

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050544.D
 Acq On : 11 Aug 2018 2:55
 Operator : MD\SY
 Sample : J4272-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 JC-03-080918-B

Quant Time: Aug 11 05:01:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	623256	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1037232	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	897130	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	355665	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	432936	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
35) Dibromofluoromethane	7.59	113	396852	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	10.09	98	1420769	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	
62) 4-Bromofluorobenzene	12.40	95	408109	38.27	ug/l	0.00
Spiked Amount			Recovery	=	76.54%	

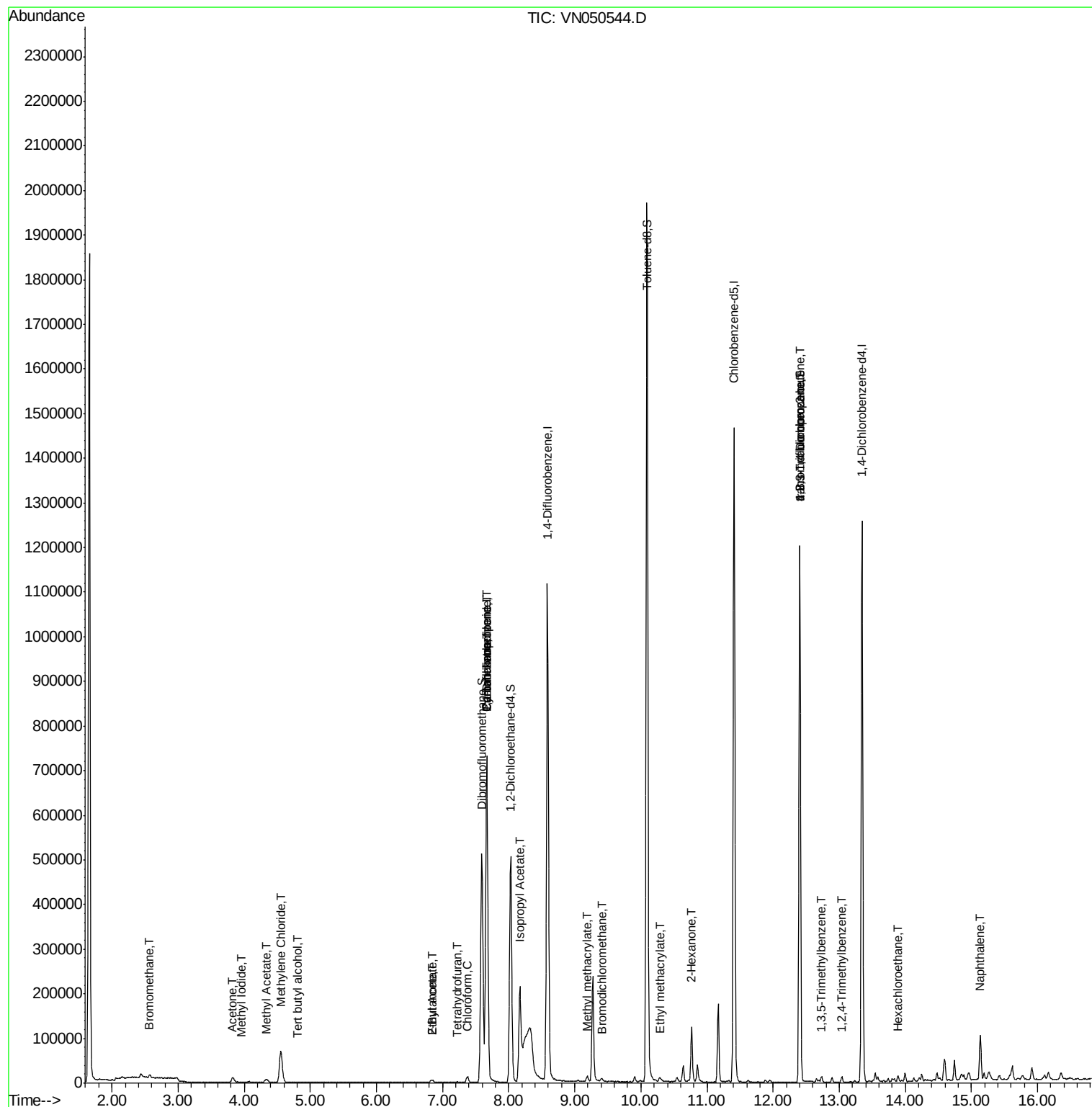
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2626	Below Cal		91
5) Bromomethane	2.57	94	3885	1.06	ug/l	93
10) Methyl Iodide	3.95	142	800	0.25	ug/l #	78
11) Tert butyl alcohol	4.80	59	384	0.57	ug/l #	72
16) Acetone	3.82	43	19181	7.37	ug/l	95
18) Methyl Acetate	4.33	43	16603	2.39	ug/l #	70
20) Methylene Chloride	4.55	84	55320	5.92	ug/l	96
25) 2-Butanone	6.84	43	3994	0.97	ug/l #	86
29) Tetrahydrofuran	7.22	42	1171	0.53	ug/l #	47
30) Chloroform	7.37	83	14954	1.10	ug/l	95
31) Cyclohexane	7.66	56	11982	0.38	ug/l #	2
36) 1,1-Dichloropropene	7.67	75	42506	3.73	ug/l #	48
37) Ethyl Acetate	6.84	43	3994	0.49	ug/l #	67
38) Carbon Tetrachloride	7.67	117	55884	4.70	ug/l #	16
43) Isopropyl Acetate	8.17	43	265365	18.73	ug/l	96
47) Bromodichloromethane	9.41	83	3511	0.30	ug/l #	89
48) Methyl methacrylate	9.18	41	7639	1.08	ug/l #	21
56) Ethyl methacrylate	10.28	69	247	1.73	ug/l #	1
59) 2-Hexanone	10.77	43	17090	2.40	ug/l #	61
76) 1,2,3-Trichloropropane	12.40	75	193688	30.09	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5036	0.23	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	193688	105.71	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	7128	0.32	ug/l	100
90) Hexachloroethane	13.89	117	844	0.22	ug/l #	4
95) Naphthalene	15.13	128	88081	8.36	ug/l	99

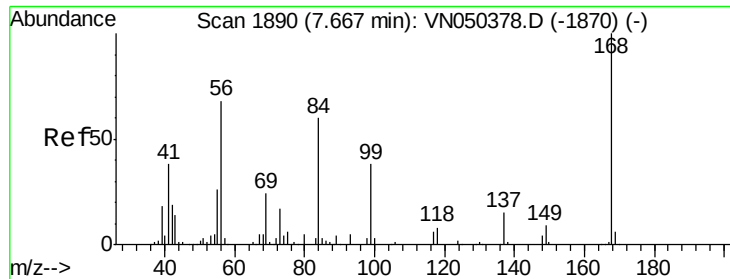
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 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: VN050544.D

Acq: 11 Aug 2018 2:55

Instrument :

MSVOA_N

ClientSampleId :

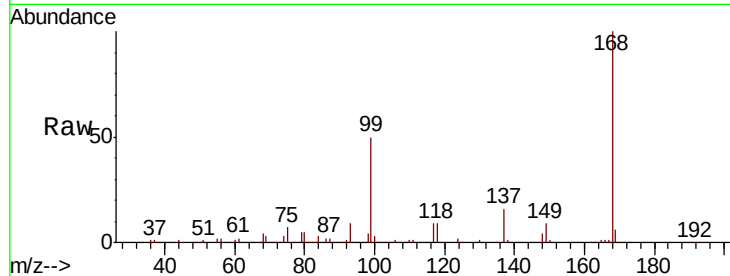
JC-03-080918-B

Tot Ion:168 Resp: 623256

Ion Ratio Lower Upper

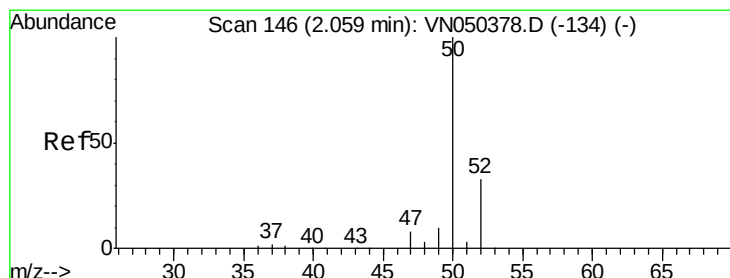
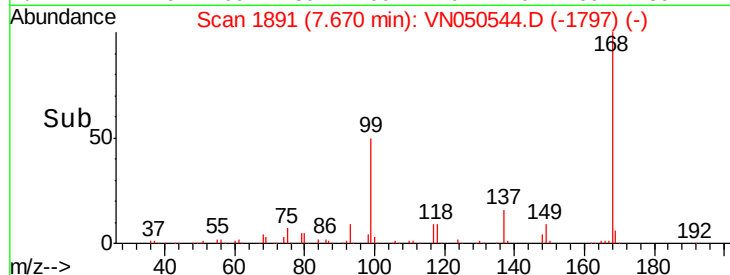
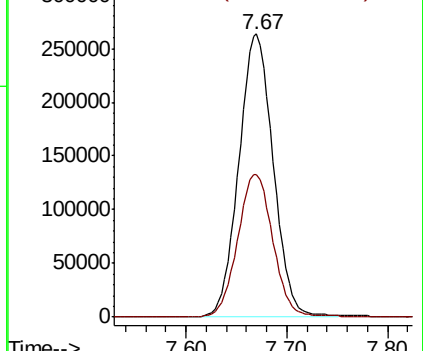
168 100

99 50.4 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050544.D

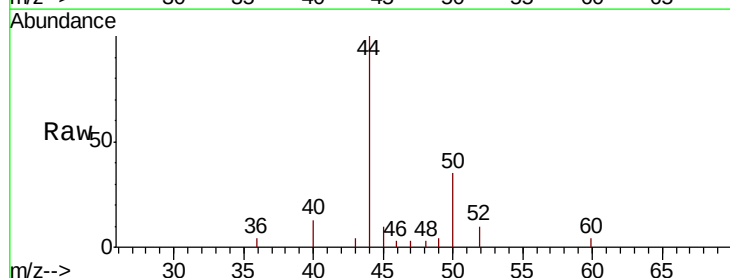
Acq: 11 Aug 2018 2:55

Tgt Ion: 50 Resp: 2626

Ion Ratio Lower Upper

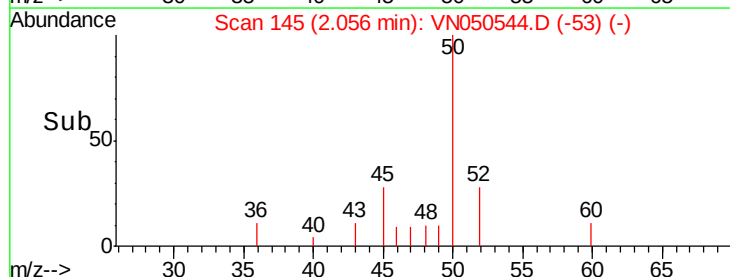
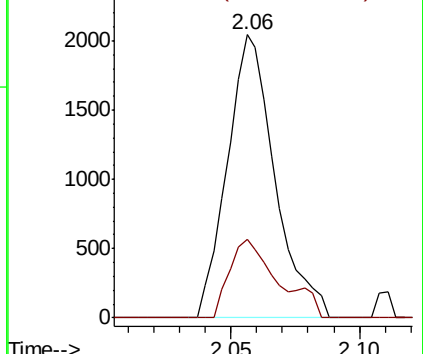
50 100

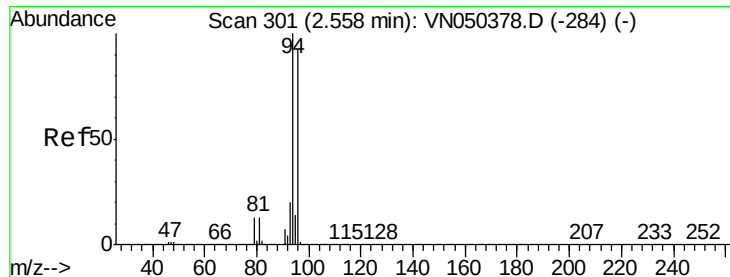
52 27.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#5

