

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050848.D
 Acq On : 23 Aug 2018 13:08
 Operator : MD\SY
 Sample : PB112301ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:10:02 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	627837	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1042332	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	876347	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	294370	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	417095	55.18	ug/l	0.00
Spiked Amount			Recovery	=	110.36%	
35) Dibromofluoromethane	7.59	113	393372	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
50) Toluene-d8	10.09	98	1406219	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	
62) 4-Bromofluorobenzene	12.40	95	376564	36.55	ug/l	0.00
Spiked Amount			Recovery	=	73.10%	

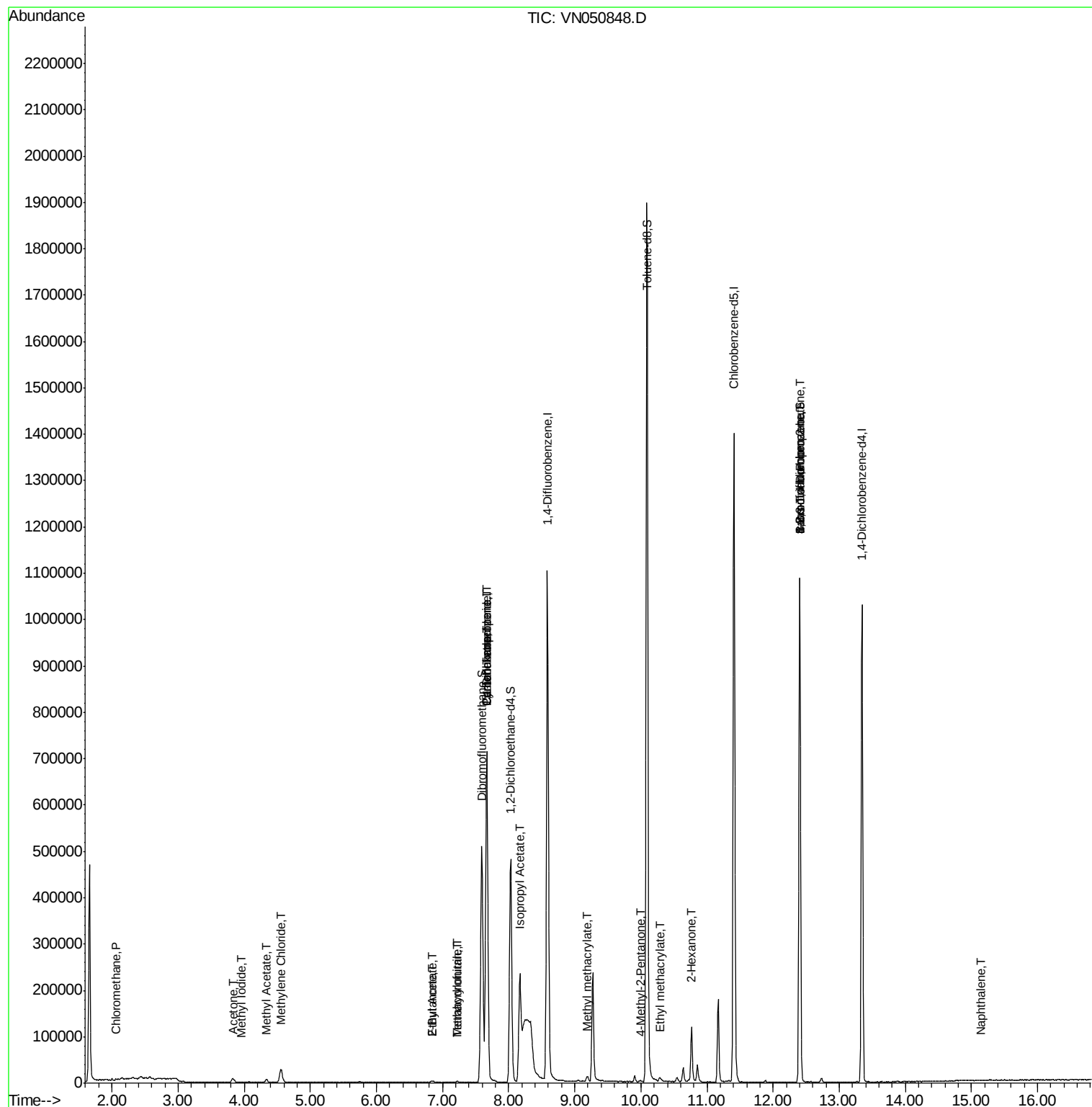
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2373	0.23	ug/l	99
5) Bromomethane	2.57	94	2538	Below Cal		87
10) Methyl Iodide	3.95	142	641	6.42	ug/l #	50
16) Acetone	3.83	43	14885	1.29	ug/l	100
18) Methyl Acetate	4.34	43	12380	1.73	ug/l	95
20) Methylene Chloride	4.55	84	22334	2.62	ug/l	96
25) 2-Butanone	6.85	43	3519	1.16	ug/l	91
29) Tetrahydrofuran	7.22	42	1826	1.05	ug/l #	54
31) Cyclohexane	7.66	56	10499	1.27	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42113	3.42	ug/l #	49
37) Ethyl Acetate	6.85	43	3519	0.50	ug/l #	67
38) Carbon Tetrachloride	7.67	117	54322	4.37	ug/l #	17
41) Methacrylonitrile	7.23	41	1328	0.35	ug/l #	25
43) Isopropyl Acetate	8.17	43	312311	25.71	ug/l #	92
48) Methyl methacrylate	9.18	41	7694	1.24	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	1522	0.21	ug/l #	75
56) Ethyl methacrylate	10.29	69	94	2.36	ug/l #	1
59) 2-Hexanone	10.76	43	16531	3.43	ug/l #	56
71) Bromoform	12.40	173	3242	0.56	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	61	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	176600	34.25	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	176600	115.79	ug/l #	15
95) Naphthalene	15.13	128	210	5.42	ug/l #	69

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

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ClientSampleId :

Quant Time: Aug 24 01:10:02 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

Instrument :

MSVOA_N

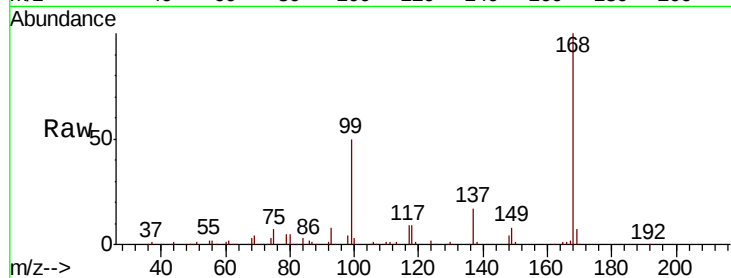
ClientSampleId :

Tot Ion:168 Resp: 627837

Ion Ratio Lower Upper

168 100

99 49.7 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050782.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050782.D (-1870) (-)

7.67

250000

200000

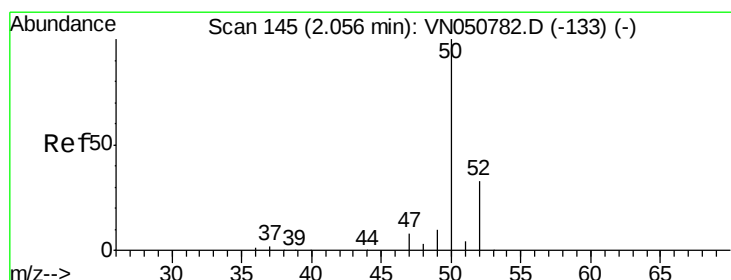
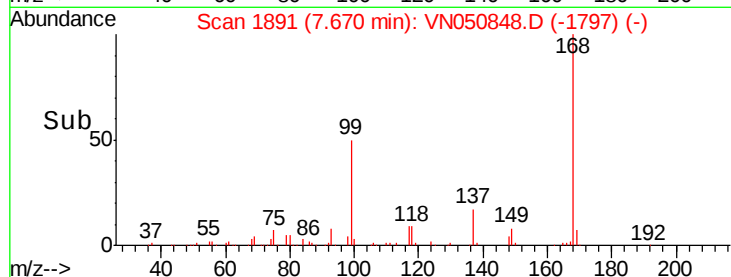
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.23 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050848.D

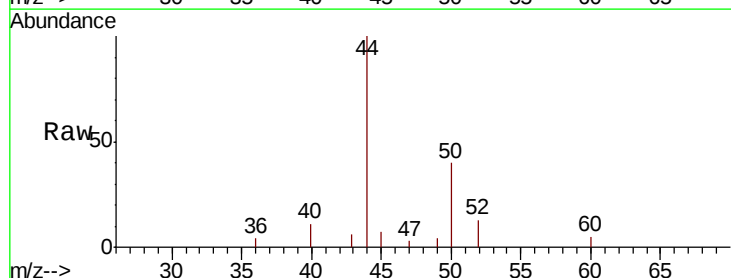
Acq: 23 Aug 2018 13:08

Tgt Ion: 50 Resp: 2373

Ion Ratio Lower Upper

50 100

52 33.7 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN050782.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050782.D (-133) (-)

2.06

2000

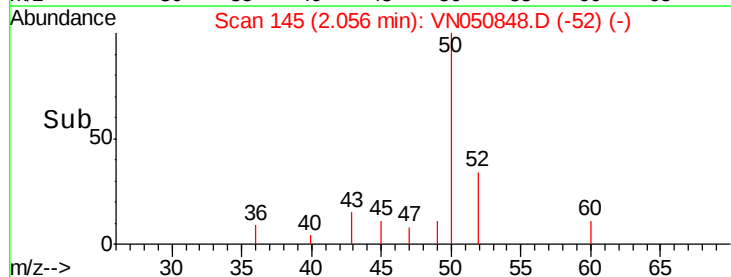
1500

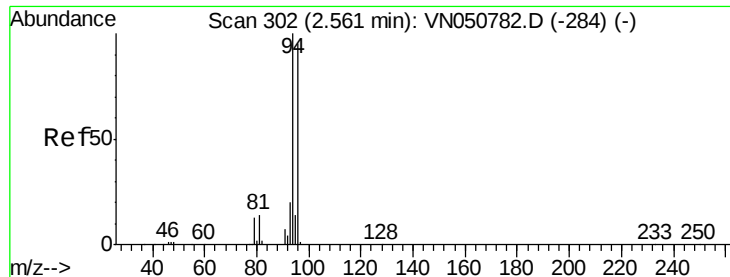
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

Instrument :

MSVOA_N

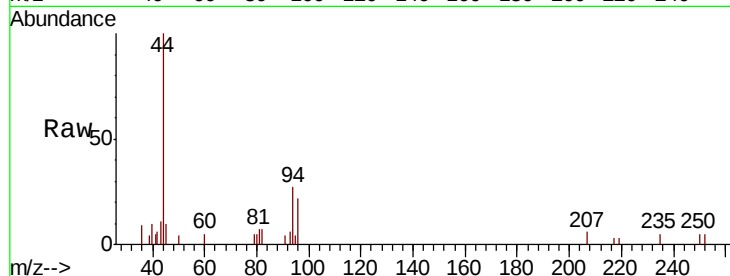
ClientSampled :

