

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050683.D
 Acq On : 16 Aug 2018 4:01
 Operator : MD\SY
 Sample : J4471-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Quant Time: Aug 16 04:53:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	598100	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1002637	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	863453	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	309007	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	415700	55.14	ug/l	0.00
Spiked Amount			Recovery	=	110.28%	
35) Dibromofluoromethane	7.59	113	388881	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
50) Toluene-d8	10.09	98	1378318	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	
62) 4-Bromofluorobenzene	12.40	95	381130	38.29	ug/l	0.00
Spiked Amount			Recovery	=	76.58%	

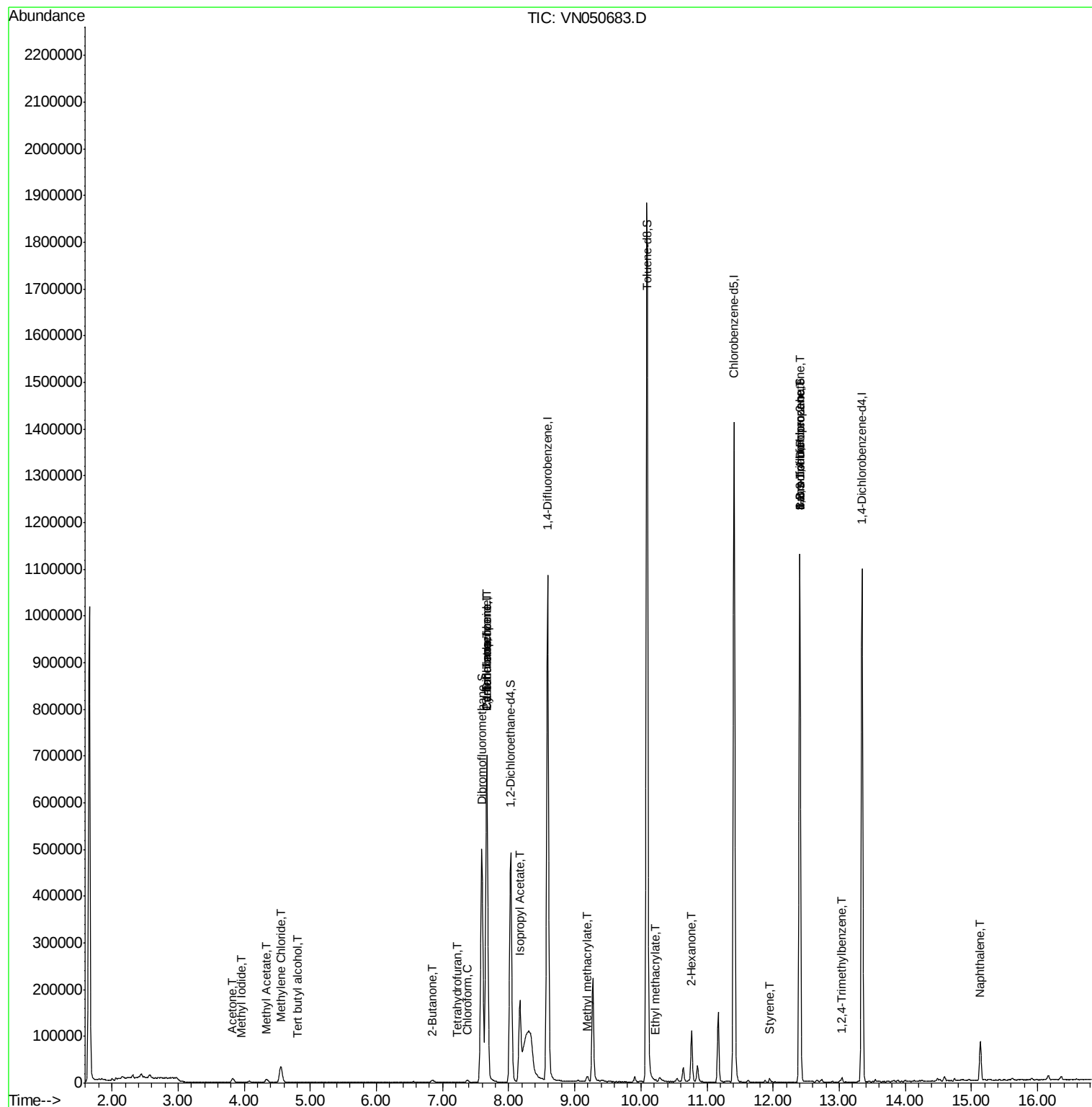
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2942	Below Cal		100
5) Bromomethane	2.57	94	3504	Below Cal		91
6) Chloroethane	2.68	64	151	Below Cal	#	43
10) Methyl Iodide	3.95	142	625	7.06	ug/l #	89
11) Tert butyl alcohol	4.80	59	362	0.88	ug/l #	72
16) Acetone	3.82	43	15216	6.67	ug/l	99
18) Methyl Acetate	4.33	43	13461	1.58	ug/l	98
20) Methylene Chloride	4.55	84	27244	2.60	ug/l	96
25) 2-Butanone	6.85	43	6776	2.19	ug/l #	88
29) Tetrahydrofuran	7.22	42	962	0.60	ug/l #	58
30) Chloroform	7.38	83	5708	0.42	ug/l	94
31) Cyclohexane	7.66	56	11588	0.67	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42581	3.82	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54733	4.73	ug/l #	16
43) Isopropyl Acetate	8.17	43	218035	18.96	ug/l	98
48) Methyl methacrylate	9.18	41	7514	1.30	ug/l #	21
56) Ethyl methacrylate	10.23	69	1863	2.09	ug/l #	87
59) 2-Hexanone	10.76	43	17438	3.47	ug/l #	60
70) Styrene	11.96	104	30	0.94	ug/l #	26
71) Bromoform	12.40	173	1484	0.28	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	102	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	179874	35.74	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	179874	129.41	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	5456	0.28	ug/l	99
95) Naphthalene	15.13	128	76660	9.81	ug/l	100

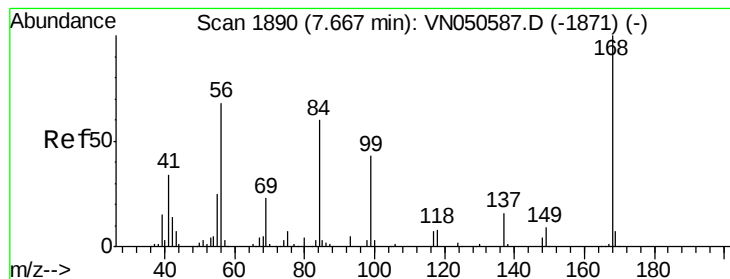
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 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: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :

MSVOA_N

ClientSampled :

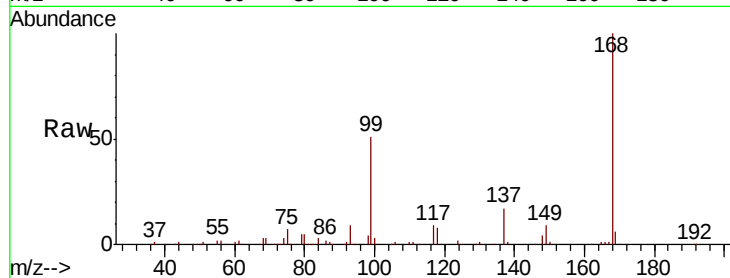
TP-4

Tot Ion:168 Resp: 598100

Ion Ratio Lower Upper

168 100

99 50.6 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

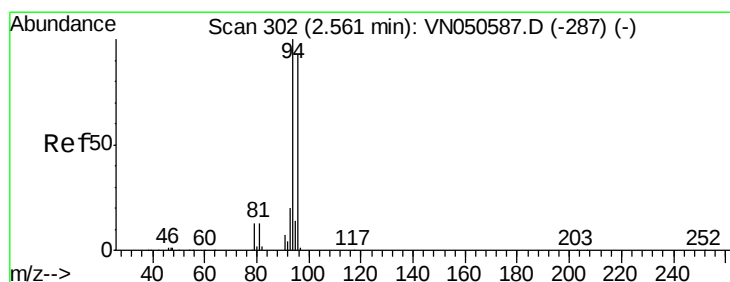
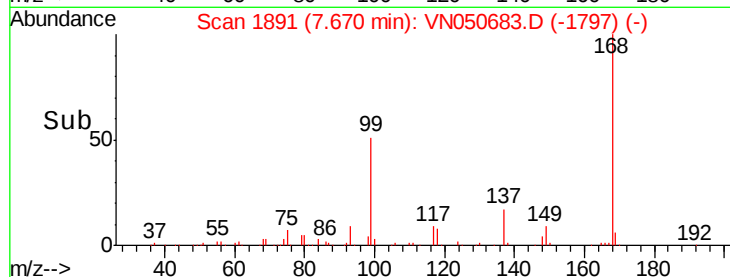
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050683.D

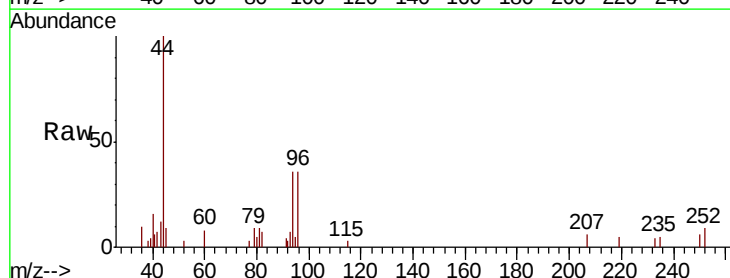
Acq: 16 Aug 2018 4:01

Tgt Ion: 94 Resp: 3504

Ion Ratio Lower Upper

94 100

96 100.7 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.57

2000

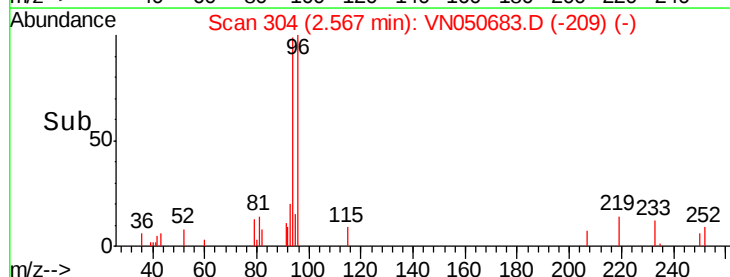
1500

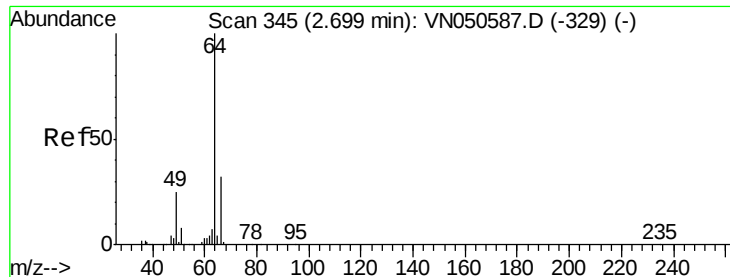
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 340

Delta R.T. -0.02 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :

MSVOA_N

ClientSampled :

