

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020819\
 Data File : VN053687.D
 Acq On : 8 Feb 2019 17:45
 Operator : JC/SP
 Sample : K1422-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TEST-PIT-1

Quant Time: Feb 09 02:37:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	821136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1399746	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1263971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	517620	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	445490	54.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.16%	
35) Dibromofluoromethane	7.59	113	441162	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
50) Toluene-d8	10.09	98	1685048	50.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.48%	
62) 4-Bromofluorobenzene	12.40	95	558908	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	

Target Compounds

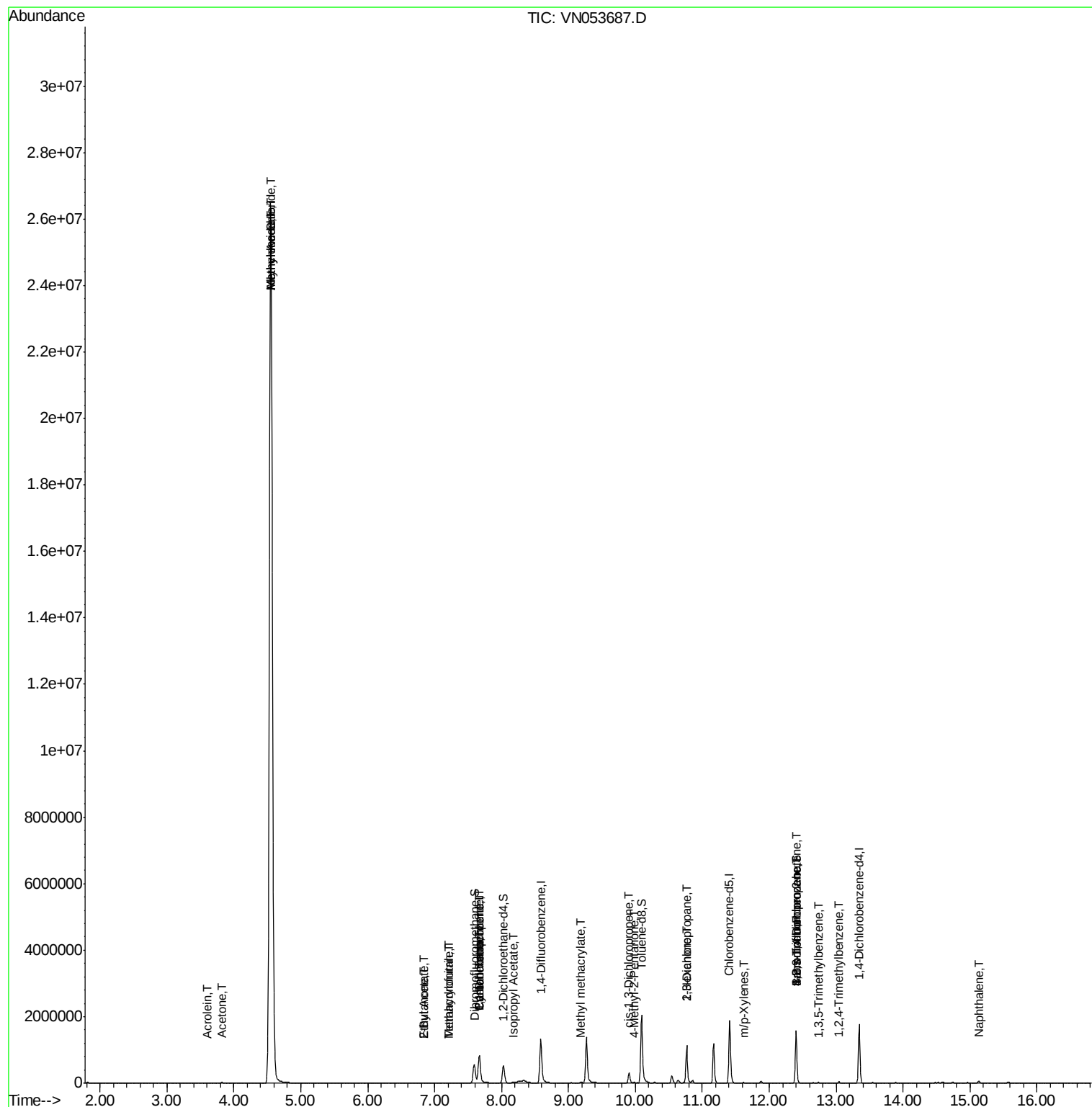
						Qvalue
13) Acrolein	3.61	56	63	0.237	ug/l #	14
14) Allyl chloride	4.55	41	770334	63.627	ug/l #	27
16) Acetone	3.82	43	28108	13.303	ug/l #	87
18) Methyl Acetate	4.55	43	87372	13.963	ug/l #	84
20) Methylene Chloride	4.55	84	21351404	2408.581	ug/l	99
25) 2-Butanone	6.84	43	9475	3.144	ug/l	95
29) Tetrahydrofuran	7.23	42	2529	1.307	ug/l	92
31) Cyclohexane	7.67	56	12940	0.762	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	50348	3.990	ug/l #	49
37) Ethyl Acetate	6.84	43	9475	1.345	ug/l #	67
38) Carbon Tetrachloride	7.67	117	71261	5.606	ug/l #	16
41) Methacrylonitrile	7.22	41	1481	0.376	ug/l #	34
43) Isopropyl Acetate	8.18	43	37192	2.733	ug/l #	78
48) Methyl methacrylate	9.18	41	10191	1.569	ug/l #	12
51) 4-Methyl-2-Pentanone	9.99	43	9510	1.422	ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	69469	4.693	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	14189	0.998	ug/l #	43
59) 2-Hexanone	10.77	43	170799	37.620	ug/l #	50
68) m/p-Xylenes	11.62	106	5031	0.299	ug/l	99
71) Bromoform	12.40	173	2082	0.324	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	257307	38.701	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8804	0.292	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	257307	108.825	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	23984	0.780	ug/l	99
95) Naphthalene	15.13	128	39874	3.429	ug/l	100