Tot Ion: 94 Resp: 2538

Ion Ratio Lower Upper

94 100

96 82.8 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050782.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050848.D (-209) (-)

2.57

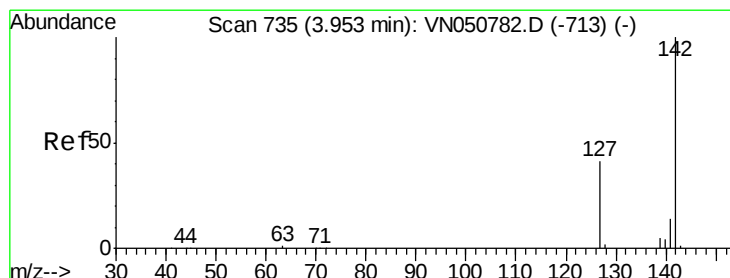
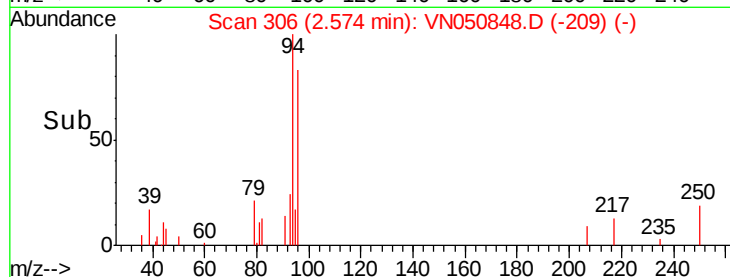
1500

1000

500

0

Time--> 2.50 2.55 2.60



#10

Methyl Iodide

Concen: 6.42 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

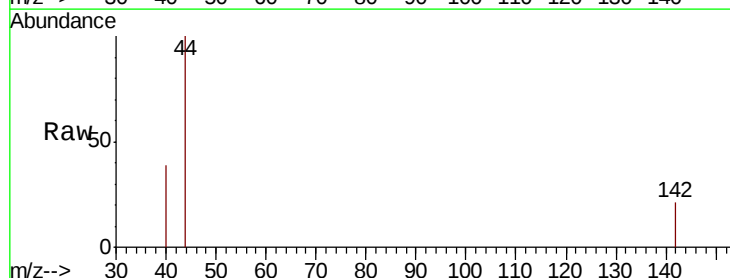
Tgt Ion: 142 Resp: 641

Ion Ratio Lower Upper

142 100

127 5.1 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050782.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050848.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050848.D (-642) (-)

3.95

400

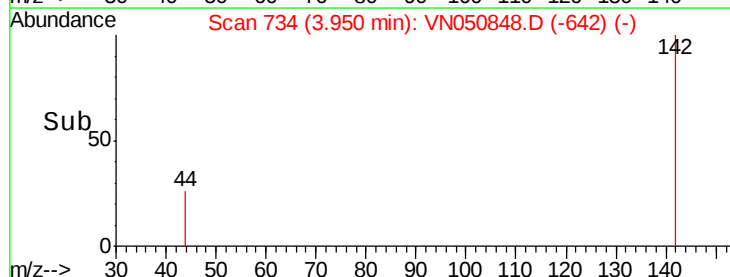
300

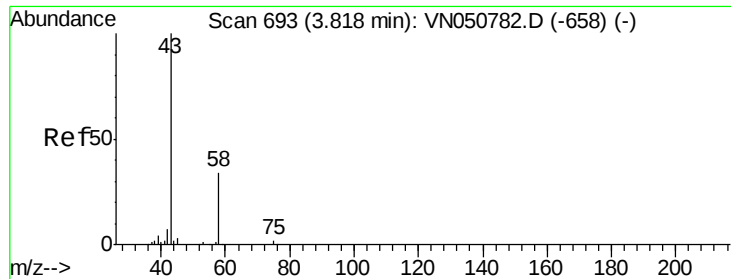
200

100

0

Time--> 3.95 4.00

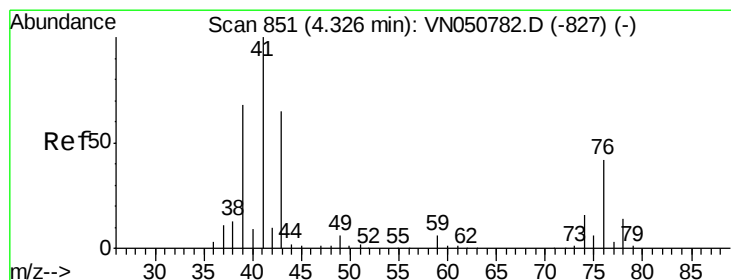
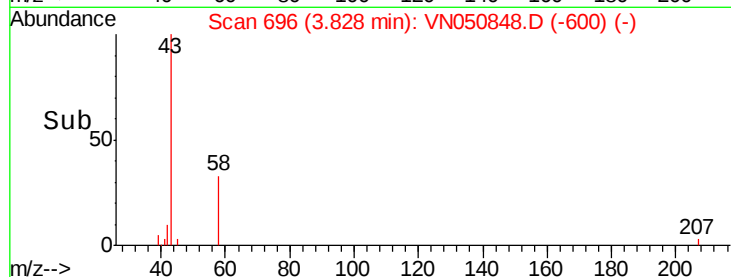
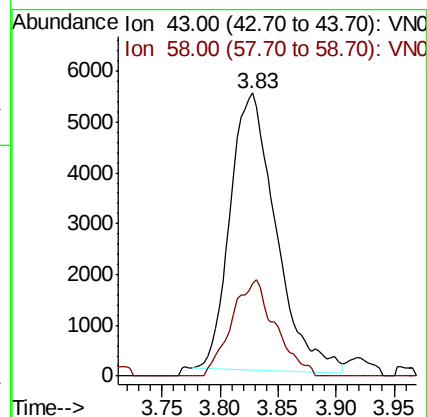
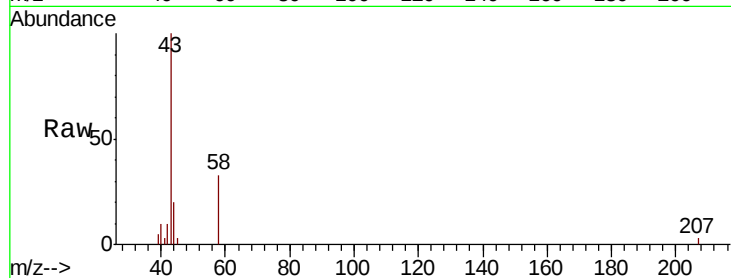




#16
Acetone
Concen: 1.29 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

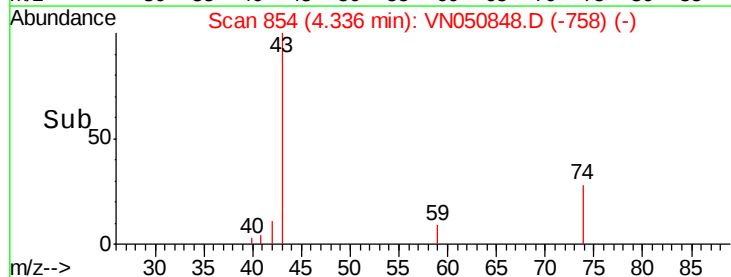
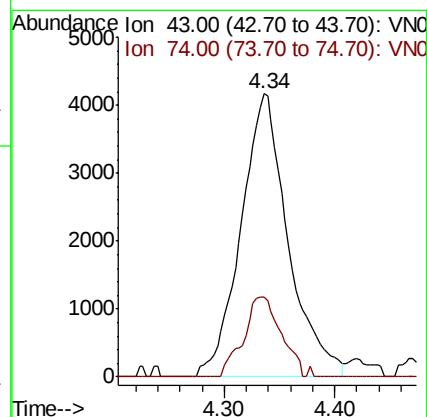
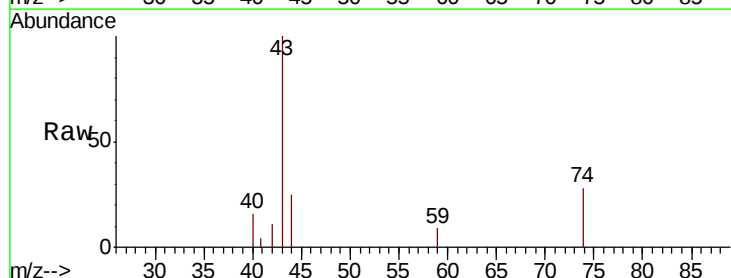
Instrument :
MSVOA_N
ClientSampleId :

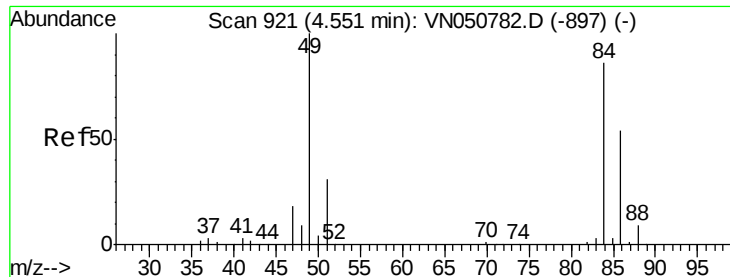
Tot Ion: 43 Resp: 14885
Ion Ratio Lower Upper
43 100
58 33.7 27.2 40.8



#18
Methyl Acetate
Concen: 1.73 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Tgt Ion: 43 Resp: 12380
Ion Ratio Lower Upper
43 100
74 22.3 19.8 29.8

