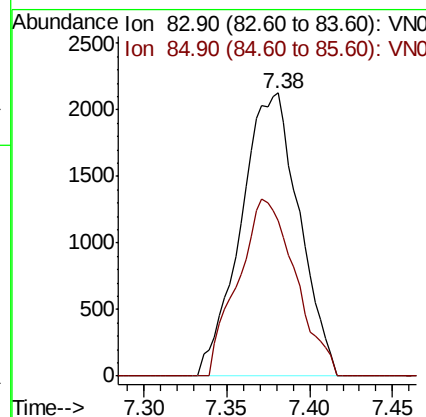
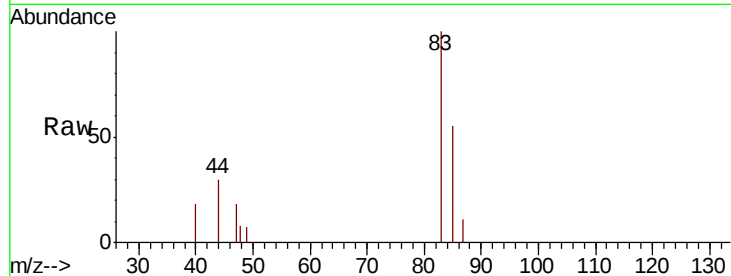




#30
Chloroform
Concen: 0.62 ug/l
RT: 7.38 min Scan# 1744
Delta R.T. 0.01 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

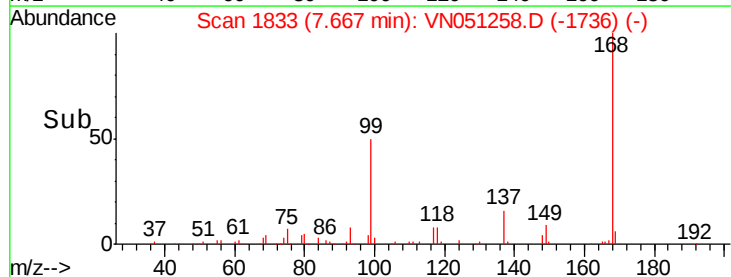
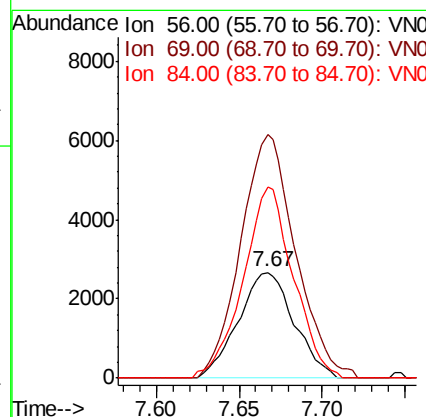
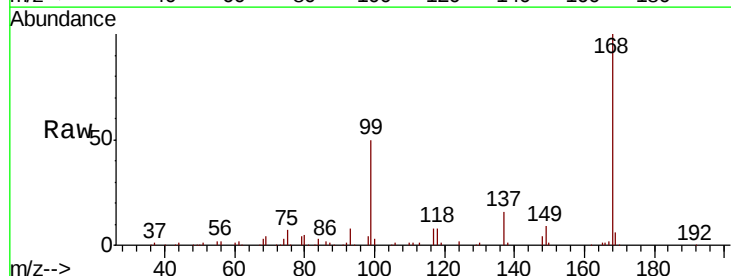
Instrument :
MSVOA_N
ClientSampled :

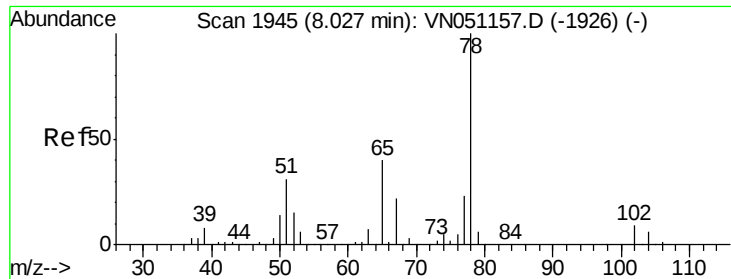
Tot Ion: 83 Resp: 5212
Ion Ratio Lower Upper
83 100
85 54.9 52.6 79.0



#31
Cyclohexane
Concen: 0.61 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

Tgt Ion: 56 Resp: 6236
Ion Ratio Lower Upper
56 100
69 231.0 26.3 39.5#
84 180.9 69.4 104.0#

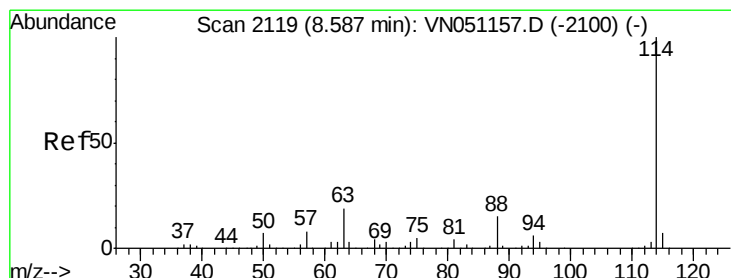
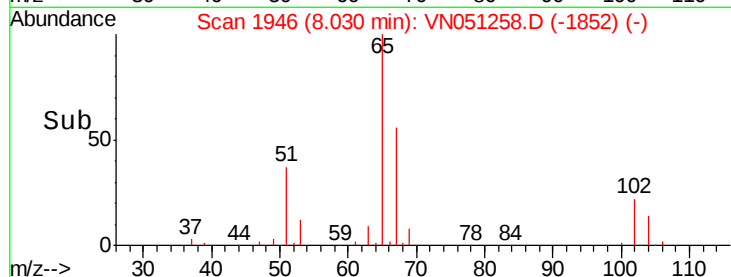
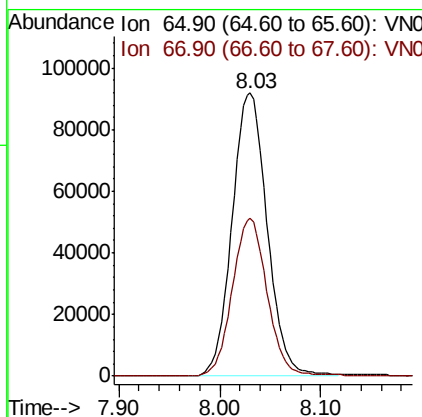
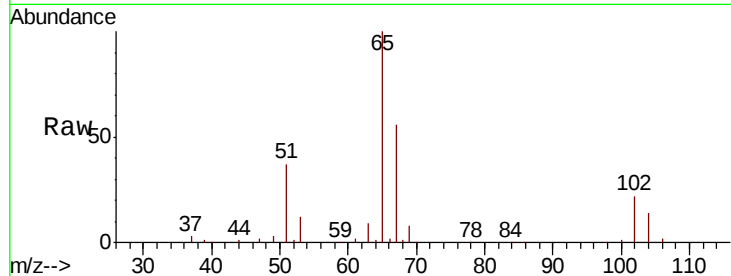