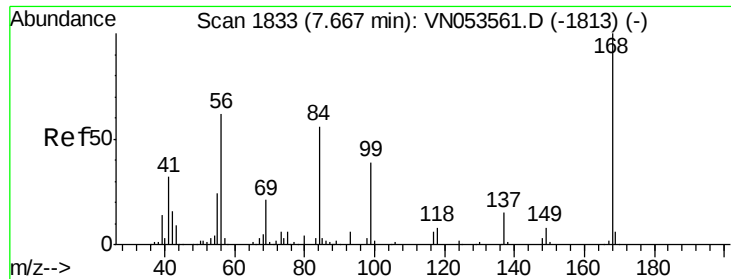
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampled :

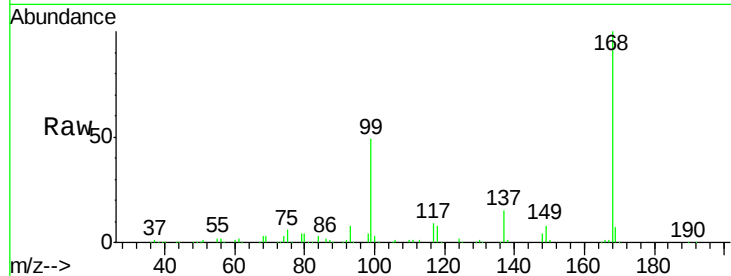
TEST-PIT-1

Tot Ion:168 Resp: 821136

Ion Ratio Lower Upper

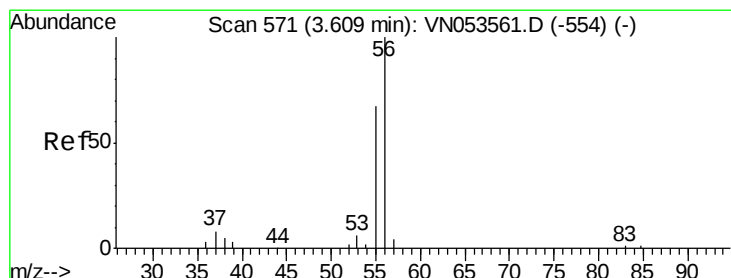
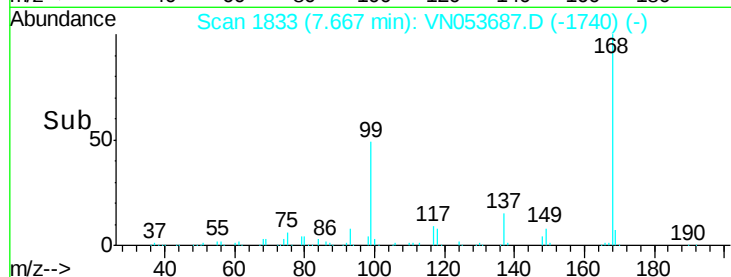
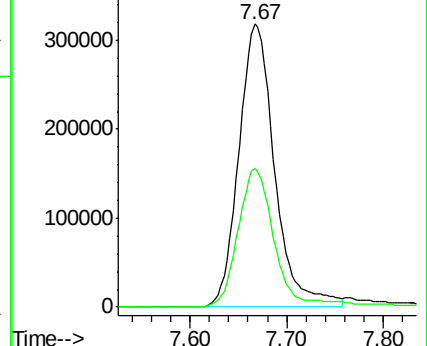
168 100

99 48.9 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#13

Acrolein

Concen: 0.237 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053687.D

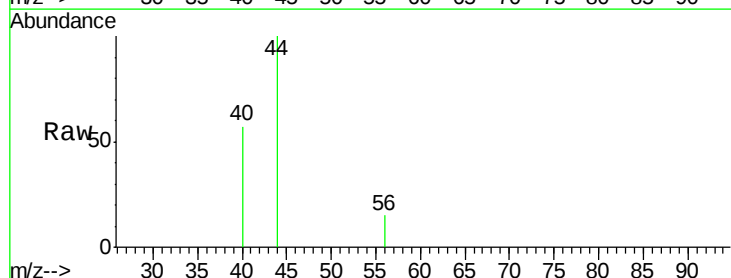
Acq: 8 Feb 2019 17:45

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

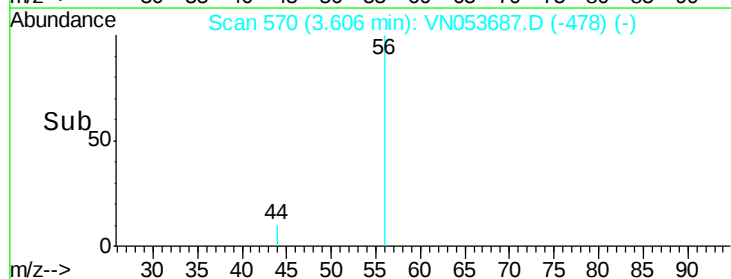
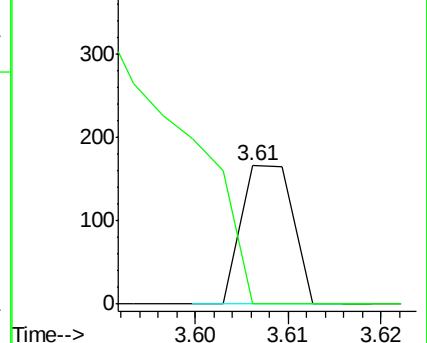
56 100