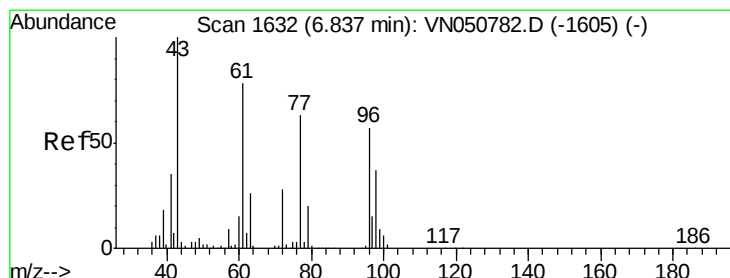
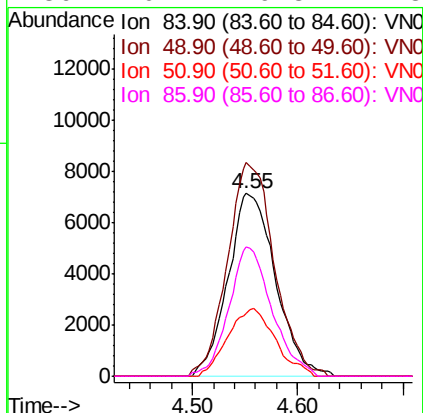
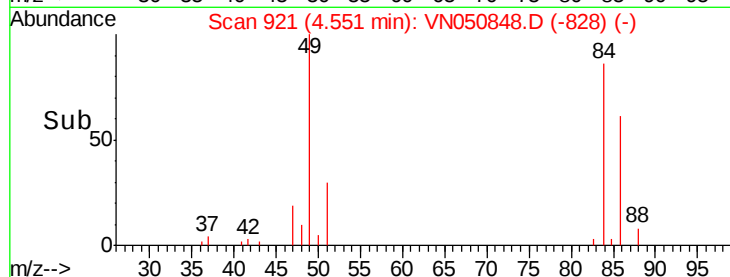
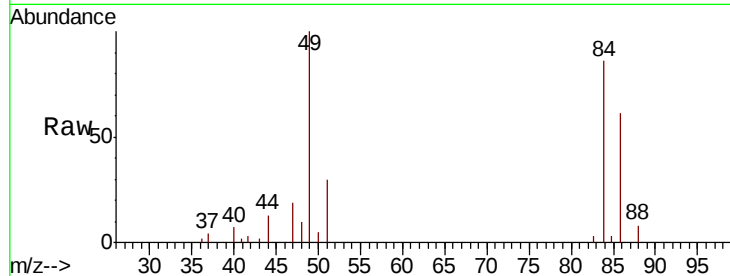




#20
Methvlene Chloride
Concen: 2.62 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

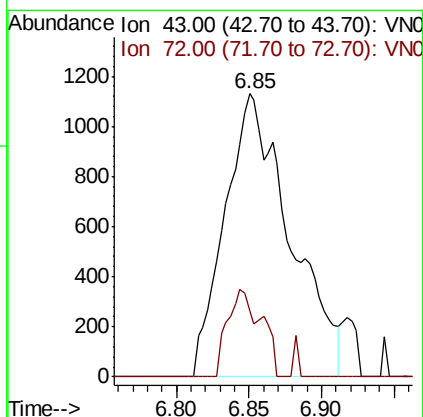
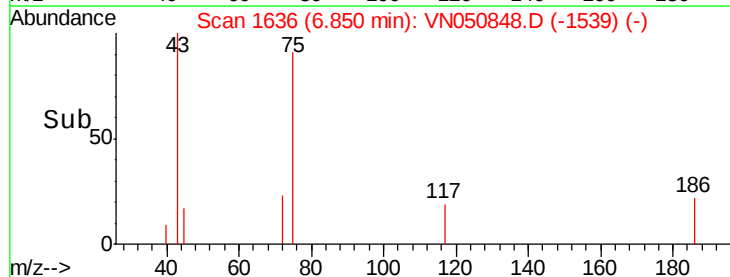
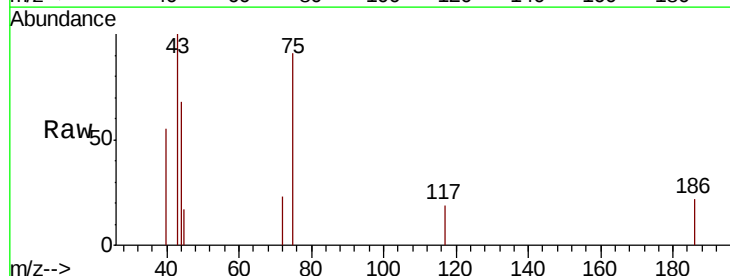
Instrument :
MSVOA_N
ClientSampled :

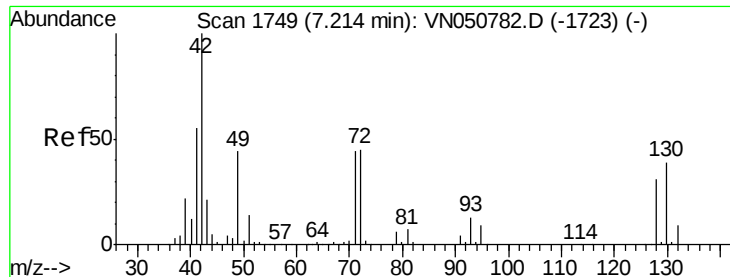
Tot Ion: 84 Resp: 22334
Ion Ratio Lower Upper
84 100
49 116.7 93.2 139.8
51 34.6 29.0 43.6
86 70.7 49.8 74.8



#25
2-Butanone
Concen: 1.16 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Tgt Ion: 43 Resp: 3519
Ion Ratio Lower Upper
43 100
72 23.3 22.3 33.5





#29

Tetrahydrofuran

Concen: 1.05 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.01 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

Instrument :

MSVOA_N

ClientSampled :

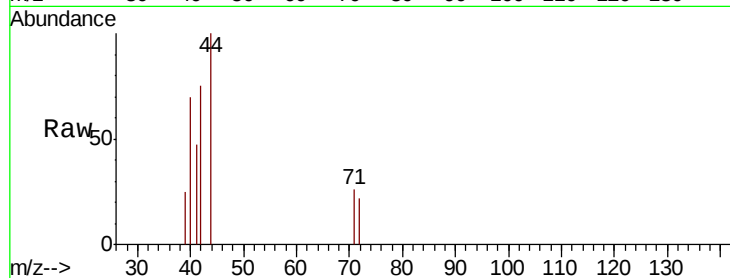
Tot Ion: 42 Resp: 1826

Ion Ratio Lower Upper

42 100

72 15.0 35.5 53.3#

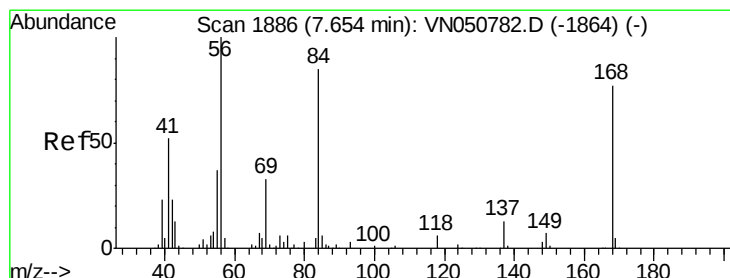
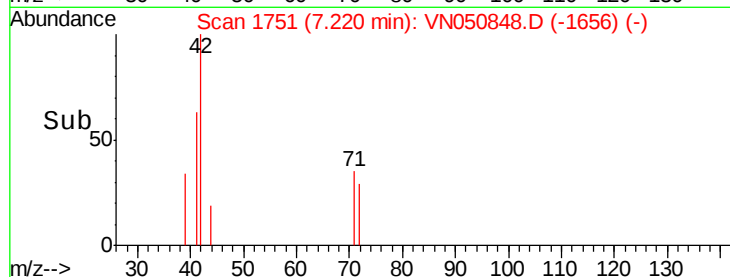
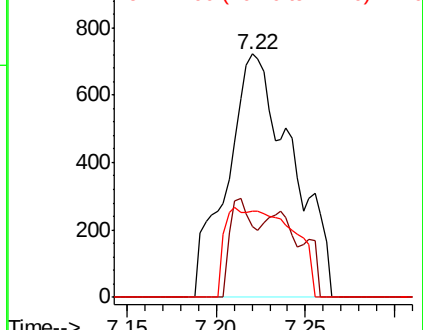
71 12.8 33.7 50.5#



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



#31

Cyclohexane

Concen: 1.27 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

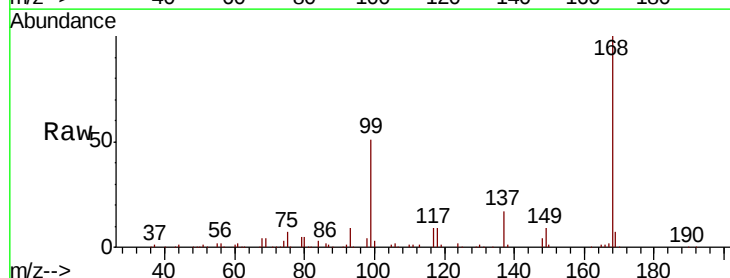
Tgt Ion: 56 Resp: 10499

Ion Ratio Lower Upper

56 100

69 210.1 26.2 39.4#

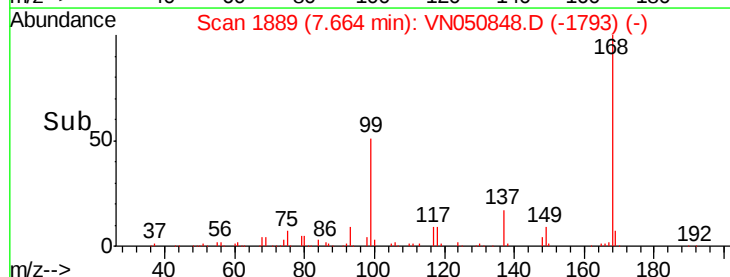
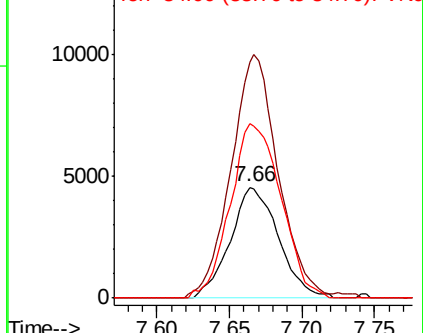
84 157.9 68.3 102.5#

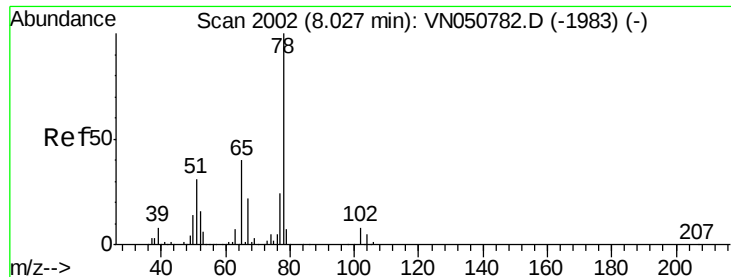


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 55.18 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

Instrument :