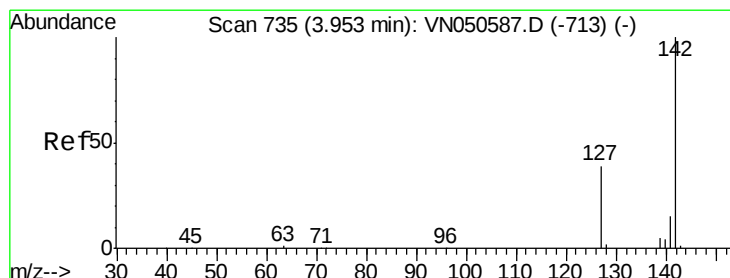
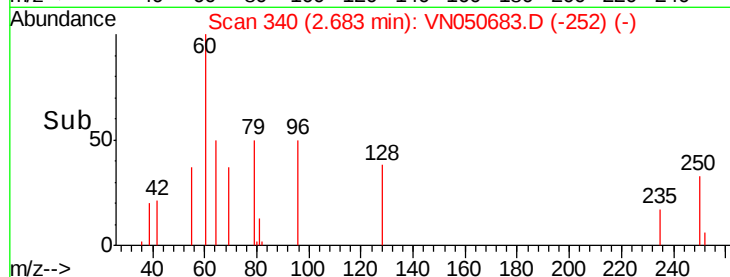
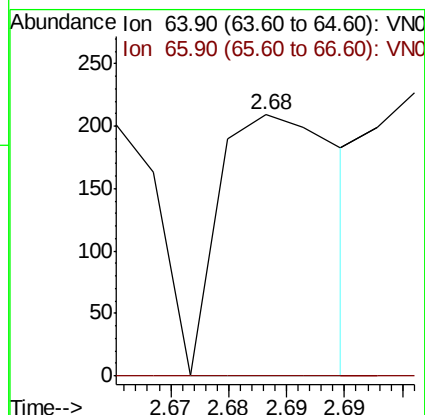
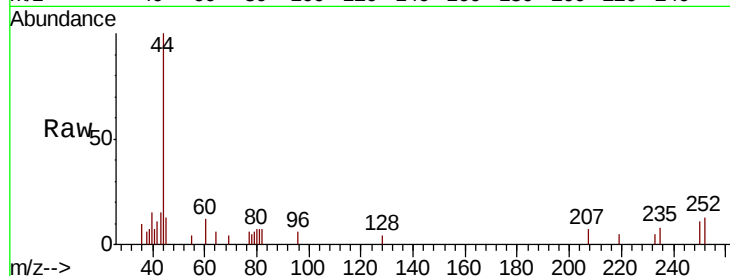
TP-4

Tot Ion: 64 Resp: 151

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



#10

Methyl Iodide

Concen: 7.06 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

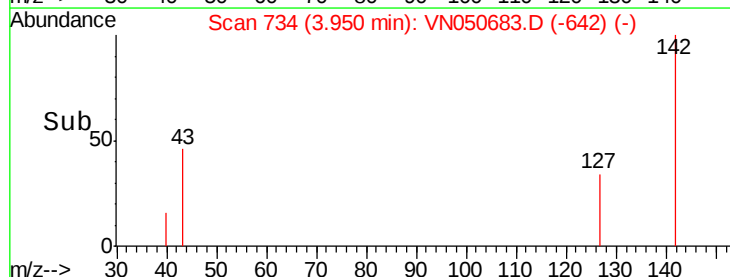
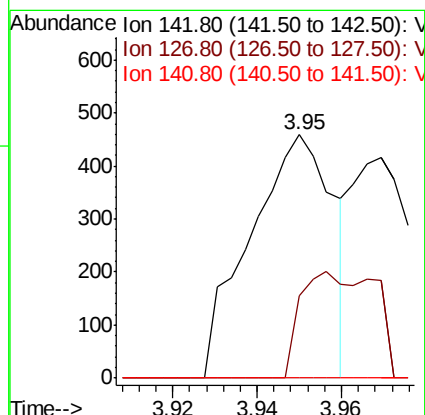
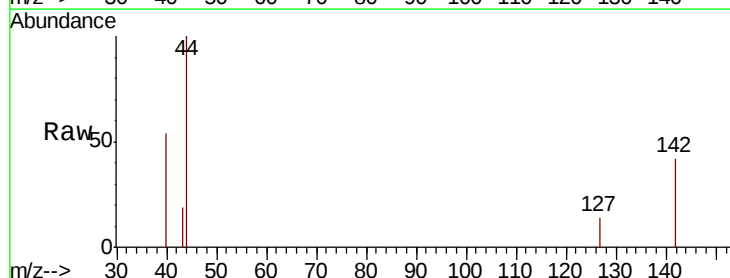
Tgt Ion: 142 Resp: 625

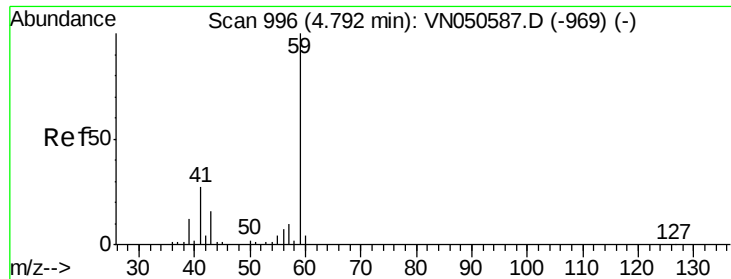
Ion Ratio Lower Upper

142 100

127 39.2 32.6 49.0

141 0.0 11.5 17.3#

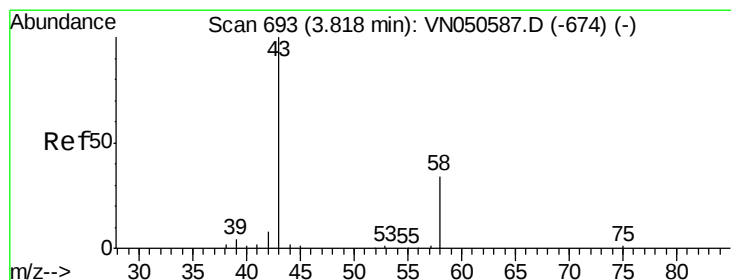
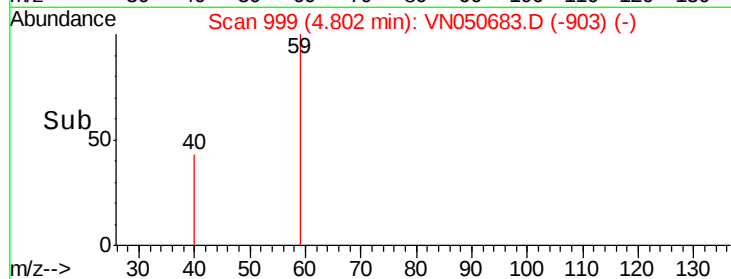
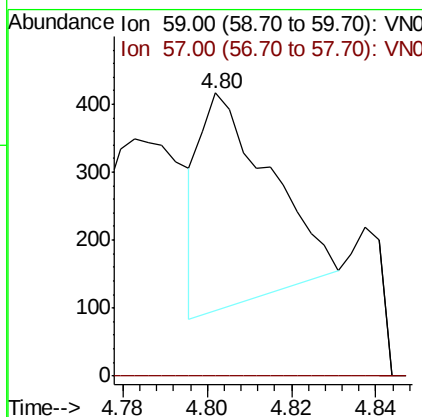
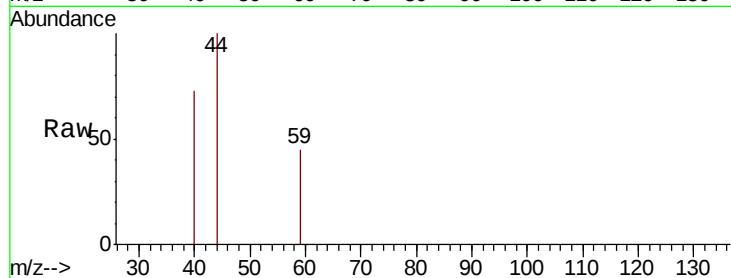




#11
Tert butyl alcohol
Concen: 0.88 ug/l
RT: 4.80 min Scan# 999
Delta R.T. 0.01 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

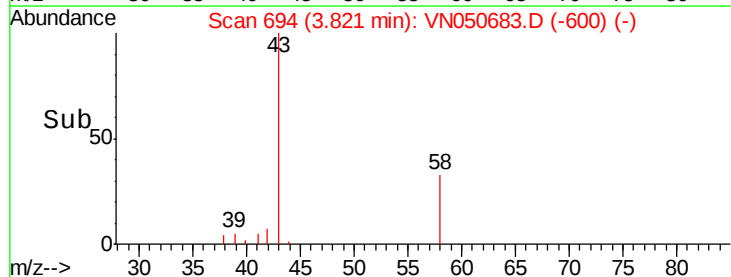
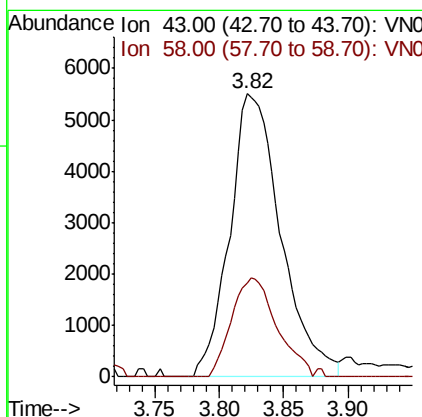
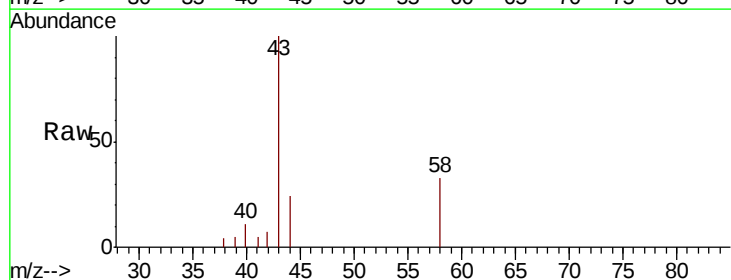
Instrument :
MSVOA_N
ClientSampled :
TP-4

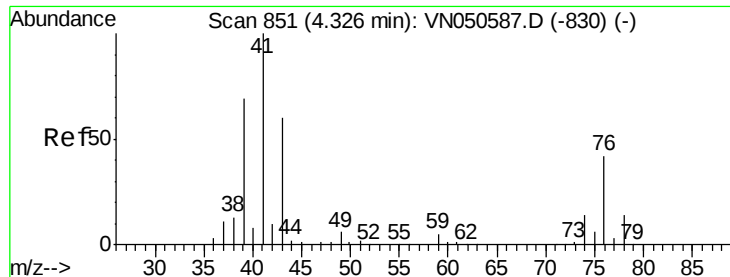
Tot Ion: 59 Resp: 362
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 6.67 ug/l
RT: 3.82 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