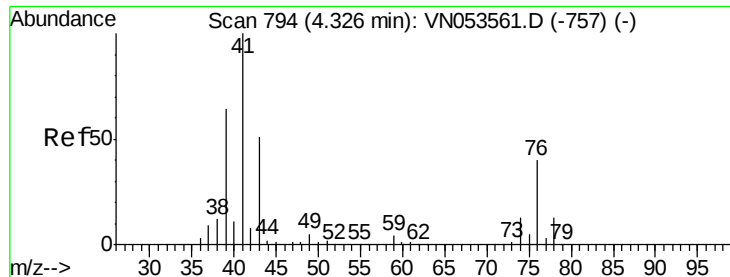
55 0.0 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

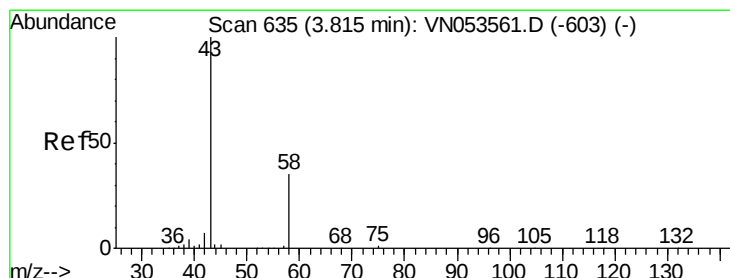
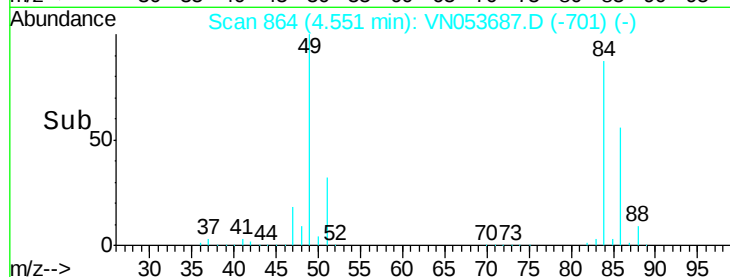
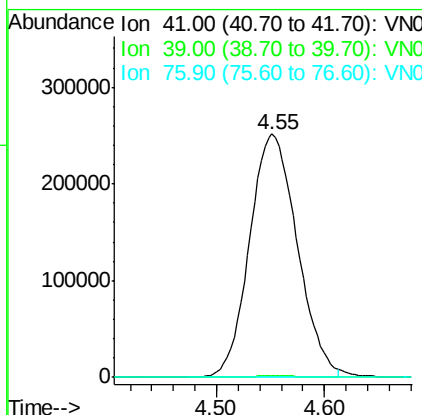
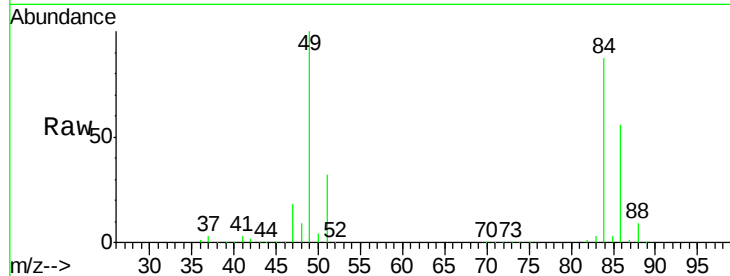




#14
Allvl chloride
Concen: 63.627 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.23 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

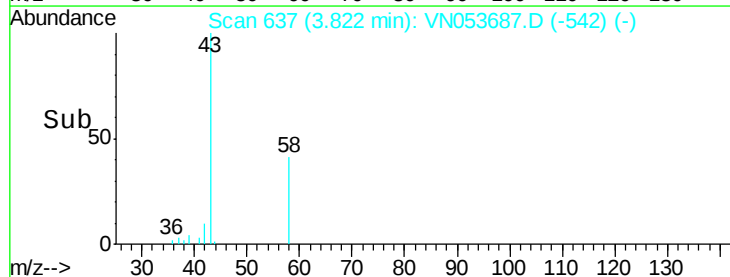
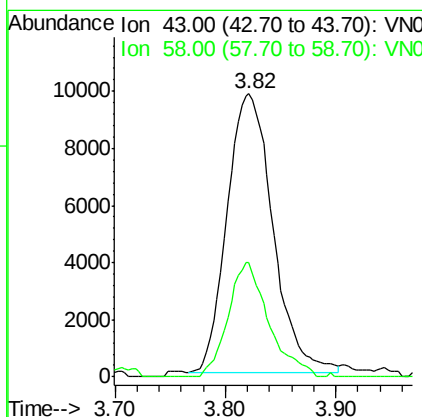
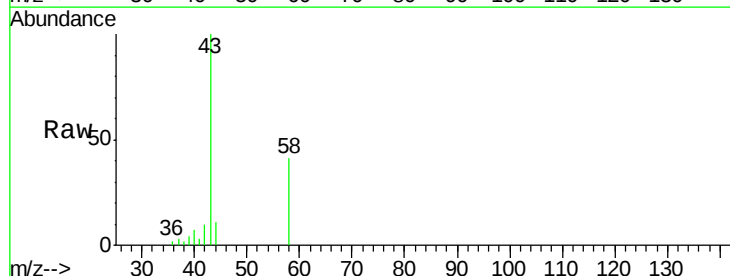
Instrument :
MSVOA_N
ClientSampleId :
TEST-PIT-1