MSVOA_N

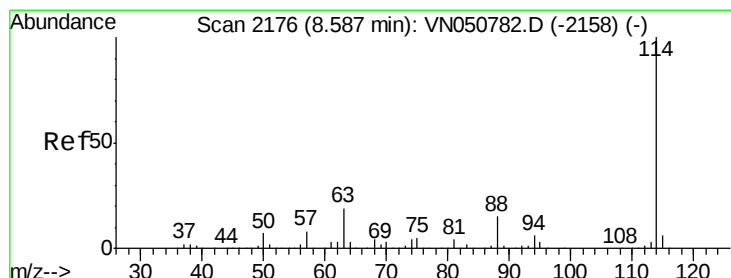
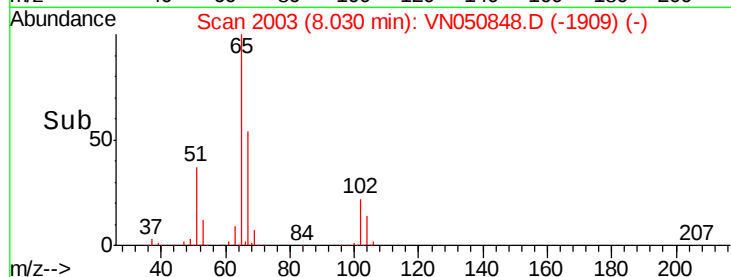
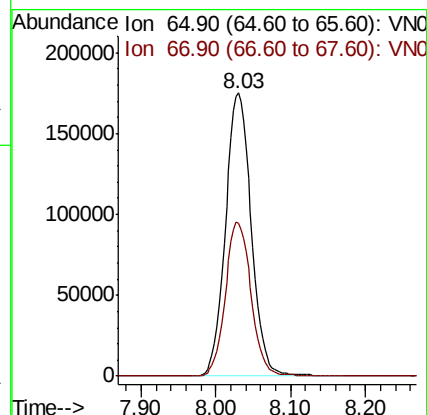
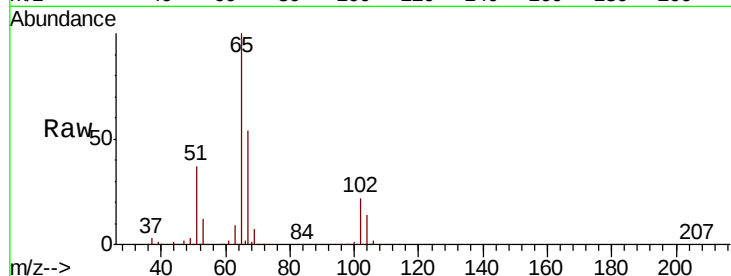
ClientSampled :

Tot Ion: 65 Resp: 417095

Ion Ratio Lower Upper

65 100

67 54.3 0.0 110.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

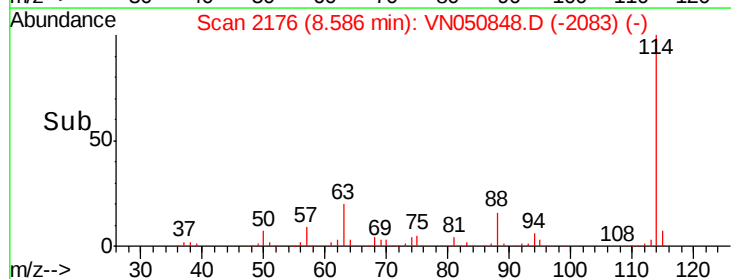
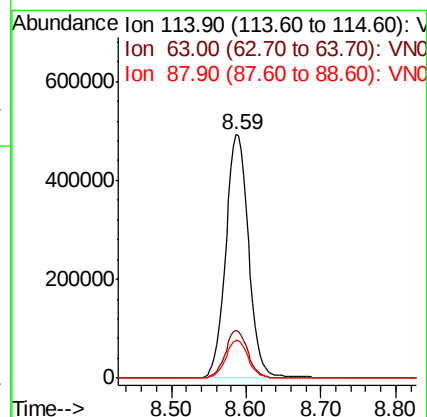
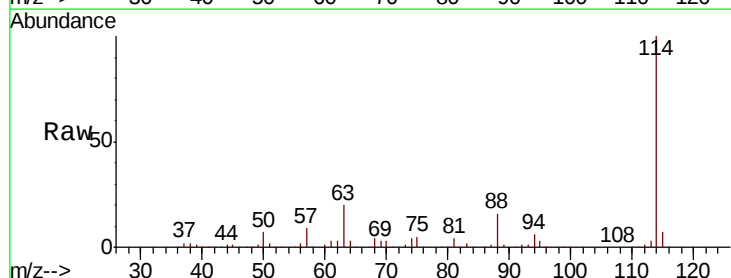
Tgt Ion: 114 Resp: 1042332

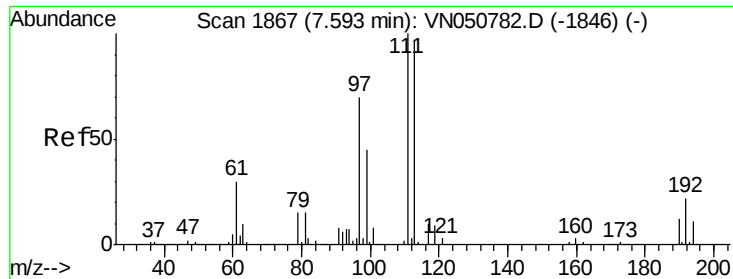
Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.6

88 15.5 0.0 30.6

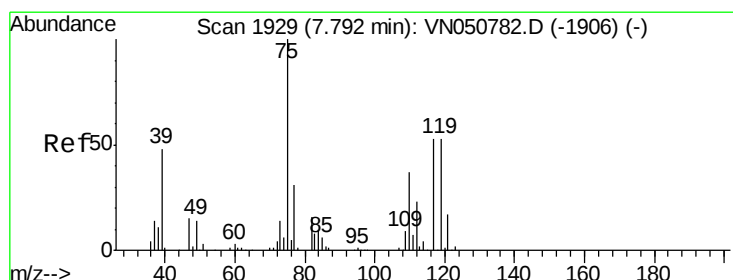
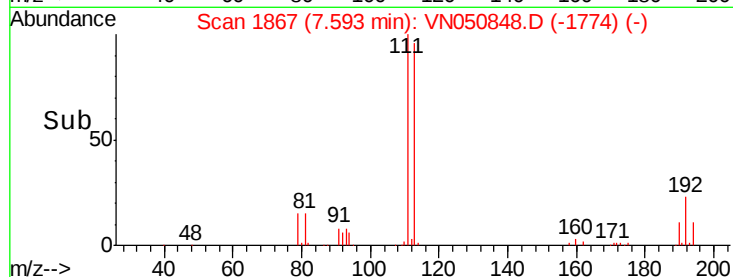
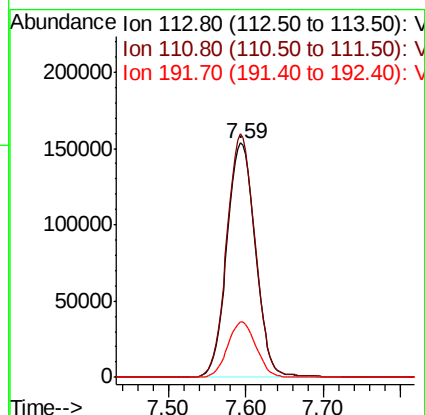
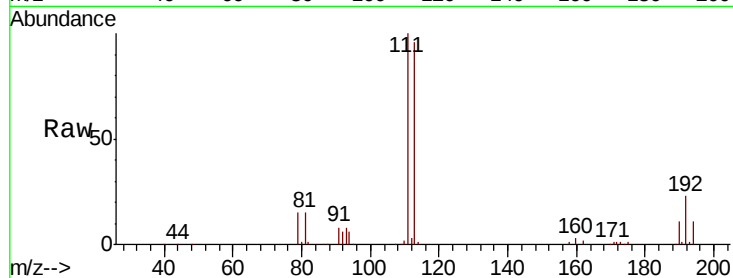




#35
 Dibromofluoromethane
 Concen: 47.44 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050848.D
 Acq: 23 Aug 2018 13:08

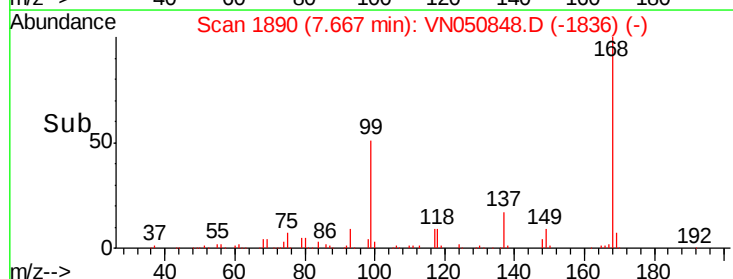
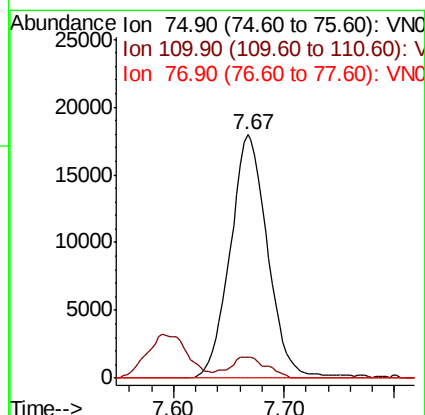
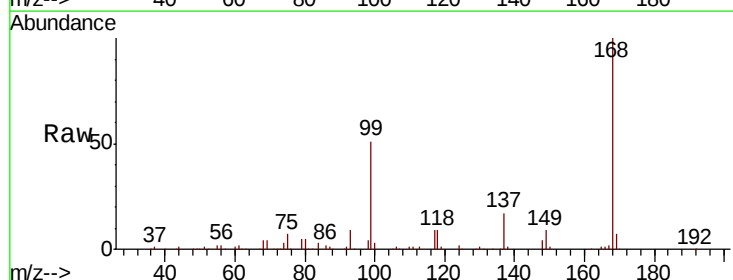
Instrument :
 MSVOA_N
 ClientSampleId :

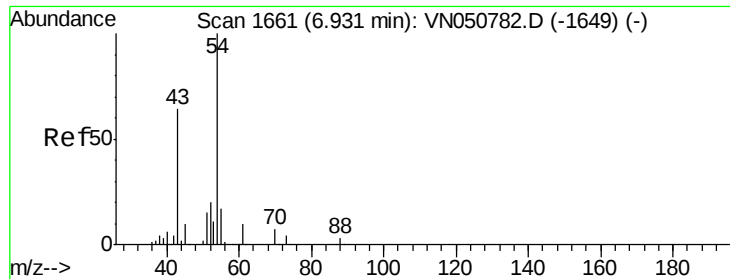
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.6	123.8
192	23.5	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.42 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050848.D
 Acq: 23 Aug 2018 13:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.4#
77	0.0	24.8	37.2#