Tgt Ion: 43 Resp: 15216
Ion Ratio Lower Upper
43 100
58 33.4 27.1 40.7

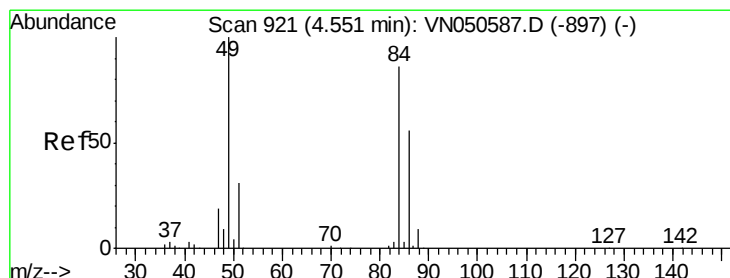
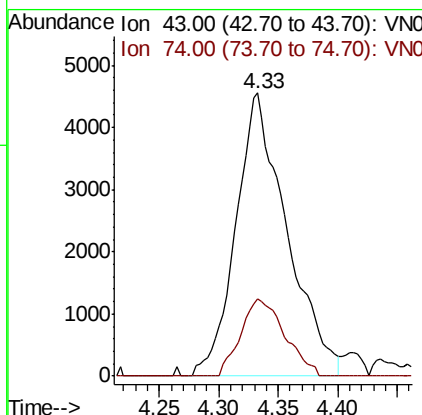
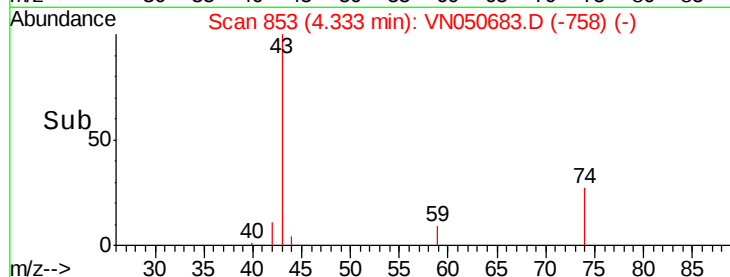
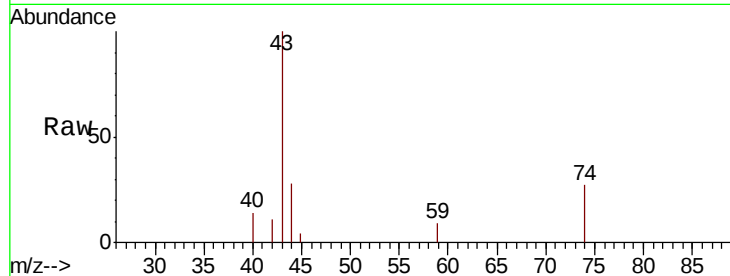




#18
Methyl Acetate
Concen: 1.58 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

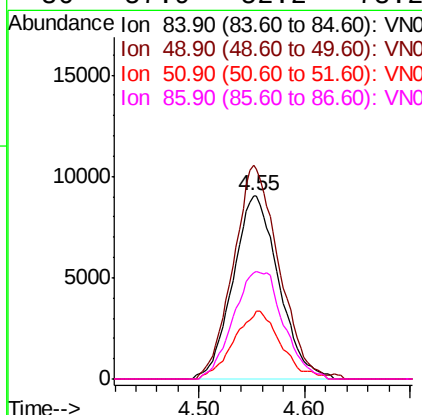
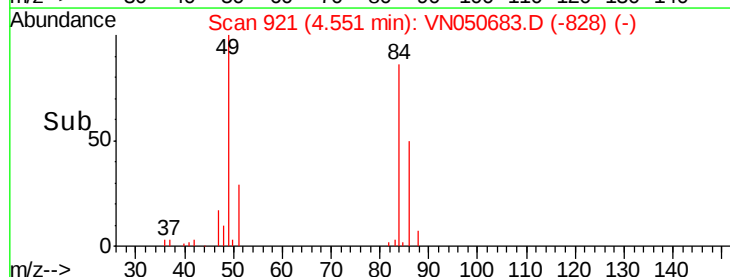
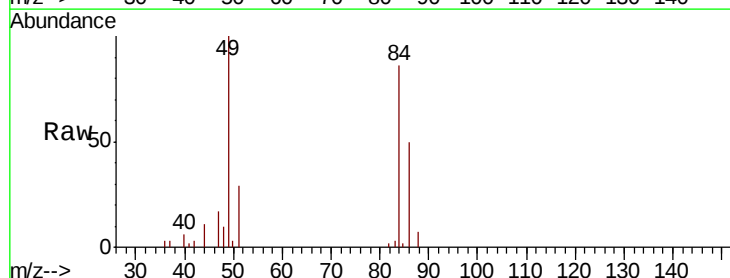
Instrument :
MSVOA_N
ClientSampled :
TP-4

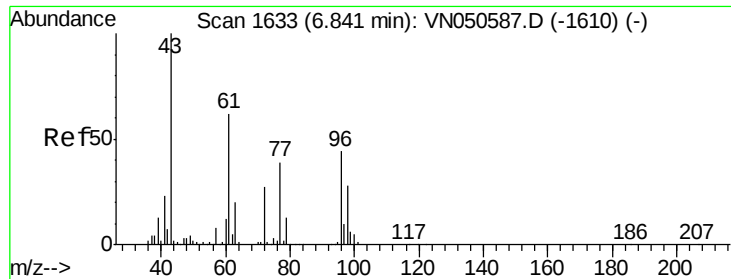
Tot Ion: 43 Resp: 13461
Ion Ratio Lower Upper
43 100
74 23.6 19.7 29.5



#20
Methylene Chloride
Concen: 2.60 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

Tgt Ion: 84 Resp: 27244
Ion Ratio Lower Upper
84 100
49 116.6 92.6 138.8
51 34.0 28.6 43.0
86 57.9 52.2 78.2

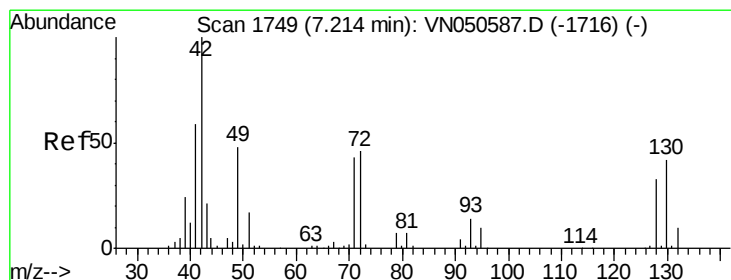
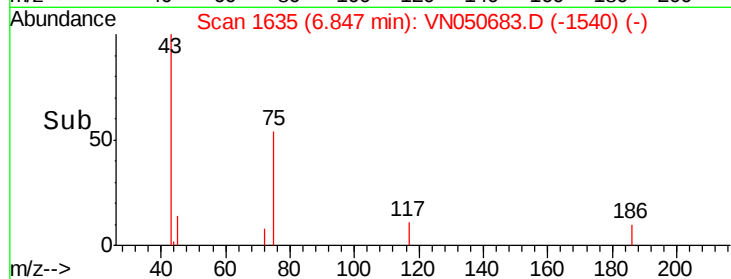
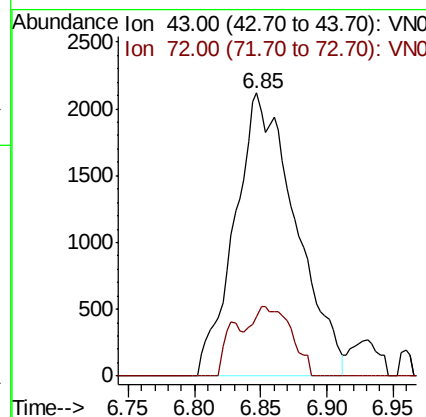
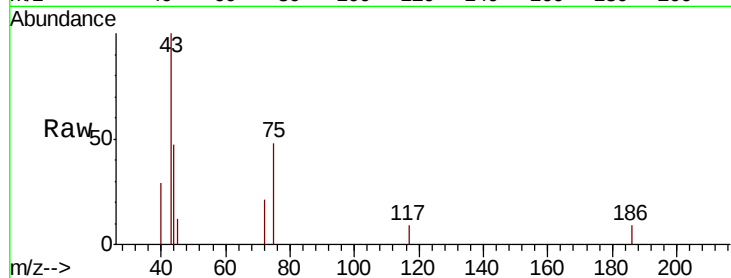




#25
2-Butanone
Concen: 2.19 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

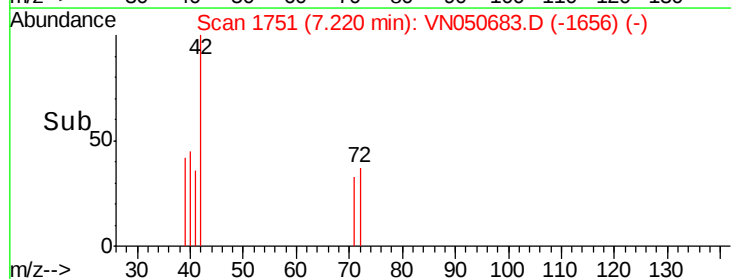
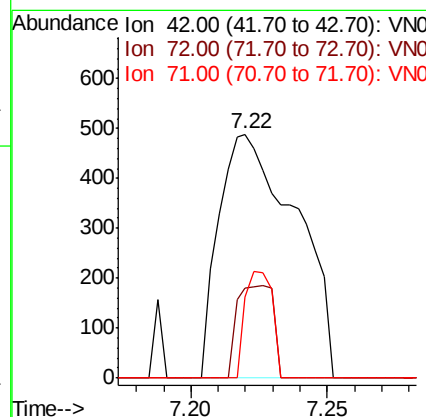
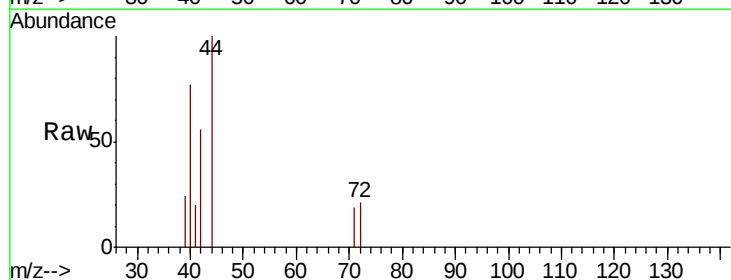
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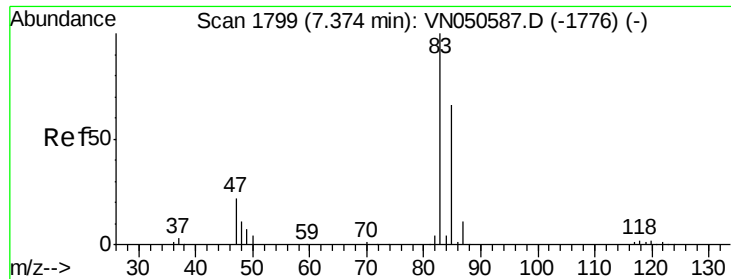
Tot Ion: 43 Resp: 6776
Ion Ratio Lower Upper
43 100
72 20.8 21.8 32.6#



#29
Tetrahydrofuran
Concen: 0.60 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.01 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

Tgt Ion: 42 Resp: 962
Ion Ratio Lower Upper
42 100
72 17.8 35.8 53.6#
71 15.3 33.4 50.0#





#30

Chloroform

Concen: 0.42 ug/l

RT: 7.38 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :

MSVOA_N

ClientSampled :

