

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049993.D
 Acq On : 21 Jul 2018 6:32
 Operator : MD\SY
 Sample : J4062-24
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-8

Quant Time: Jul 21 06:51:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	575082	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	980523	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	837142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	311500	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	418396	52.93	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.86%		
35) Dibromofluoromethane	7.59	113	364641	44.30	ug/l	0.00
Spiked Amount 50.000			Recovery =	88.60%		
50) Toluene-d8	10.09	98	1319864	44.01	ug/l	0.00
Spiked Amount 50.000			Recovery =	88.02%		
62) 4-Bromofluorobenzene	12.40	95	366237	35.46	ug/l	0.00
Spiked Amount 50.000			Recovery =	70.92%		

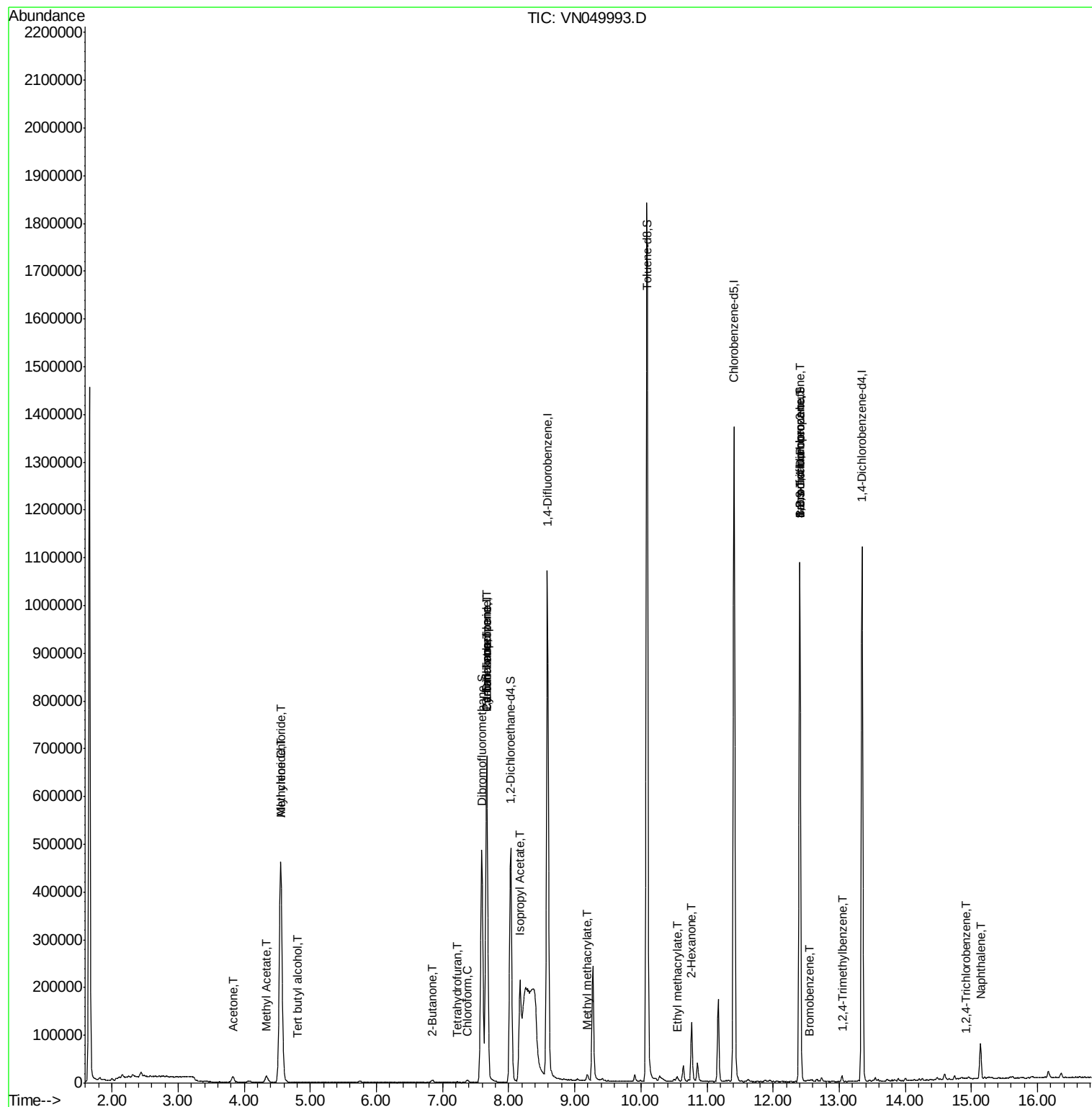
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	277	Below Cal	#	52
11) Tert butyl alcohol	4.81	59	370	0.66	ug/l #	72
14) Allyl chloride	4.55	41	12543	1.28	ug/l #	24
16) Acetone	3.83	43	19621	9.59	ug/l	99
18) Methyl Acetate	4.34	43	25790	3.24	ug/l #	75
20) Methylene Chloride	4.55	84	355022	45.62	ug/l	97
25) 2-Butanone	6.86	43	4294	1.47	ug/l	94
29) Tetrahydrofuran	7.22	42	644	0.35	ug/l #	67
30) Chloroform	7.38	83	5123	0.39	ug/l	91
31) Cyclohexane	7.66	56	11461	1.09	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41014	3.76	ug/l #	49
38) Carbon Tetrachloride	7.67	117	52752	4.52	ug/l #	16
43) Isopropyl Acetate	8.17	43	255897	19.56	ug/l	96
48) Methyl methacrylate	9.18	41	7781	1.19	ug/l #	21
56) Ethyl methacrylate	10.55	69	104	2.17	ug/l #	1
59) 2-Hexanone	10.77	43	16916	3.44	ug/l #	56
71) Bromoform	12.40	173	3127	0.54	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	180442	30.88	ug/l #	100
77) Bromobenzene	12.55	156	1463	0.22	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	180442	96.56	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	7175	0.37	ug/l	100
93) 1,2,4-Trichlorobenzene	14.92	180	382	3.53	ug/l #	55
95) Naphthalene	15.14	128	63081	8.38	ug/l	98

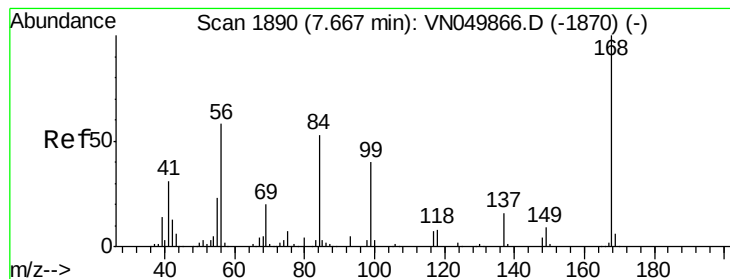
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 21 06:51:00 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

Instrument :

MSVOA_N

ClientSampleId :

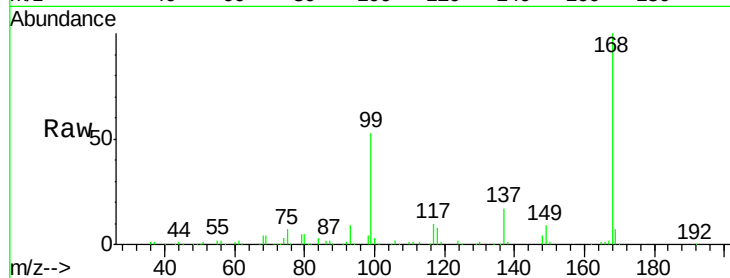
TP-8

Tot Ion:168 Resp: 575082

Ion Ratio Lower Upper

168 100

99 52.5 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

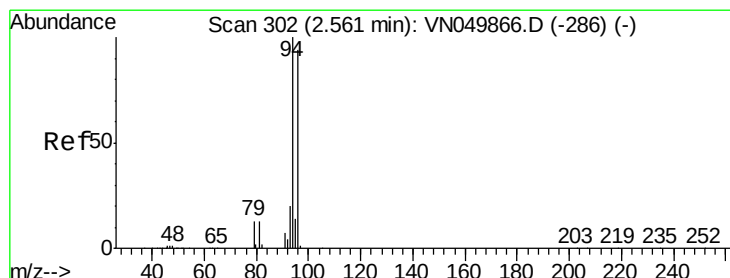
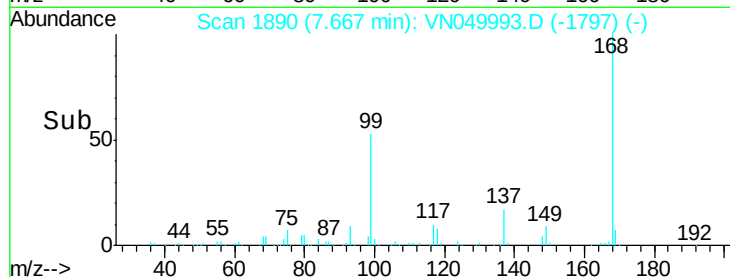
100000