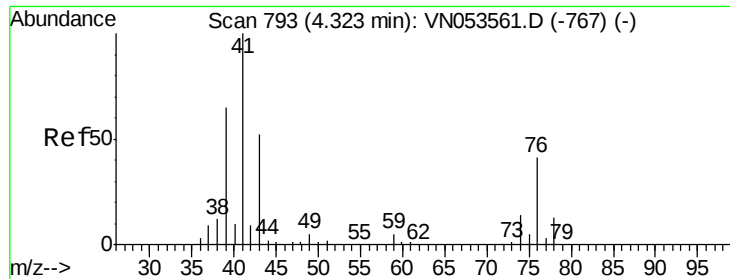
Tot Ion: 41 Resp: 770334
Ion Ratio Lower Upper
41 100
39 0.7 48.9 73.3#
76 0.0 29.4 44.2#



#16
Acetone
Concen: 13.303 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.01 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

Tgt Ion: 43 Resp: 28108
Ion Ratio Lower Upper
43 100
58 41.2 27.1 40.7#

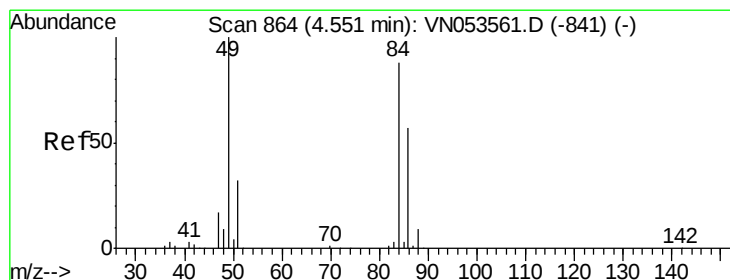
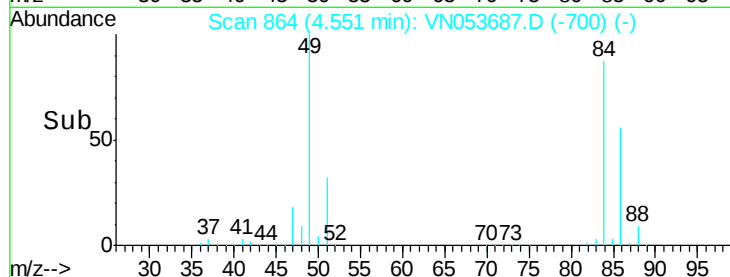
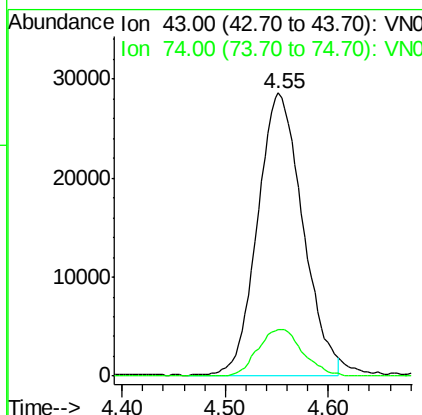
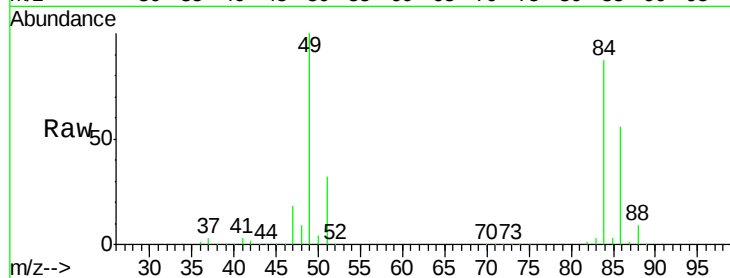




#18
Methyl Acetate
Concen: 13.963 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.23 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

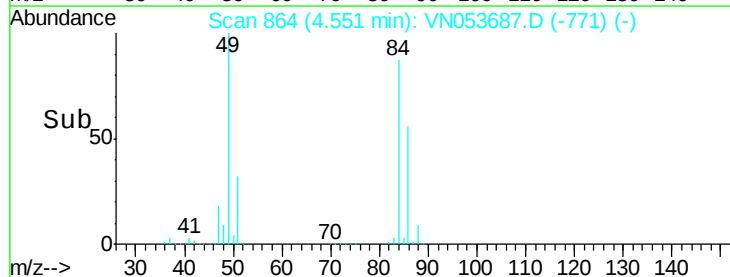
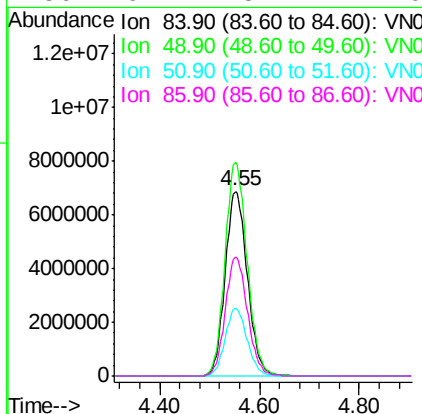
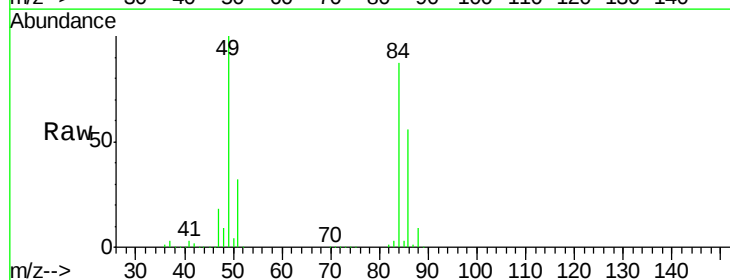
Instrument :
MSVOA_N
ClientSampleId :
TEST-PIT-1