Bromomethane

Concen: 1.06 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

Instrument :

MSVOA_N

ClientSampleId :

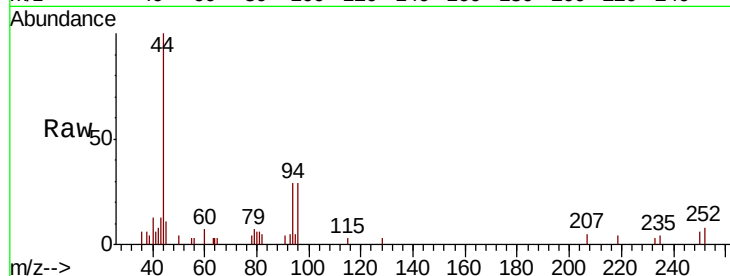
JC-03-080918-B

Tot Ion: 94 Resp: 3885

Ion Ratio Lower Upper

94 100

96 99.7 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050378.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050544.D (-207) (-)

2000

1500

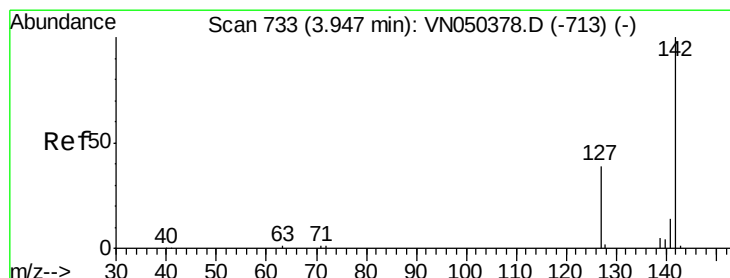
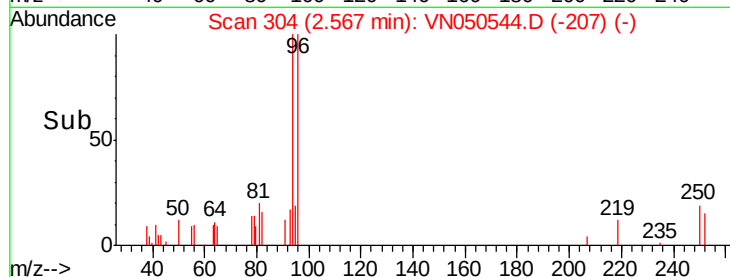
1000

500

0

2.50 2.55 2.60 2.65

Time-->



#10

Methyl Iodide

Concen: 0.25 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.01 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

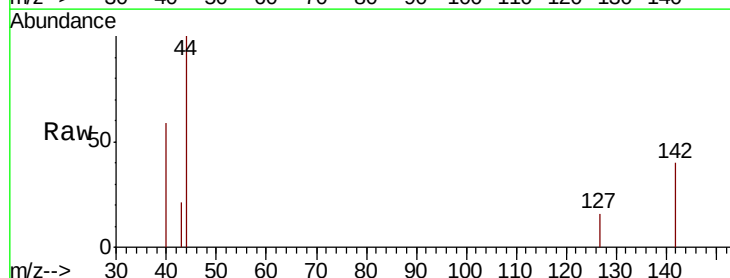
Tgt Ion: 142 Resp: 800

Ion Ratio Lower Upper

142 100

127 31.0 33.4 50.2#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VN050378.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050544.D (-639) (-)

Ion 140.80 (140.50 to 141.50): VN050544.D (-639) (-)

600

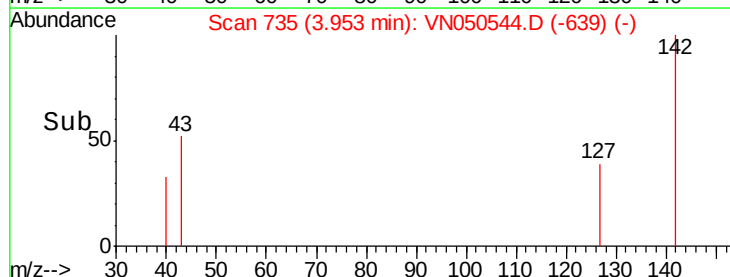
400

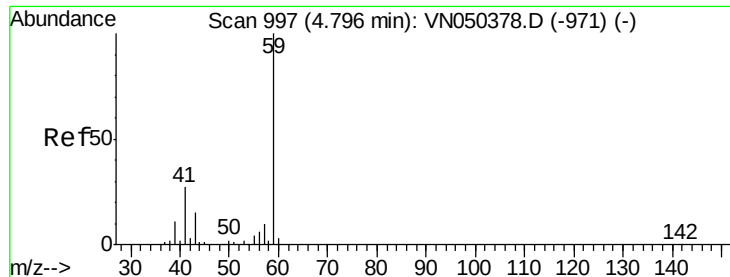
200

0

3.92 3.94 3.96 3.98

Time-->

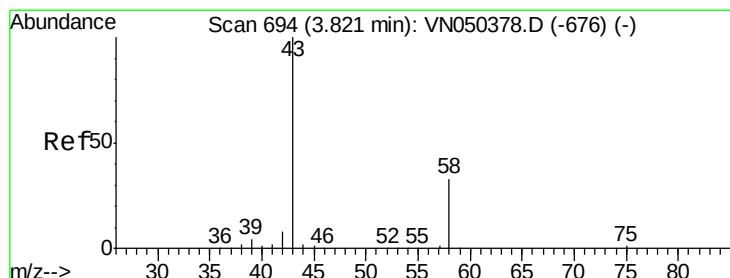
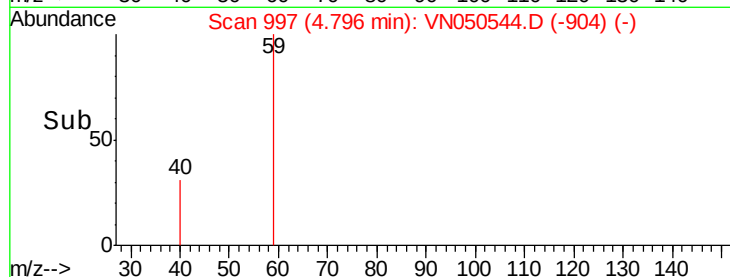
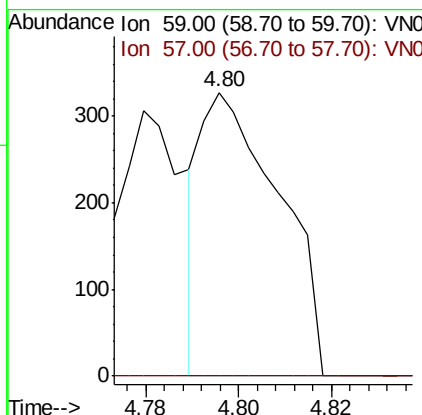
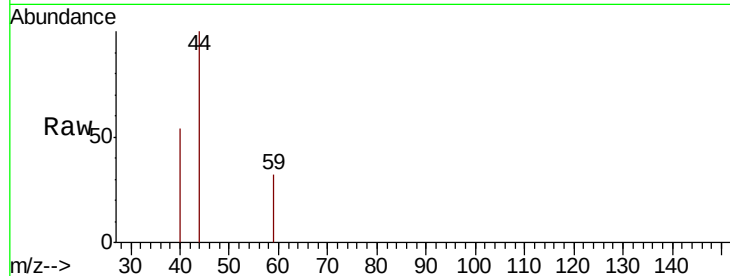




#11
Tert butyl alcohol
Concen: 0.57 ug/l
RT: 4.80 min Scan# 997
Delta R.T. -0.00 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

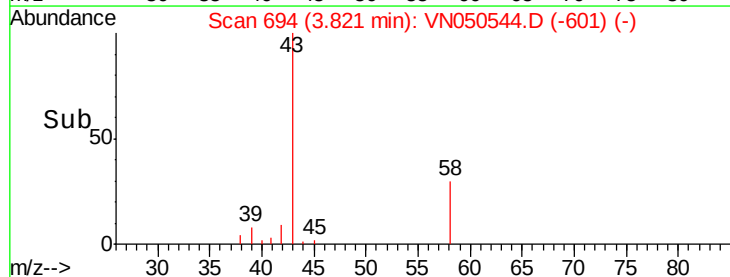
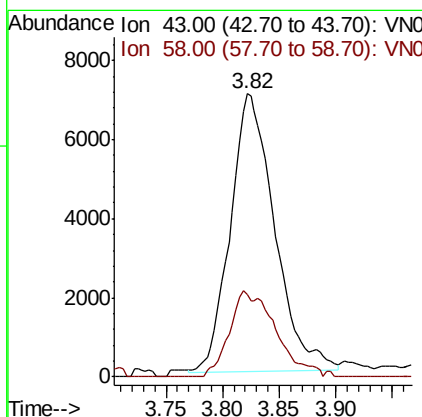
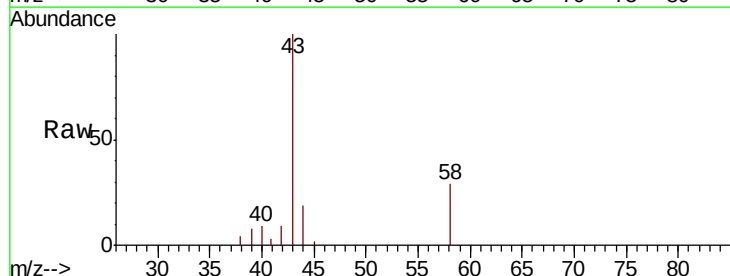
Instrument :
MSVOA_N
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JC-03-080918-B

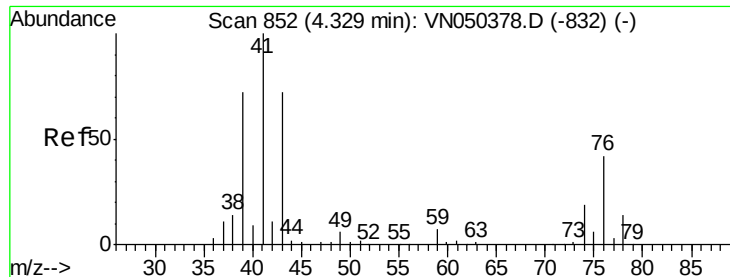
Tot Ion: 59 Resp: 384
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 7.37 ug/l
RT: 3.82 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

Tgt Ion: 43 Resp: 19181
Ion Ratio Lower Upper
43 100
58 29.7 25.8 38.8

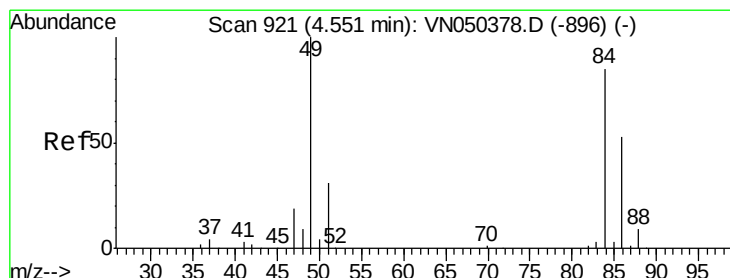
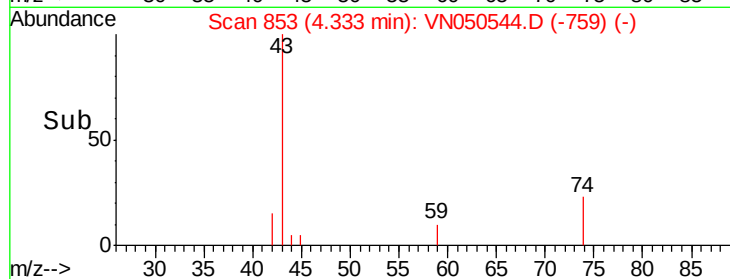
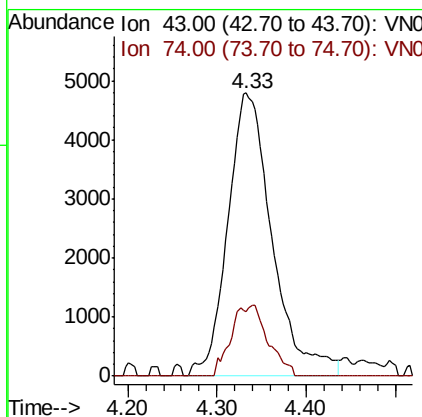
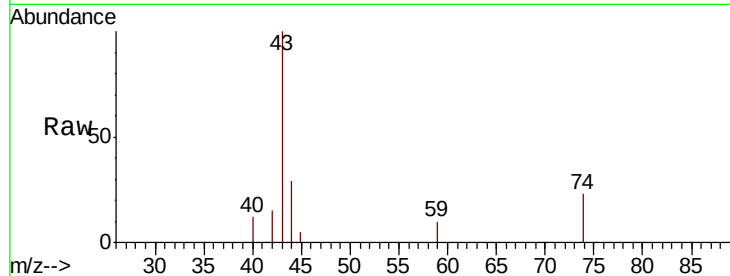