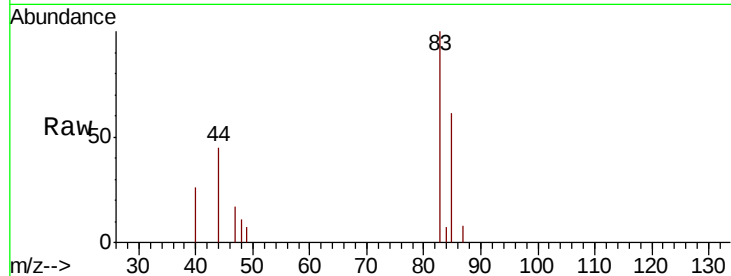
TP-4

Tot Ion: 83 Resp: 5708

Ion Ratio Lower Upper

83 100

85 60.7 52.5 78.7



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

7.38

2500

2000

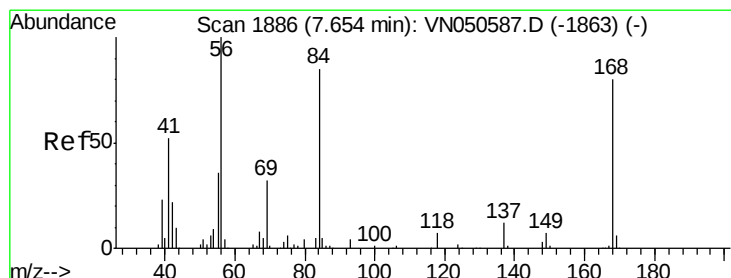
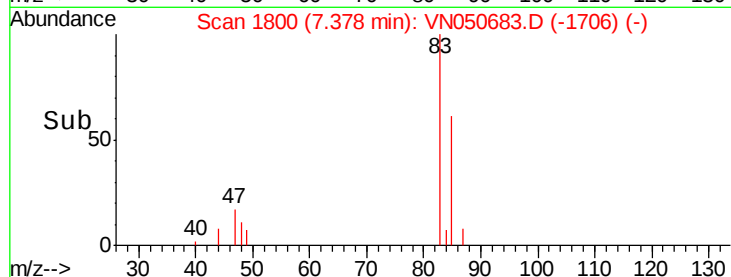
1500

1000

500

0

Time-->



#31

Cyclohexane

Concen: 0.67 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

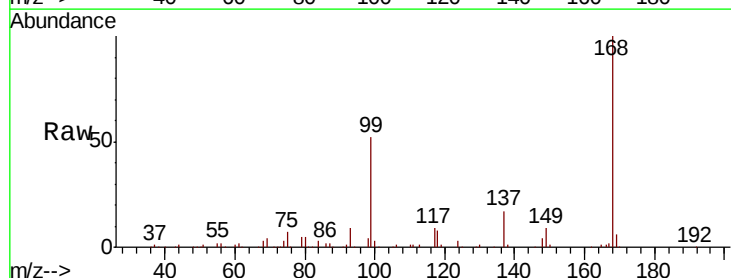
Tgt Ion: 56 Resp: 11588

Ion Ratio Lower Upper

56 100

69 176.4 25.8 38.6#

84 126.4 67.8 101.6#



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

12000

10000

8000

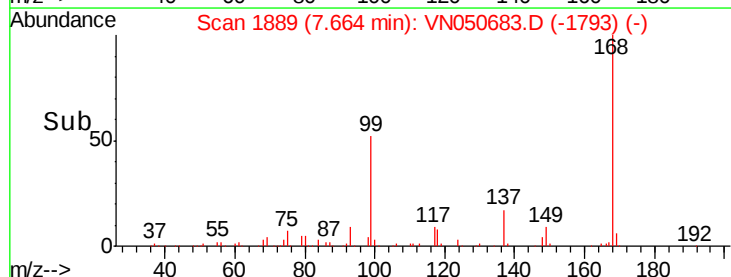
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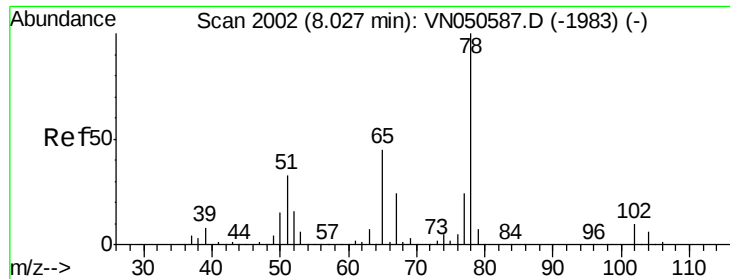
4000

2000

0

Time-->

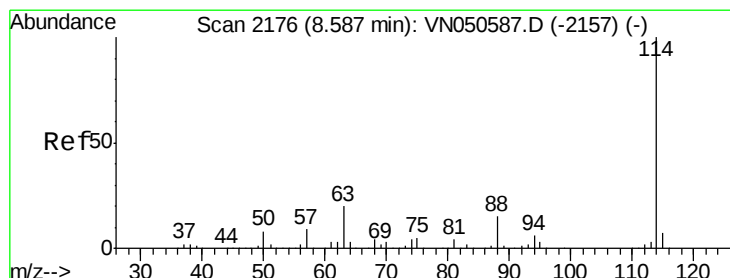
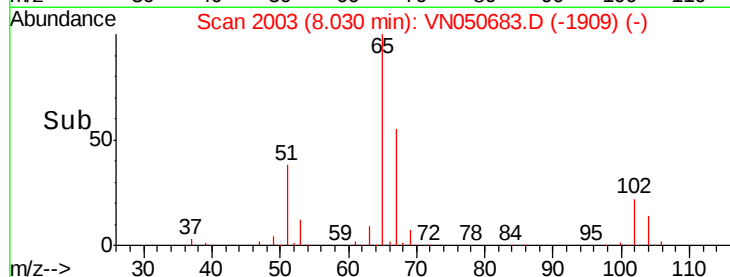
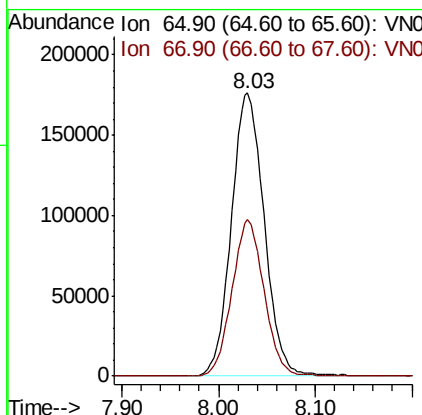
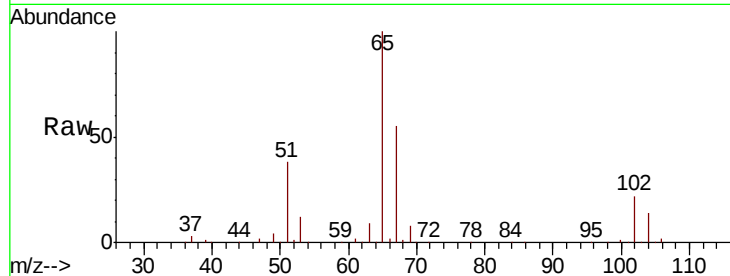




#33
 1,2-Dichloroethane-d4
 Concen: 55.14 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050683.D
 Acq: 16 Aug 2018 4:01

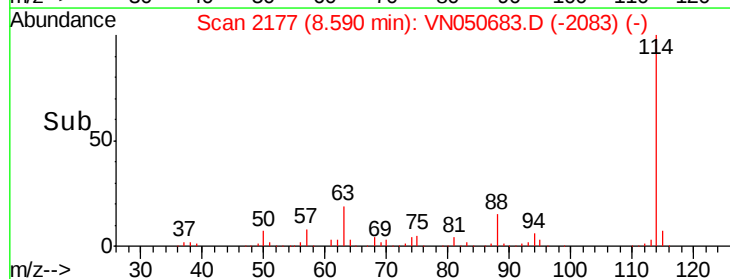
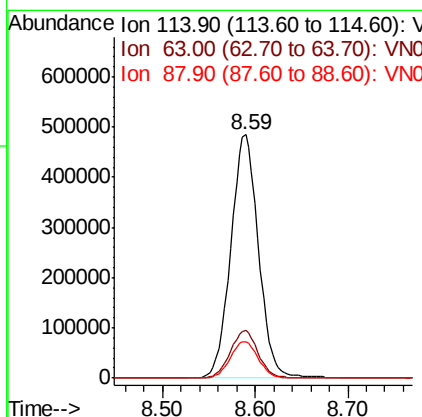
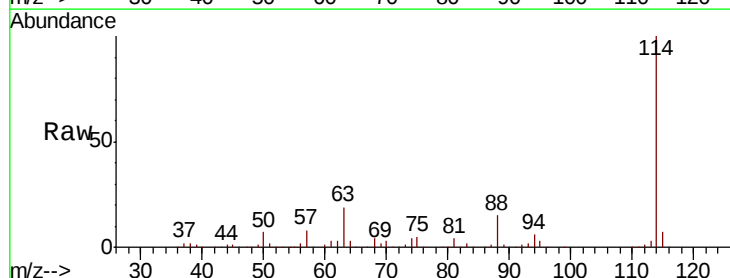
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 TP-4

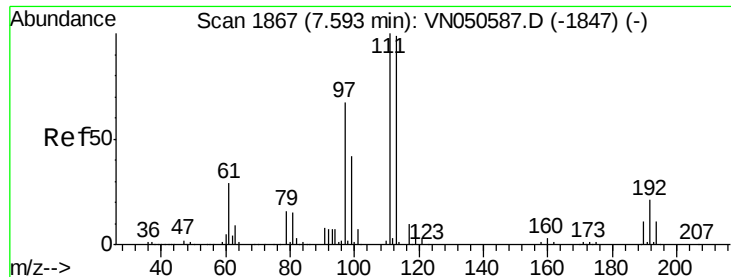
Tot Ion: 65 Resp: 415700
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050683.D
 Acq: 16 Aug 2018 4:01

Tgt Ion: 114 Resp: 1002637
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.0 0.0 30.8