#33
 1,2-Dichloroethane-d4
 Concen: 48.49 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051258.D
 Acq: 16 Sep 2018 6:38

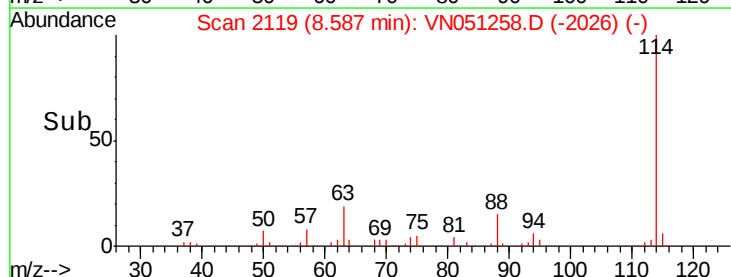
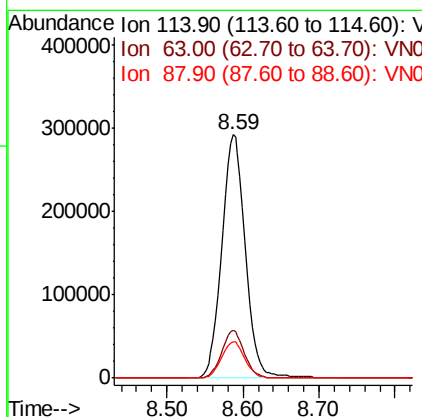
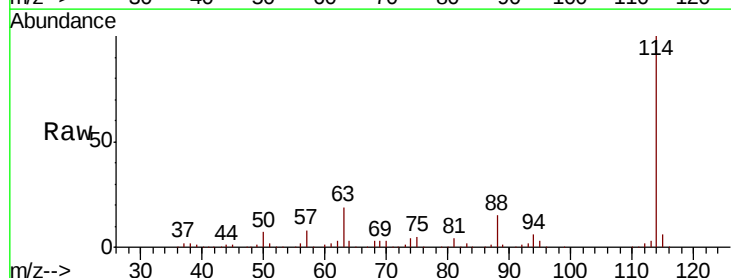
Instrument :
 MSVOA_N
 ClientSampled :

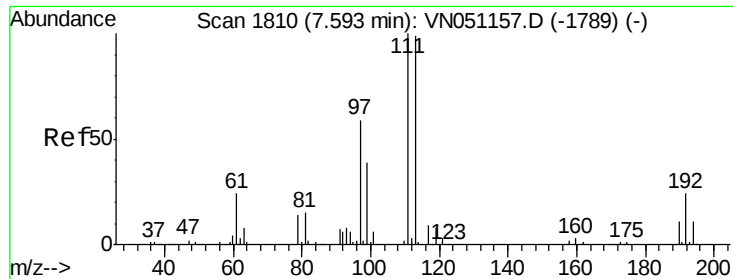
Tot Ion: 65 Resp: 221557
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051258.D
 Acq: 16 Sep 2018 6:38

Tgt Ion: 114 Resp: 630989
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 37.8
 88 15.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.88 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

Instrument :
MSVOA_N
ClientSampleId :

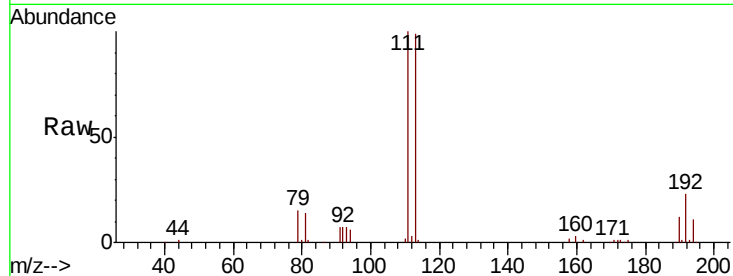
Tot Ion:113 Resp: 236480

Ion Ratio Lower Upper

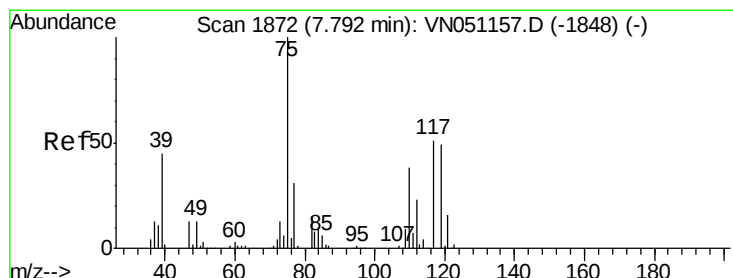
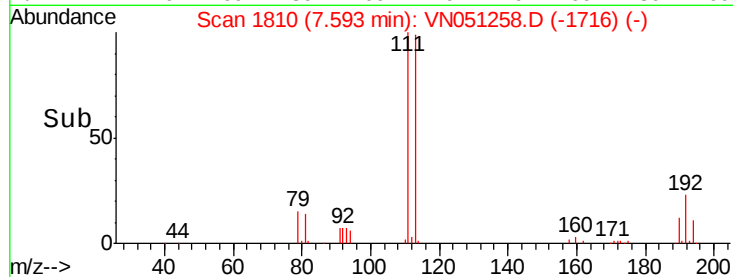
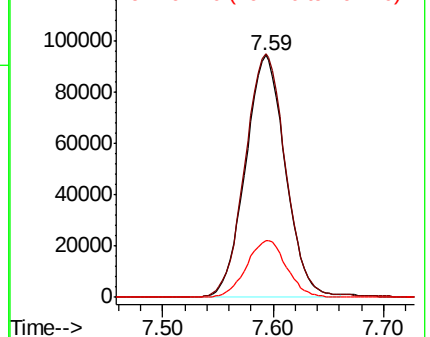
113 100