#18
Methyl Acetate
Concen: 2.39 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

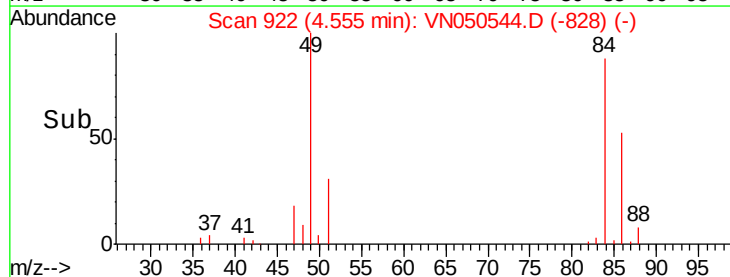
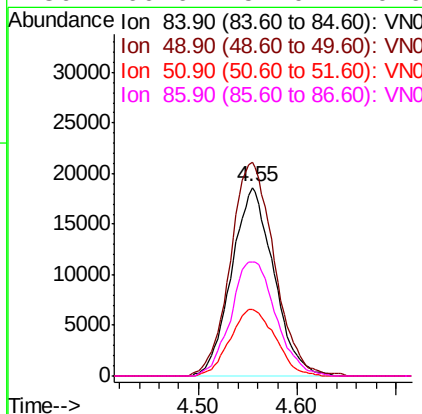
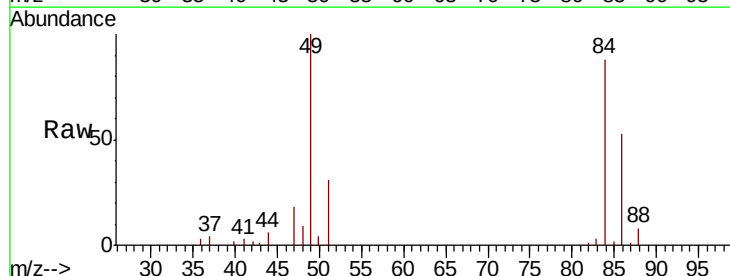
Instrument :
MSVOA_N
ClientSampleId :
JC-03-080918-B

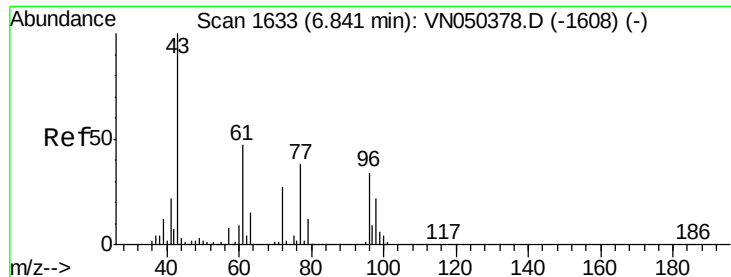
Tot Ion: 43 Resp: 16603
Ion Ratio Lower Upper
43 100
74 9.2 19.2 28.8#



#20
Methylene Chloride
Concen: 5.92 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

Tgt Ion: 84 Resp: 55320
Ion Ratio Lower Upper
84 100
49 113.5 94.8 142.2
51 35.4 28.3 42.5
86 60.6 51.0 76.6





#25

2-Butanone

Concen: 0.97 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

Instrument :

MSVOA_N

ClientSampleId :

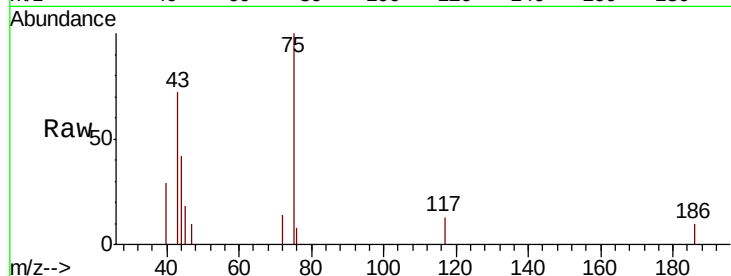
JC-03-080918-B

Tot Ion: 43 Resp: 3994

Ion Ratio Lower Upper

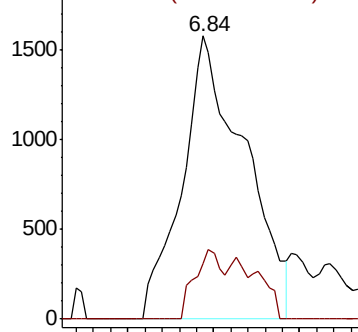
43 100

72 19.7 21.5 32.3#

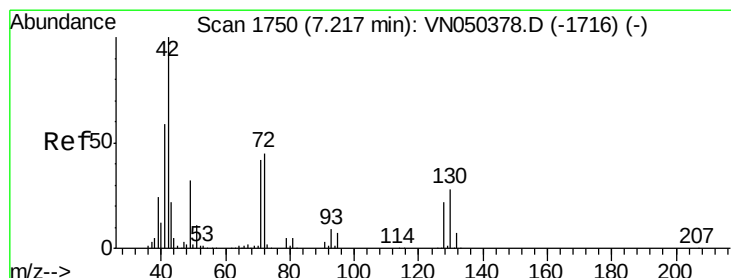
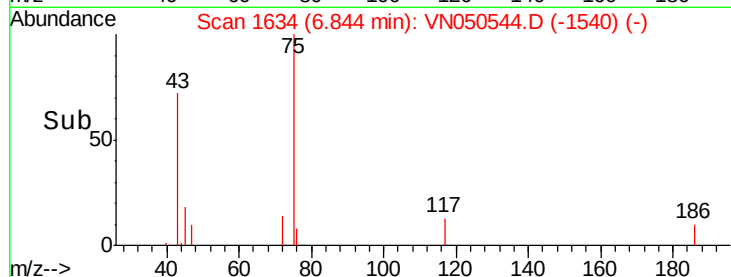


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->



#29

Tetrahydrofuran

Concen: 0.53 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

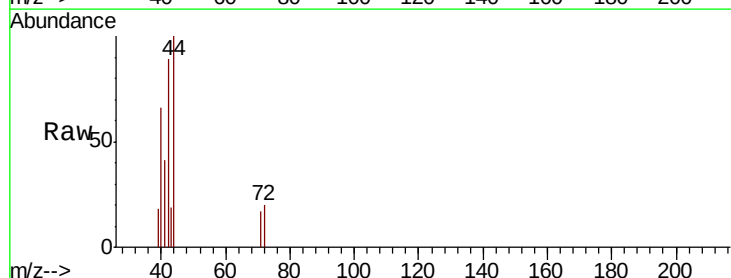
Tgt Ion: 42 Resp: 1171

Ion Ratio Lower Upper

42 100

72 9.6 35.9 53.9#

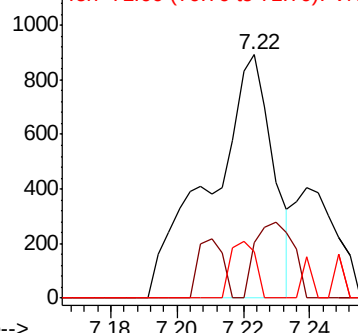
71 9.2 33.7 50.5#



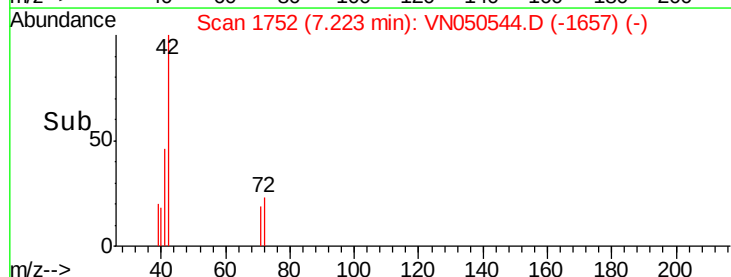
Abundance Ion 42.00 (41.70 to 42.70): VN0

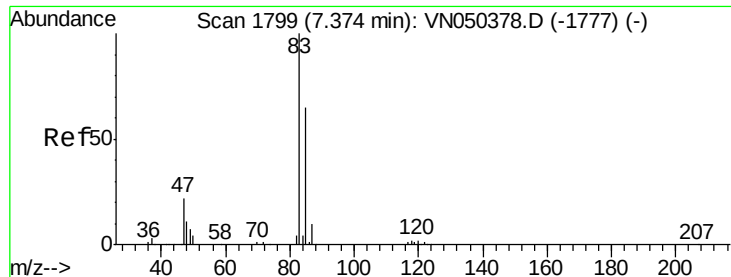
Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->

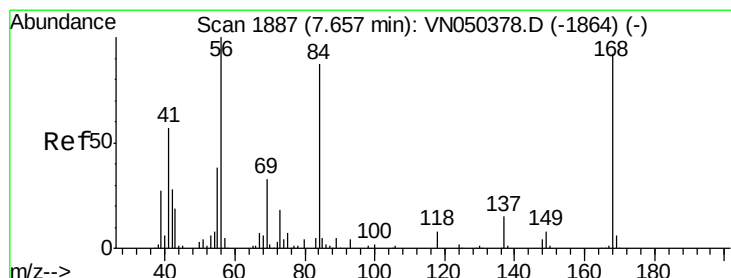
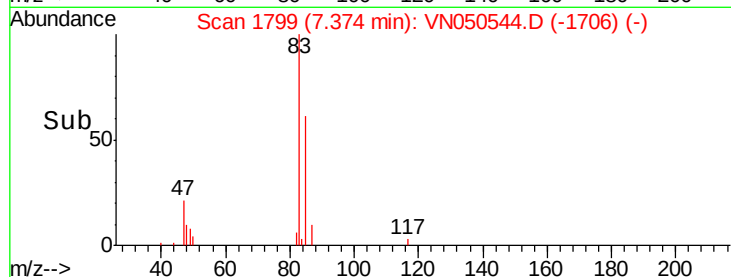
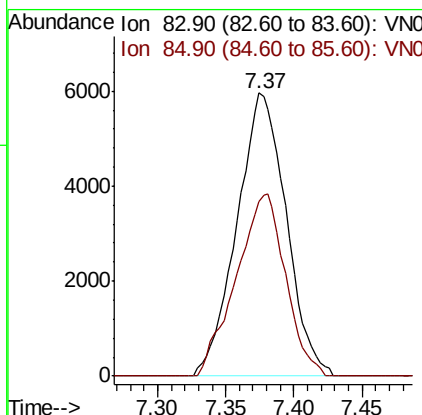
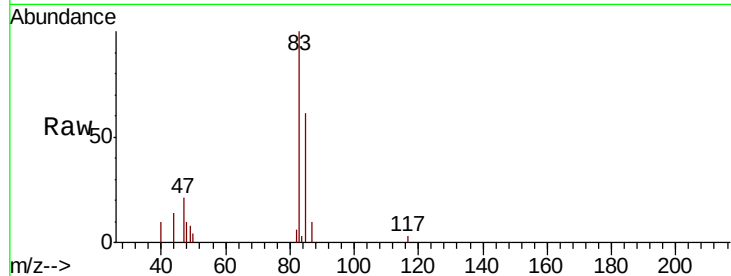