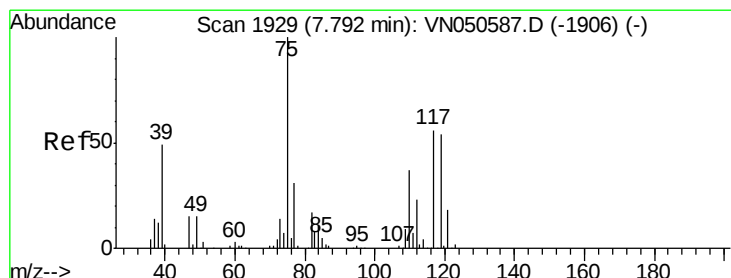
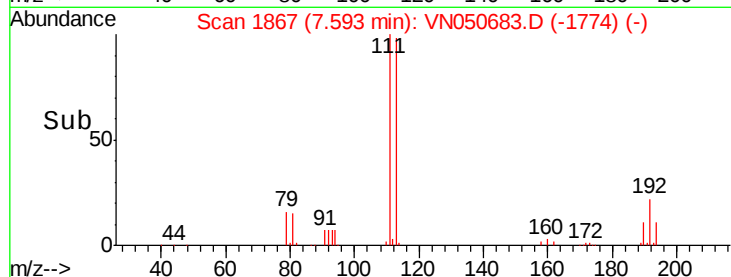
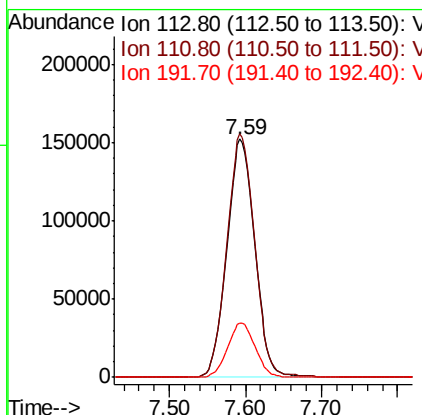
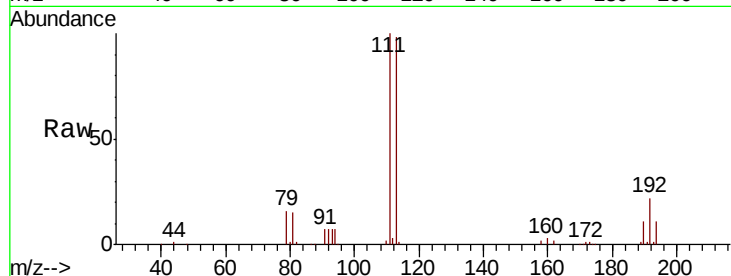




#35
Dibromofluoromethane
Concen: 48.58 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

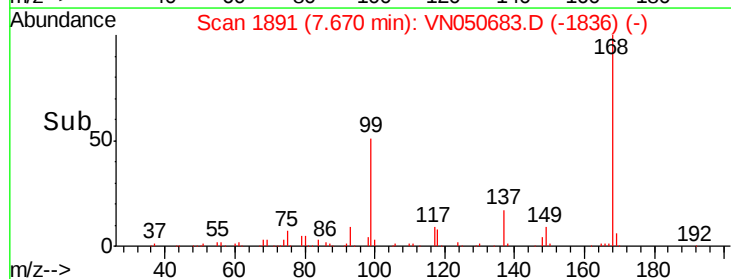
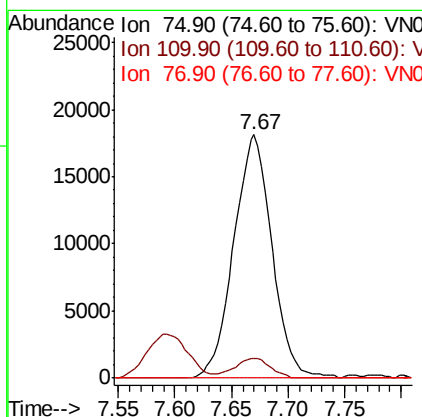
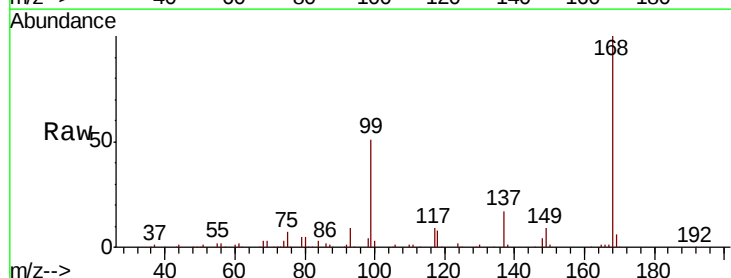
Instrument :
MSVOA_N
ClientSampled :
TP-4

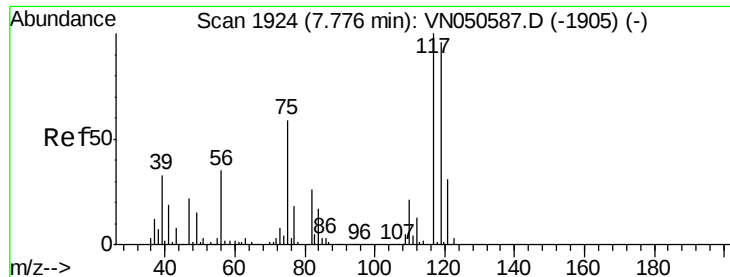
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.0	121.6
192	22.4	17.6	26.4



#36
1,1-Dichloropropene
Concen: 3.82 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.12 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	18.3	54.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 4.73 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :

MSVOA_N

ClientSampleId :

TP-4

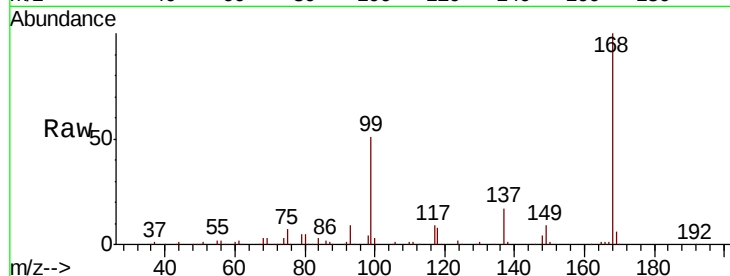
Tot Ion:117 Resp: 54733

Ion Ratio Lower Upper

117 100

119 4.9 76.6 115.0#

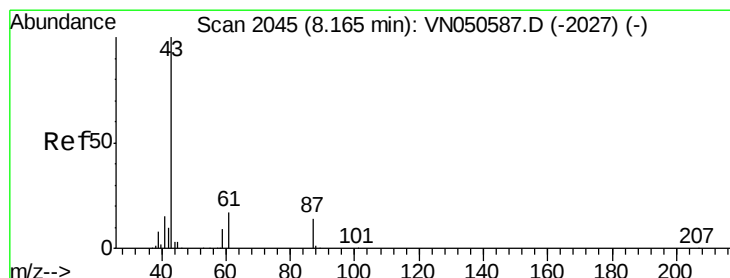
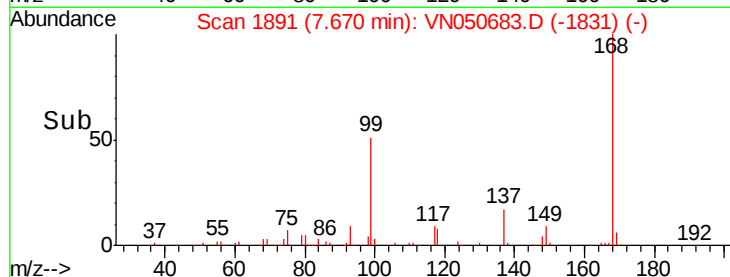
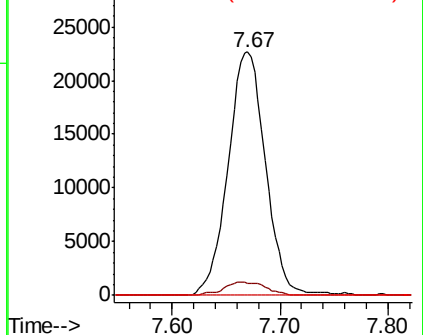
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 18.96 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

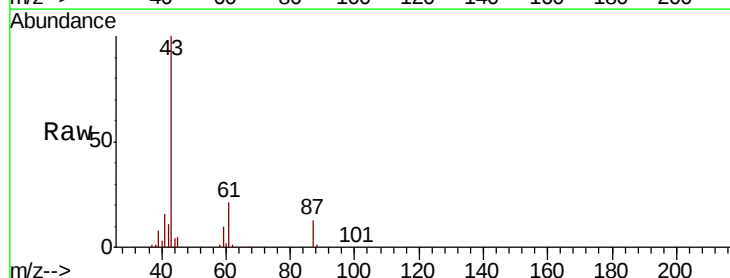
Tgt Ion: 43 Resp: 218035

Ion Ratio Lower Upper

43 100

61 19.4 16.2 24.2

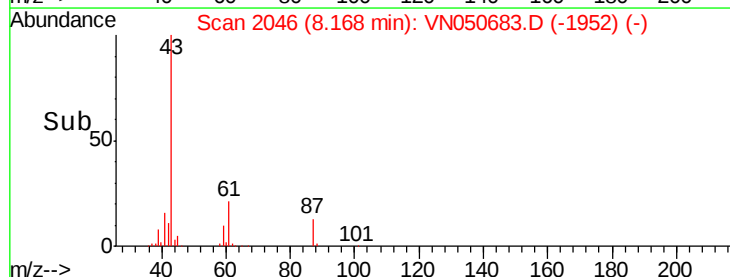
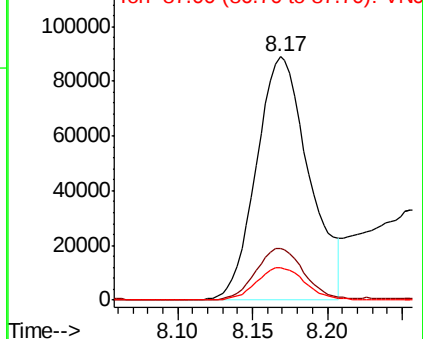
87 12.3 10.9 16.3

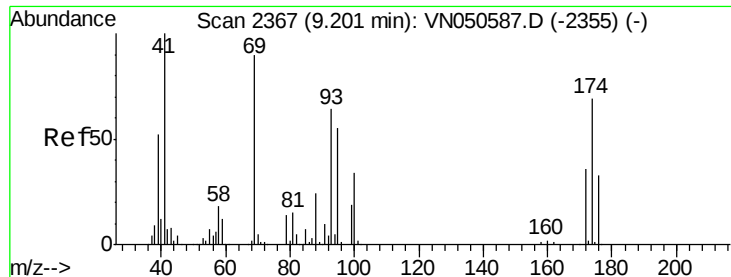


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methvl methacrylate

Concen: 1.30 ug/l

RT: 9.18 min Scan# 2360

Delta R.T. -0.02 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :
MSVOA_N
ClientSampleId :
TP-4

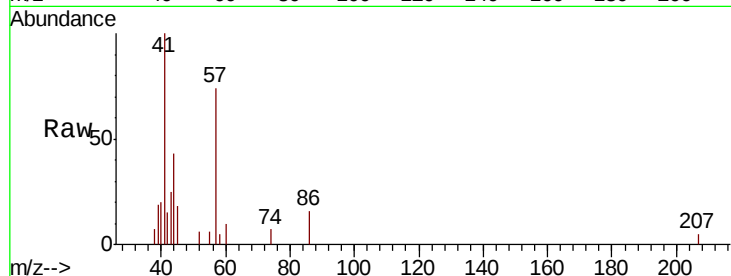
Tot Ion: 41 Resp: 7514

Ion Ratio Lower Upper

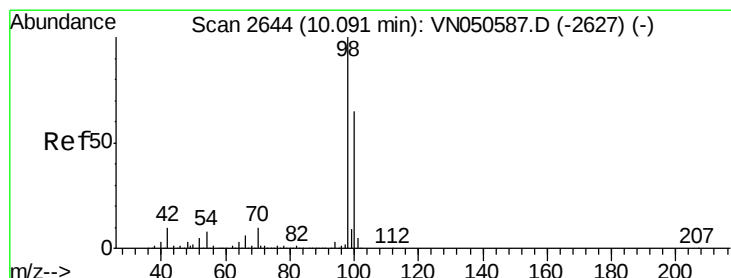
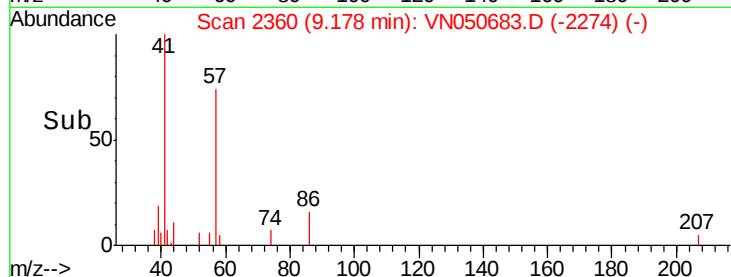
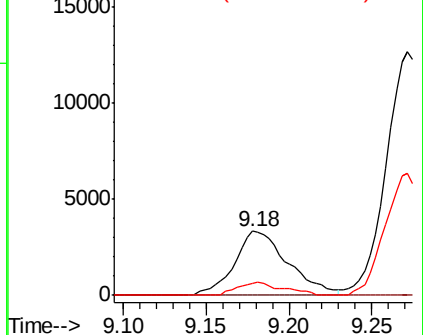
41 100