50000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN049993.D

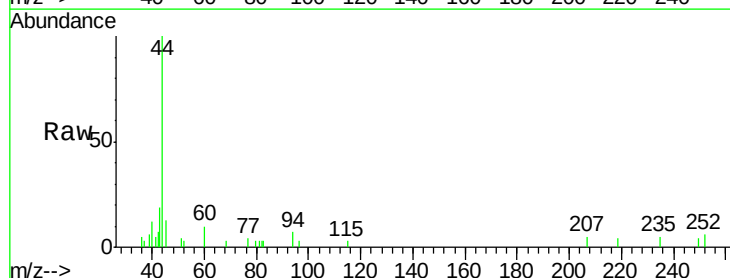
Acq: 21 Jul 2018 6:32

Tgt Ion: 94 Resp: 277

Ion Ratio Lower Upper

94 100

96 48.4 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

400

300

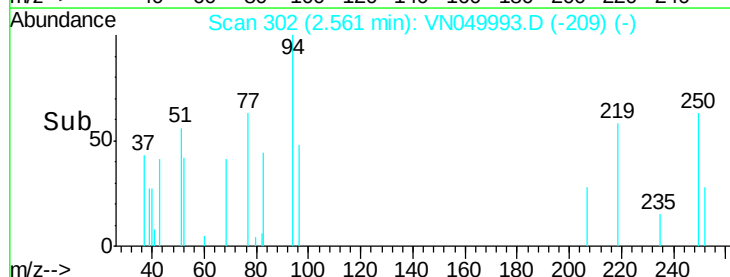
200

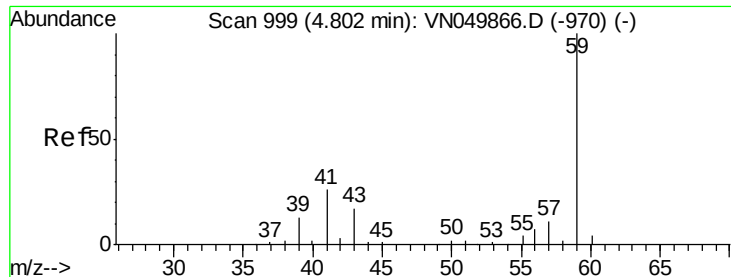
100

0

Time-->

2.54 2.55 2.56 2.57

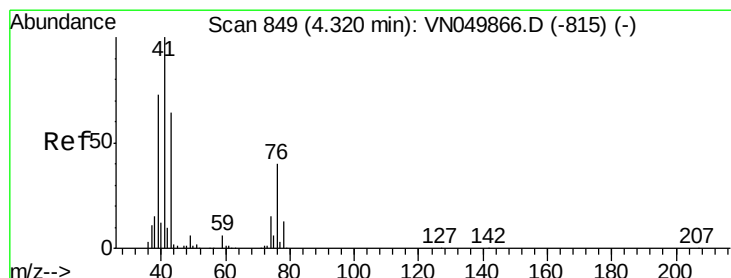
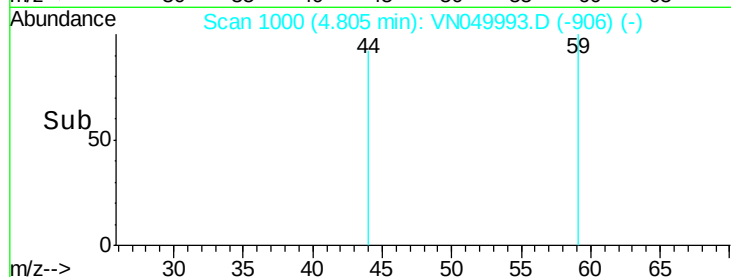
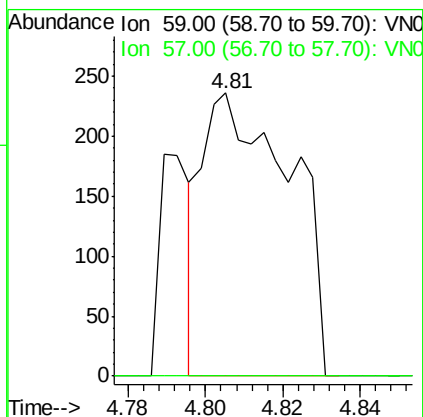
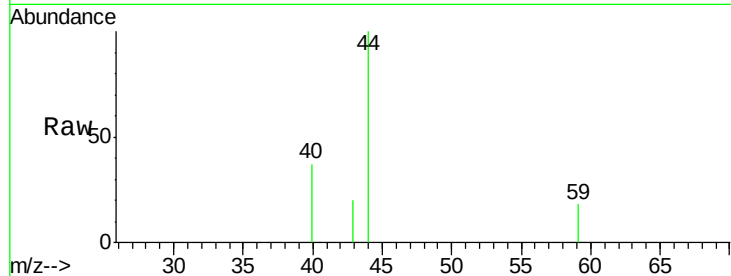




#11
Tert butyl alcohol
Concen: 0.66 ug/l
RT: 4.81 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

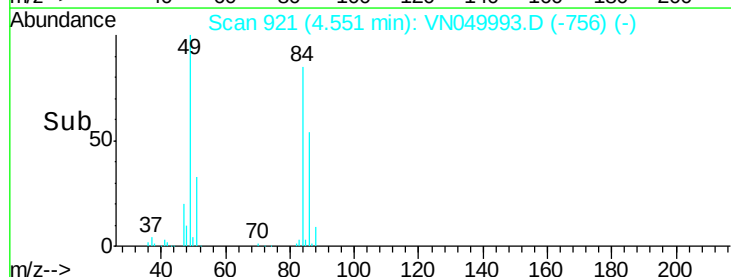
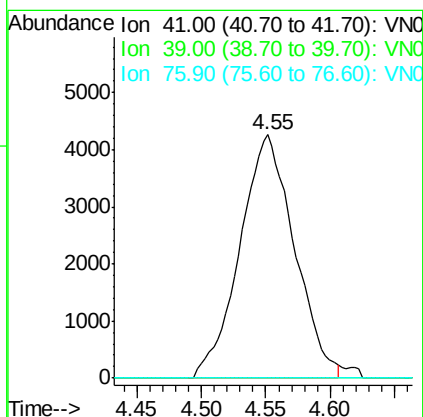
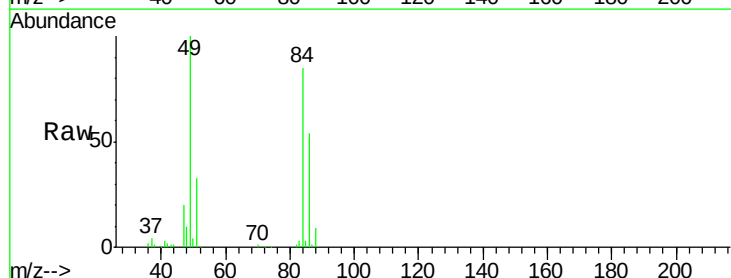
Instrument :
MSVOA_N
ClientSampled :
TP-8

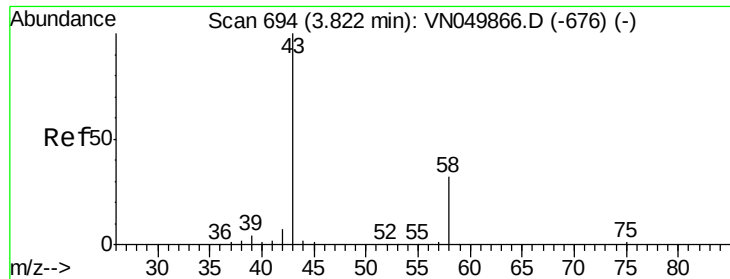
Tot Ion: 59 Resp: 370
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#14
Allyl chloride
Concen: 1.28 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.23 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

Tgt Ion: 41 Resp: 12543
Ion Ratio Lower Upper
41 100
39 0.0 53.2 79.8#
76 0.0 29.0 43.6#





#16

Acetone

Concen: 9.59 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

Instrument :

MSVOA_N

ClientSampled :

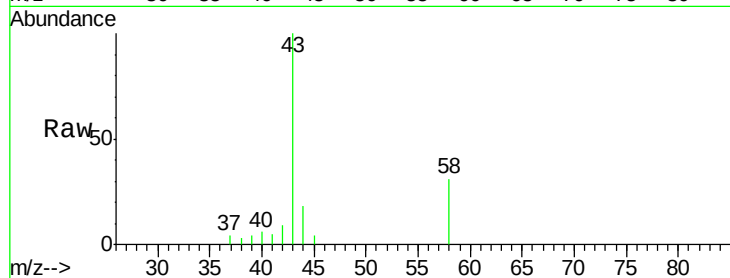
TP-8

Tot Ion: 43 Resp: 19621

Ion Ratio Lower Upper

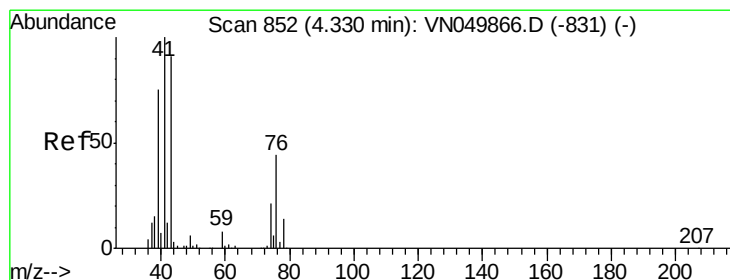
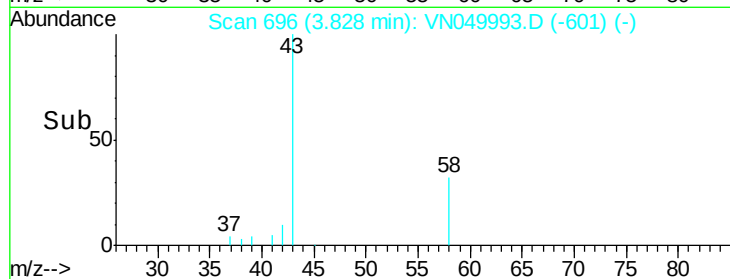
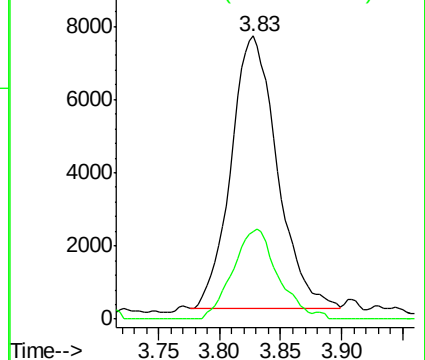
43 100

58 32.0 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 3.24 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049993.D

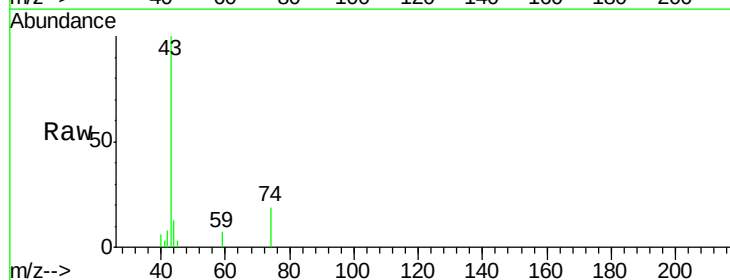
Acq: 21 Jul 2018 6:32

Tgt Ion: 43 Resp: 25790

Ion Ratio Lower Upper

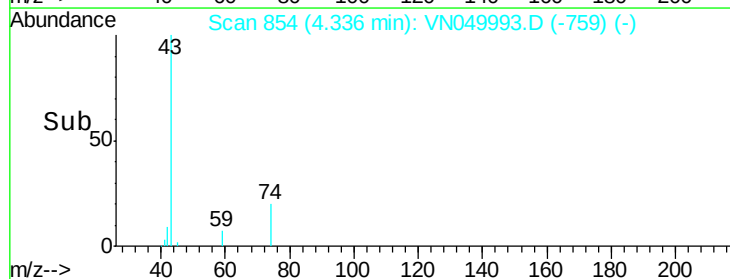
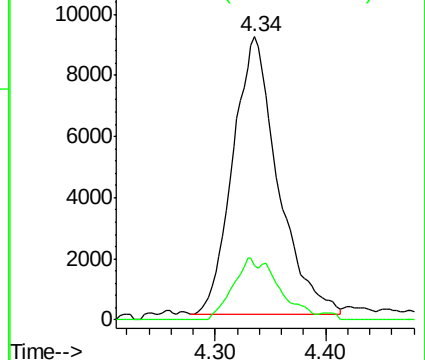
43 100

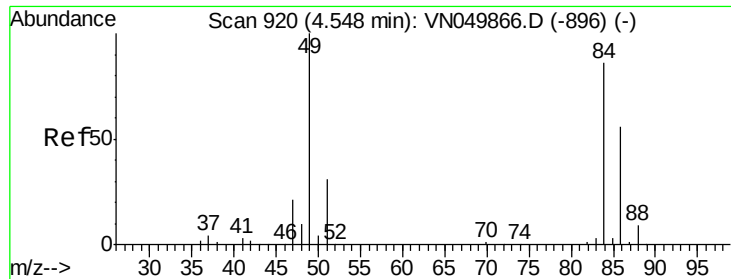
74 12.3 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