111 101.9 83.0 124.6

192 23.6 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: 3.80 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

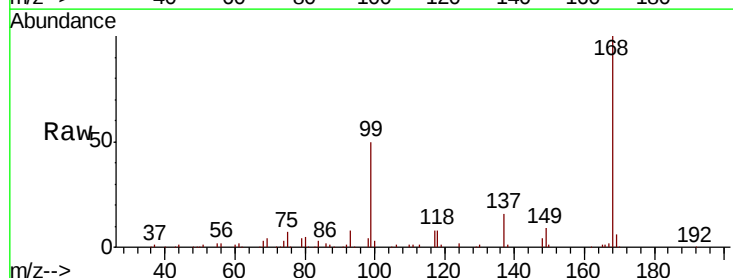
Tgt Ion: 75 Resp: 26293

Ion Ratio Lower Upper

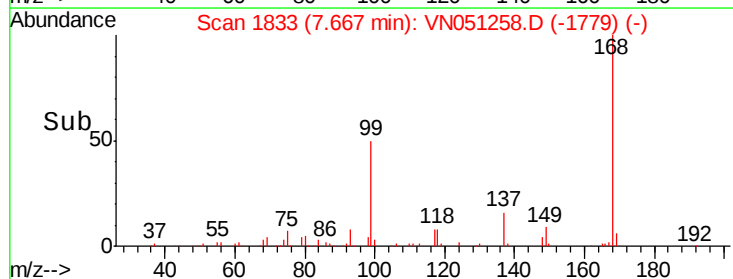
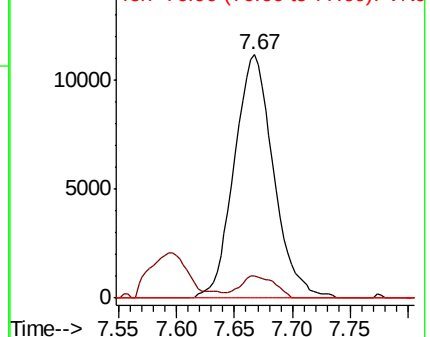
75 100

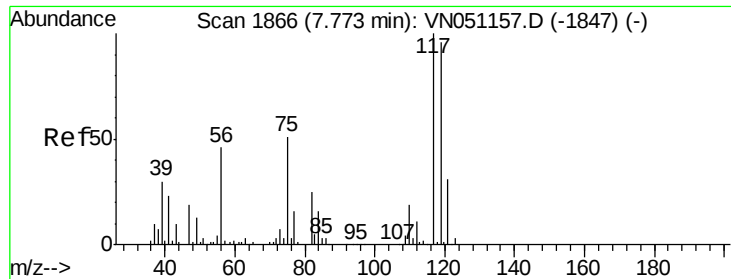
110 7.9 18.6 55.8#

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

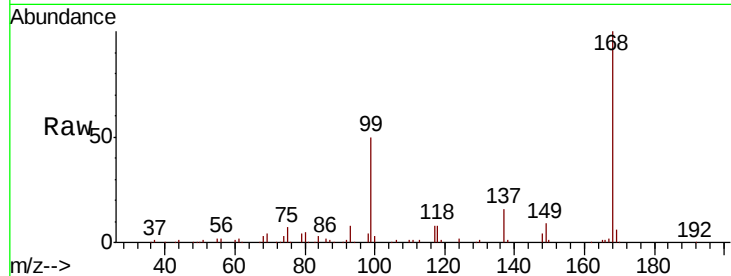




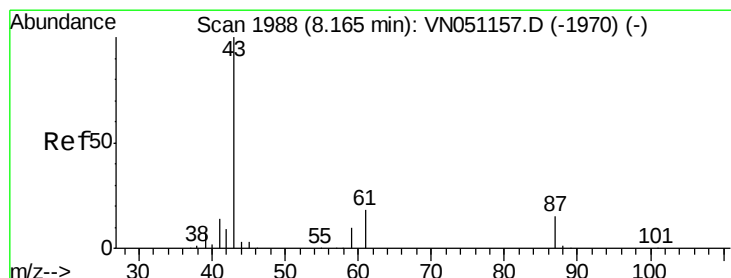
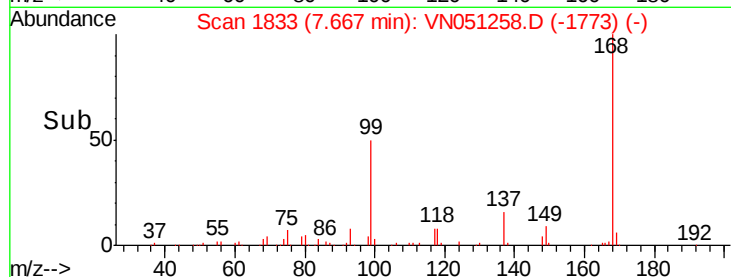
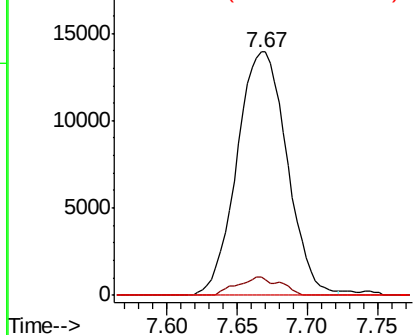
#38
Carbon Tetrachloride
Concen: 5.08 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 34604
Ion Ratio Lower Upper
117 100
119 7.4 76.8 115.2#
121 0.0 24.6 36.8#