69 0.0 73.4 110.0#

39 17.7 43.0 64.6#



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: 45.75 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050683.D

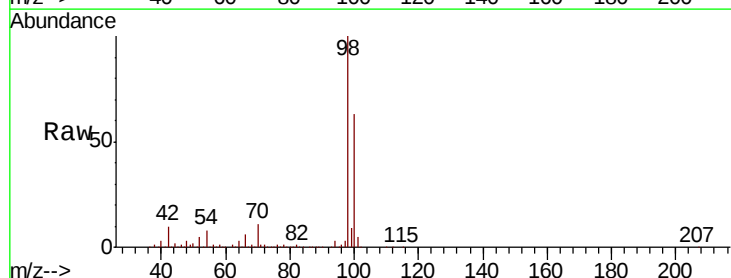
Acq: 16 Aug 2018 4:01

Tgt Ion: 98 Resp: 1378318

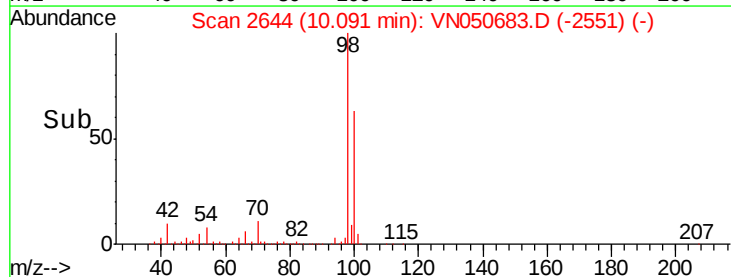
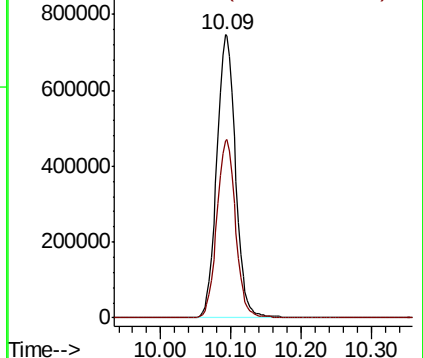
Ion Ratio Lower Upper

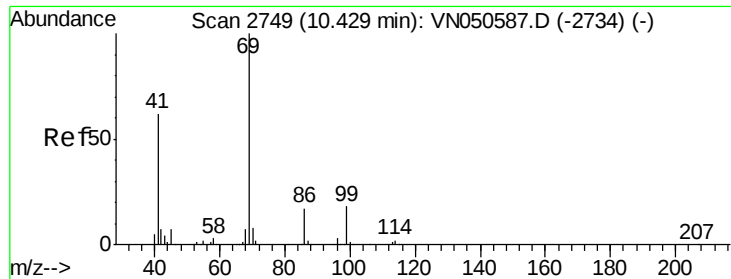
98 100

100 63.0 51.8 77.8



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





#56

Ethyl methacrylate

Concen: 2.09 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :

MSVOA_N

ClientSampled :

TP-4

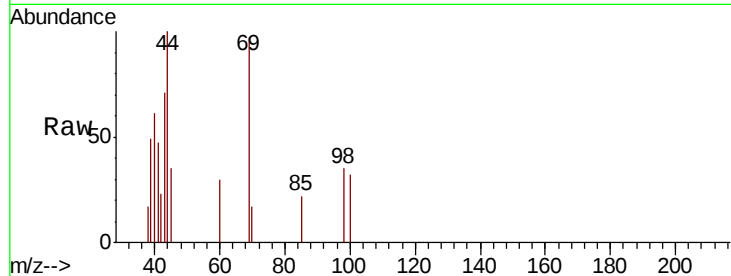
Tot Ion: 69 Resp: 1863

Ion Ratio Lower Upper

69 100

41 67.5 49.7 74.5

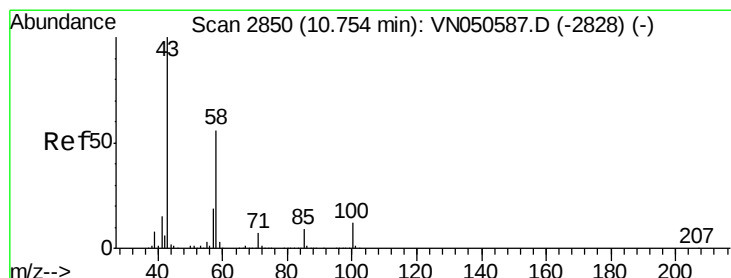
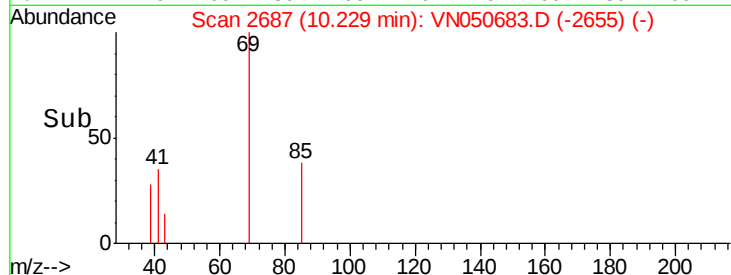
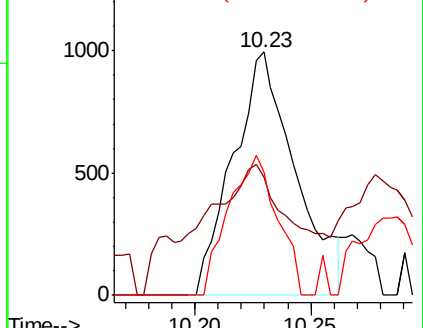
39 44.8 24.2 36.2#



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: 3.47 ug/l

RT: 10.76 min Scan# 2853

Delta R.T. 0.01 min

Lab File: VN050683.D

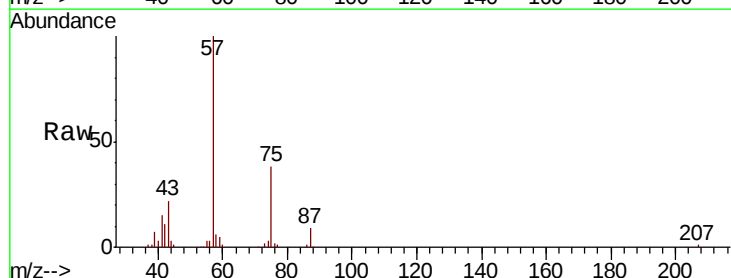
Acq: 16 Aug 2018 4:01

Tgt Ion: 43 Resp: 17438

Ion Ratio Lower Upper

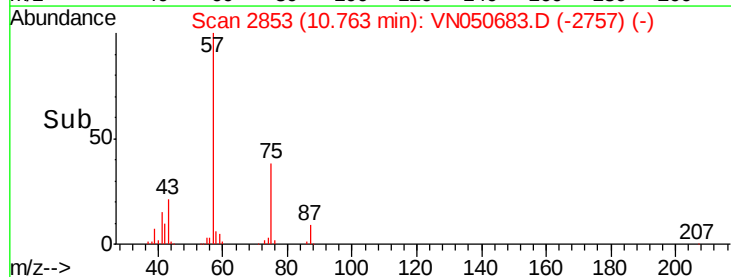
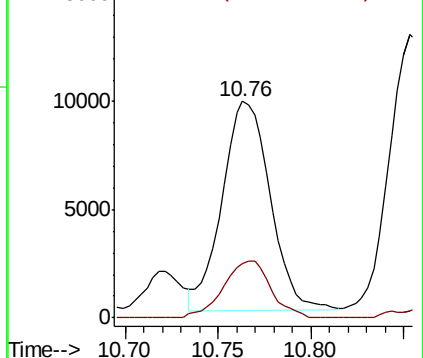
43 100

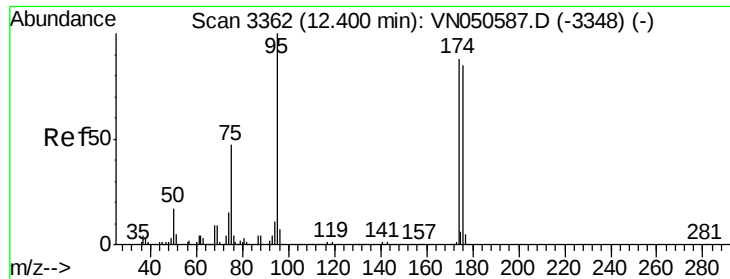
58 26.8 28.0 84.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

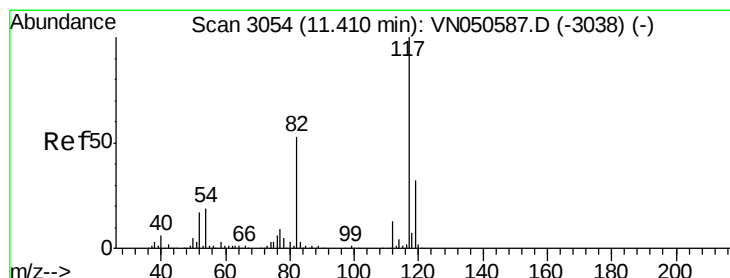
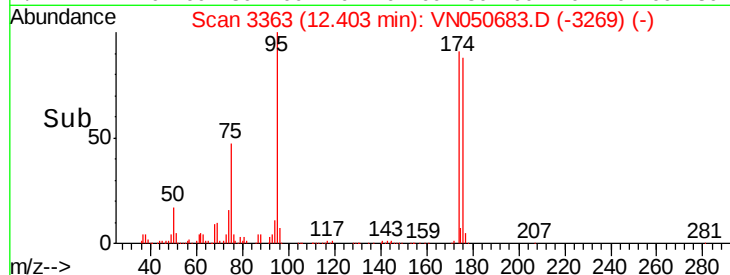
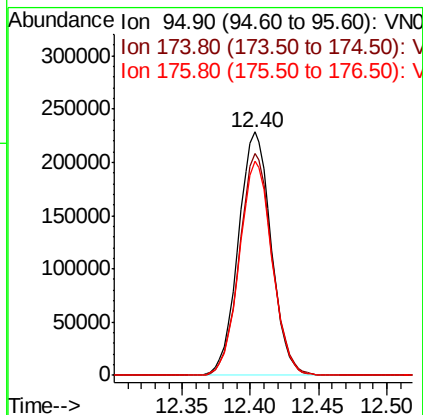
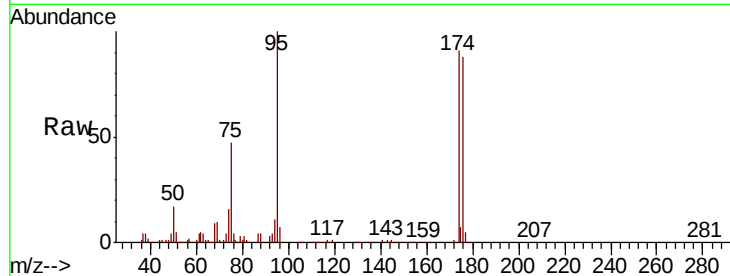