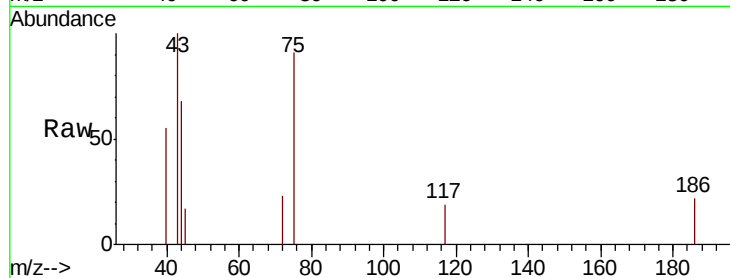




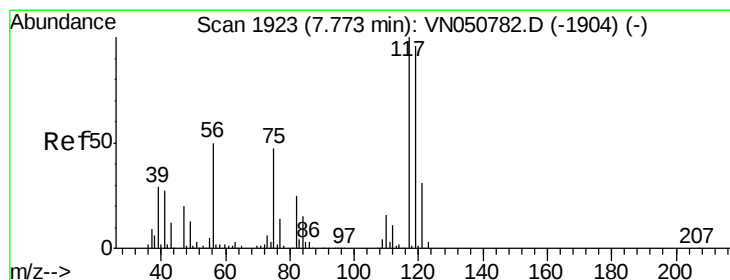
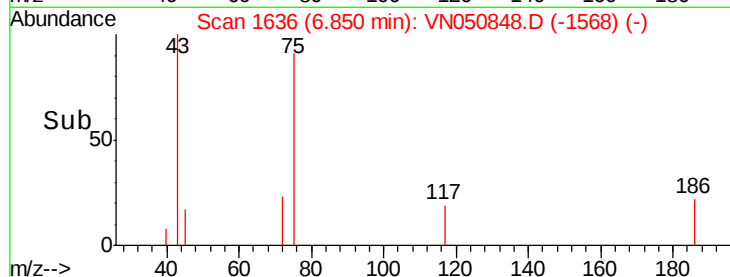
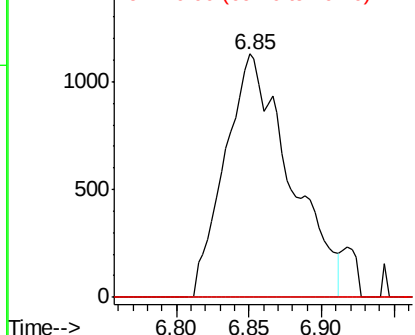
#37
Ethyl Acetate
Concen: 0.50 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3519
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 8.6 13.0#

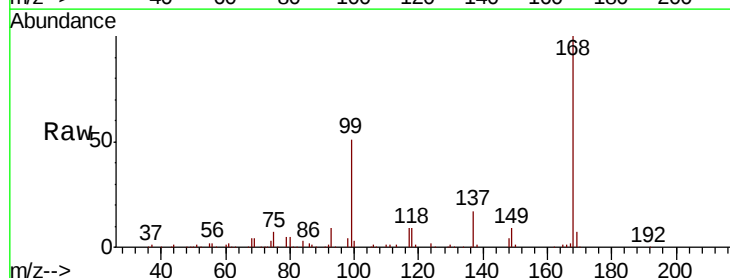


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

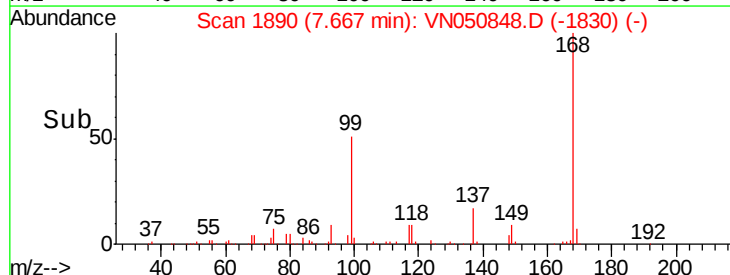
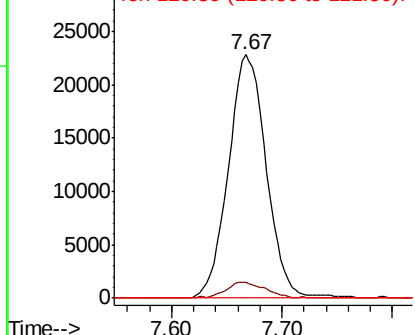


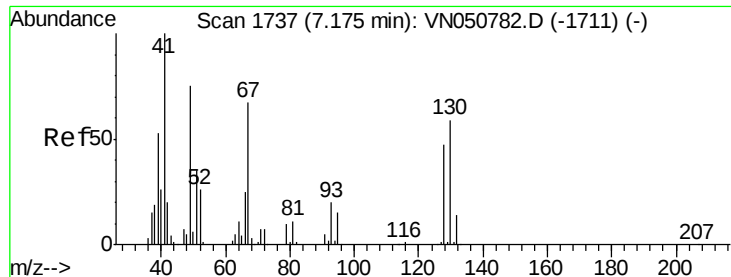
#38
Carbon Tetrachloride
Concen: 4.37 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Tgt Ion: 117 Resp: 54322
Ion Ratio Lower Upper
117 100
119 6.4 76.3 114.5#
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

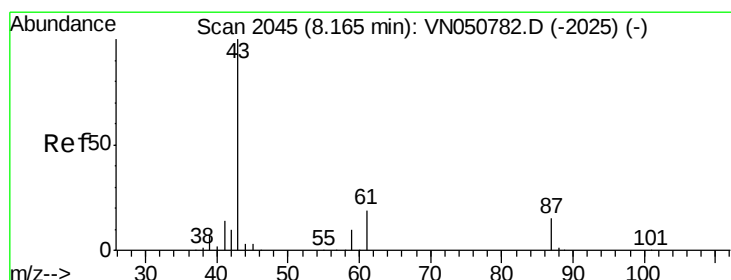
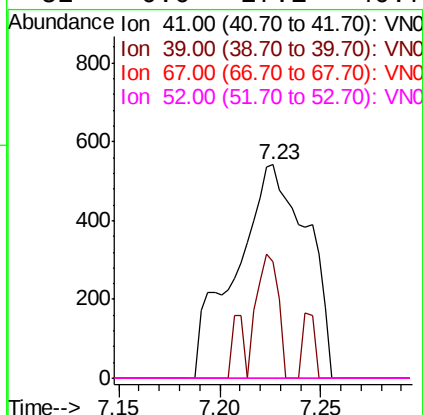
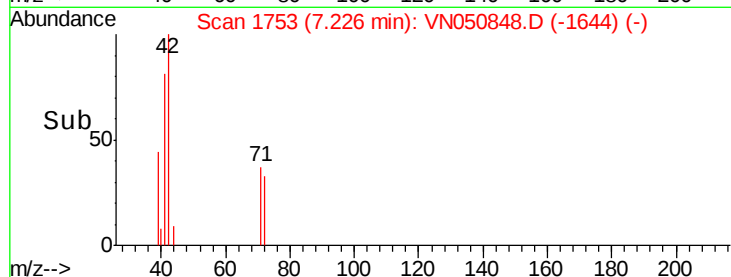
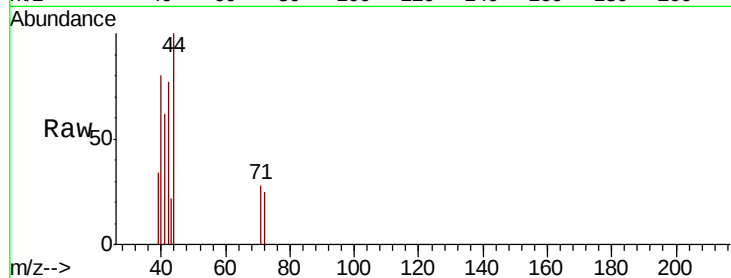




#41
Methacrylonitrile
Concen: 0.35 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.05 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

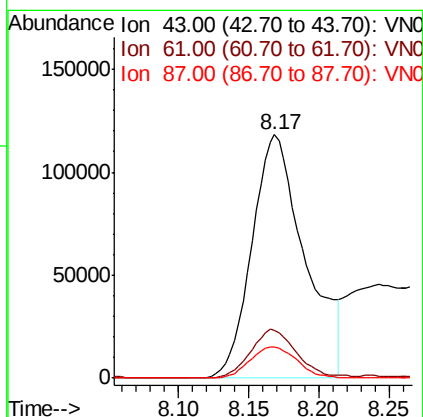
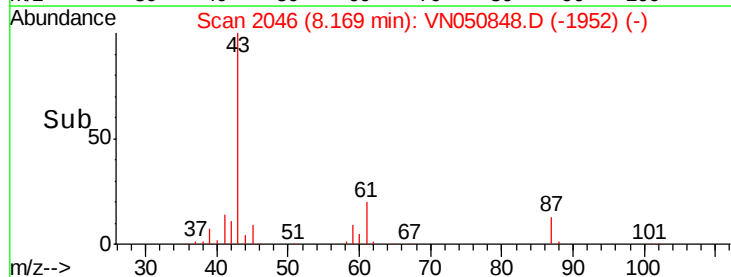
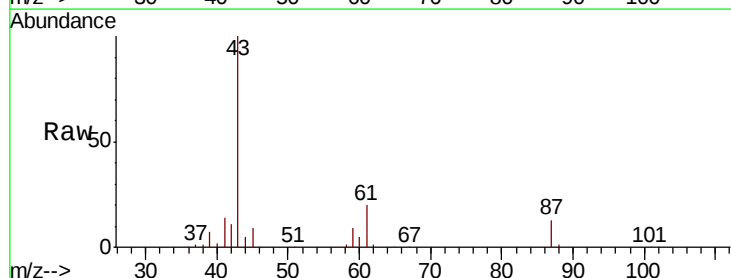
Instrument :
MSVOA_N
ClientSampleId :

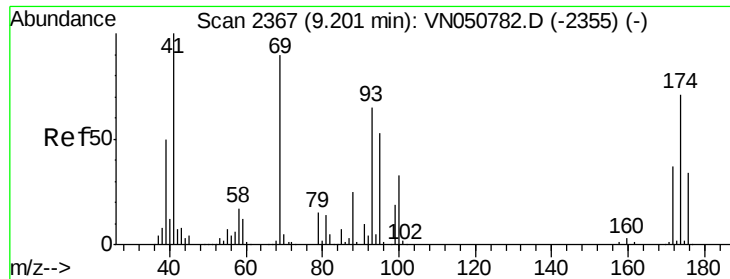
Tot Ion: 41 Resp: 1328
Ion Ratio Lower Upper
41 100
39 17.8 45.4 68.0#
67 0.0 70.6 106.0#
52 0.0 27.1 40.7#



#43
Isopropyl Acetate
Concen: 25.71 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Tgt Ion: 43 Resp: 312311
Ion Ratio Lower Upper
43 100
61 17.3 17.5 26.3#
87 11.4 11.3 16.9