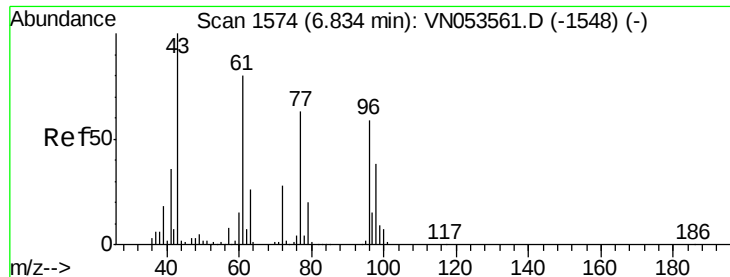
Tot Ion: 43 Resp: 87372
Ion Ratio Lower Upper
43 100
74 16.2 19.4 29.2#



#20
Methylene Chloride
Concen: 2408.581 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

Tgt Ion: 84 Resp: 21351404
Ion Ratio Lower Upper
84 100
49 115.6 94.3 141.5
51 36.7 29.4 44.2
86 64.4 51.4 77.0

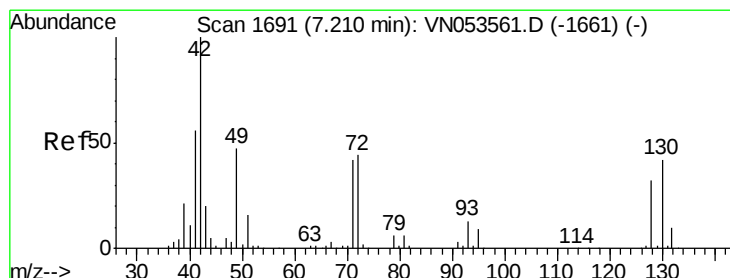
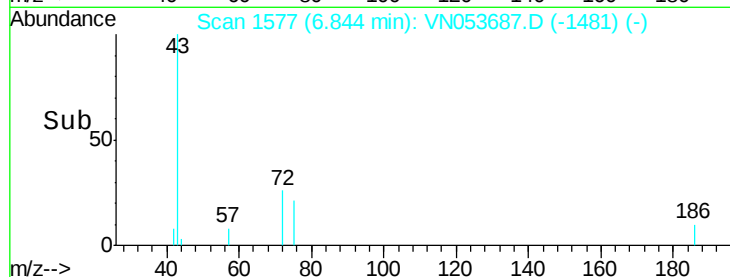
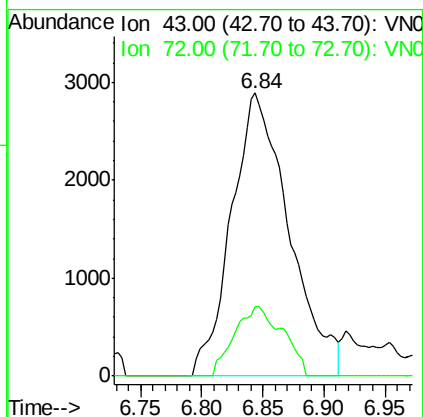
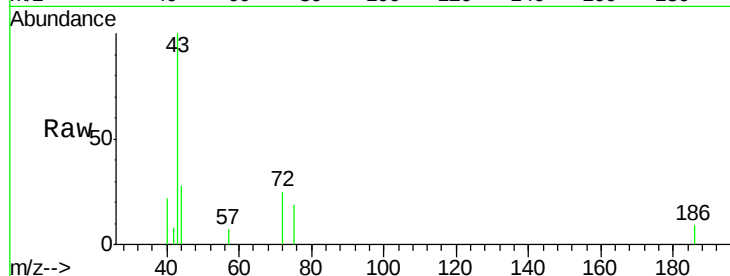




#25
2-Butanone
Concen: 3.144 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

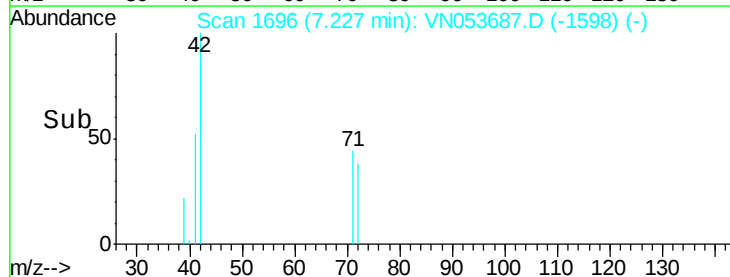
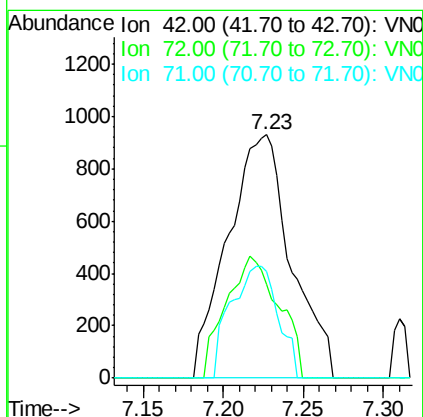
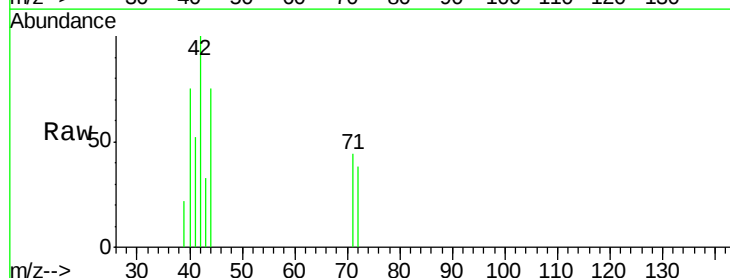
Instrument :
MSVOA_N
ClientSampleId :
TEST-PIT-1