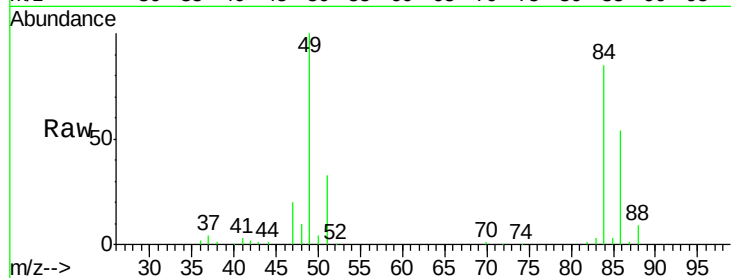




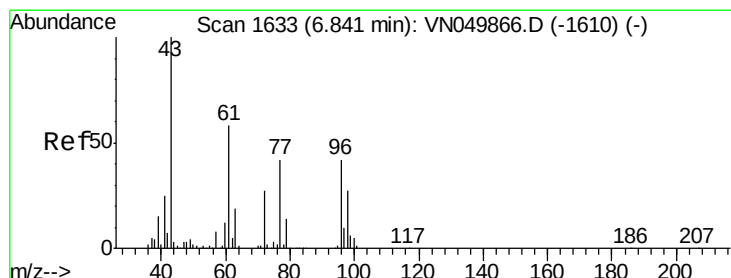
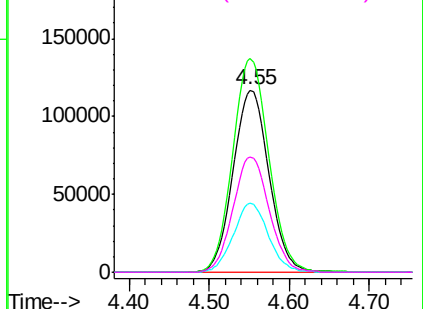
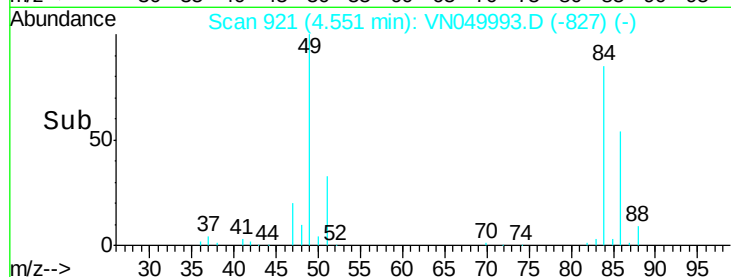
#20
Methvlene Chloride
Concen: 45.62 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

Instrument :
MSVOA_N
ClientSampled :
TP-8

Tot Ion:	84	Resp:	355022
Ion	Ratio	Lower	Upper
84	100		
49	117.3	95.4	143.2
51	38.2	28.4	42.6
86	63.6	52.6	79.0

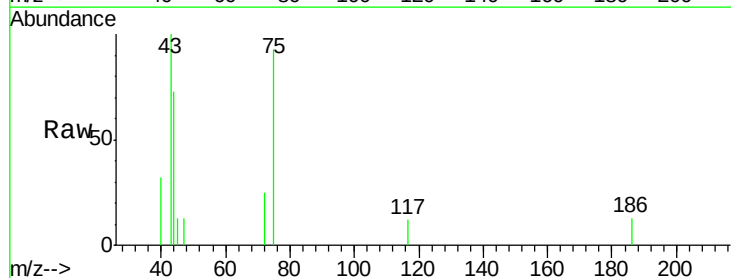


Abundance Ion 83.90 (83.60 to 84.60): VN0

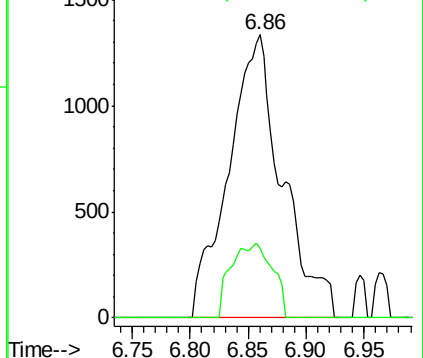
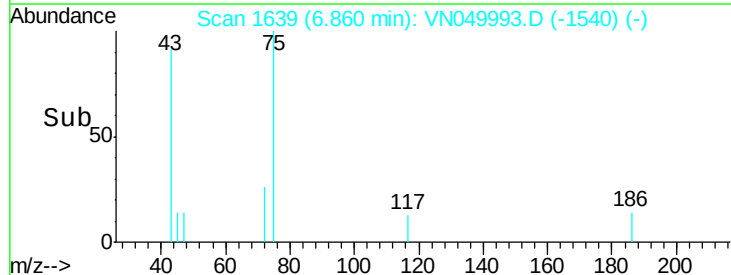


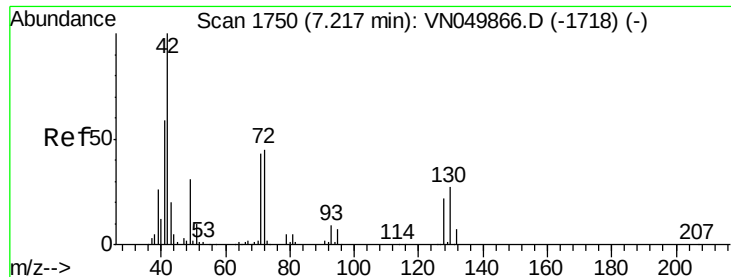
#25
2-Butanone
Concen: 1.47 ug/l
RT: 6.86 min Scan# 1639
Delta R.T. 0.02 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

Tgt Ion:	43	Resp:	4294
Ion	Ratio	Lower	Upper
43	100		
72	24.6	22.1	33.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

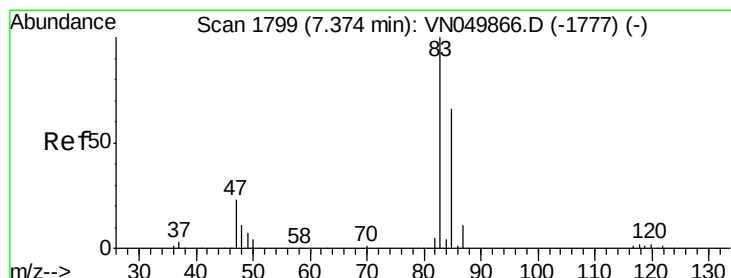
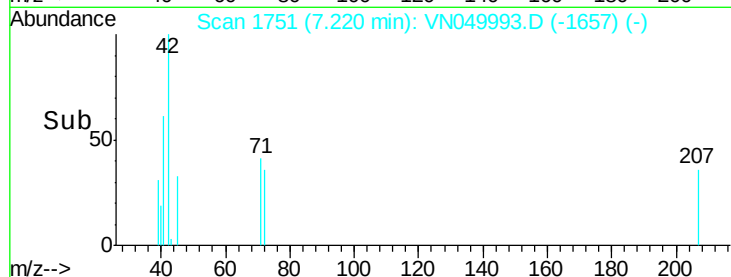
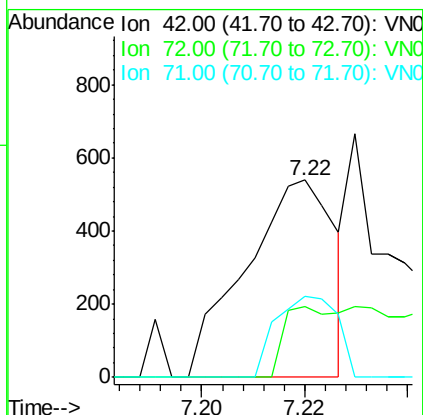
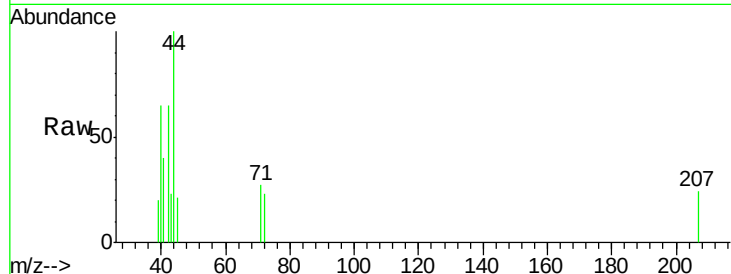




#29
Tetrahydrofuran
Concen: 0.35 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

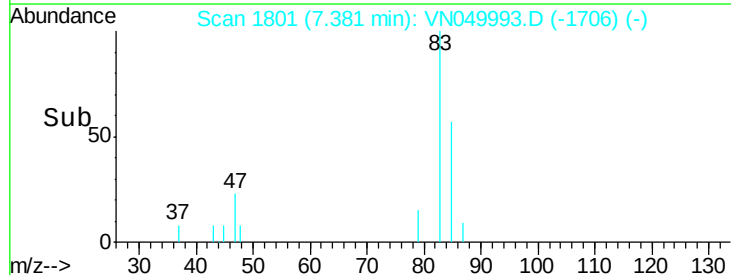
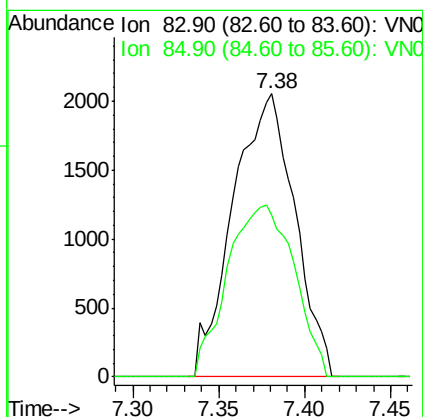
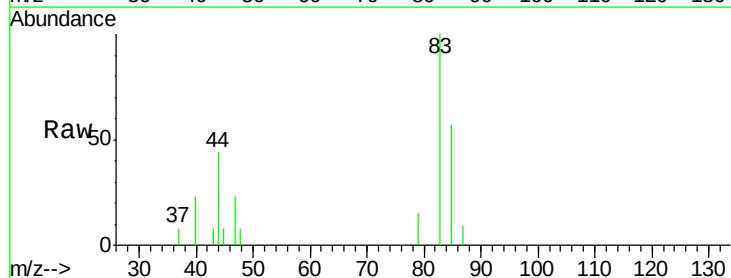
Instrument :
MSVOA_N
ClientSampled :
TP-8

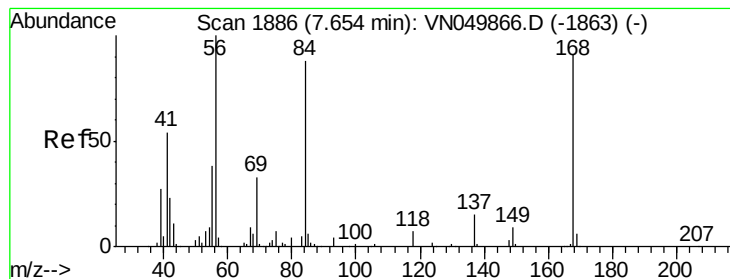
Tot Ion: 42 Resp: 644
Ion Ratio Lower Upper
42 100
72 16.5 35.6 53.4#
71 28.4 34.0 51.0#



#30
Chloroform
Concen: 0.39 ug/l
RT: 7.38 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

Tgt Ion: 83 Resp: 5123
Ion Ratio Lower Upper
83 100
85 57.1 51.4 77.2





#31

Cyclohexane

Concen: 1.09 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

Instrument :