#30
Chloroform
Concen: 1.10 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

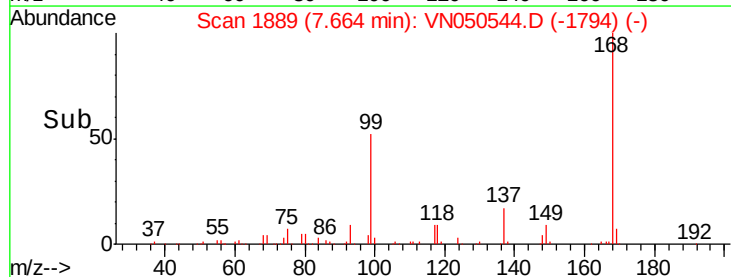
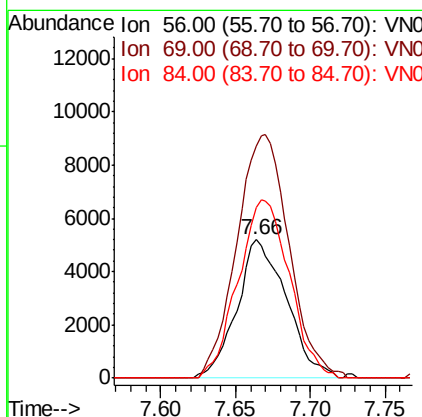
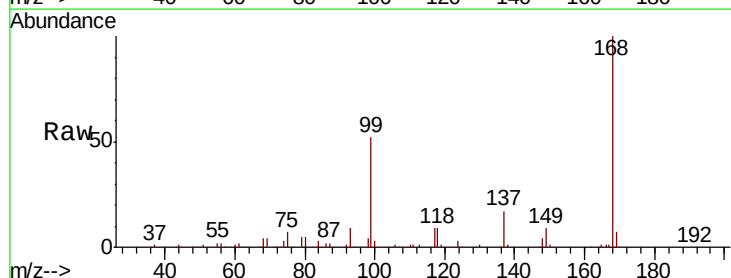
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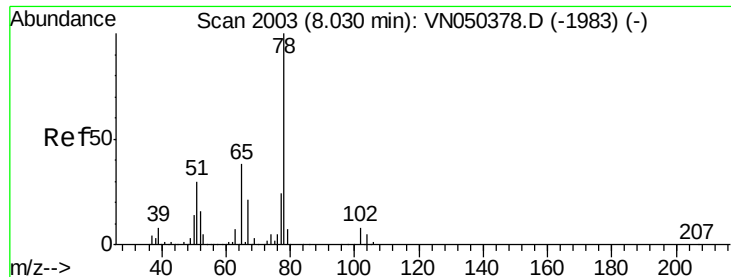
Tot Ion: 83 Resp: 14954
Ion Ratio Lower Upper
83 100
85 61.5 52.5 78.7



#31
Cyclohexane
Concen: 0.38 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

Tgt Ion: 56 Resp: 11982
Ion Ratio Lower Upper
56 100
69 168.0 26.2 39.4#
84 123.6 67.4 101.0#

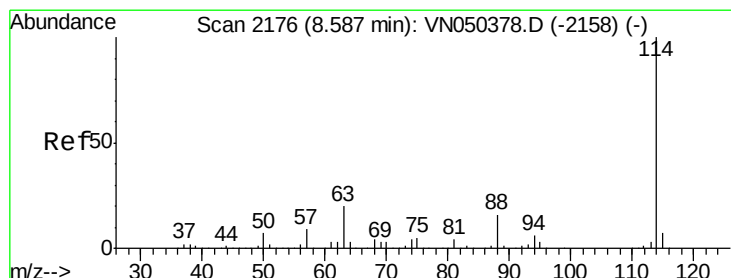
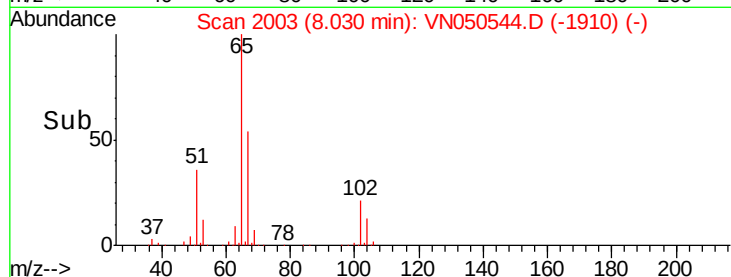
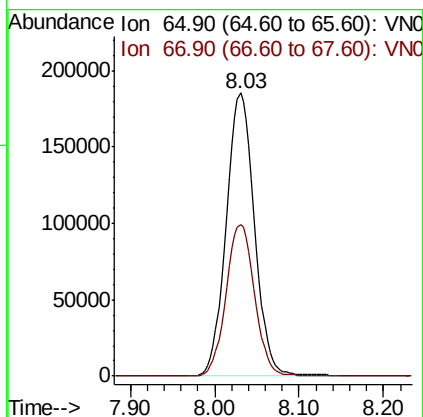
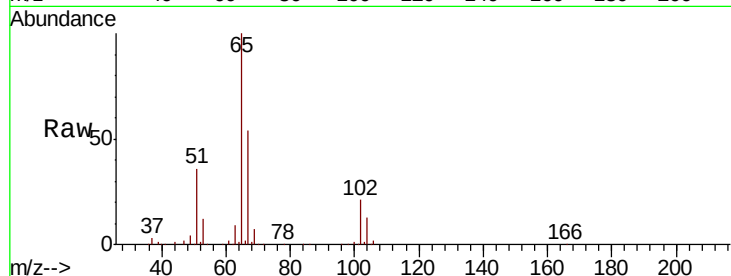




#33
 1,2-Dichloroethane-d4
 Concen: 51.99 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050544.D
 Acq: 11 Aug 2018 2:55

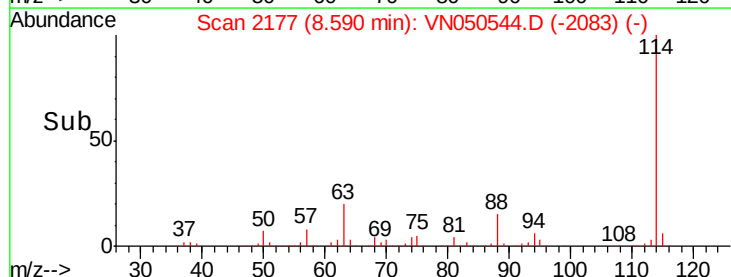
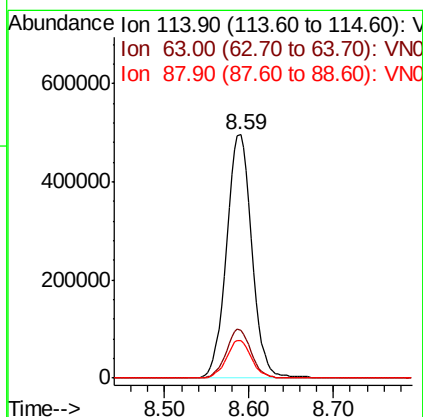
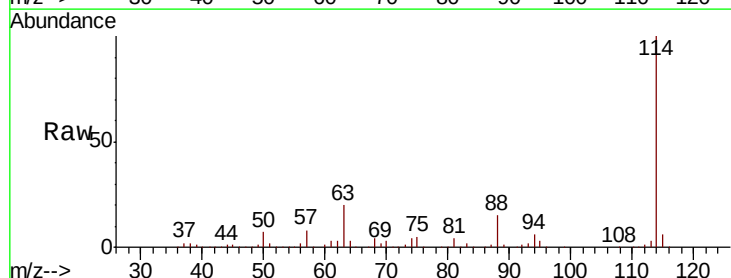
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-03-080918-B

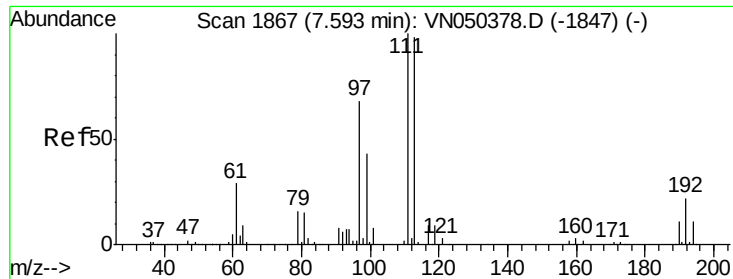
Tot Ion: 65 Resp: 432936
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050544.D
 Acq: 11 Aug 2018 2:55

Tgt Ion: 114 Resp: 1037232
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 15.3 0.0 31.2

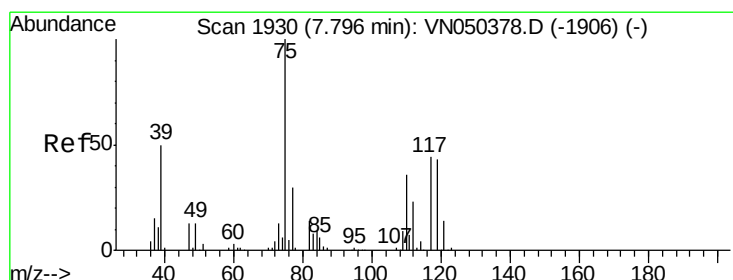
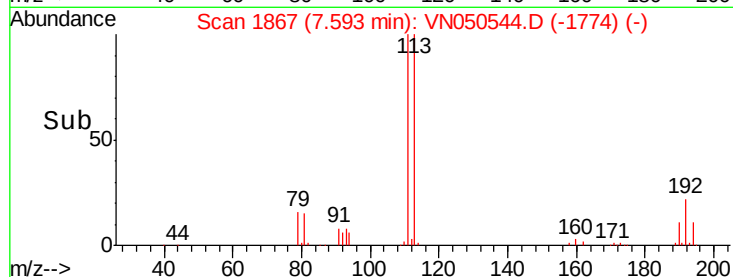
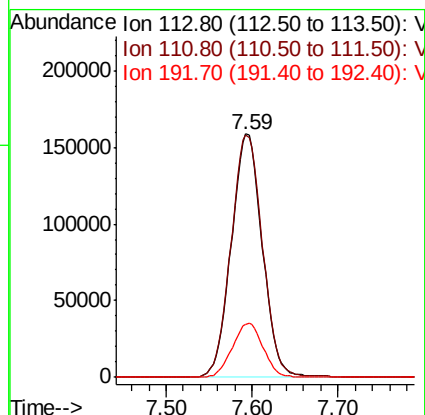
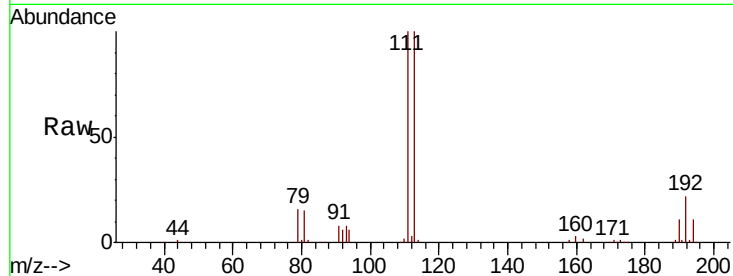




#35
 Dibromofluoromethane
 Concen: 47.68 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050544.D
 Acq: 11 Aug 2018 2:55