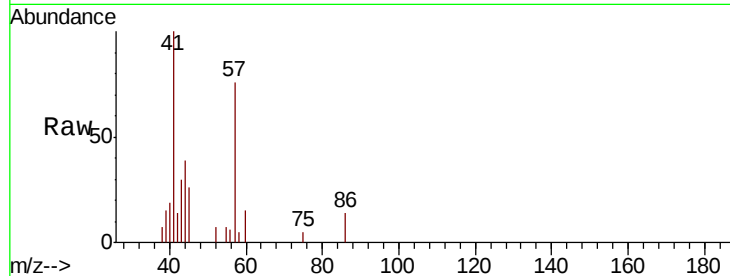




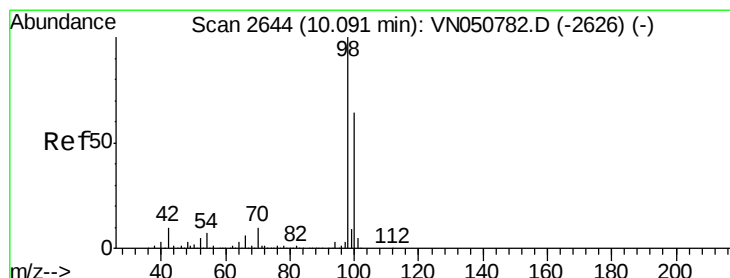
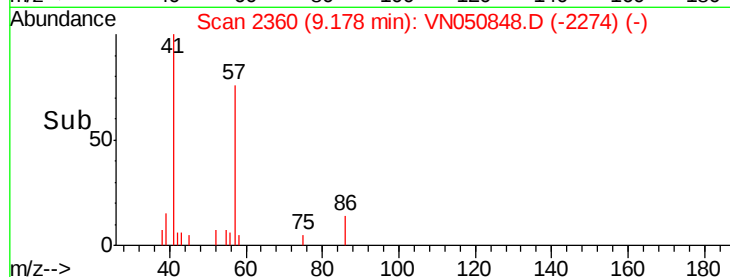
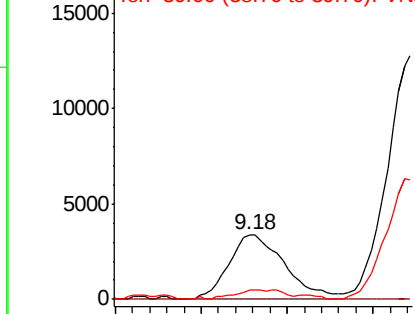
#48
Methvl methacrylate
Concen: 1.24 ug/l
RT: 9.18 min Scan# 2360
Delta R.T. -0.02 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 7694
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 12.6 42.2 63.2#

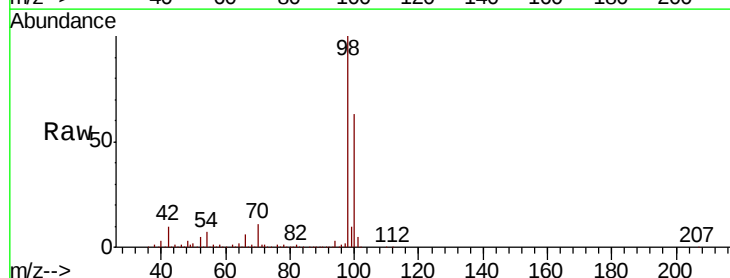


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

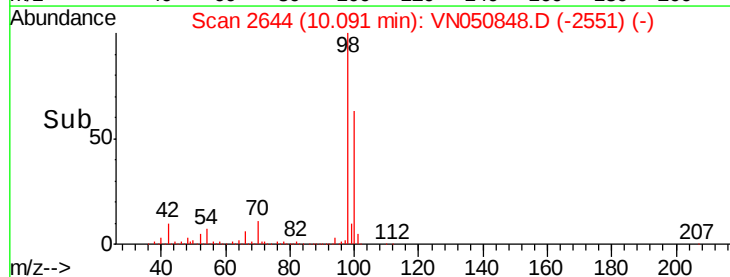
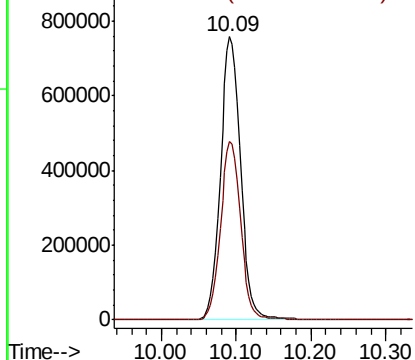


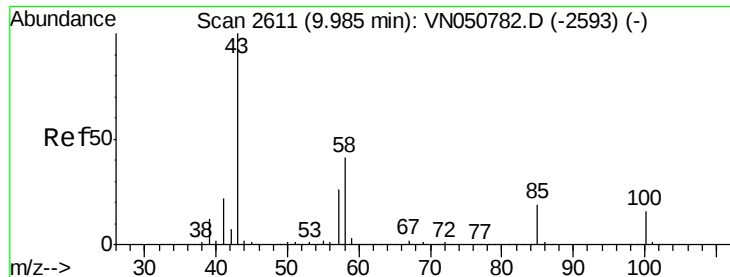
#50
Toluene-d8
Concen: 45.36 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Tgt Ion: 98 Resp: 1406219
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3



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: 0.21 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

Instrument :

MSVOA_N

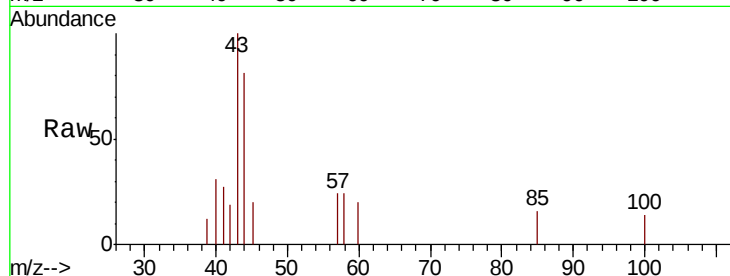
ClientSampled :

Tot Ion: 43 Resp: 1522

Ion Ratio Lower Upper

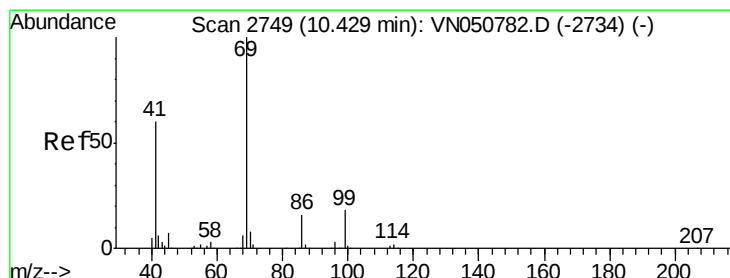
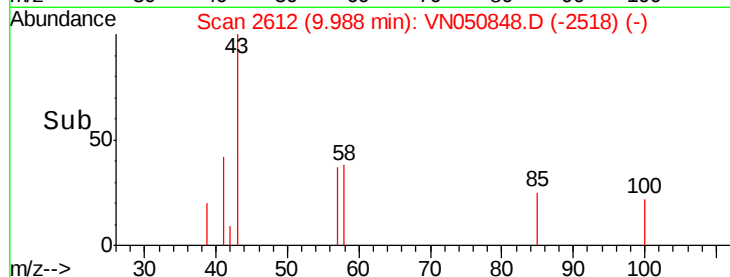
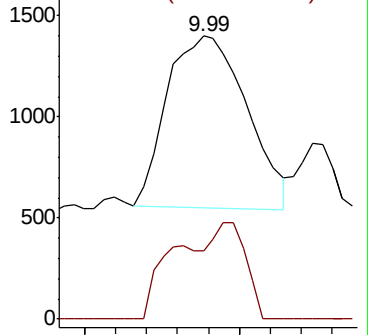
43 100

58 24.8 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.36 ug/l

RT: 10.29 min Scan# 2707

Delta R.T. -0.13 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

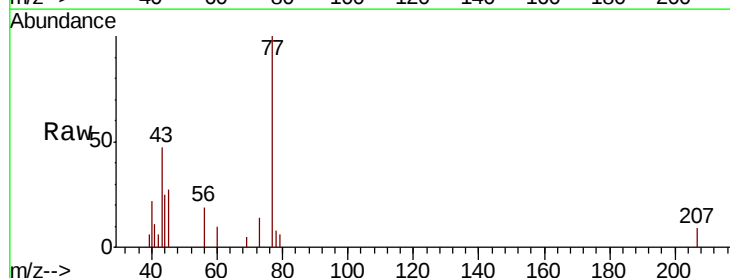
Tgt Ion: 69 Resp: 94

Ion Ratio Lower Upper

69 100

41 1088.3 48.3 72.5#

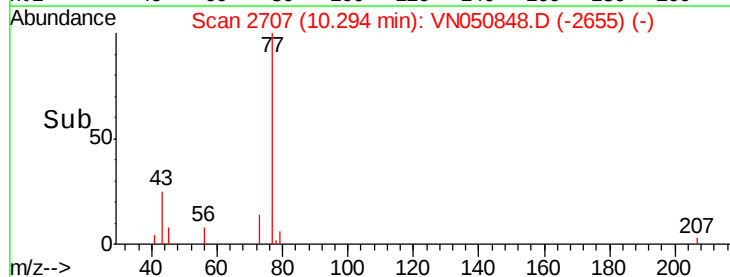
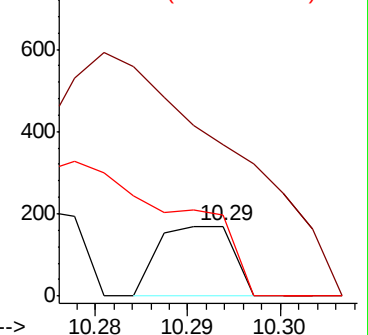
39 452.1 24.0 36.0#