MSVOA_N

ClientSampled :

TP-8

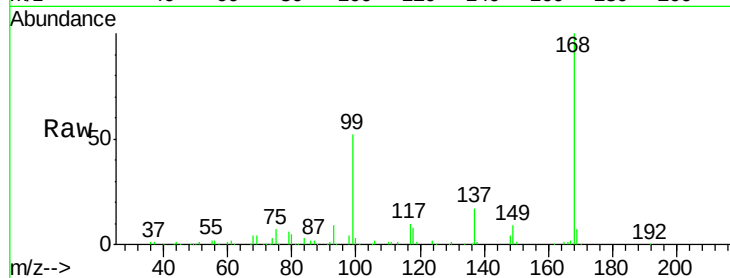
Tot Ion: 56 Resp: 11461

Ion Ratio Lower Upper

56 100

69 182.8 26.6 40.0#

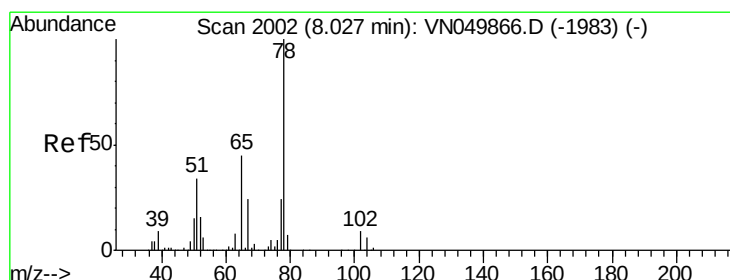
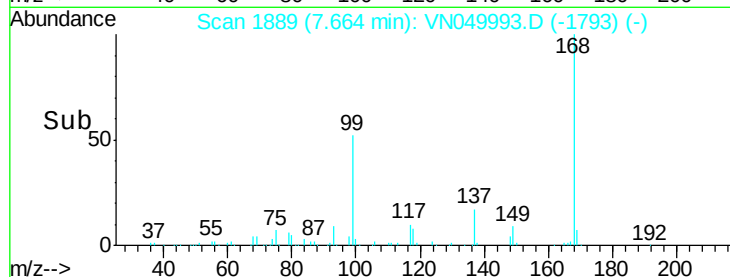
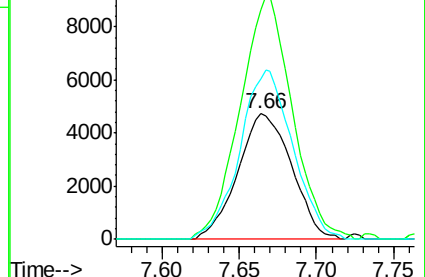
84 128.0 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VN049866.D (-1863) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-1863) (-)

Ion 84.00 (83.70 to 84.70): VN049866.D (-1863) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.93 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049993.D

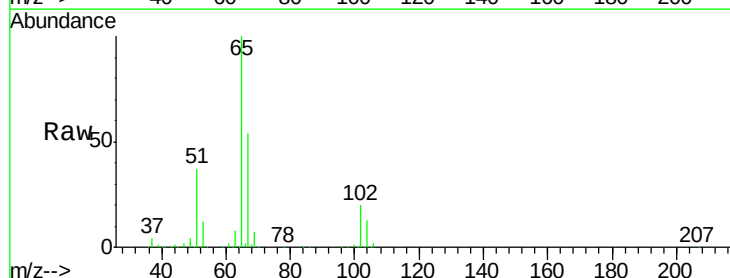
Acq: 21 Jul 2018 6:32

Tgt Ion: 65 Resp: 418396

Ion Ratio Lower Upper

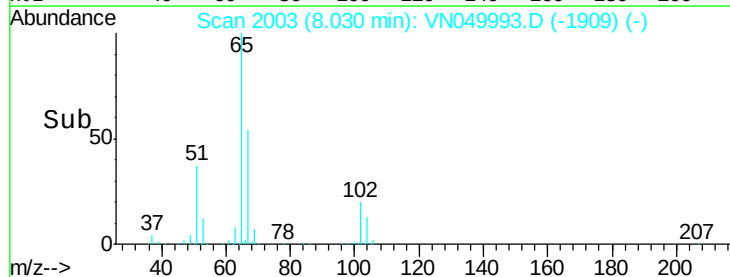
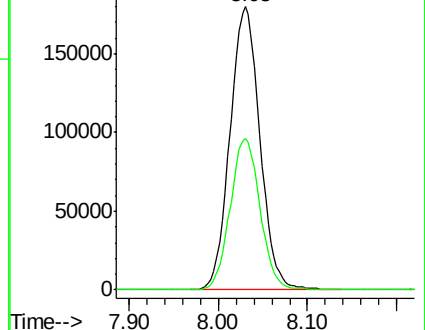
65 100

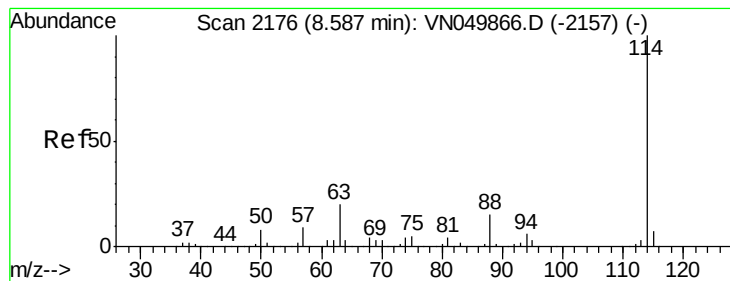
67 53.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049866.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN049866.D (-1983) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

Instrument :

MSVOA_N

ClientSampled :

TP-8

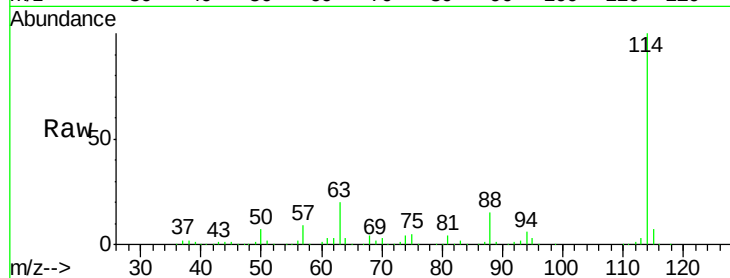
Tot Ion:114 Resp: 980523

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.8

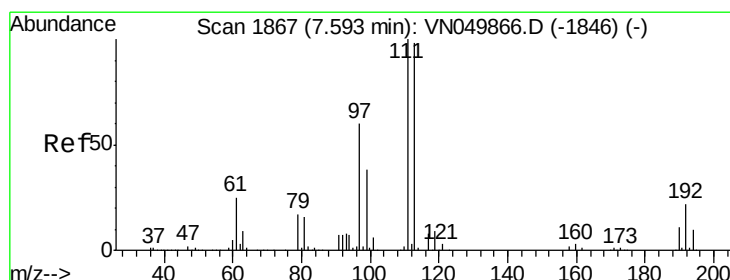
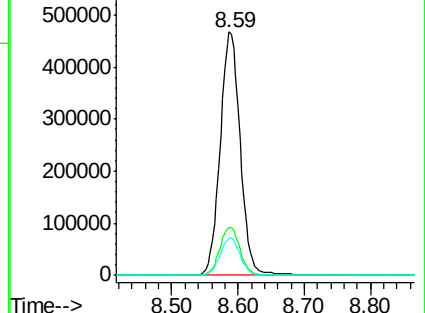
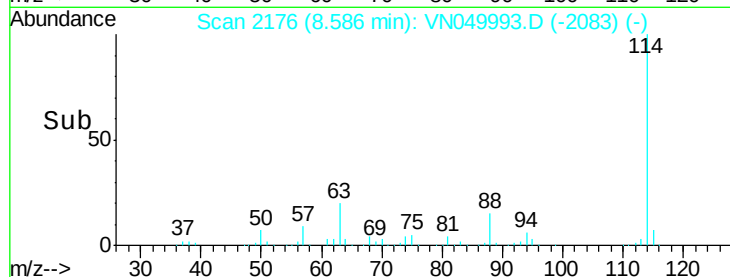
88 15.5 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 44.30 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

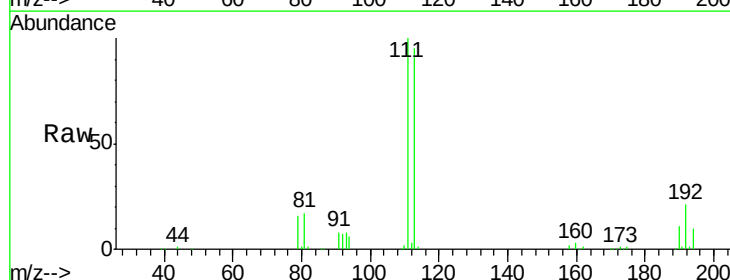
Tgt Ion:113 Resp: 364641

Ion Ratio Lower Upper

113 100

111 104.4 81.8 122.8

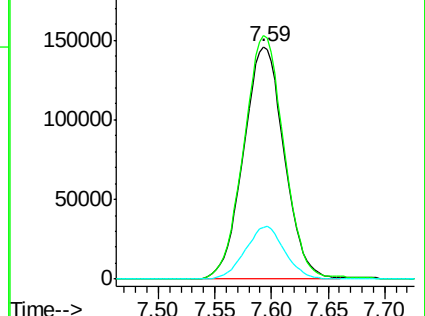
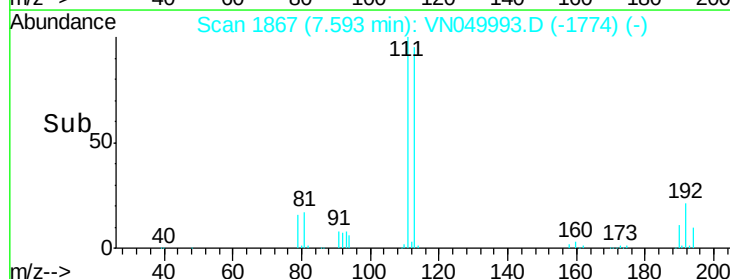
192 22.0 17.8 26.6