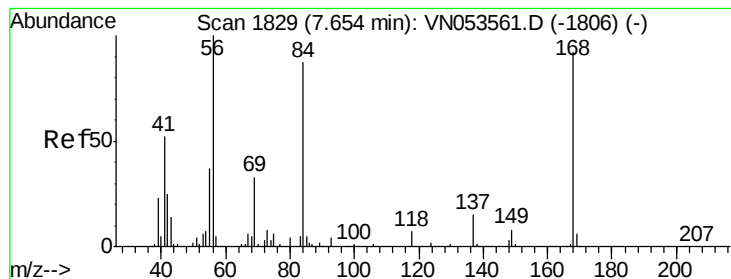
Tot Ion: 43 Resp: 9475
Ion Ratio Lower Upper
43 100
72 24.7 22.0 33.0



#29
Tetrahydrofuran
Concen: 1.307 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

Tgt Ion: 42 Resp: 2529
Ion Ratio Lower Upper
42 100
72 41.5 35.2 52.8
71 33.9 33.0 49.4





#31

Cyclohexane

Concen: 0.762 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

TEST-PIT-1

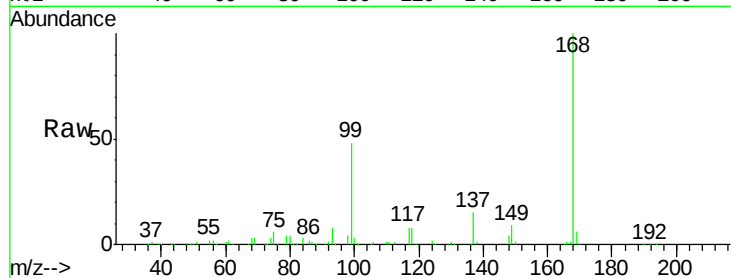
Tot Ion: 56 Resp: 12940

Ion Ratio Lower Upper

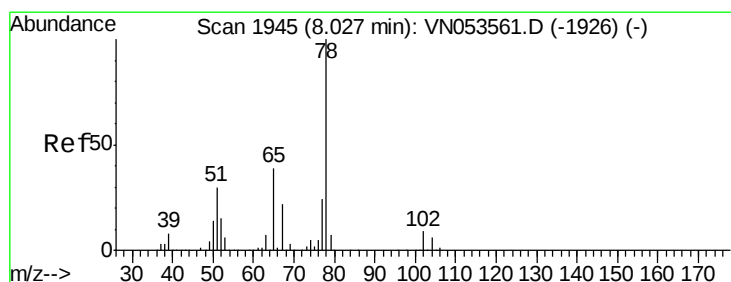
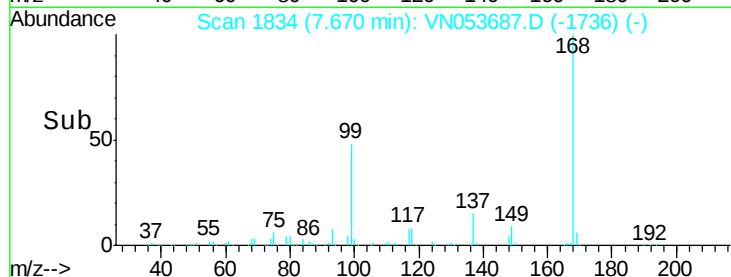
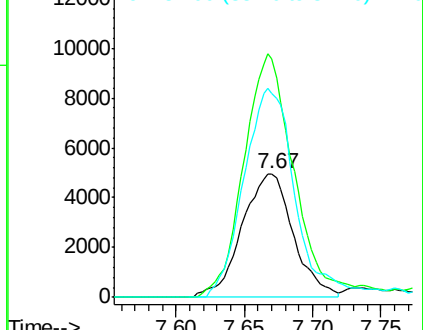
56 100

69 192.4 26.4 39.6#

84 165.0 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053687.D

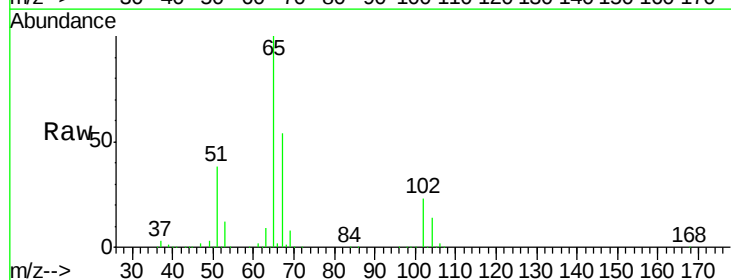
Acq: 8 Feb 2019 17:45

Tgt Ion: 65 Resp: 445490

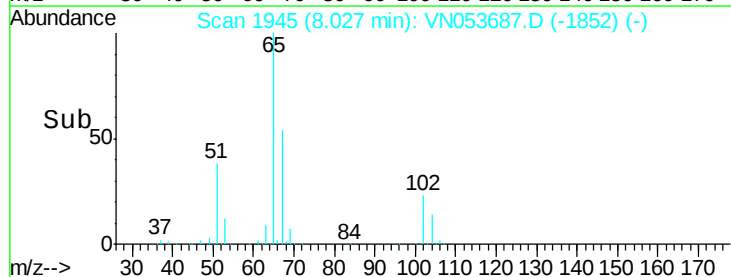
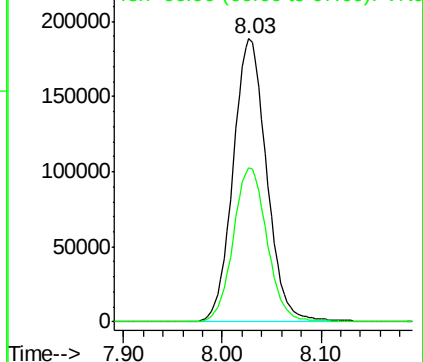
Ion Ratio Lower Upper