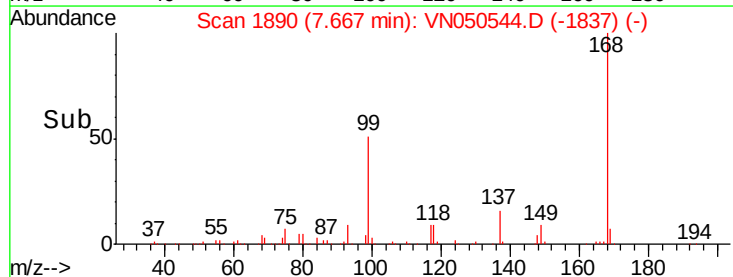
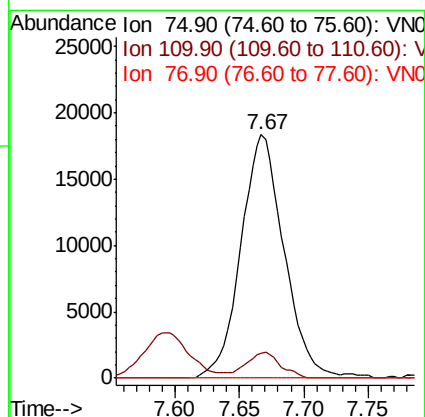
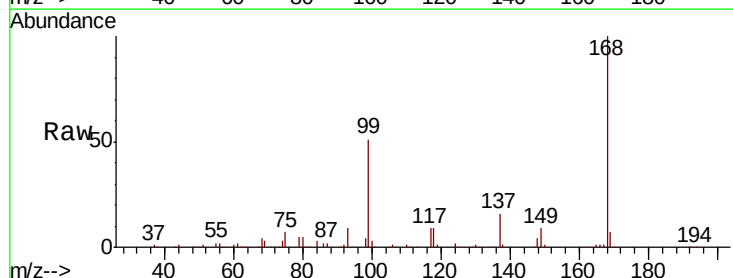
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-03-080918-B

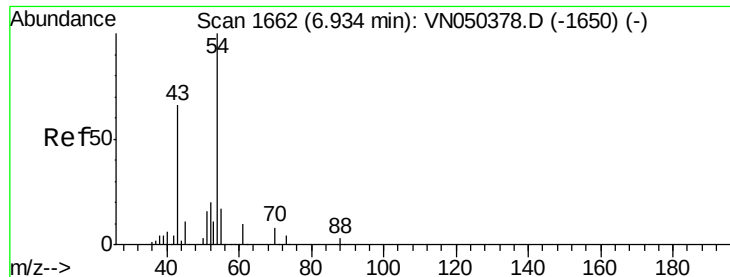
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	80.7	121.1
192	22.1	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.73 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050544.D
 Acq: 11 Aug 2018 2:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.4	55.2#
77	0.0	25.3	37.9#

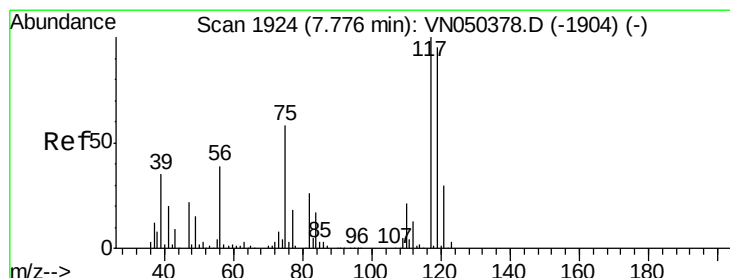
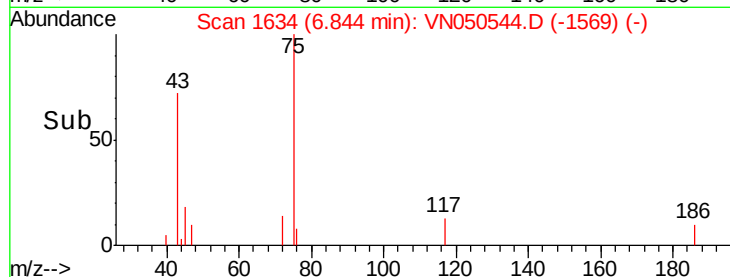
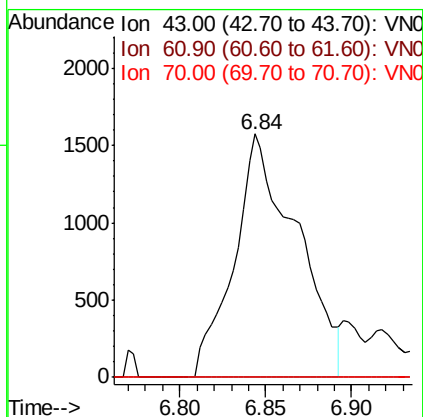
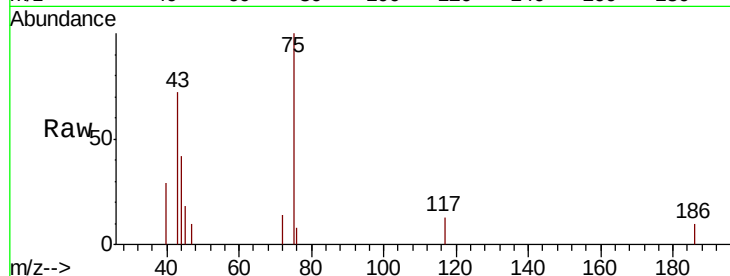




#37
Ethyl Acetate
Concen: 0.49 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. -0.09 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

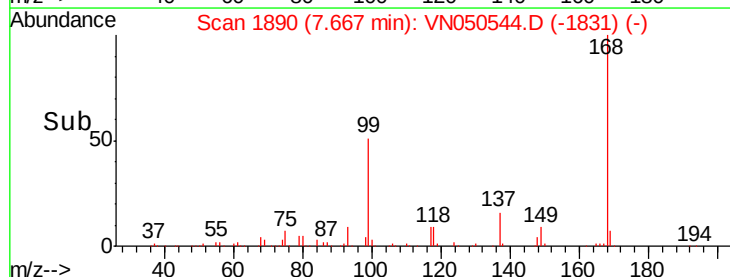
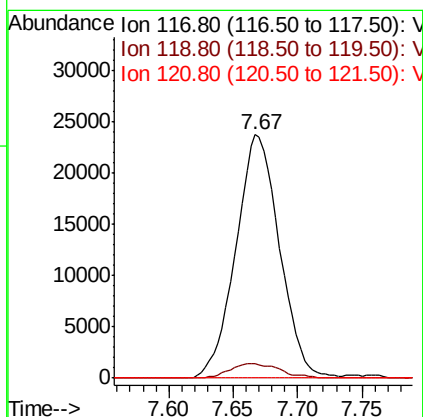
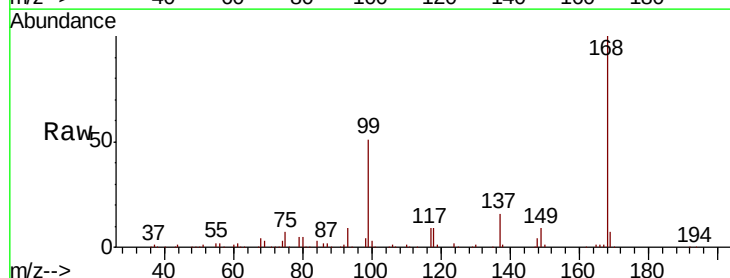
Instrument :
MSVOA_N
ClientSampleId :
JC-03-080918-B

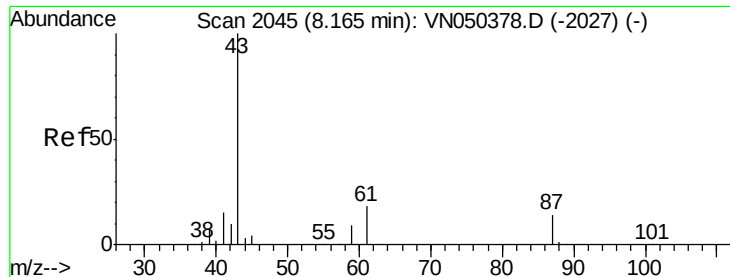
Tot Ion: 43 Resp: 3994
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 4.70 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

Tgt Ion: 117 Resp: 55884
Ion Ratio Lower Upper
117 100
119 5.7 77.4 116.0#
121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 18.73 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

Instrument :

MSVOA_N

ClientSampleId :

JC-03-080918-B

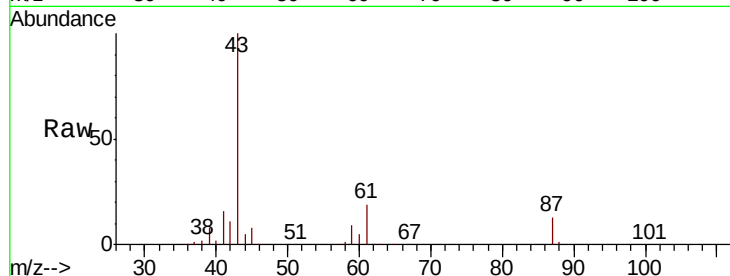
Tot Ion: 43 Resp: 265365

Ion Ratio Lower Upper

43 100

61 17.5 15.8 23.6

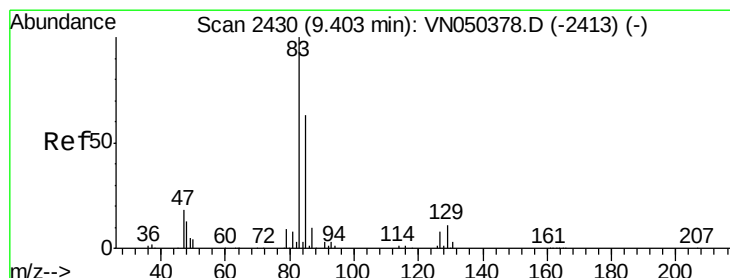
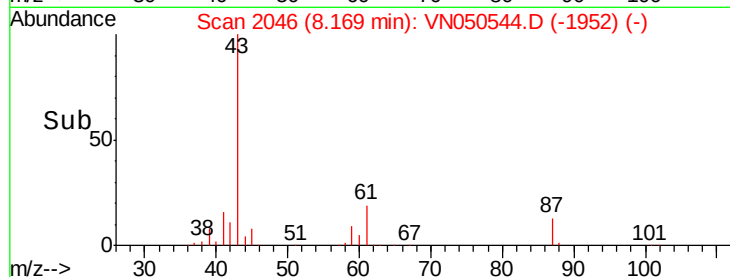
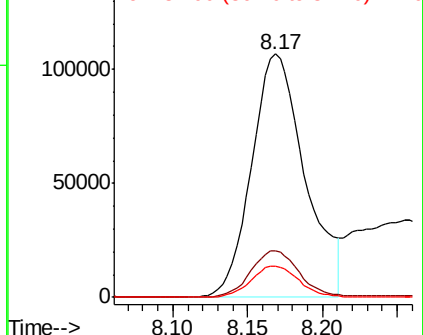
87 11.5 10.3 15.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#47

Bromodichloromethane

Concen: 0.30 ug/l

RT: 9.41 min Scan# 2432

Delta R.T. 0.01 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

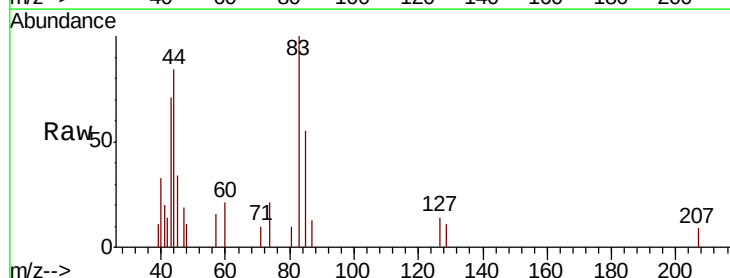
Tgt Ion: 83 Resp: 3511

Ion Ratio Lower Upper

83 100

85 55.2 51.1 76.7

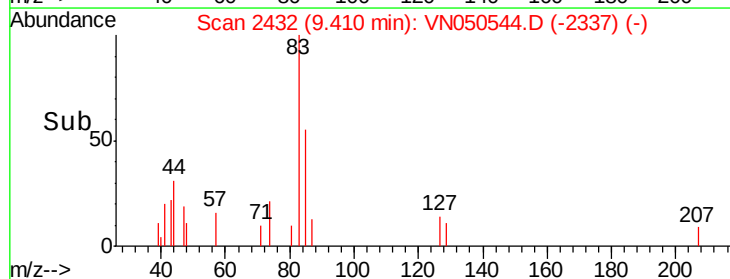
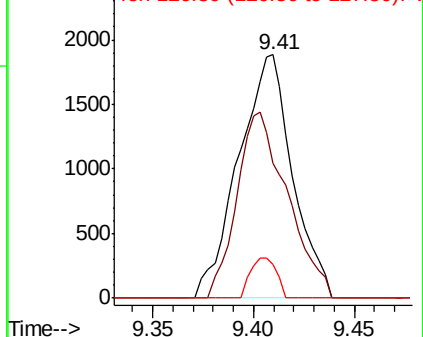
127 13.6 7.0 10.4#