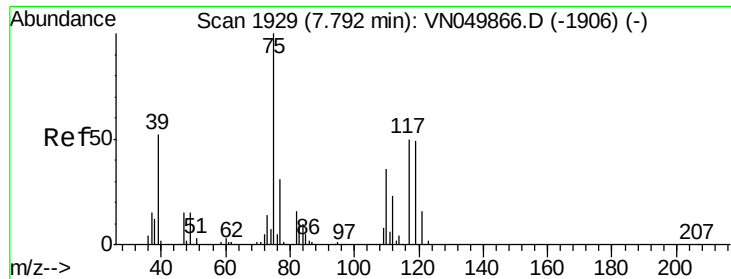


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

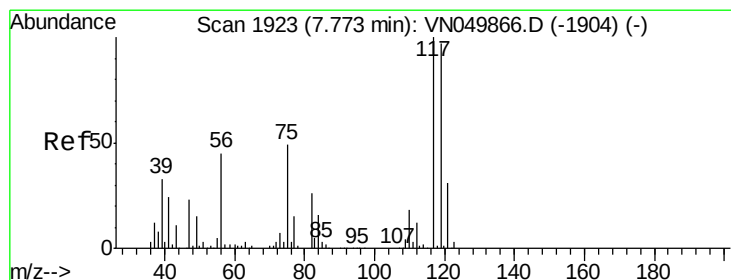
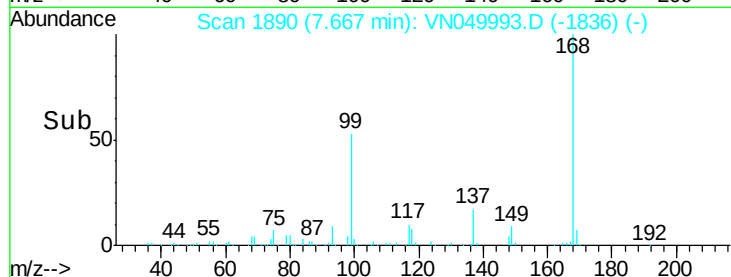
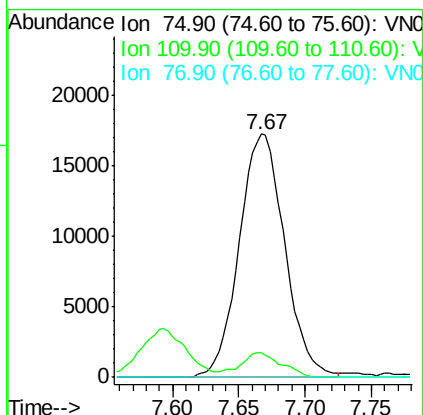
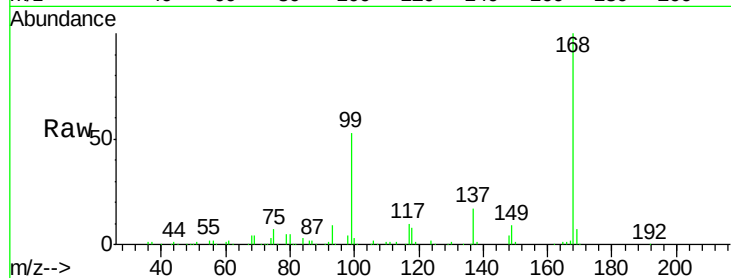




#36
 1,1-Dichloropropene
 Concen: 3.76 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049993.D
 Acq: 21 Jul 2018 6:32

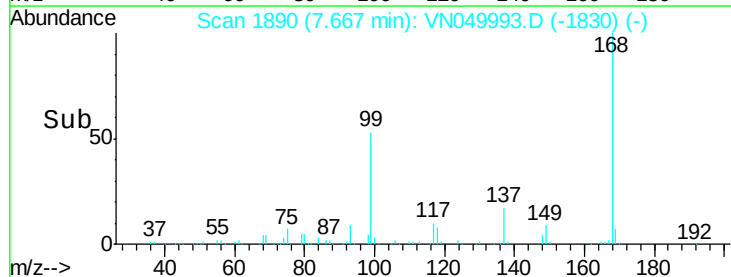
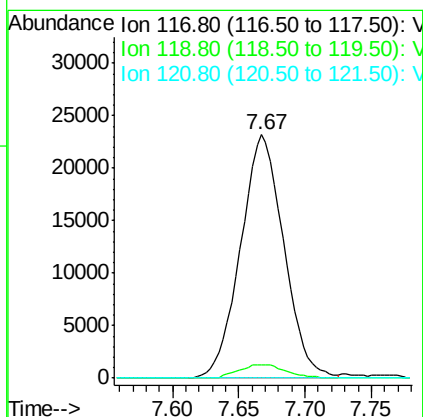
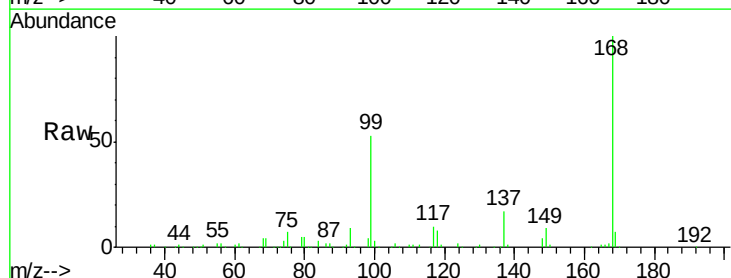
Instrument :
 MSVOA_N
 ClientSampled :
 TP-8

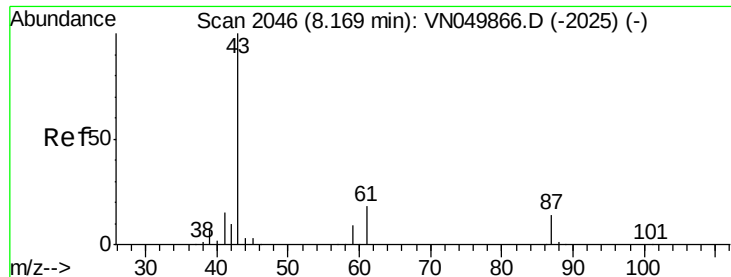
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.4#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 4.52 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049993.D
 Acq: 21 Jul 2018 6:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	77.2	115.8#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 19.56 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

Instrument :

MSVOA_N

ClientSampled :

TP-8

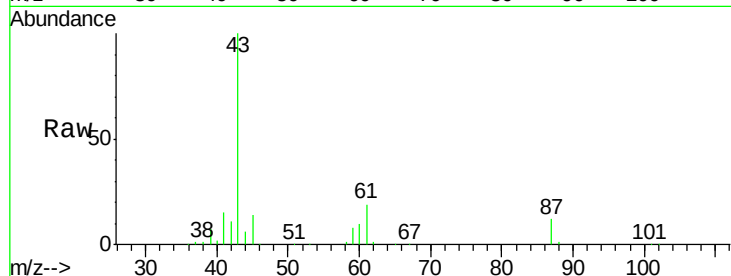
Tot Ion: 43 Resp: 255897

Ion Ratio Lower Upper

43 100

61 16.9 14.9 22.3

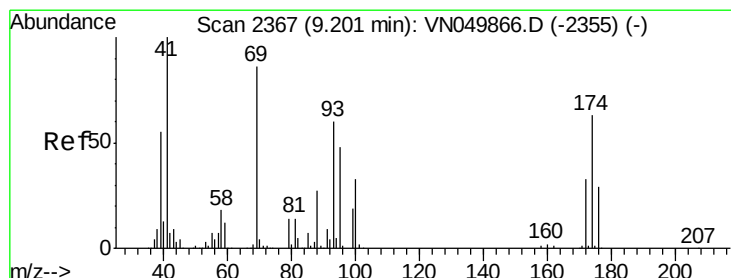
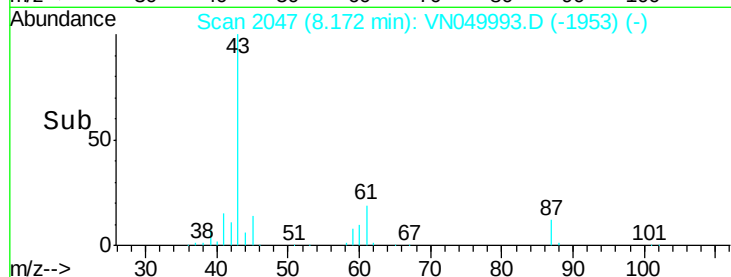
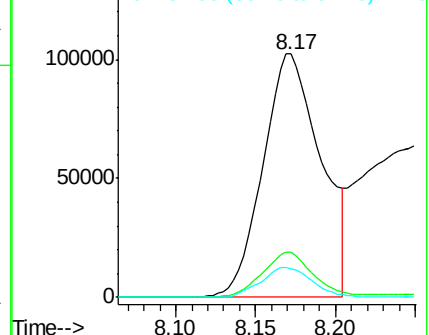
87 10.9 10.0 15.0



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



#48

Methyl methacrylate

Concen: 1.19 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

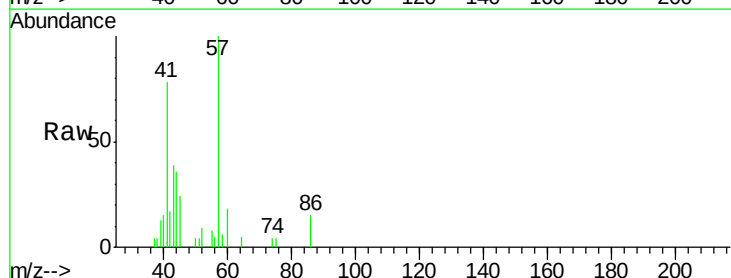
Tgt Ion: 41 Resp: 7781

Ion Ratio Lower Upper

41 100

69 0.0 71.5 107.3#

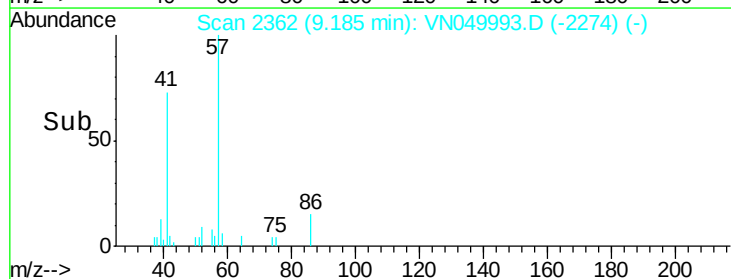
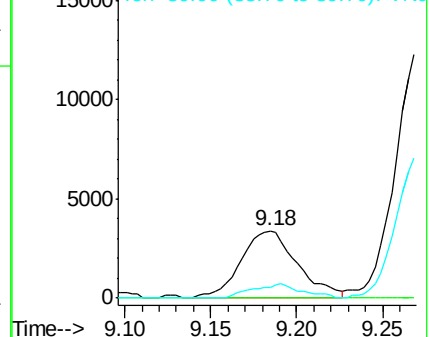
39 18.2 44.7 67.1#