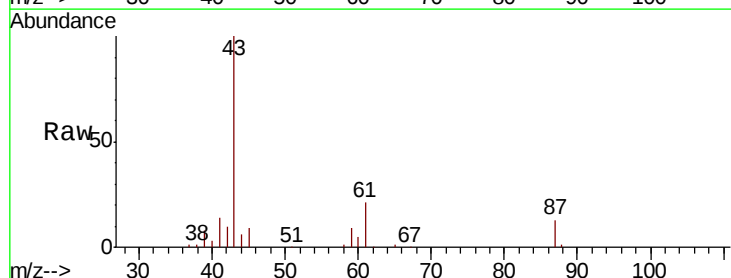


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

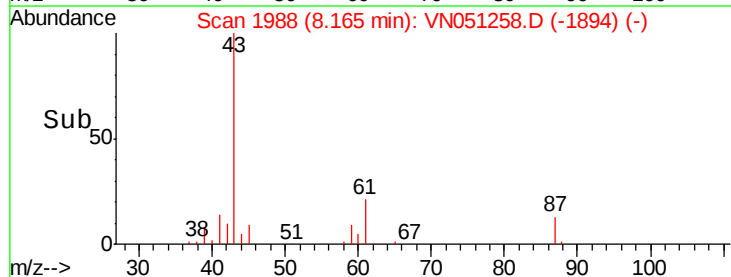
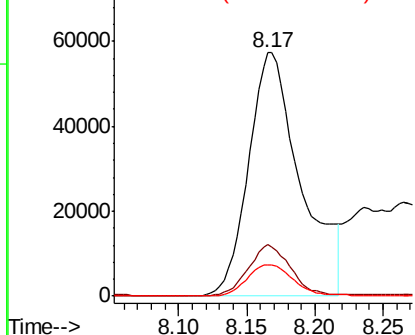


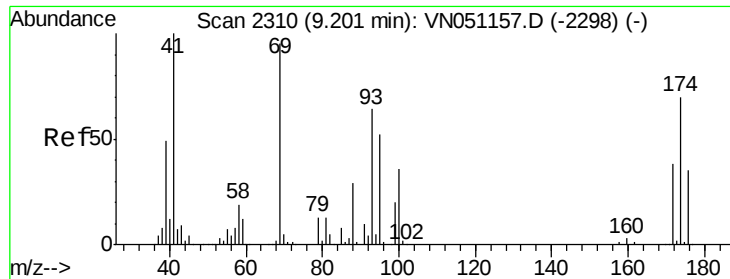
#43
Isopropyl Acetate
Concen: 21.54 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

Tgt Ion: 43 Resp: 152489
Ion Ratio Lower Upper
43 100
61 17.1 25.0 37.6#
87 11.5 11.8 17.8#



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

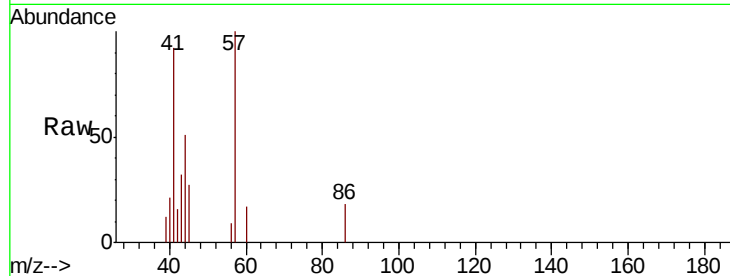




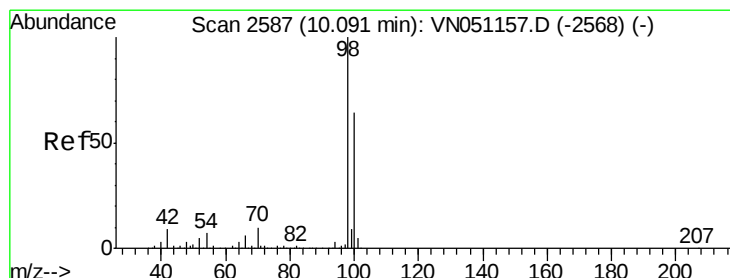
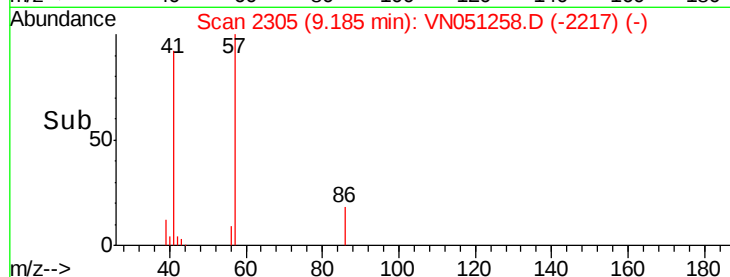
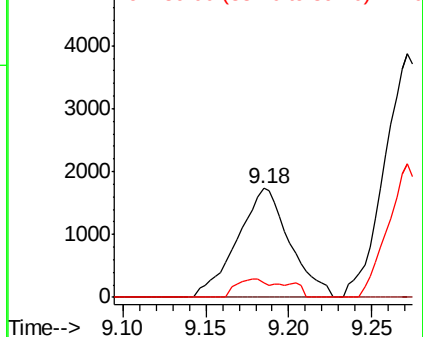
#48
Methvl methacrylate
Concen: 1.10 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3809
Ion Ratio Lower Upper
41 100
69 0.0 77.7 116.5#
39 10.7 41.6 62.4#

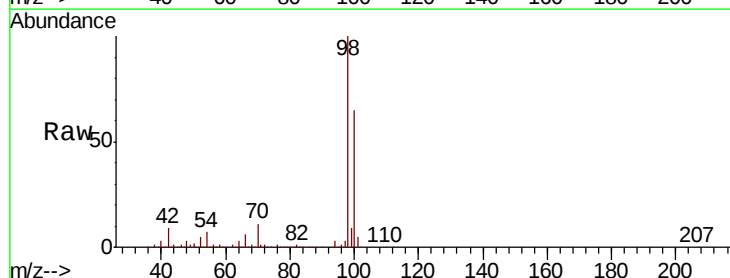


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

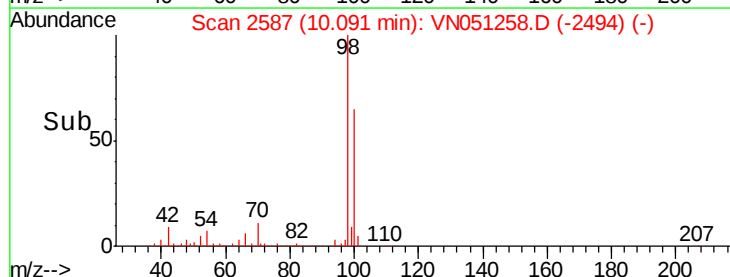
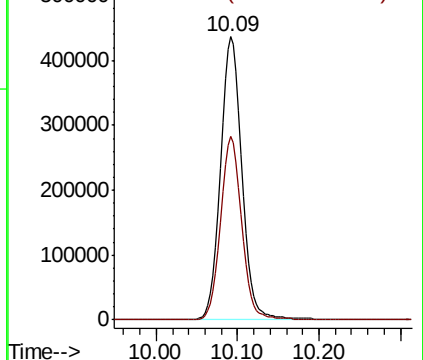