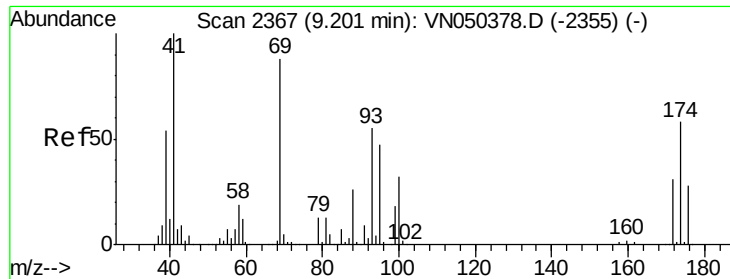


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

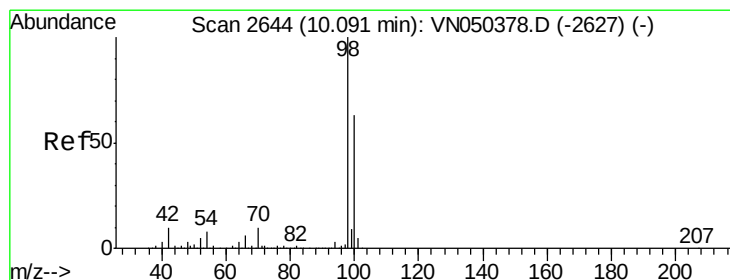
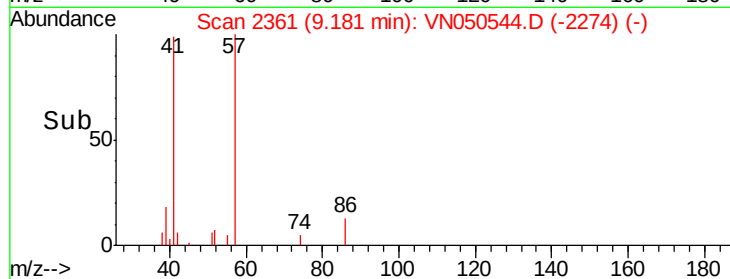
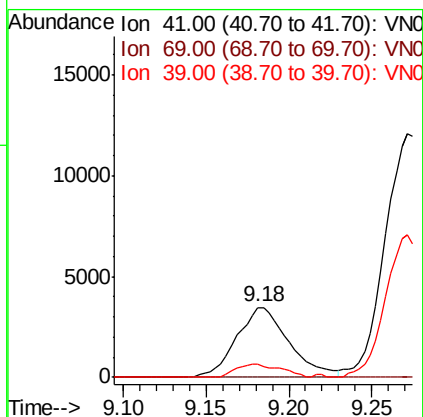
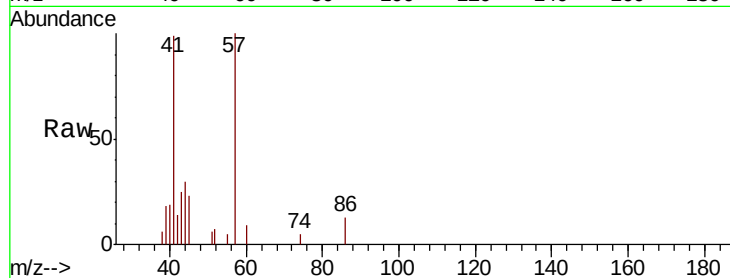




#48
Methvl methacrylate
Concen: 1.08 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

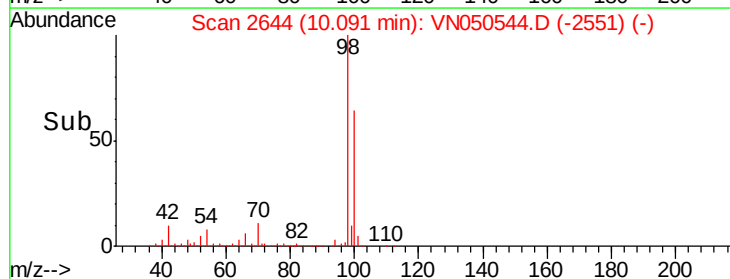
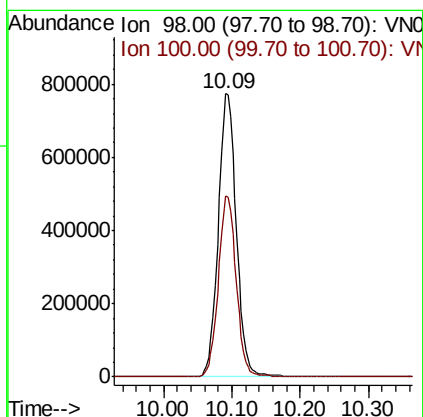
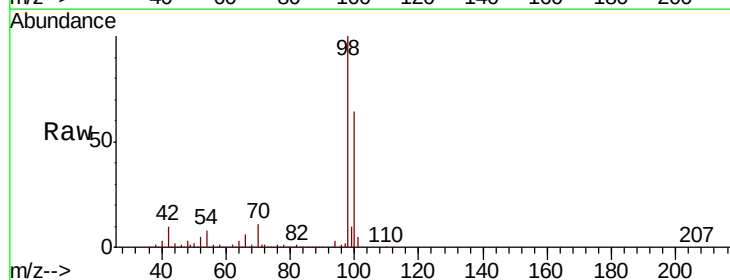
Instrument :
MSVOA_N
ClientSampleId :
JC-03-080918-B

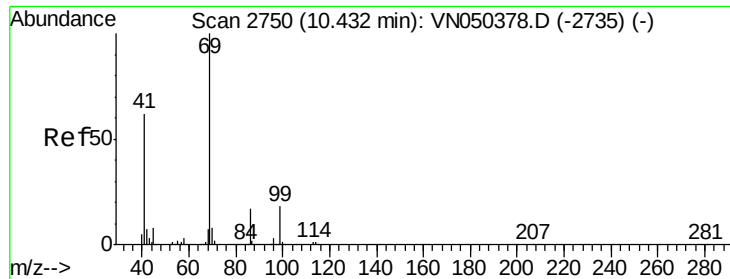
Tot Ion: 41 Resp: 7639
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 16.4 43.9 65.9#



#50
Toluene-d8
Concen: 45.40 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

Tgt Ion: 98 Resp: 1420769
Ion Ratio Lower Upper
98 100
100 63.4 50.7 76.1





#56

Ethyl methacrylate

Concen: 1.73 ug/l

RT: 10.28 min Scan# 2702

Delta R.T. -0.15 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

Instrument :

MSVOA_N

ClientSampleId :

JC-03-080918-B

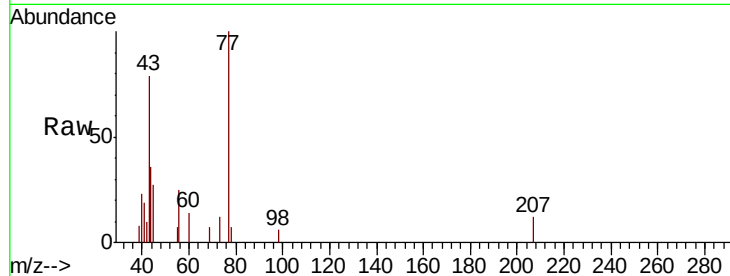
Tot Ion: 69 Resp: 247

Ion Ratio Lower Upper

69 100

41 256.3 51.0 76.4#

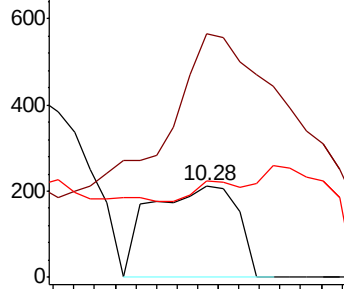
39 172.9 26.6 40.0#



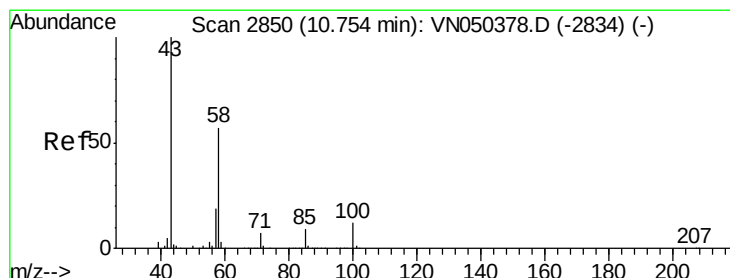
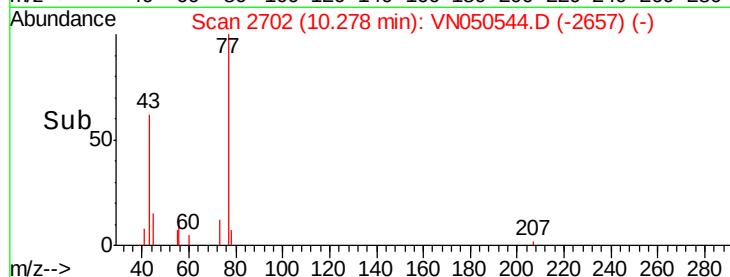
Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->



#59

2-Hexanone

Concen: 2.40 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050544.D

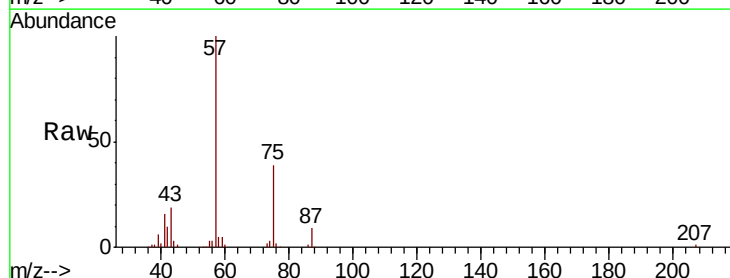
Acq: 11 Aug 2018 2:55

Tgt Ion: 43 Resp: 17090

Ion Ratio Lower Upper

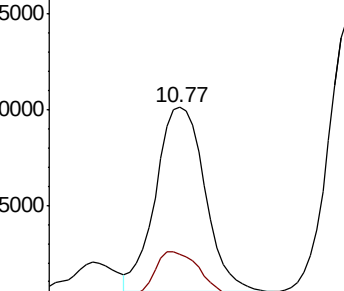
43 100

58 26.6 27.6 82.7#

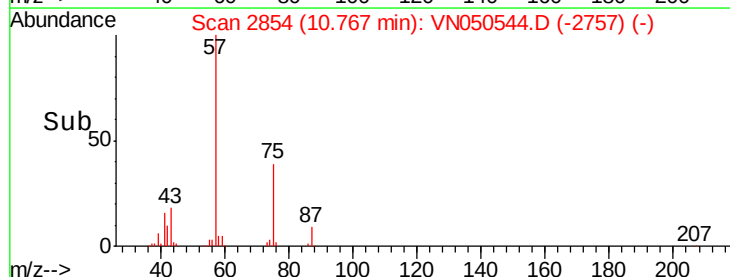


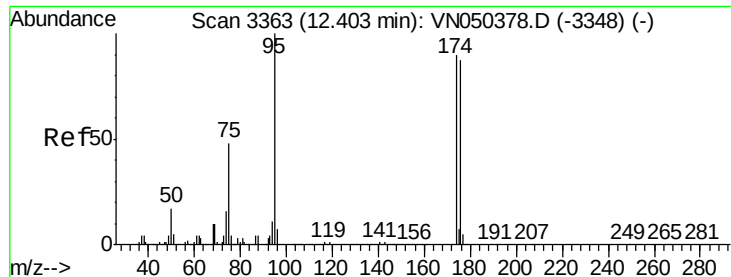
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 38.27 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