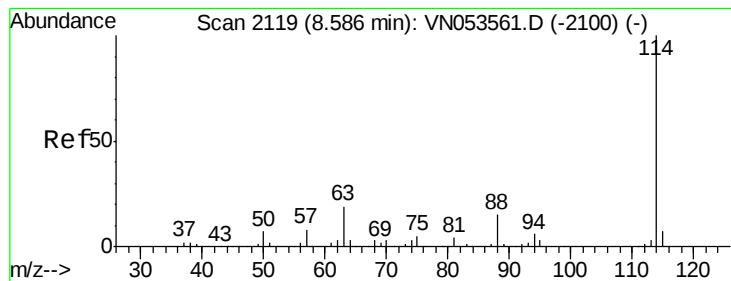
65 100

67 55.1 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

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TEST-PIT-1

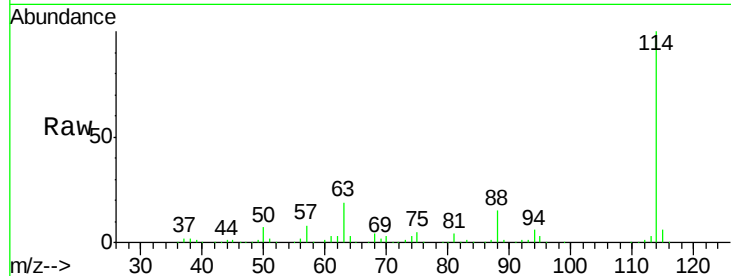
Tot Ion:114 Resp: 1399746

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.6

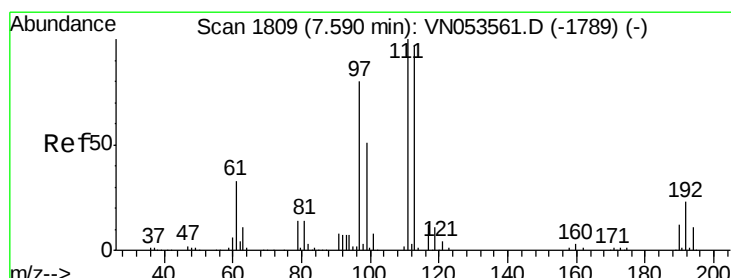
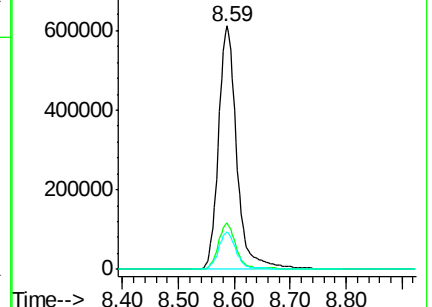
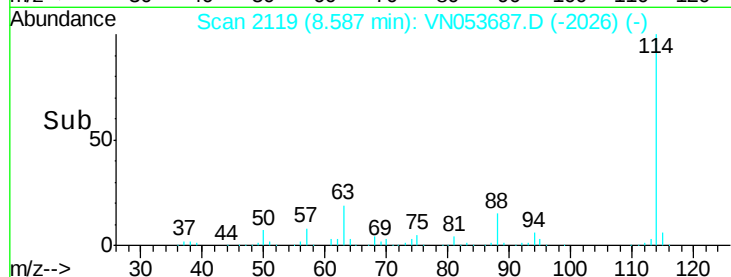
88 15.2 0.0 30.4



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: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

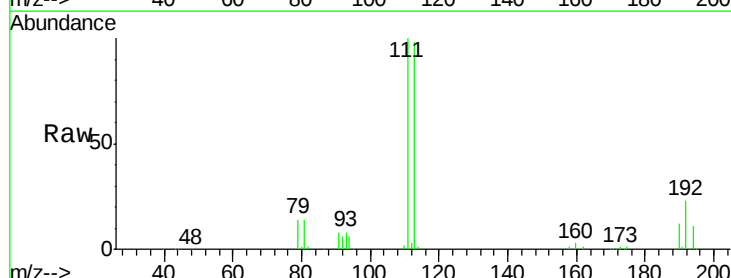
Tgt Ion:113 Resp: 441162

Ion Ratio Lower Upper

113 100

111 103.0 81.1 121.7

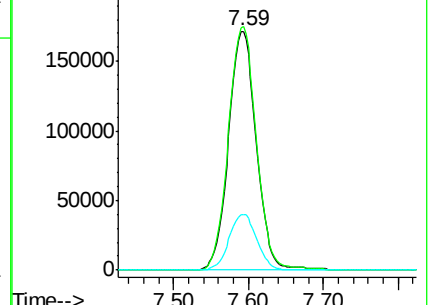
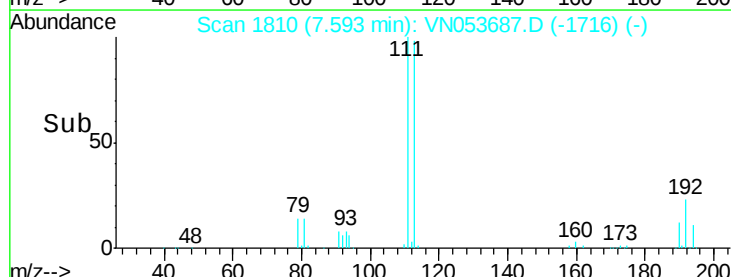
192 23.5 18.2 27.2