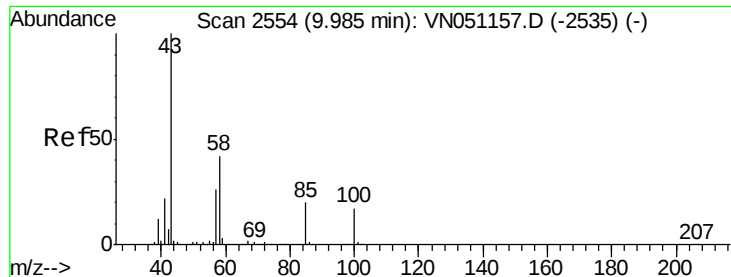
#50
Toluene-d8
Concen: 45.29 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

Tgt Ion: 98 Resp: 814848
Ion Ratio Lower Upper
98 100
100 64.0 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# 2555

Delta R.T. 0.00 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

Instrument :

MSVOA_N

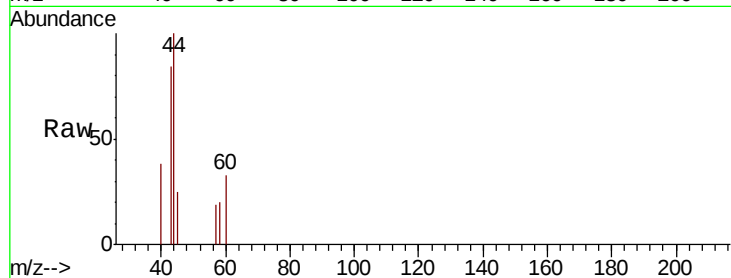
ClientSampled :

Tot Ion: 43 Resp: 908

Ion Ratio Lower Upper

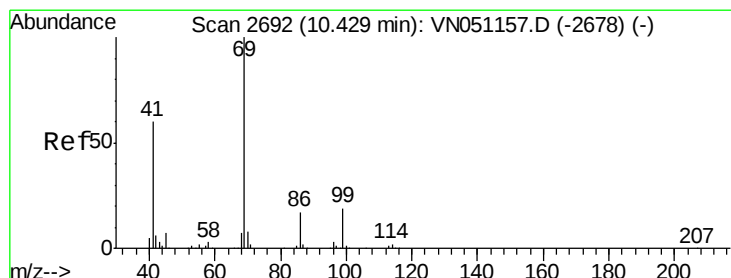
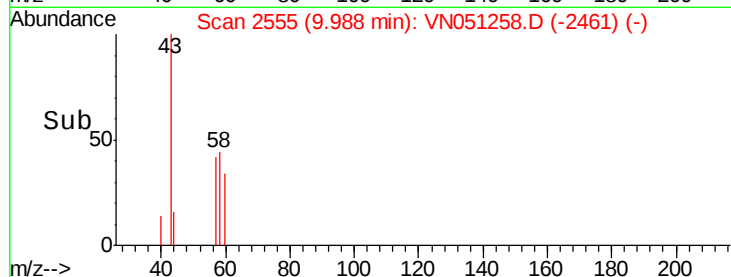
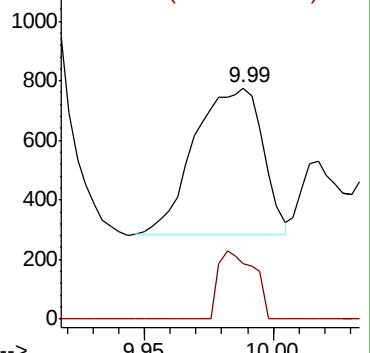
43 100

58 24.2 33.5 50.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.46 ug/l

RT: 10.26 min Scan# 2638

Delta R.T. -0.17 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

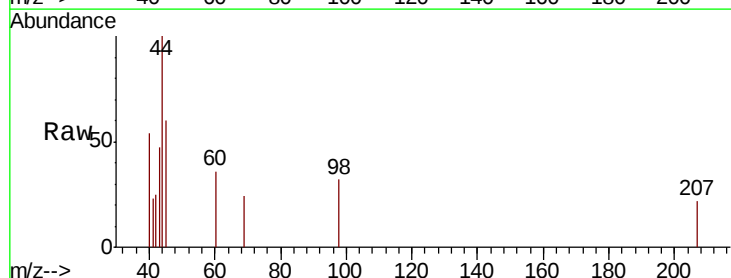
Tgt Ion: 69 Resp: 32

Ion Ratio Lower Upper

69 100

41 196.9 47.8 71.8#

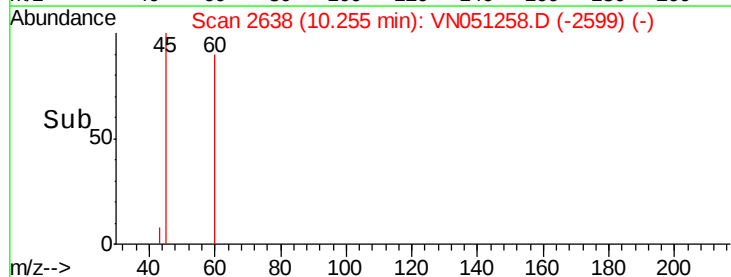
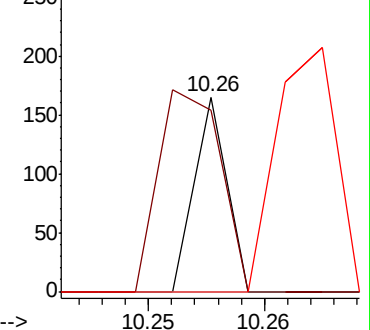
39 231.3 23.0 34.4#