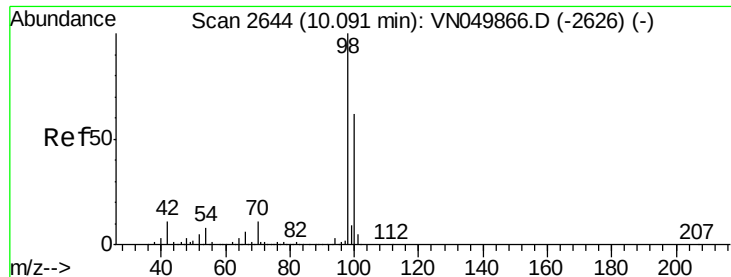


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

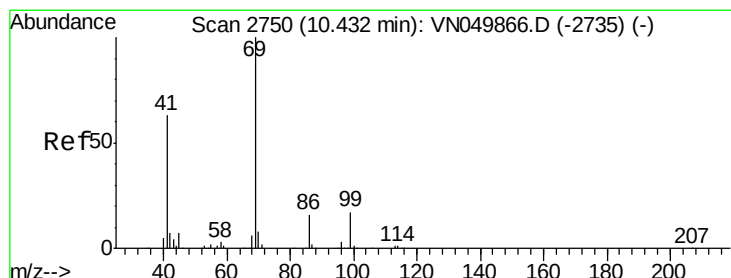
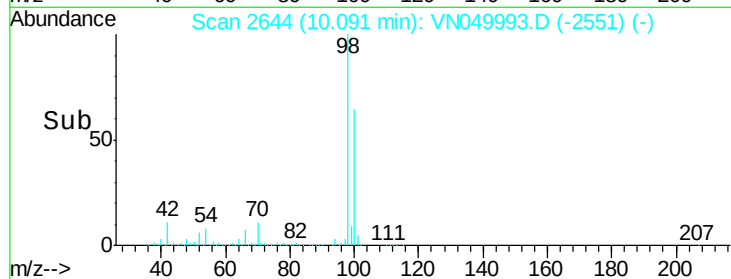
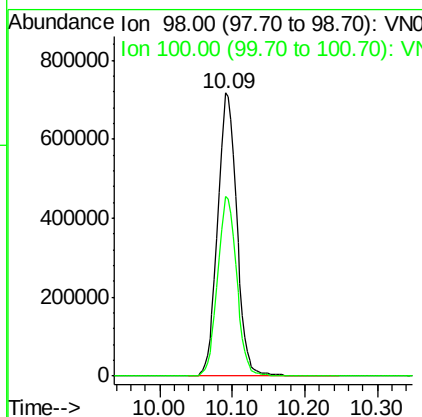
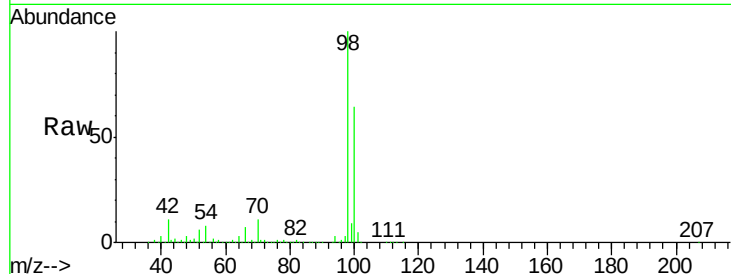




#50
Toluene-d8
Concen: 44.01 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

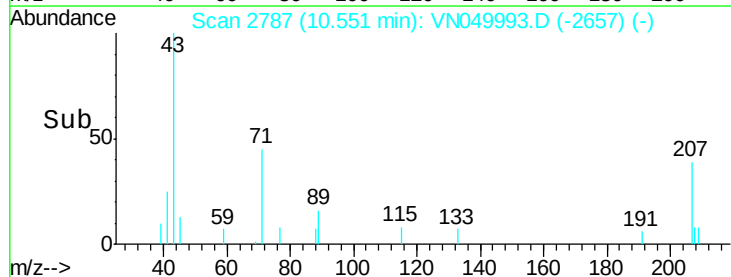
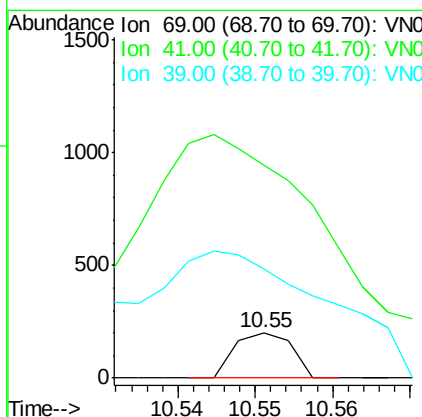
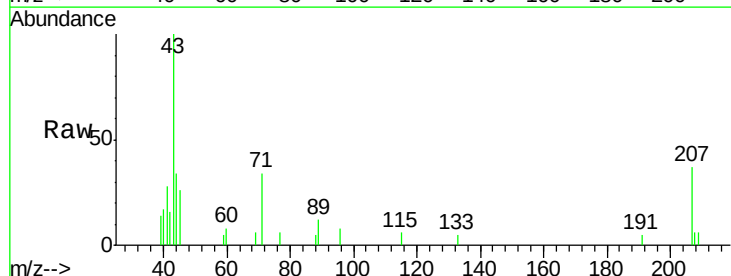
Instrument :
MSVOA_N
ClientSampled :
TP-8

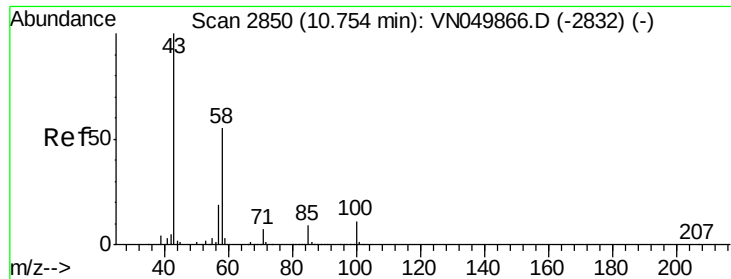
Tot Ion: 98 Resp: 1319864
Ion Ratio Lower Upper
98 100
100 63.2 51.7 77.5



#56
Ethyl methacrylate
Concen: 2.17 ug/l
RT: 10.55 min Scan# 2787
Delta R.T. 0.12 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

Tgt Ion: 69 Resp: 104
Ion Ratio Lower Upper
69 100
41 1905.8 51.6 77.4#
39 967.3 25.8 38.8#

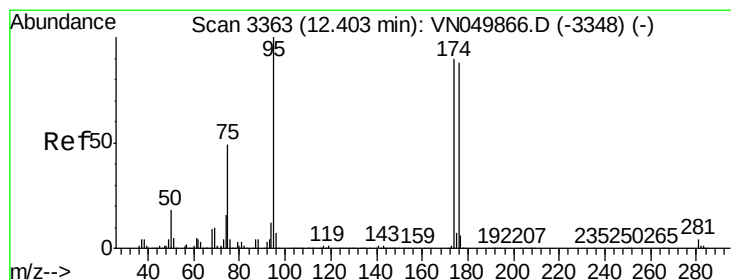
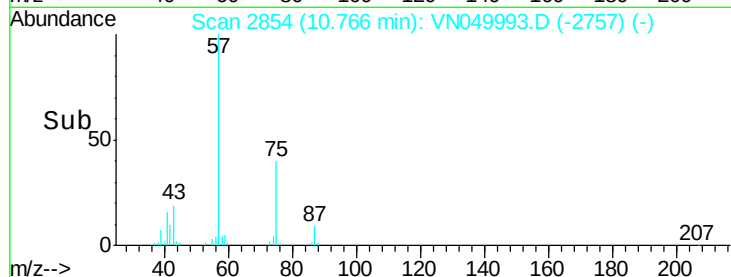
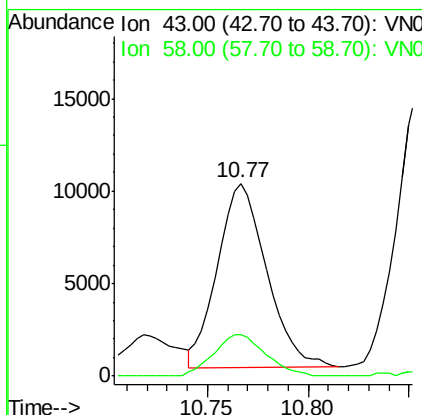
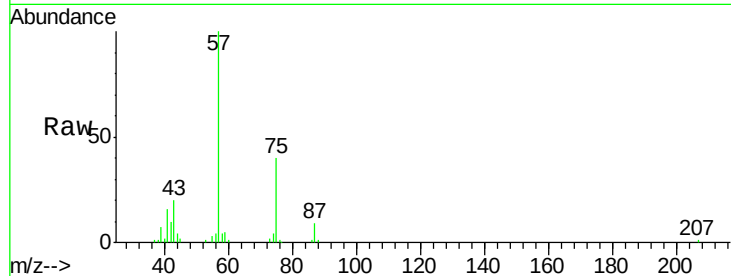




#59
2-Hexanone
Concen: 3.44 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

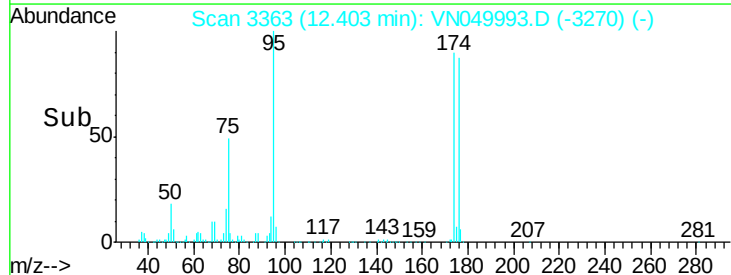
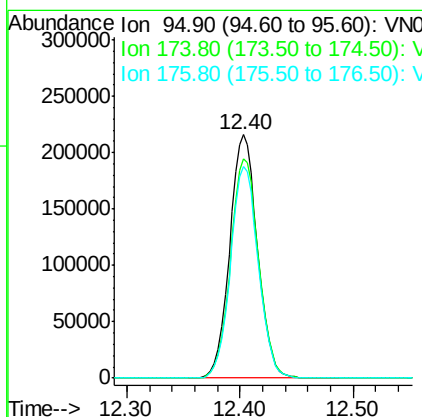
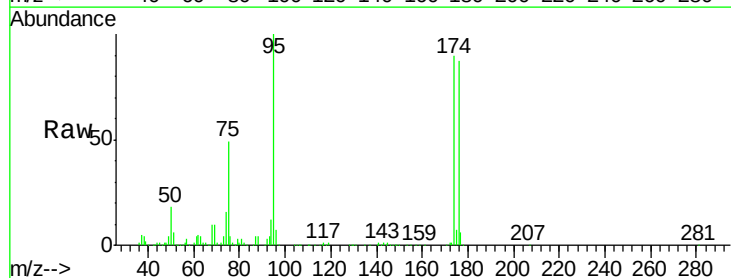
Instrument :
MSVOA_N
ClientSampled :
TP-8

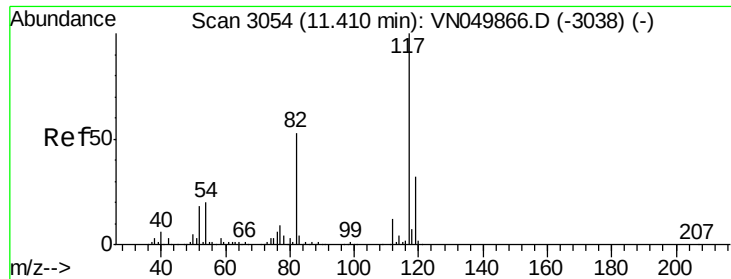
Tot Ion: 43 Resp: 16916
Ion Ratio Lower Upper
43 100
58 23.6 27.8 83.4#



#62
4-Bromofluorobenzene
Concen: 35.46 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

Tgt Ion: 95 Resp: 366237
Ion Ratio Lower Upper
95 100
174 91.7 0.0 179.6
176 87.2 0.0 174.0