Instrument :

MSVOA_N

ClientSampleId :

JC-03-080918-B

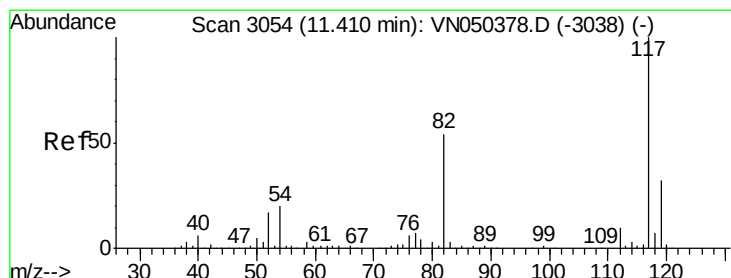
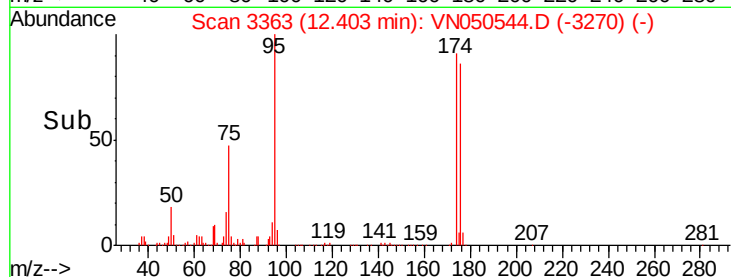
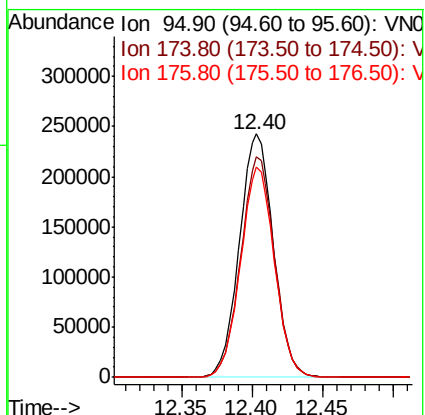
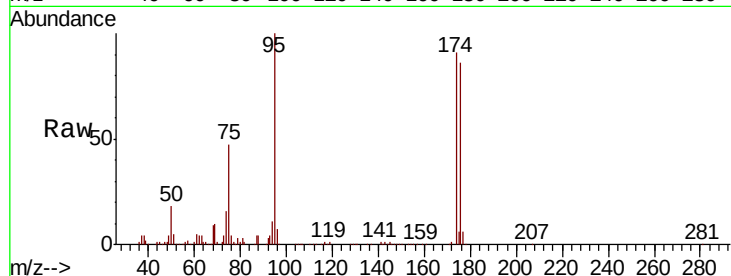
Tot Ion: 95 Resp: 408109

Ion Ratio Lower Upper

95 100

174 90.7 0.0 178.2

176 86.3 0.0 173.4



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

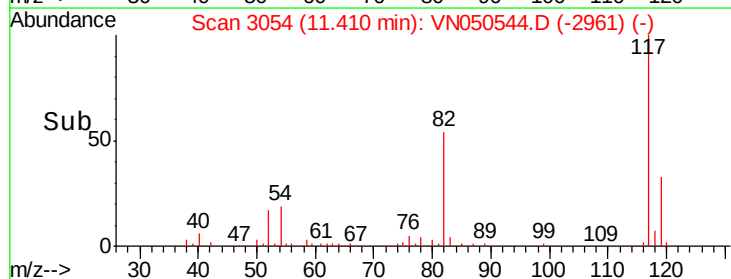
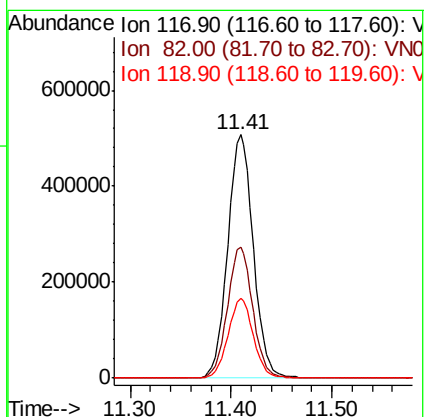
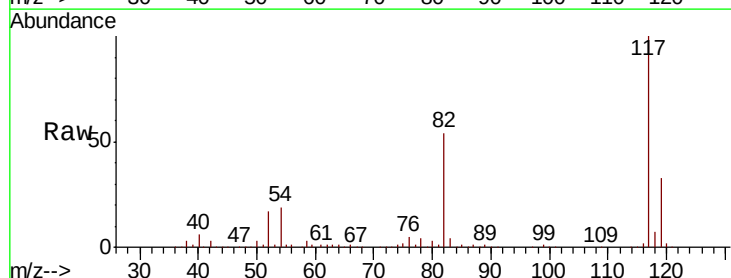
Tgt Ion: 117 Resp: 897130

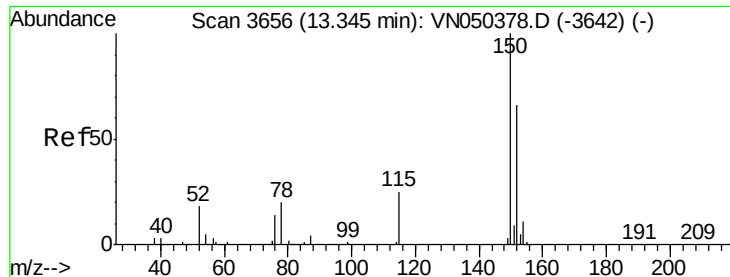
Ion Ratio Lower Upper

117 100

82 54.0 43.7 65.5

119 32.8 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

Instrument :

MSVOA_N

ClientSampleId :

JC-03-080918-B

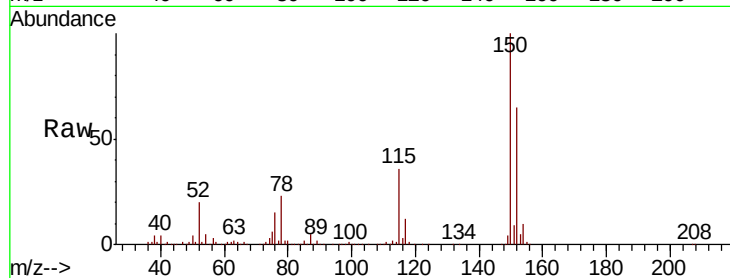
Tot Ion:152 Resp: 355665

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.3

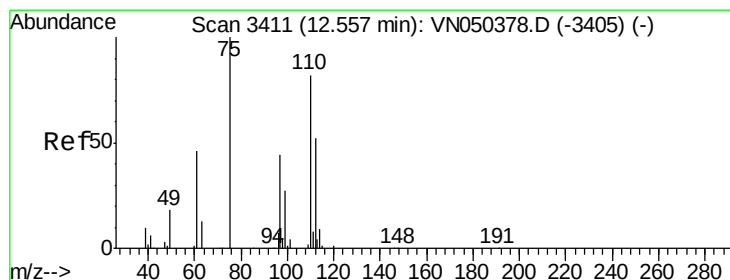
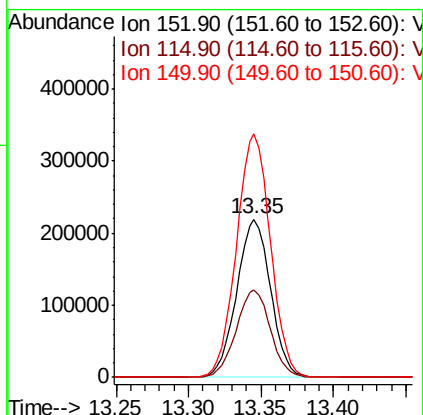
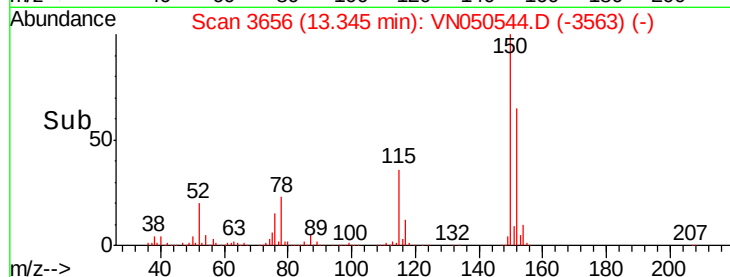
150 154.6 0.0 348.6



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: 30.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050544.D

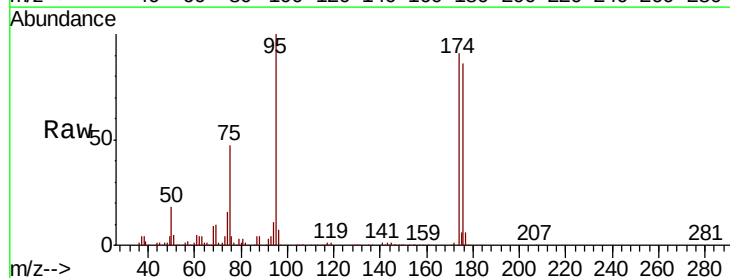
Acq: 11 Aug 2018 2:55

Tgt Ion: 75 Resp: 193688

Ion Ratio Lower Upper

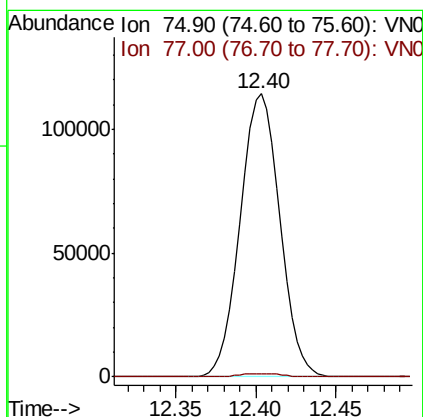
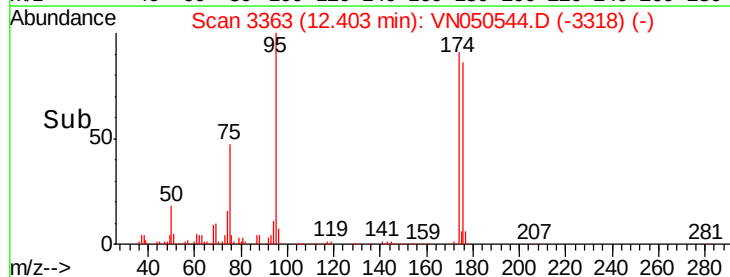
75 100

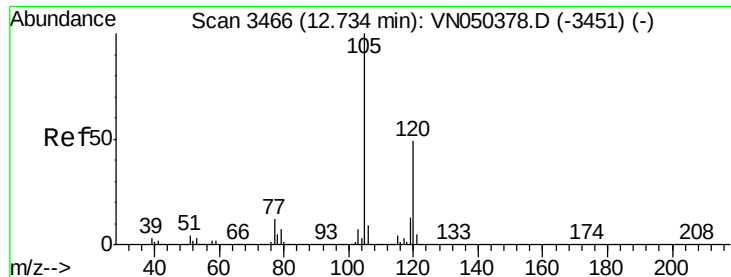
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.23 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

Instrument :