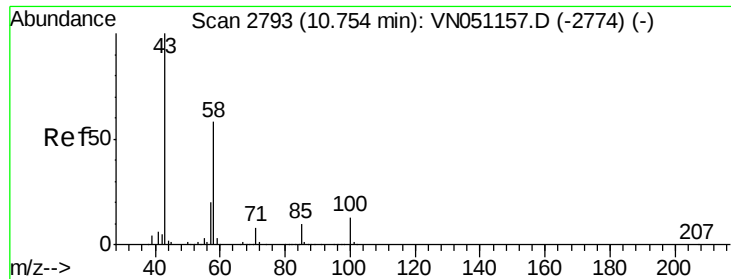


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

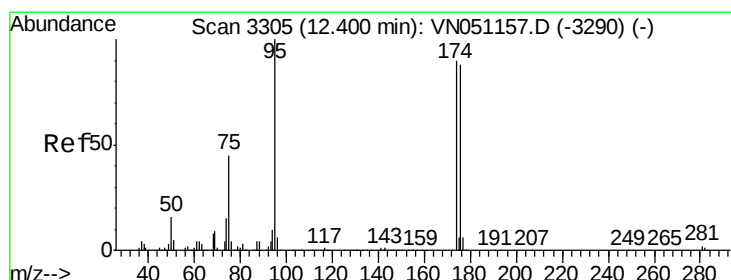
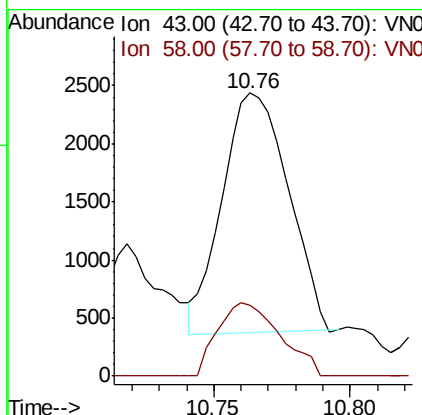
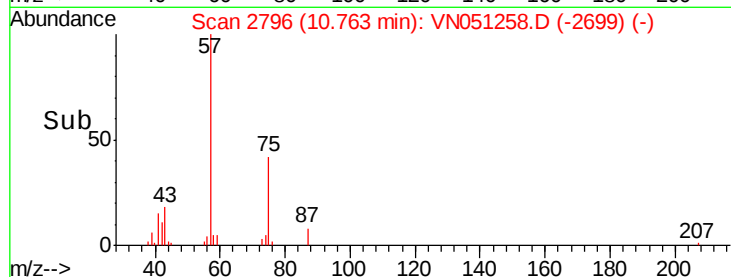
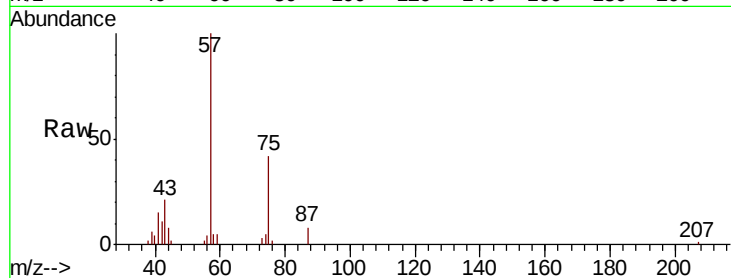




#59
2-Hexanone
Concen: 1.31 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

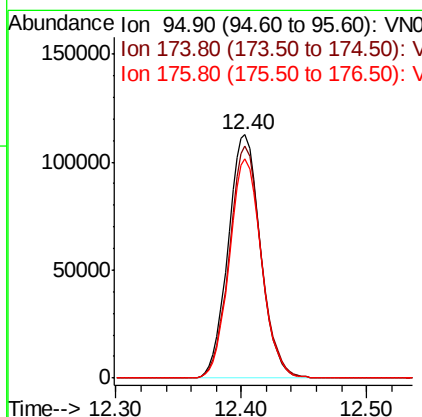
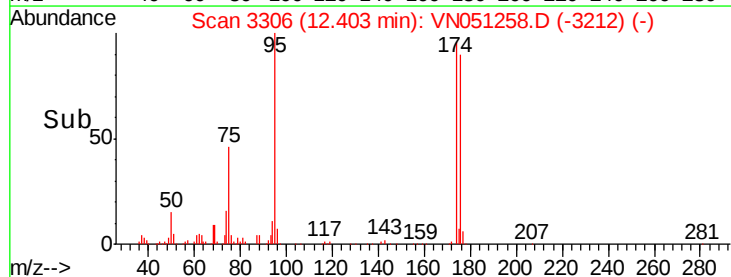
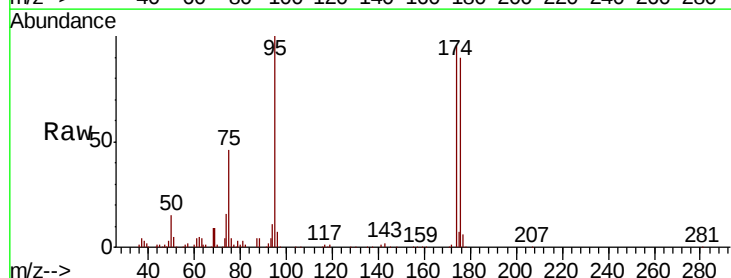
Instrument :
MSVOA_N
ClientSampled :

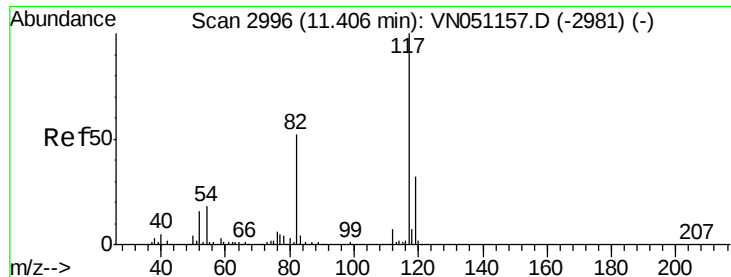
Tot Ion: 43 Resp: 3486
Ion Ratio Lower Upper
43 100
58 28.8 29.3 88.0#



#62
4-Bromofluorobenzene
Concen: 33.76 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

Tgt Ion: 95 Resp: 200945
Ion Ratio Lower Upper
95 100
174 94.0 0.0 184.8
176 89.7 0.0 178.6