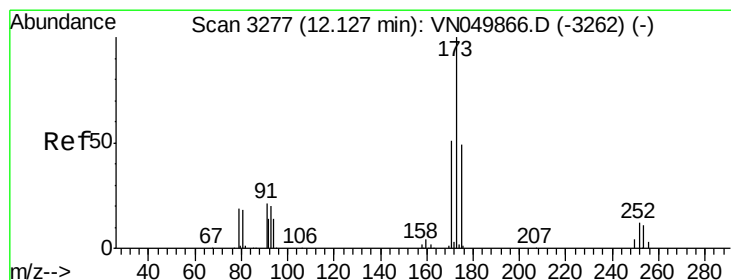
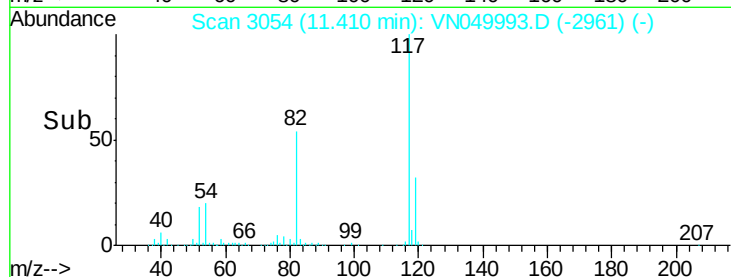
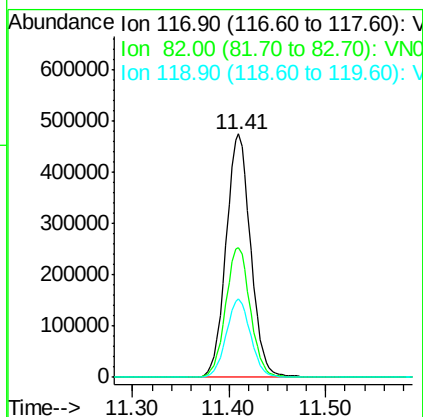
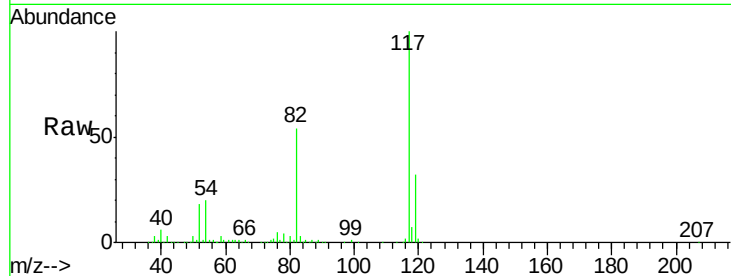




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

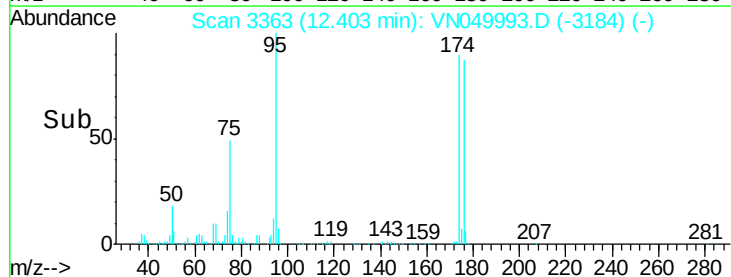
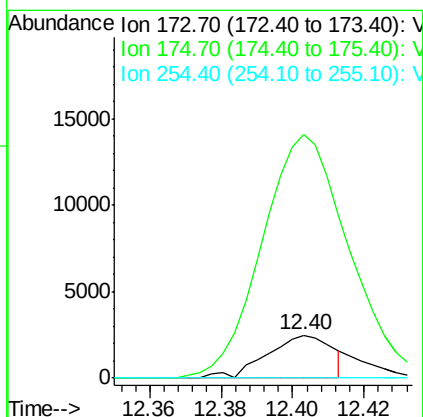
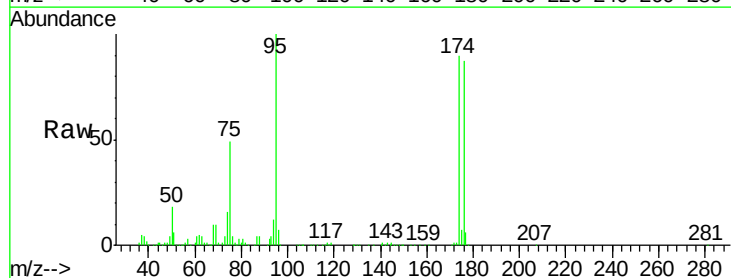
Instrument :
MSVOA_N
ClientSampled :
TP-8

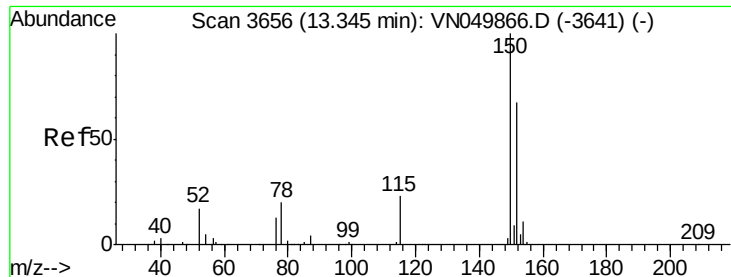
Tot Ion:117 Resp: 837142
Ion Ratio Lower Upper
117 100
82 53.5 41.9 62.9
119 32.0 25.4 38.2



#71
Bromoform
Concen: 0.54 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

Tgt Ion:173 Resp: 3127
Ion Ratio Lower Upper
173 100
175 616.0 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

Instrument :

MSVOA_N

ClientSampleId :

TP-8

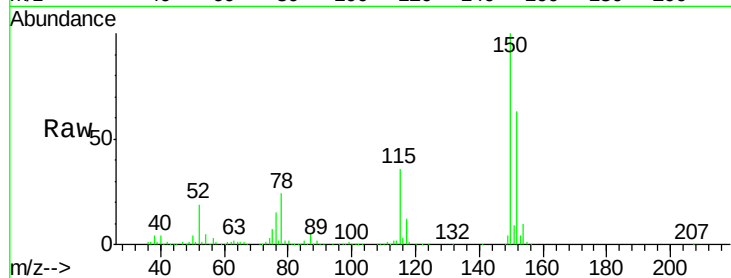
Tot Ion:152 Resp: 311500

Ion Ratio Lower Upper

152 100

115 56.4 28.1 84.2

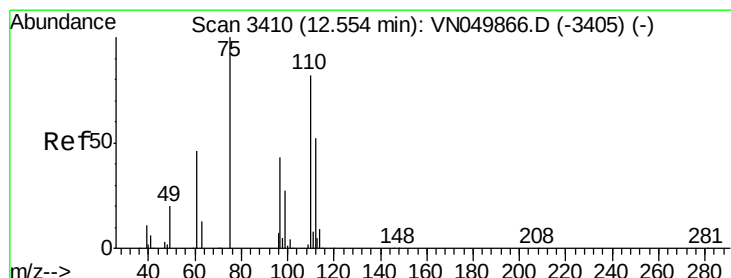
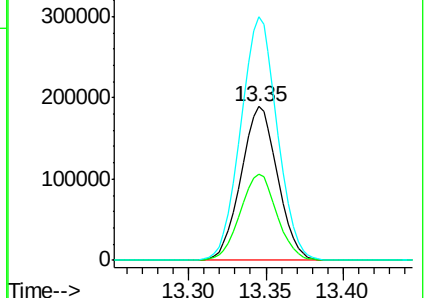
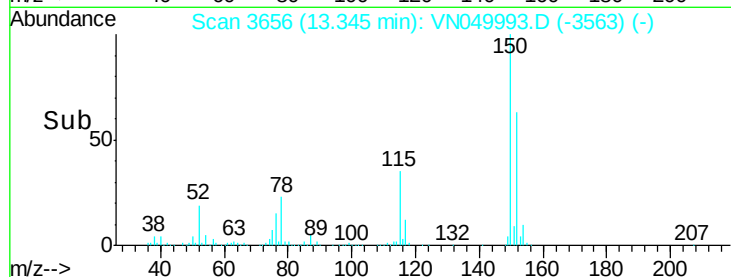
150 157.9 0.0 347.6



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: 30.88 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049993.D

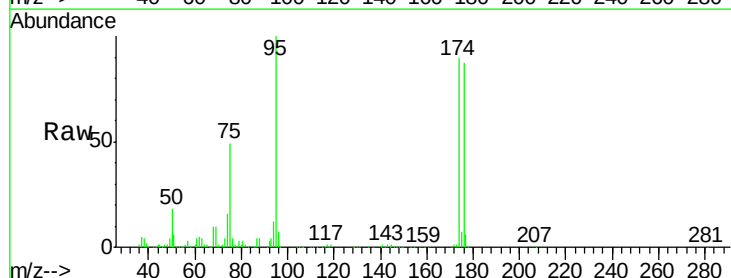
Acq: 21 Jul 2018 6:32

Tgt Ion: 75 Resp: 180442

Ion Ratio Lower Upper

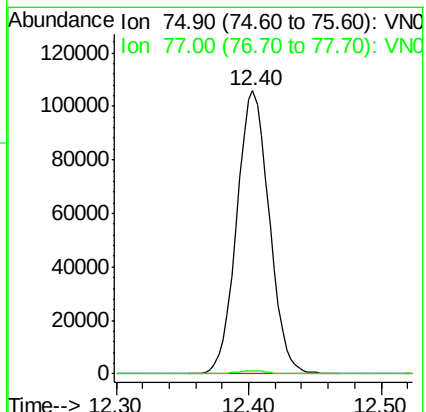
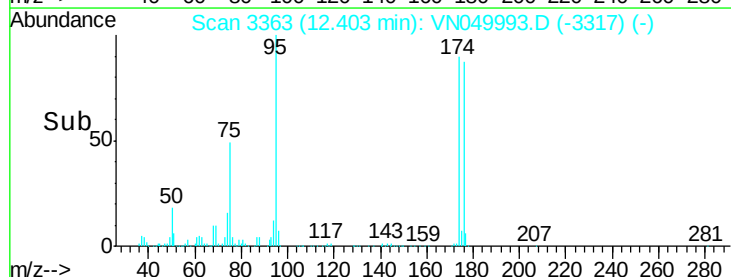
75 100

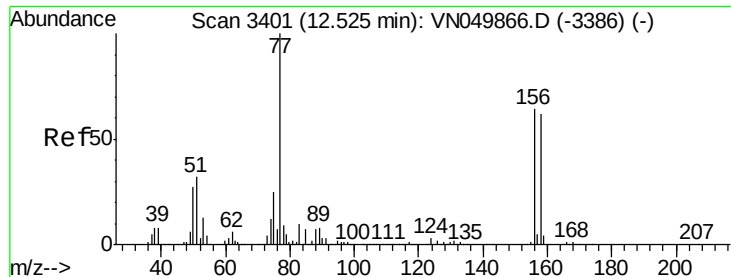
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 0.22 ug/l

RT: 12.55 min Scan# 3408

Delta R.T. 0.02 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

Instrument :

MSVOA_N

ClientSampled :