MSVOA_N

ClientSampleId :

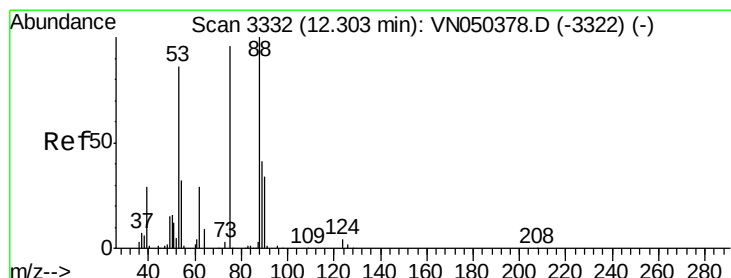
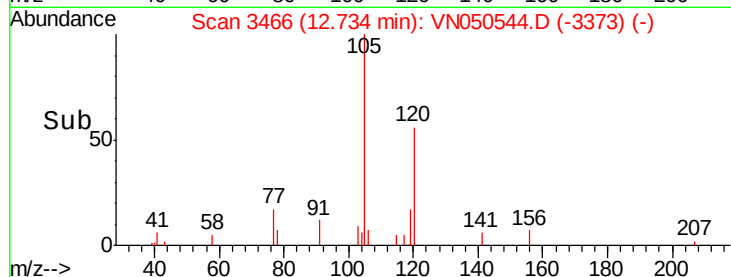
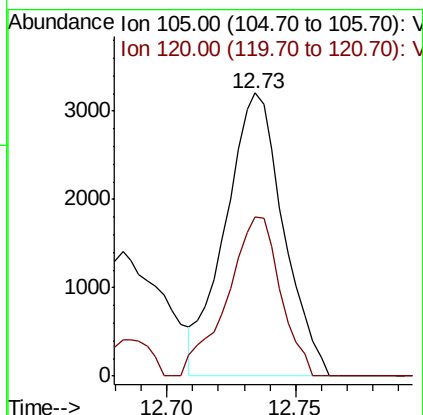
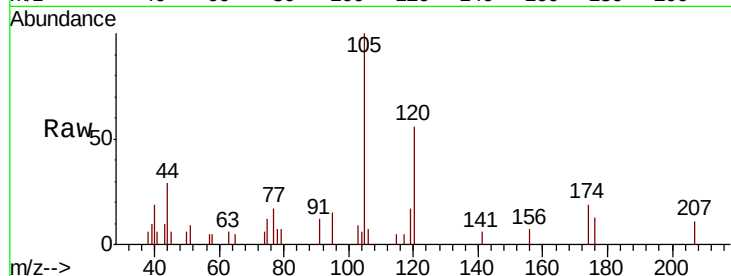
JC-03-080918-B

Tot Ion:105 Resp: 5036

Ion Ratio Lower Upper

105 100

120 51.5 24.4 73.2



#81

trans-1,4-Dichloro-2-butene

Concen: 105.71 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

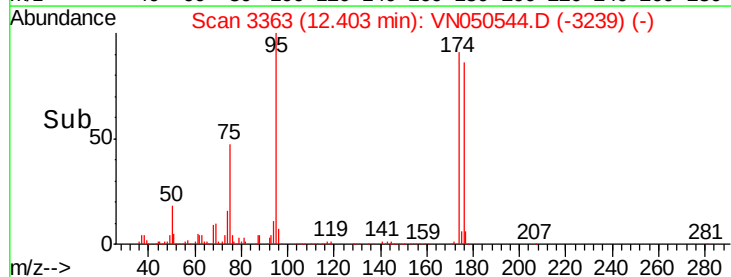
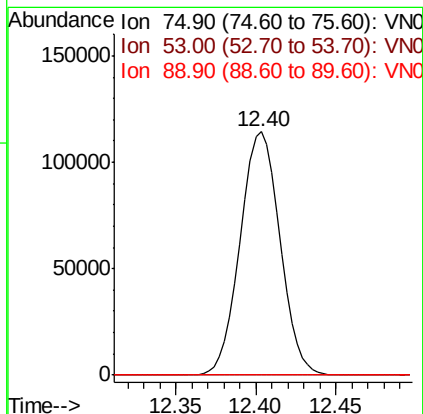
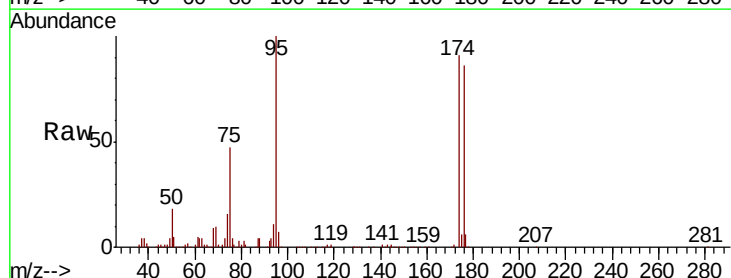
Tgt Ion: 75 Resp: 193688

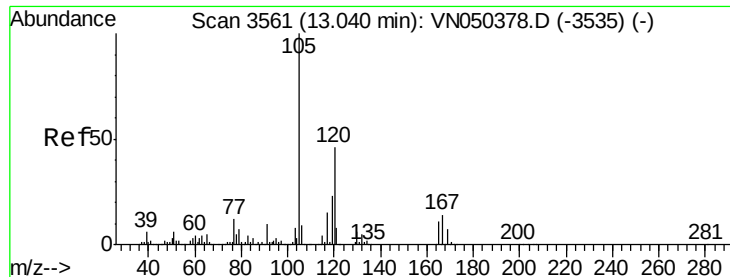
Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

89 0.0 36.0 54.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.32 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. -0.00 min

Lab File: VN050544.D

Acq: 11 Aug 2018 2:55

Instrument :

MSVOA_N

ClientSampleId :

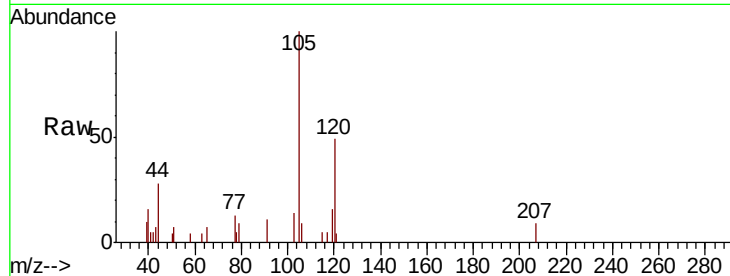
JC-03-080918-B

Tot Ion:105 Resp: 7128

Ion Ratio Lower Upper

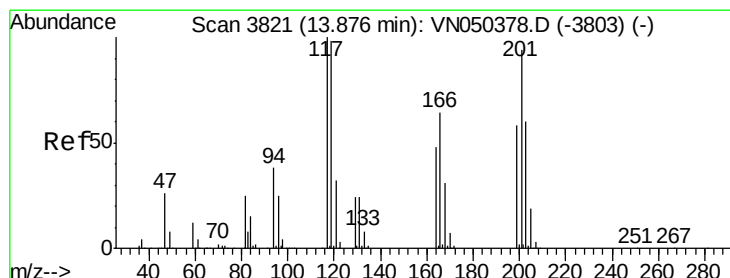
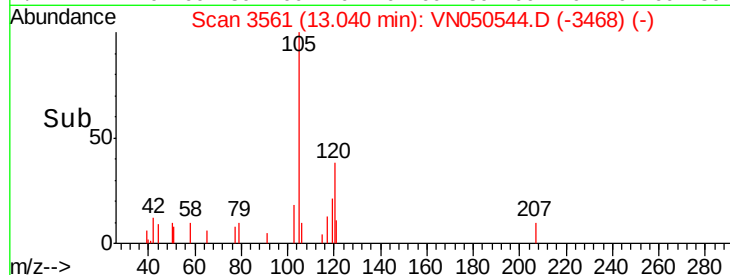
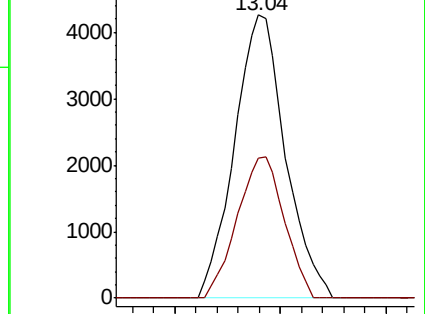
105 100

120 46.1 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: 0.22 ug/l

RT: 13.89 min Scan# 3824

Delta R.T. 0.01 min

Lab File: VN050544.D

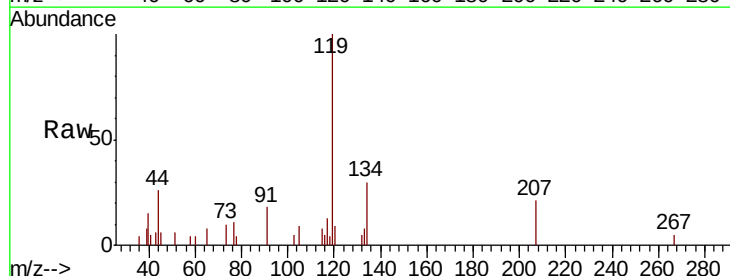
Acq: 11 Aug 2018 2:55

Tgt Ion:117 Resp: 844

Ion Ratio Lower Upper

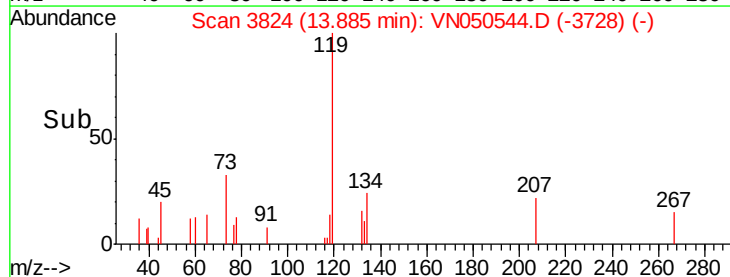
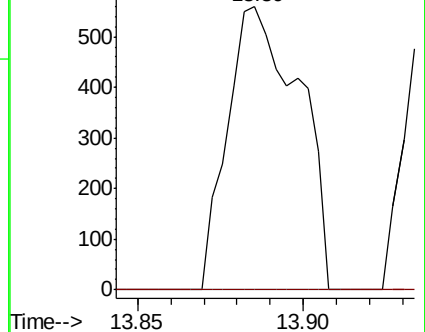
117 100

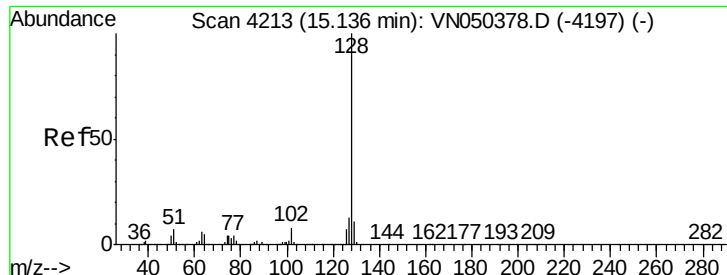
201 0.0 45.6 136.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

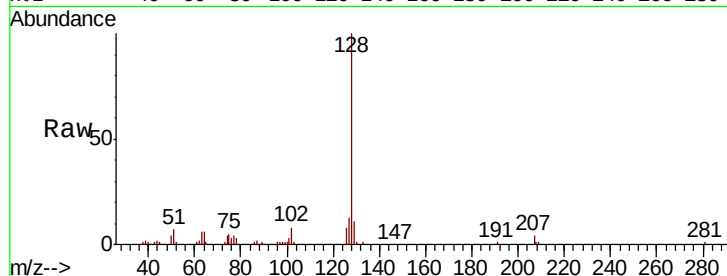




#95
Naphthalene
Concen: 8.36 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN050544.D
Acq: 11 Aug 2018 2:55

Instrument :
MSVOA_N
ClientSampleId :
JC-03-080918-B

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	10.9	8.8	13.2



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