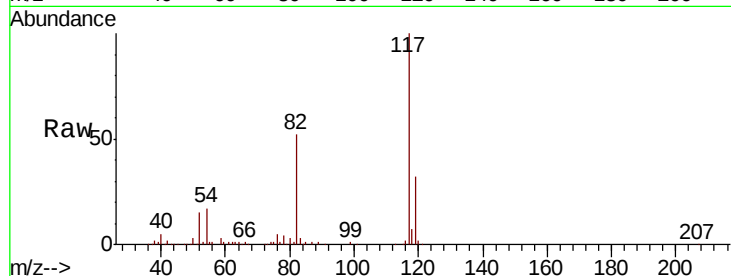




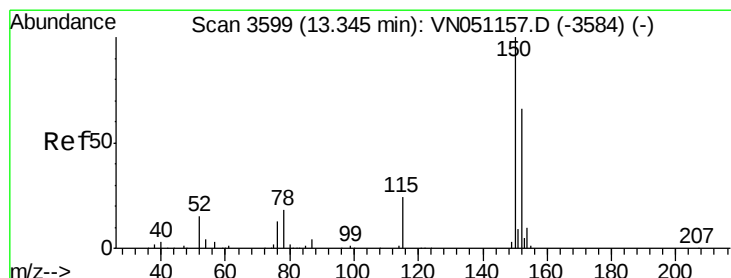
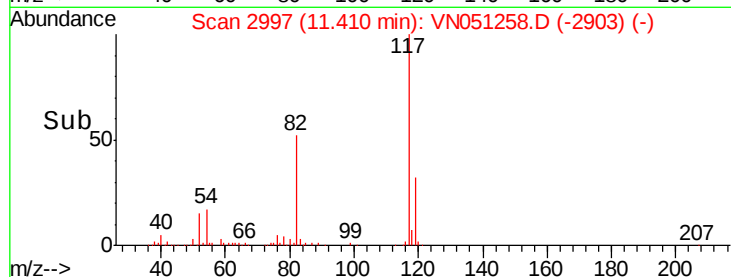
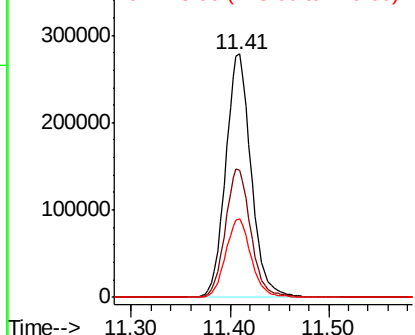
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 503392
Ion Ratio Lower Upper
117 100
82 52.5 41.8 62.6
119 32.1 26.2 39.2

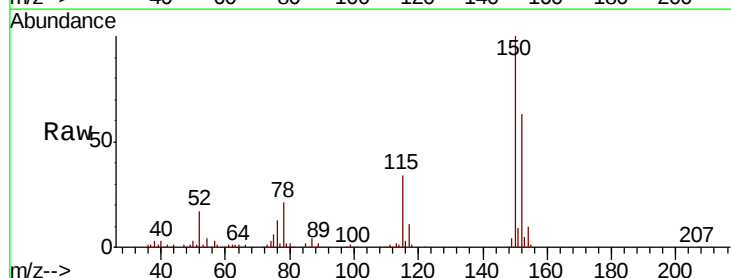


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

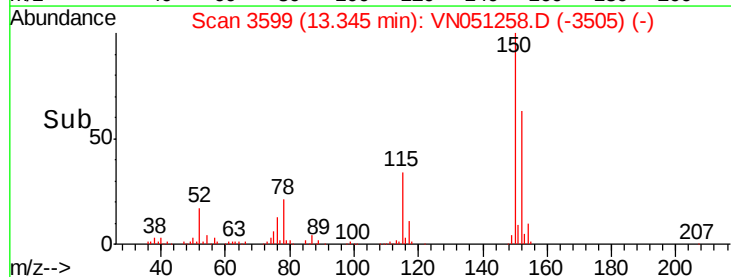
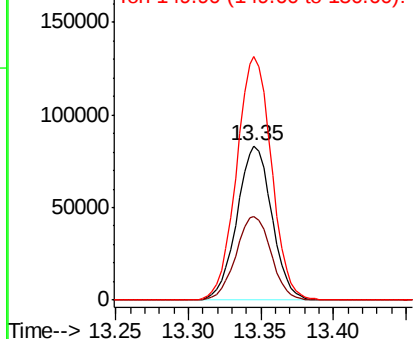


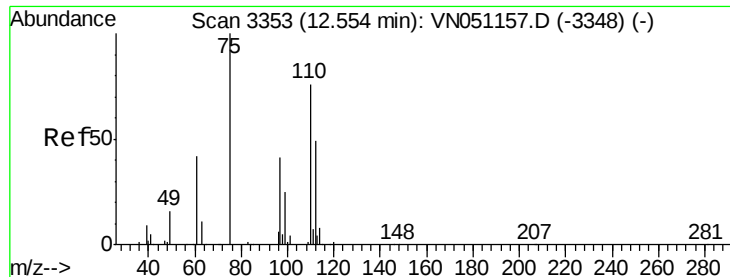
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051258.D
Acq: 16 Sep 2018 6:38

Tgt Ion:152 Resp: 139256
Ion Ratio Lower Upper
152 100
115 54.7 28.2 84.7
150 157.7 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 42.09 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

Instrument :

MSVOA_N

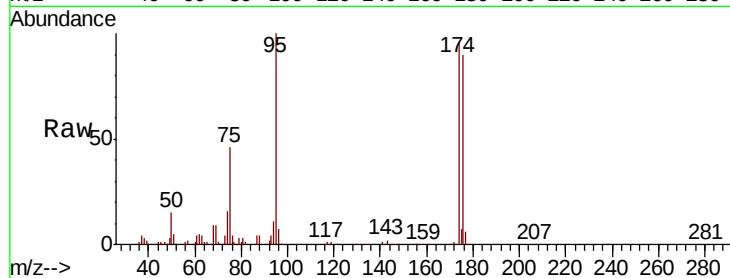
ClientSampled :