#62
4-Bromofluorobenzene
Concen: 38.29 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

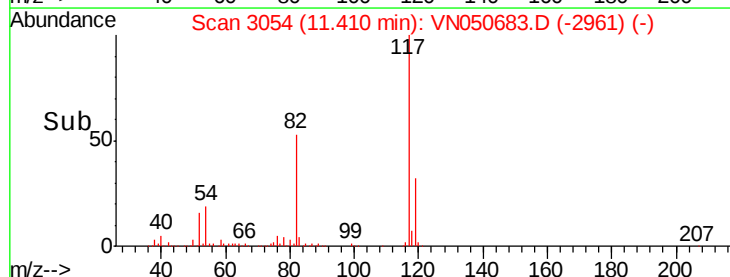
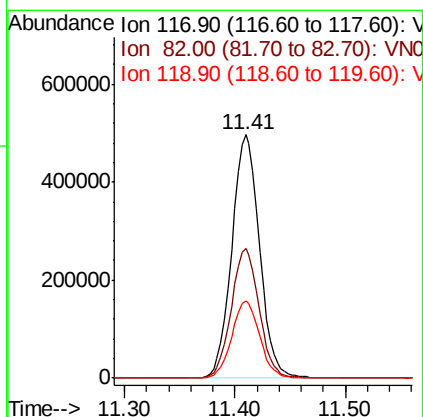
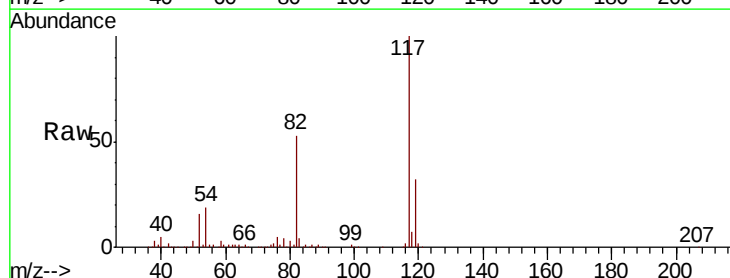
Instrument :
MSVOA_N
ClientSampled :
TP-4

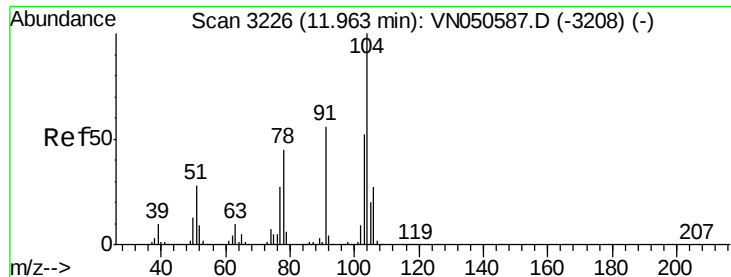
Tot Ion: 95 Resp: 381130
Ion Ratio Lower Upper
95 100
174 90.9 0.0 177.8
176 87.7 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050683.D
Acq: 16 Aug 2018 4:01

Tgt Ion: 117 Resp: 863453
Ion Ratio Lower Upper
117 100
82 53.3 42.4 63.6
119 31.7 25.8 38.8





#70

Stvrene

Concen: 0.94 ug/l

RT: 11.96 min Scan# 3224

Delta R.T. -0.01 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :

MSVOA_N

ClientSampled :

TP-4

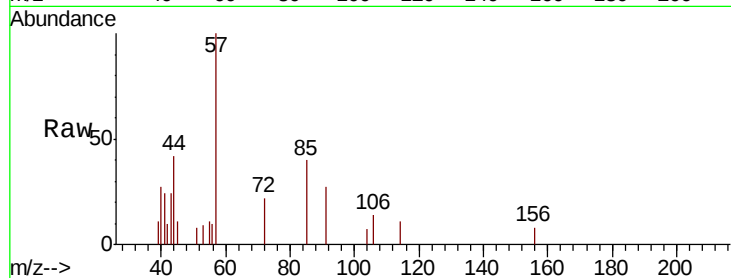
Tot Ion:104 Resp: 30

Ion Ratio Lower Upper

104 100

78 0.0 39.1 58.7#

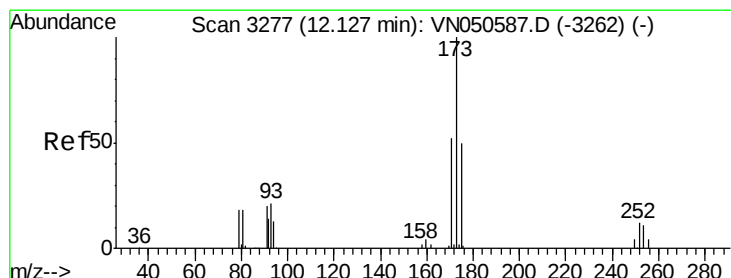
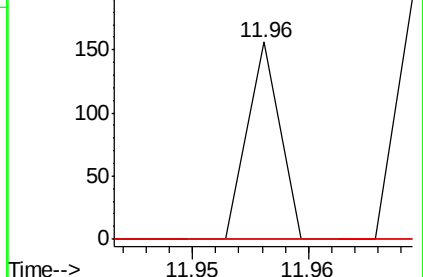
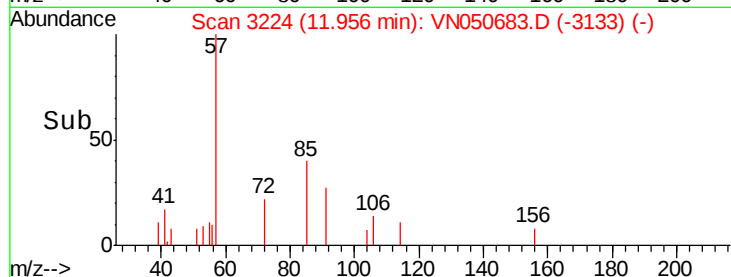
103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.28 ug/l

RT: 12.40 min Scan# 3361

Delta R.T. 0.27 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

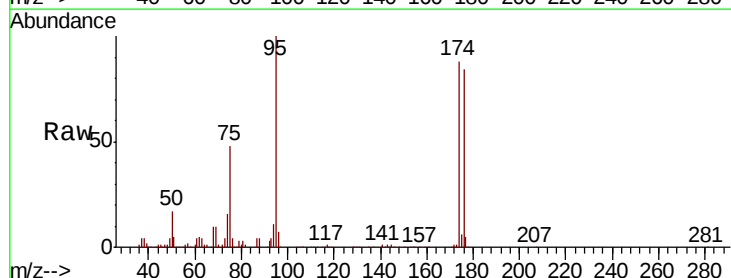
Tgt Ion:173 Resp: 1484

Ion Ratio Lower Upper

173 100

175 1421.6 24.4 73.2#

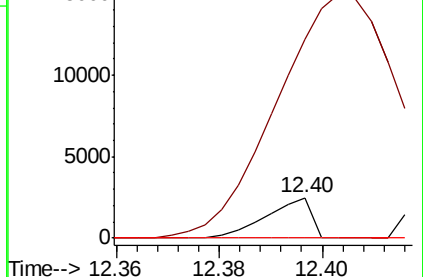
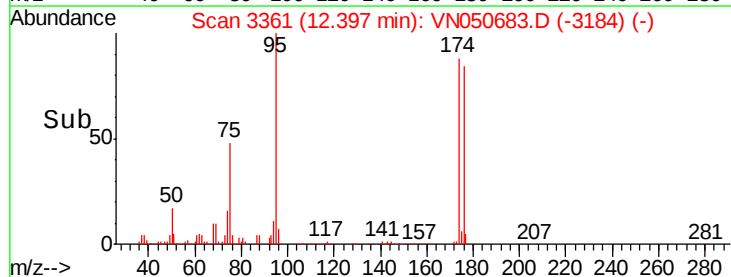
254 0.0 0.0 0.0

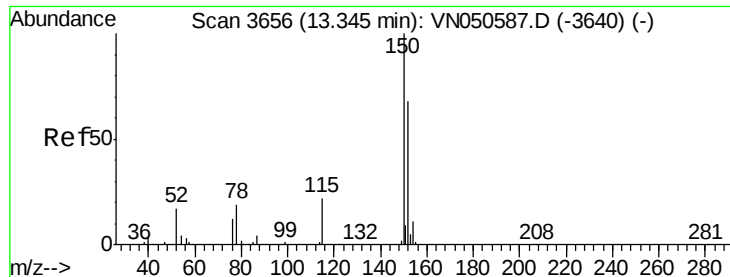


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :

MSVOA_N

ClientSampleId :

TP-4

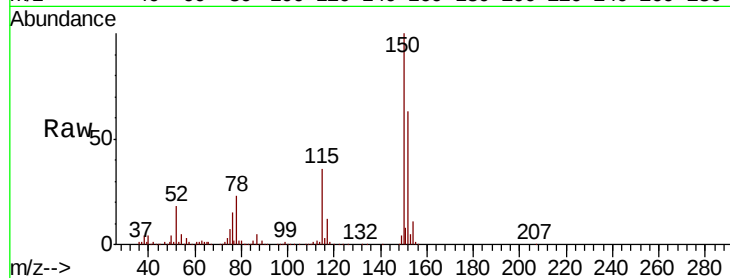
Tot Ion:152 Resp: 309007

Ion Ratio Lower Upper

152 100

115 57.3 28.1 84.2

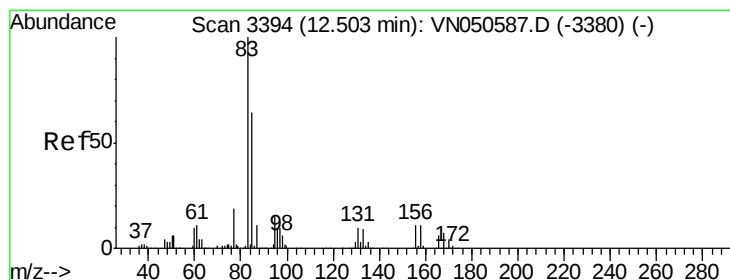
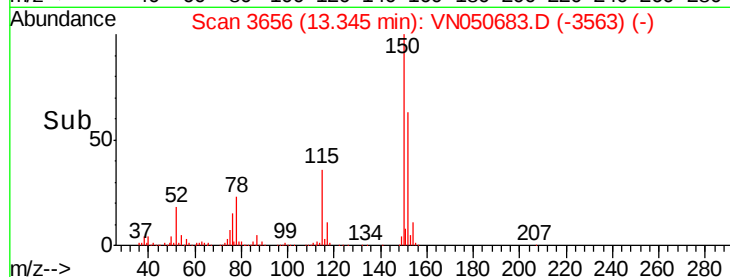
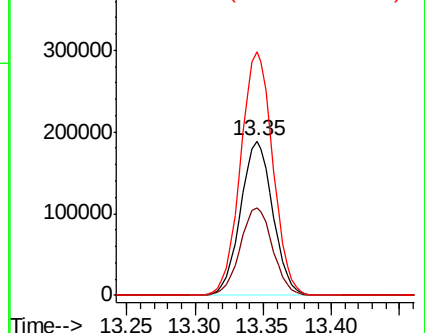
150 158.2 0.0 347.8