TP-8

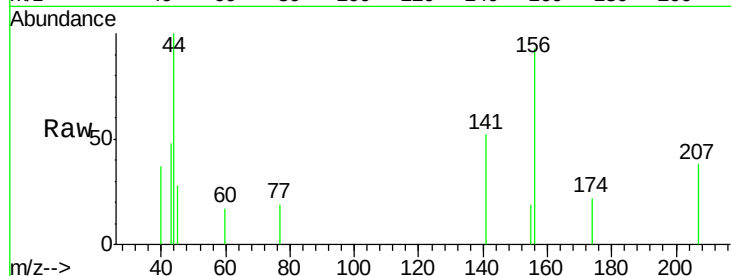
Tot Ion:156 Resp: 1463

Ion Ratio Lower Upper

156 100

77 9.6 90.2 270.6#

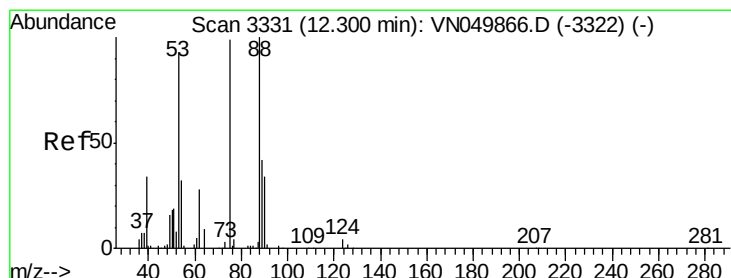
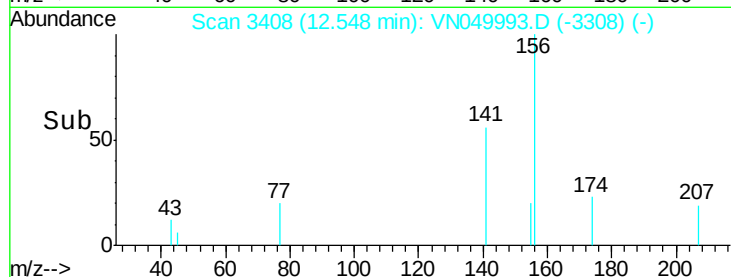
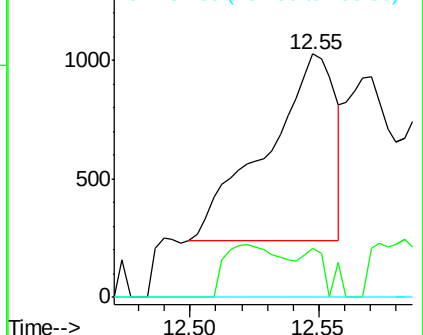
158 0.0 49.1 147.3#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 96.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

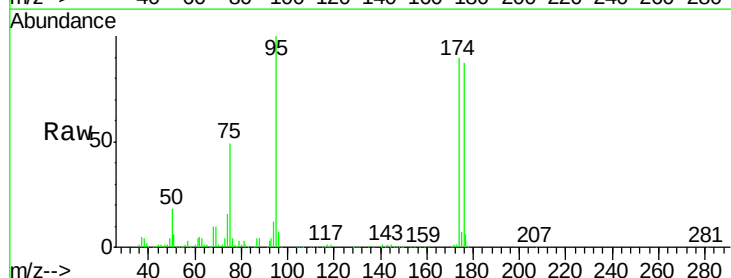
Tgt Ion: 75 Resp: 180442

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

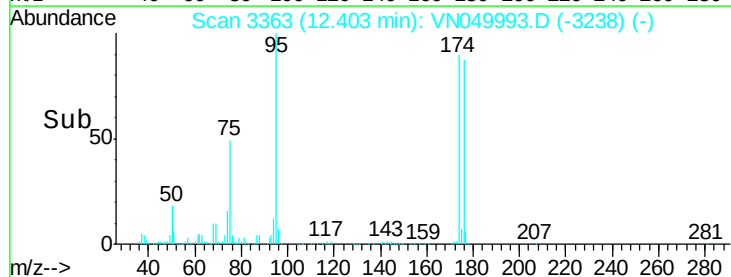
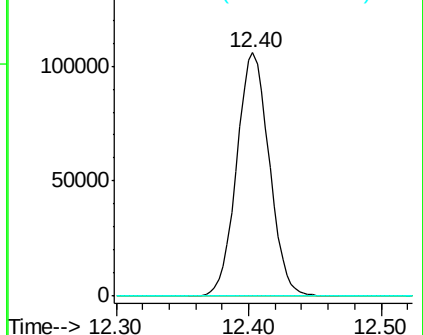
89 0.0 35.9 53.9#

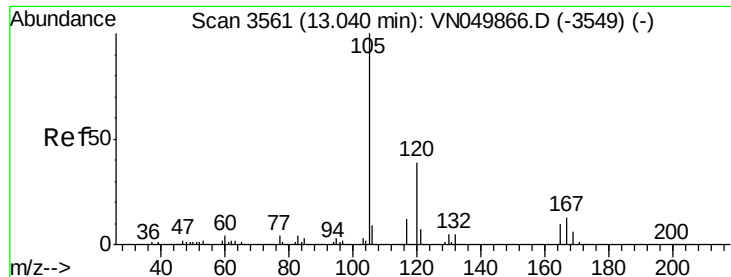


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 0.37 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. 0.00 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

Instrument :

MSVOA_N

ClientSampled :

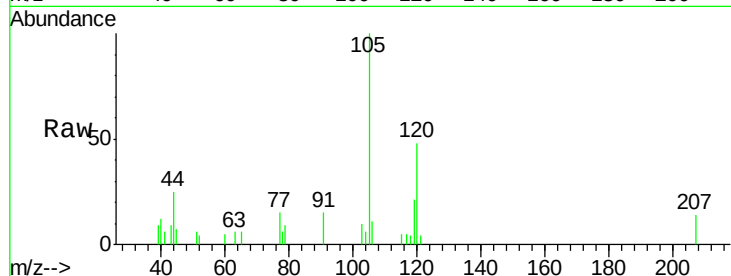
TP-8

Tot Ion:105 Resp: 7175

Ion Ratio Lower Upper

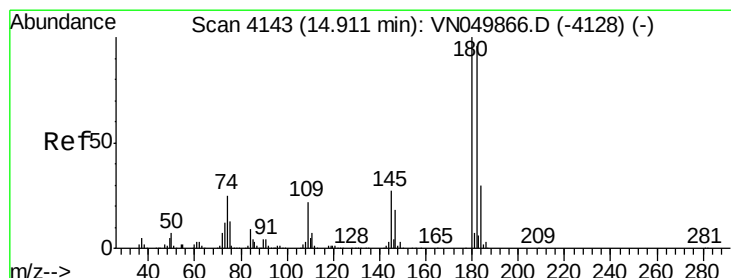
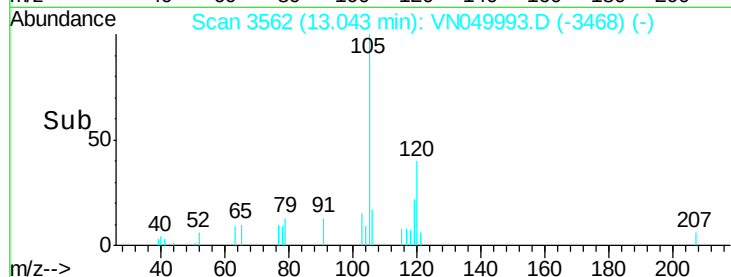
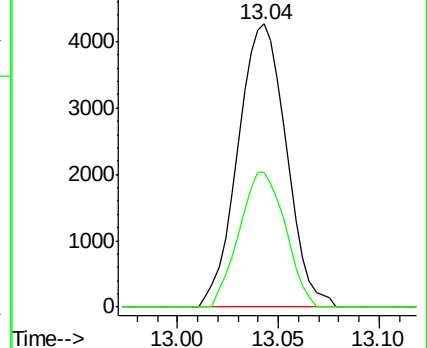
105 100

120 45.3 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 3.53 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.01 min

Lab File: VN049993.D

Acq: 21 Jul 2018 6:32

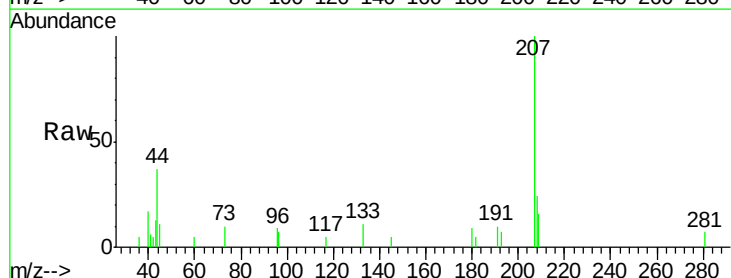
Tgt Ion:180 Resp: 382

Ion Ratio Lower Upper

180 100

182 50.5 47.3 141.9

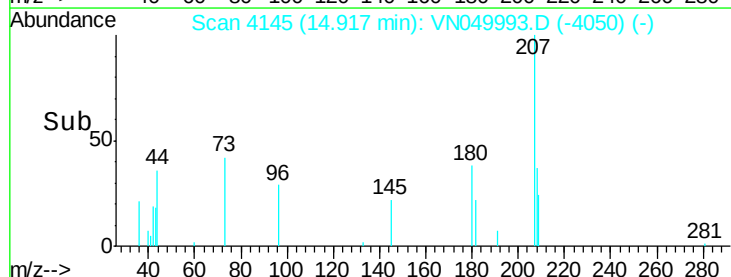
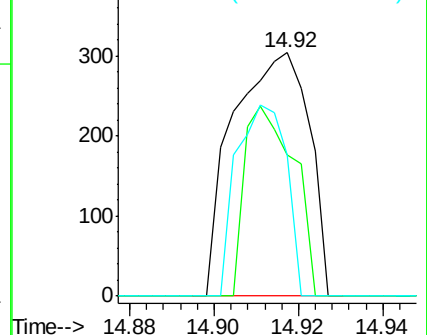
145 51.8 14.4 43.0#

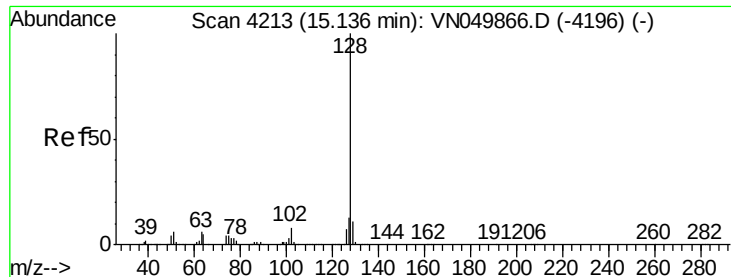


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

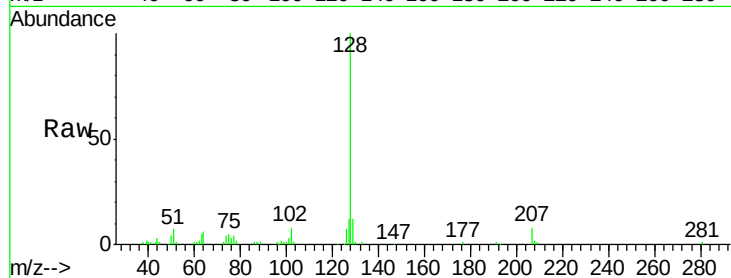




#95
Naphthalene
Concen: 8.38 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049993.D
Acq: 21 Jul 2018 6:32

Instrument :
MSVOA_N
ClientSampleId :
TP-8

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.4	15.6
129	12.2	8.6	13.0



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