Tot Ion: 75 Resp: 91376

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

60000

50000

40000

30000

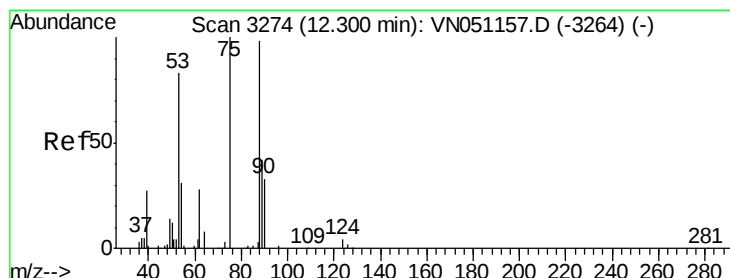
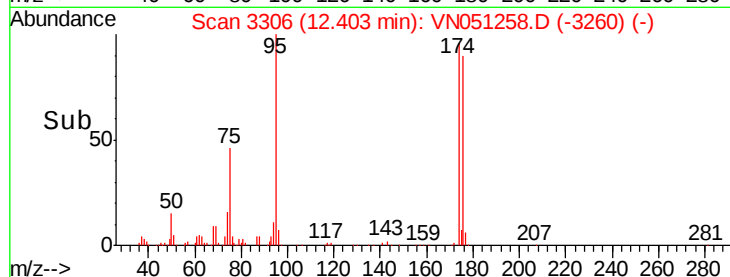
20000

10000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 124.62 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

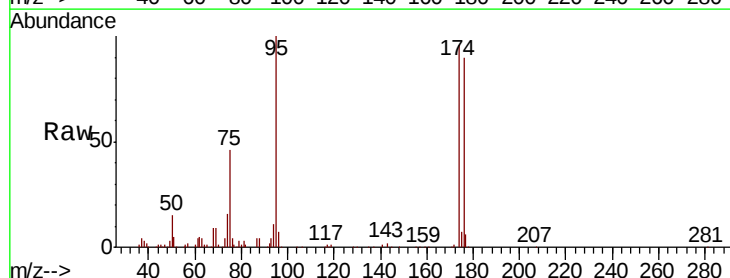
Tgt Ion: 75 Resp: 91376

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

60000

50000

40000

30000

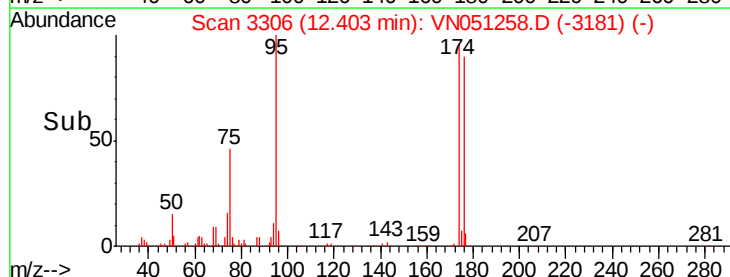
20000

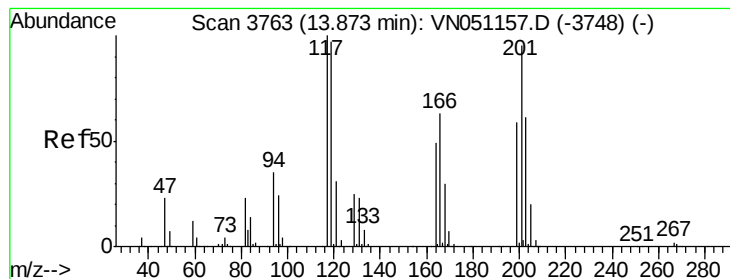
10000

0

12.35 12.40 12.45

Time-->





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3768

Delta R.T. 0.02 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

Instrument :

MSVOA_N

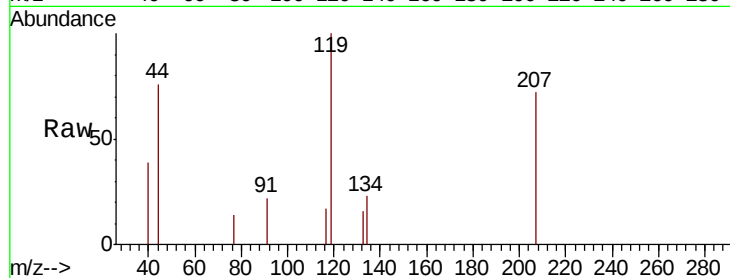
ClientSampleId :

Tot Ion:117 Resp: 95

Ion Ratio Lower Upper

117 100

201 0.0 47.3 142.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.89

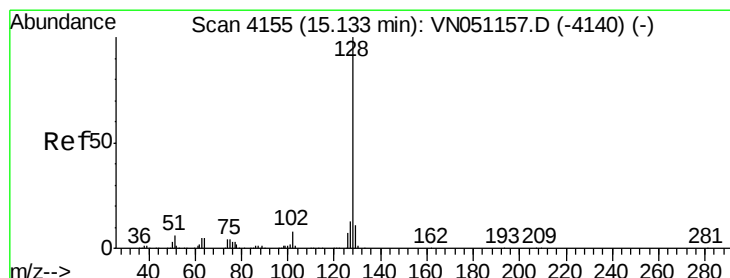
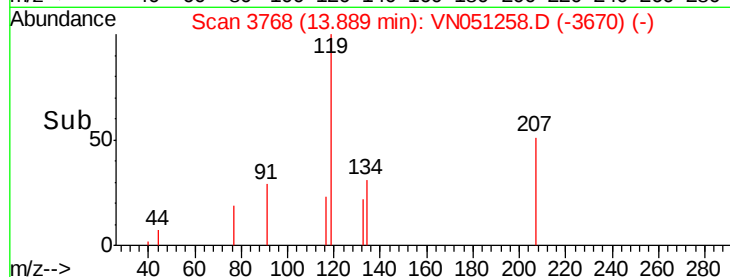
150

100

50

0

Time--> 13.87 13.88 13.89 13.90



#95

Naphthalene

Concen: 6.83 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051258.D

Acq: 16 Sep 2018 6:38

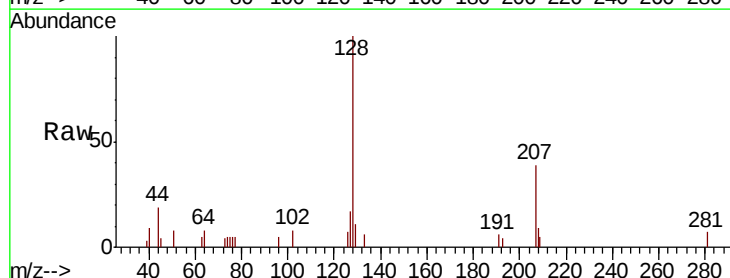
Tgt Ion:128 Resp: 8717

Ion Ratio Lower Upper

128 100

127 12.4 10.6 15.8

129 9.3 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.13

6000

5000

4000

3000

2000

1000

0

Time--> 15.10 15.15