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# 3365

Delta R.T. -0.09 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

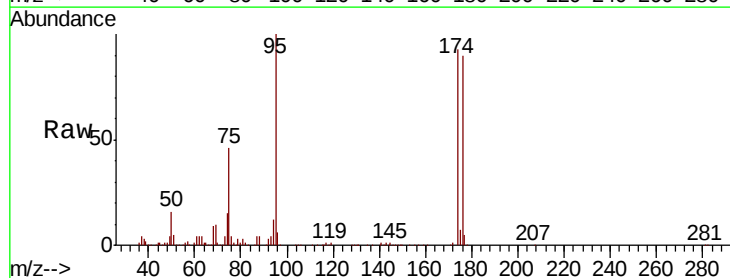
Tgt Ion: 83 Resp: 102

Ion Ratio Lower Upper

83 100

131 448.0 5.3 15.9#

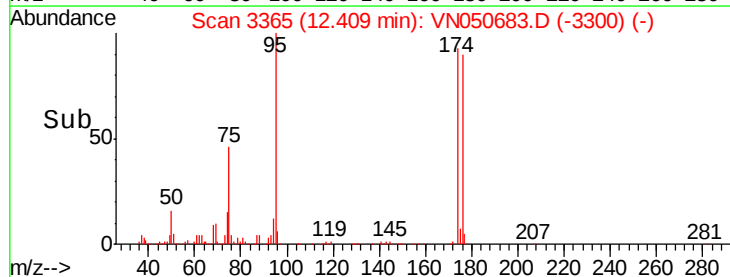
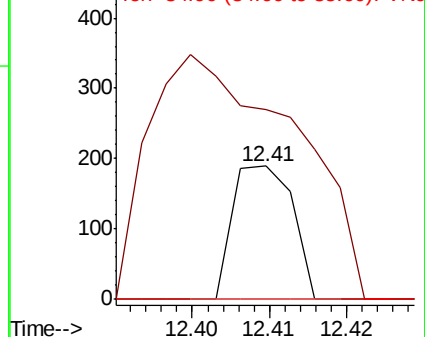
85 0.0 32.1 96.5#

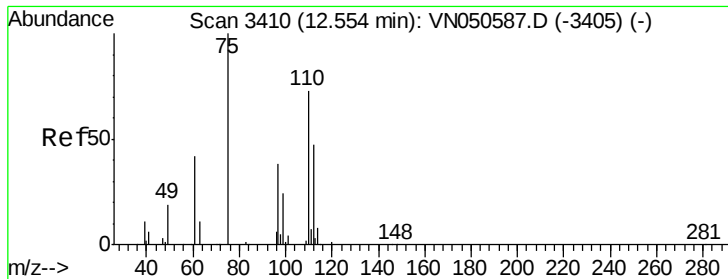


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 35.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :

MSVOA_N

ClientSampleId :

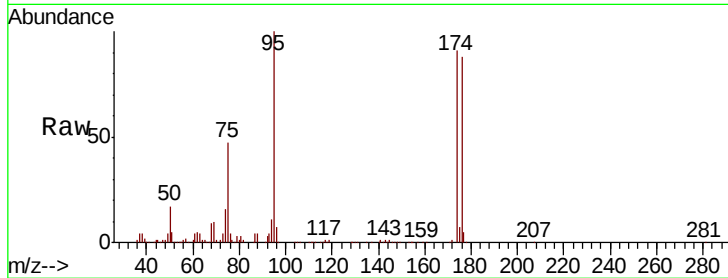
TP-4

Tot Ion: 75 Resp: 179874

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

120000

100000

80000

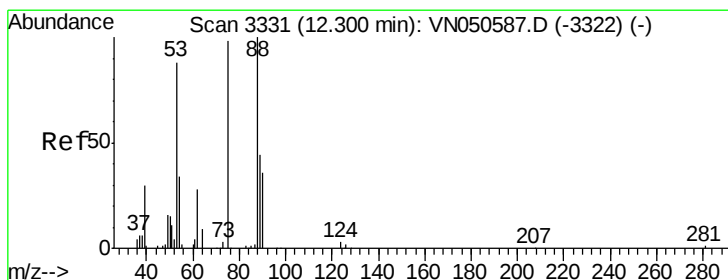
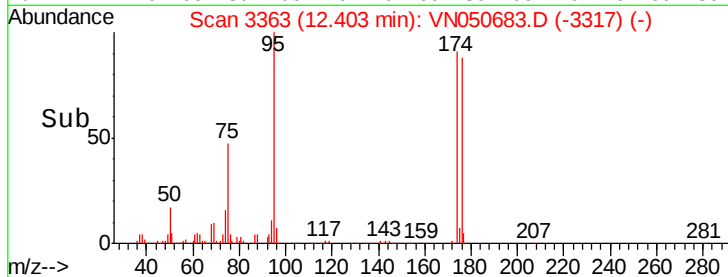
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 129.41 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

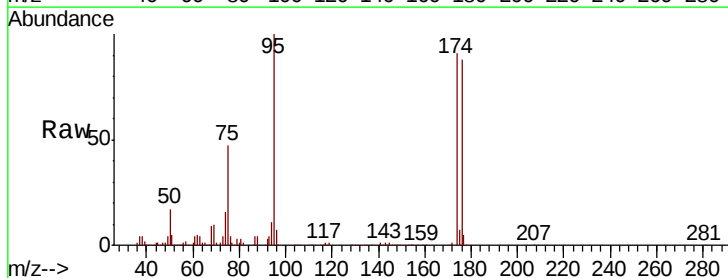
Tgt Ion: 75 Resp: 179874

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

89 0.0 36.3 54.5#



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

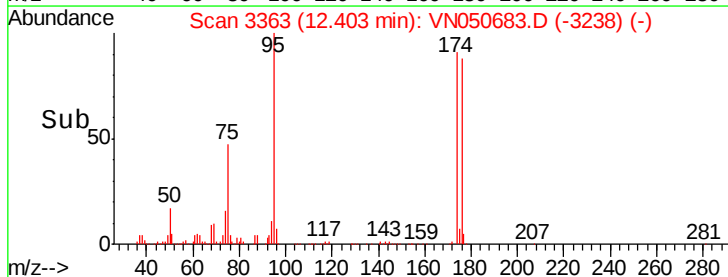
150000

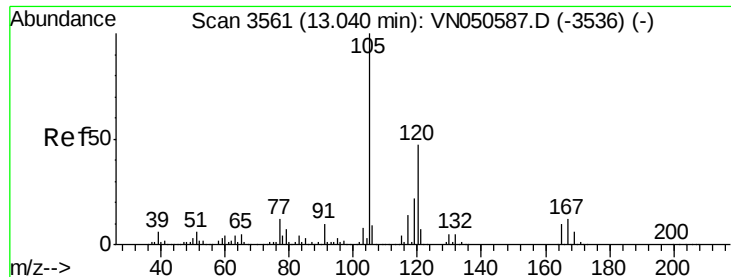
100000

50000

0

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 0.28 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. -0.00 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

Instrument :

MSVOA_N

ClientSampled :

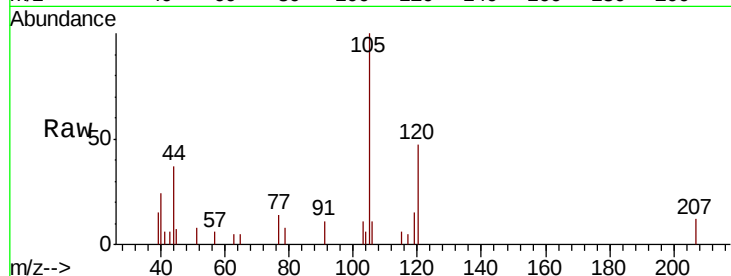
TP-4

Tot Ion:105 Resp: 5456

Ion Ratio Lower Upper

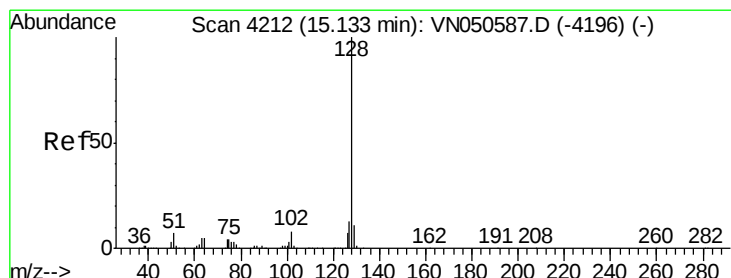
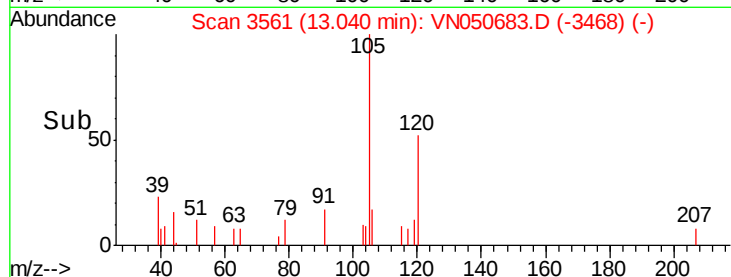
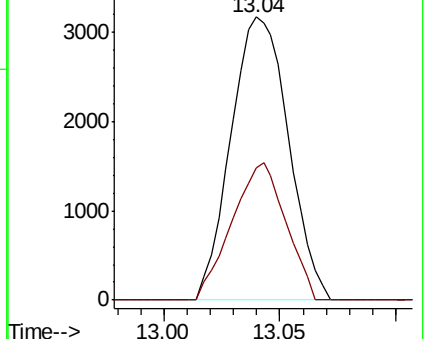
105 100

120 45.6 23.2 69.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 9.81 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050683.D

Acq: 16 Aug 2018 4:01

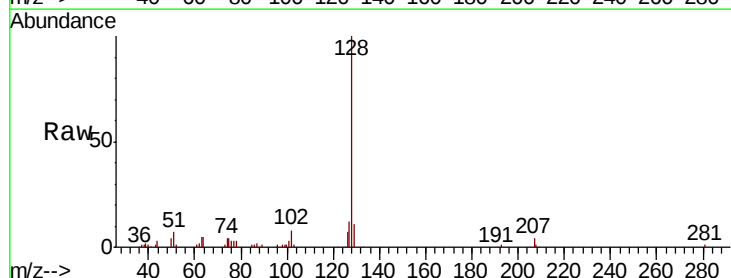
Tgt Ion:128 Resp: 76660

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

129 10.5 8.5 12.7



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