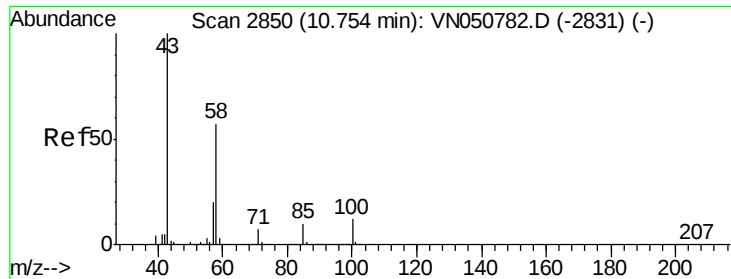


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

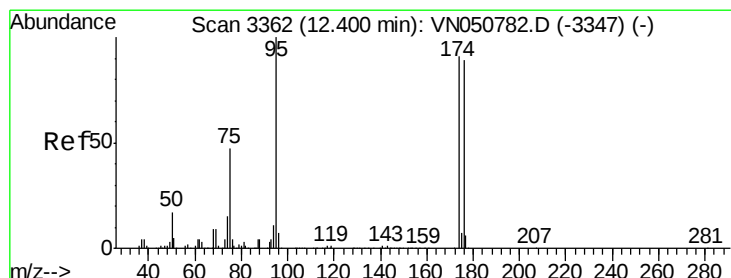
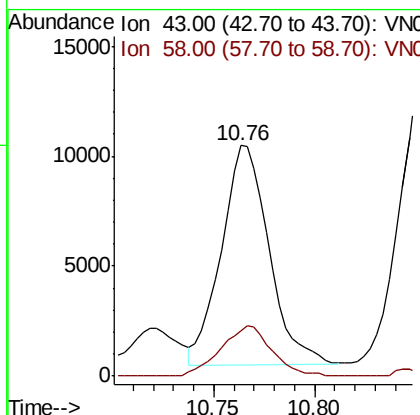
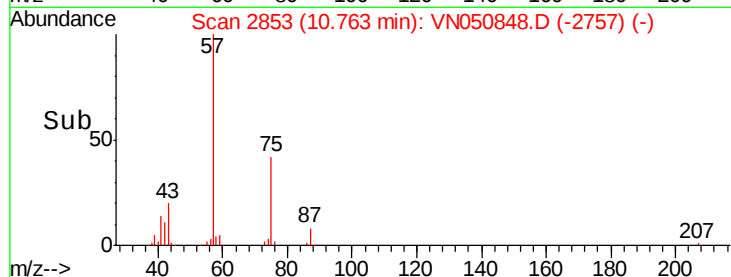
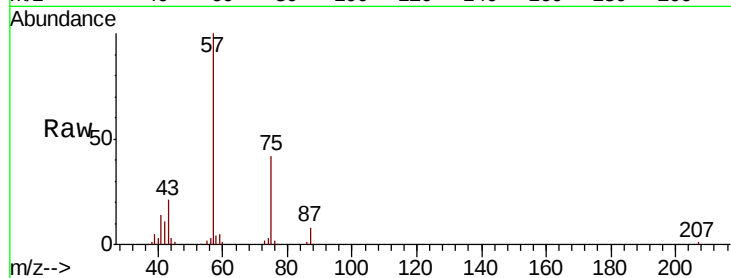




#59
2-Hexanone
Concen: 3.43 ug/l
RT: 10.76 min Scan# 2853
Delta R.T. 0.01 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

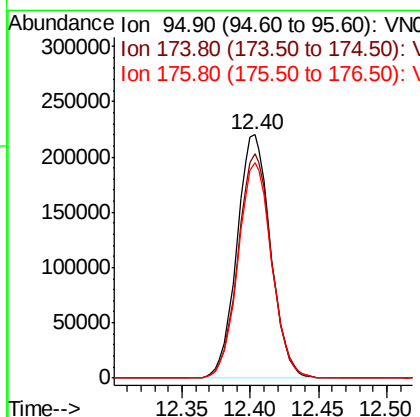
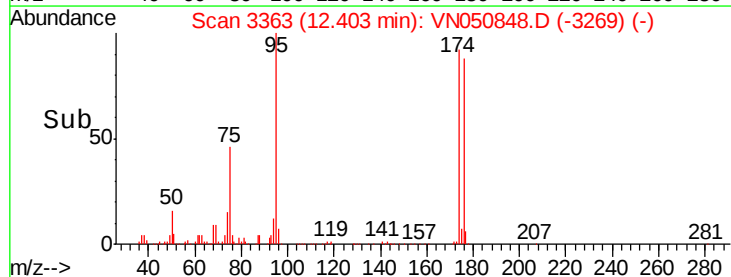
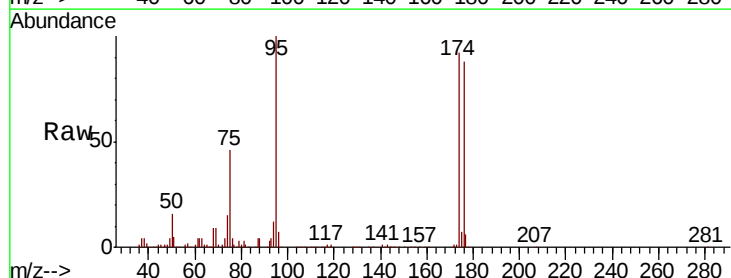
Instrument :
MSVOA_N
ClientSampled :

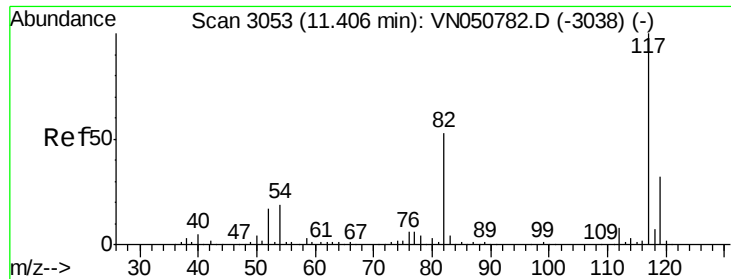
Tot Ion: 43 Resp: 16531
Ion Ratio Lower Upper
43 100
58 24.4 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 36.55 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Tgt Ion: 95 Resp: 376564
Ion Ratio Lower Upper
95 100
174 92.2 0.0 183.0
176 88.5 0.0 178.8

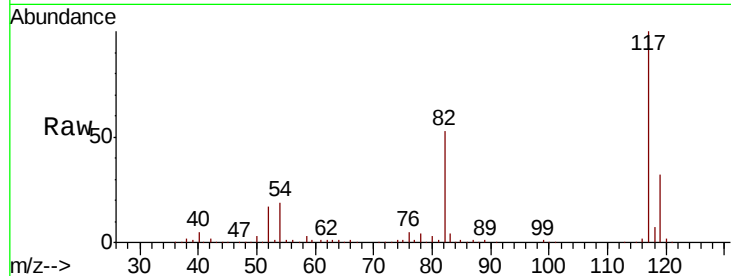




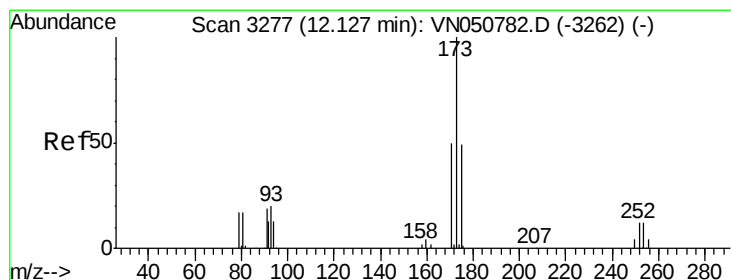
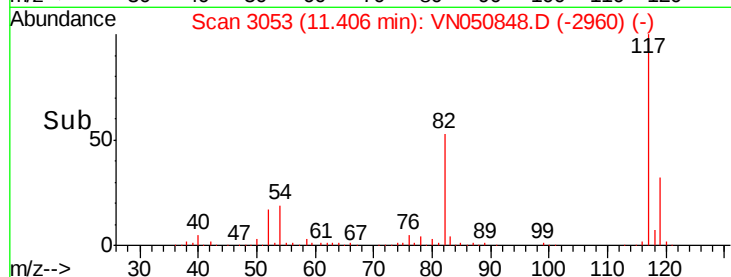
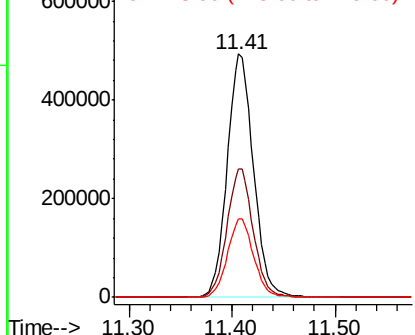
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 876347
Ion Ratio Lower Upper
117 100
82 53.0 42.6 64.0
119 32.1 25.8 38.6

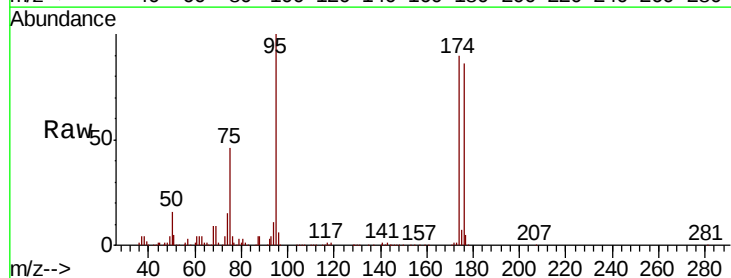


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

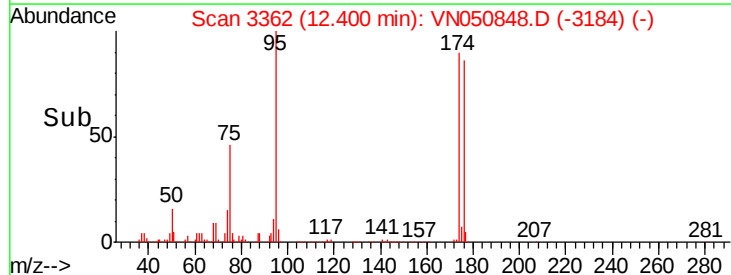
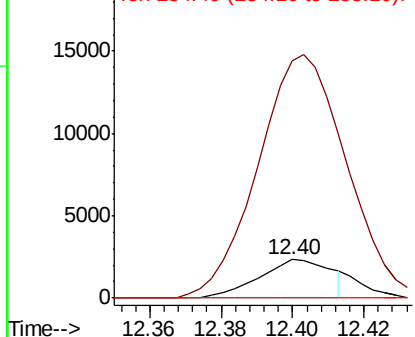


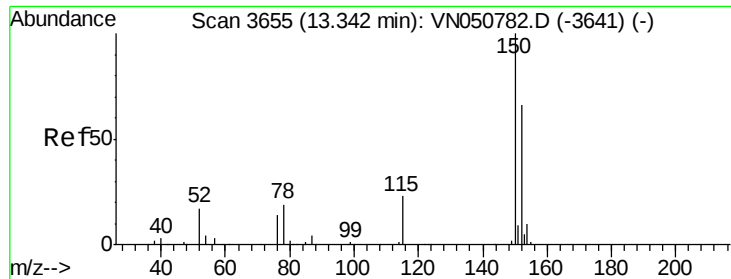
#71
Bromoform
Concen: 0.56 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Tgt Ion:173 Resp: 3242
Ion Ratio Lower Upper
173 100
175 658.2 24.4 73.4#
254 0.0 0.1 0.1#



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# 3656

Delta R.T. 0.00 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

Instrument :

MSVOA_N

ClientSampleId :

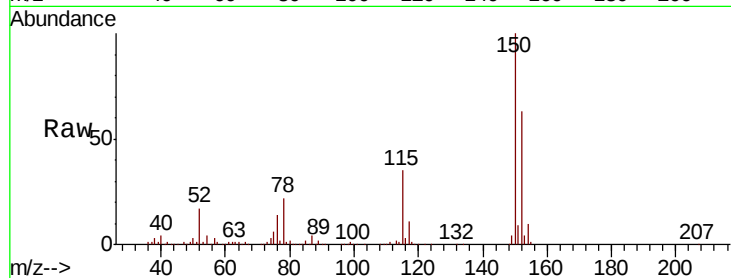
Tot Ion:152 Resp: 294370

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.4

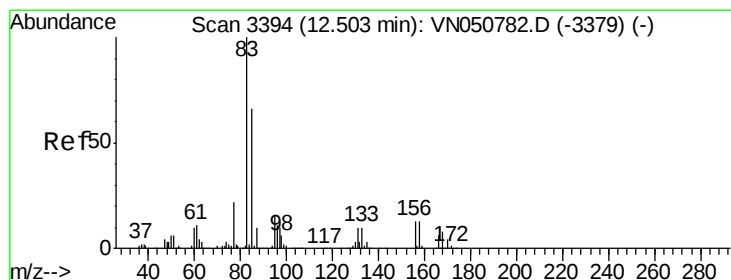
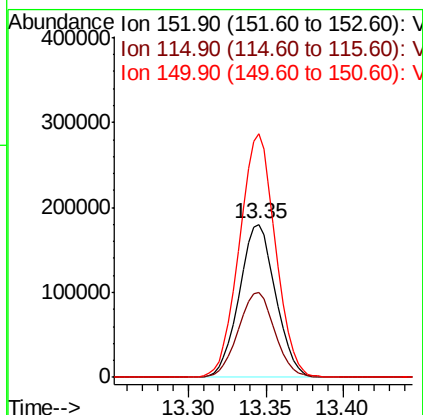
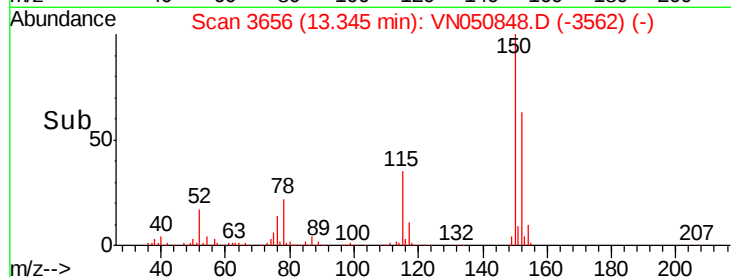
150 158.2 0.0 351.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3366

Delta R.T. -0.09 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

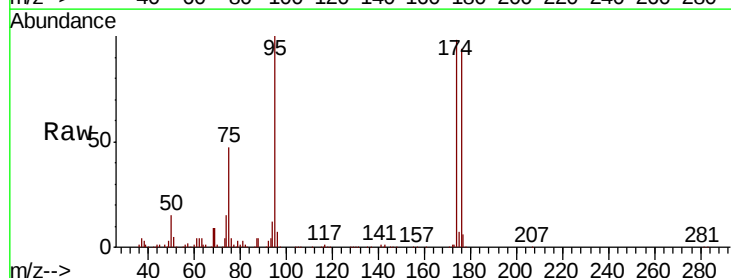
Tgt Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

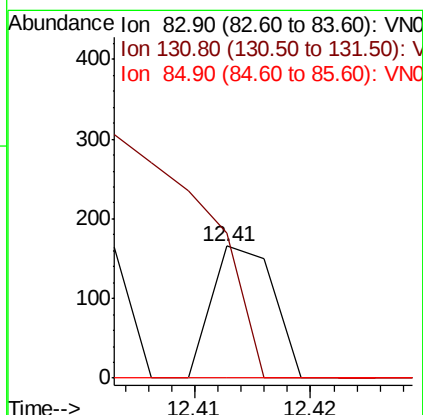
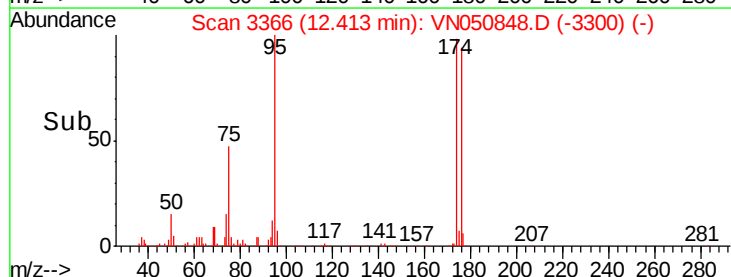
85 0.0 31.9 95.7#

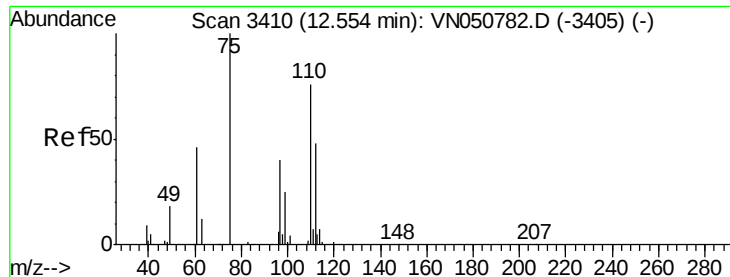


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 34.25 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

Instrument :

MSVOA_N

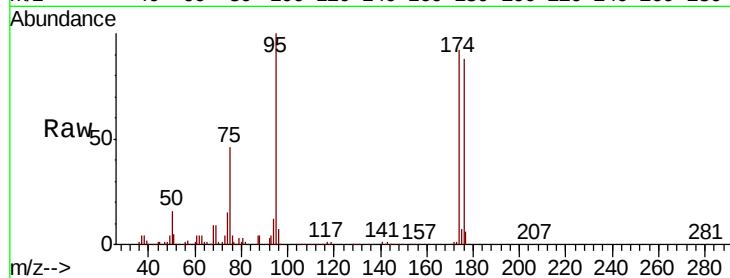
ClientSampled :

Tot Ion: 75 Resp: 176600

Ion Ratio Lower Upper

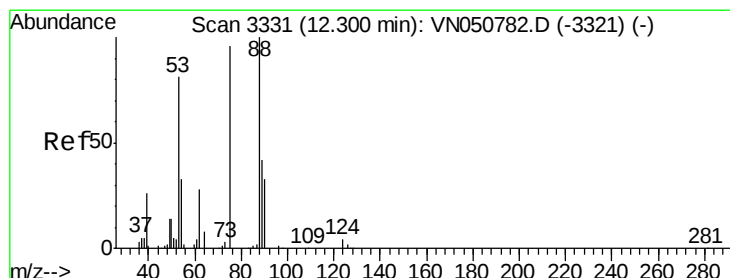
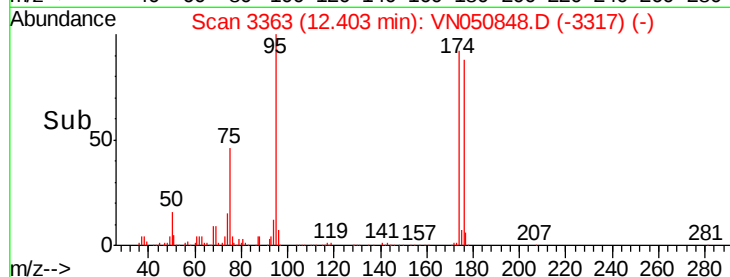
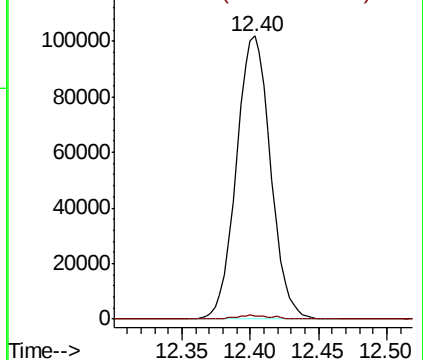
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 115.79 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050848.D

Acq: 23 Aug 2018 13:08

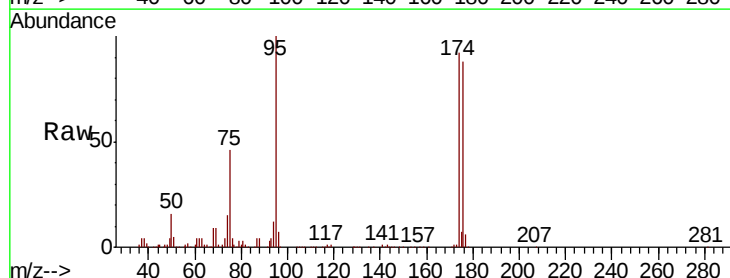
Tgt Ion: 75 Resp: 176600

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

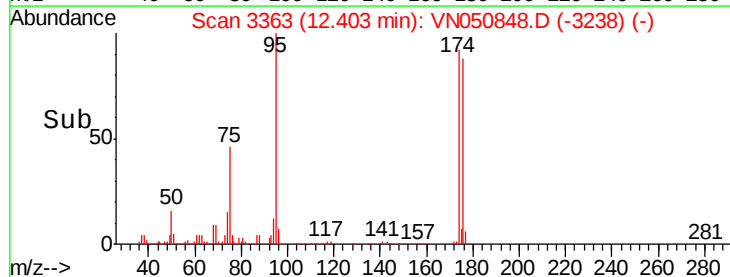
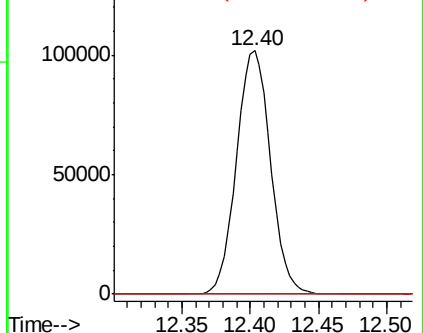
89 0.0 36.1 54.1#

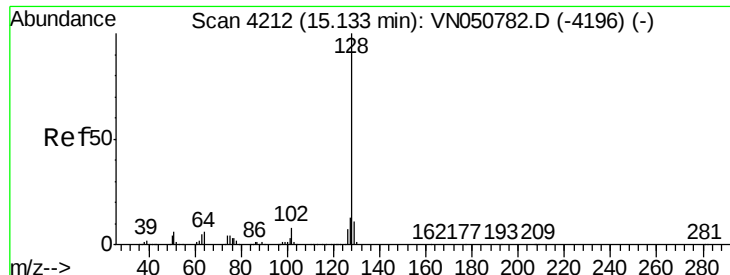


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

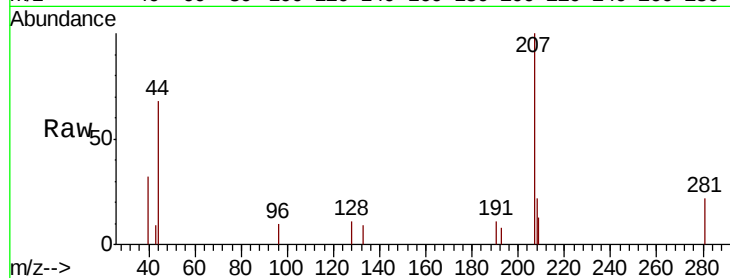




#95
Naphthalene
Concen: 5.42 ug/l
RT: 15.13 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN050848.D
Acq: 23 Aug 2018 13:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.7	13.1#



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