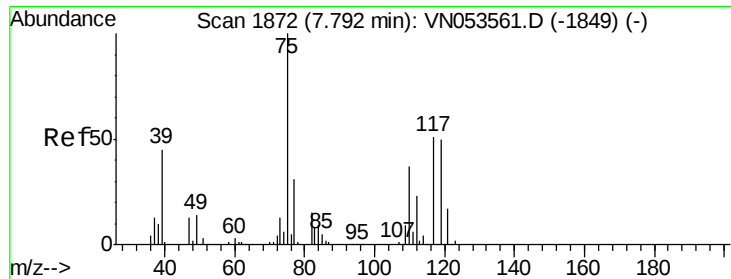


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

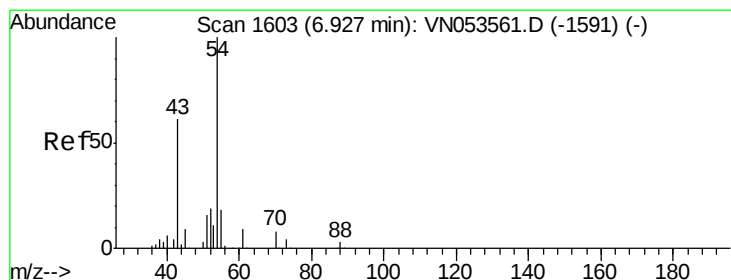
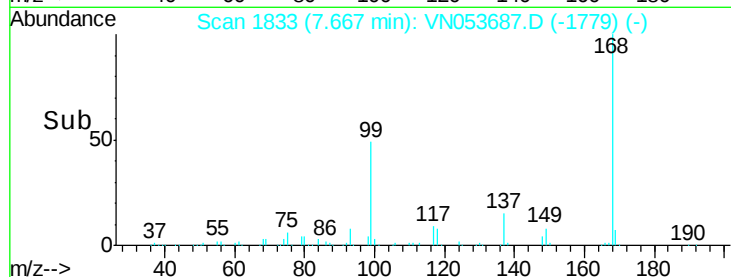
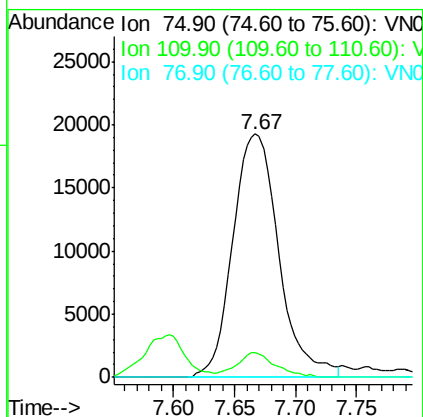
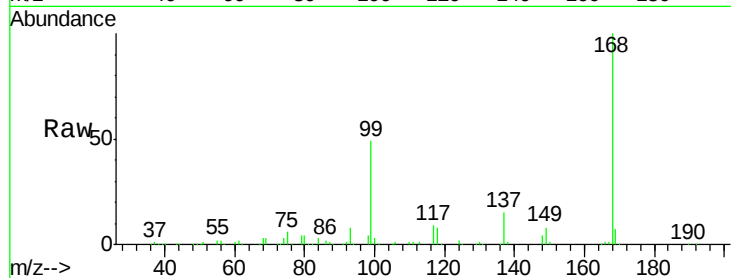




#36
 1,1-Dichloropropene
 Concen: 3.990 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053687.D
 Acq: 8 Feb 2019 17:45

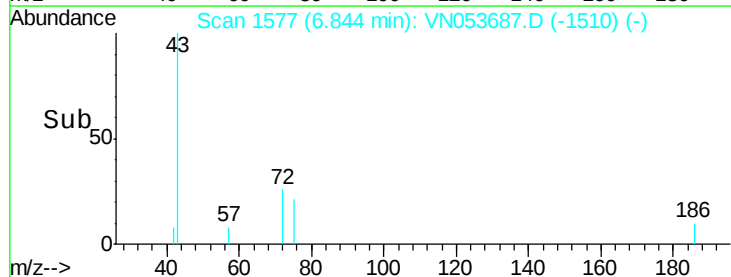
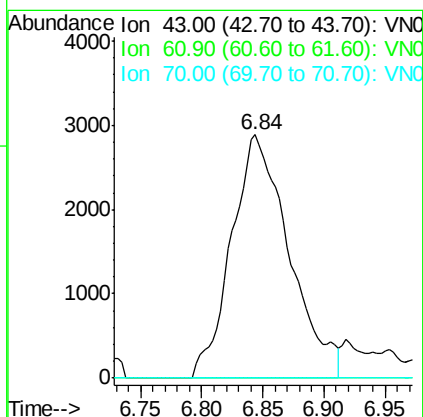
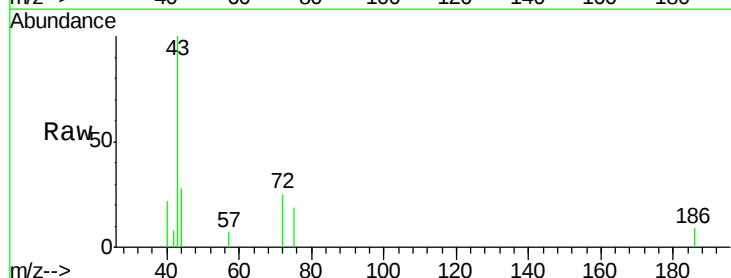
Instrument :
 MSVOA_N
 ClientSampled :
 TEST-PIT-1

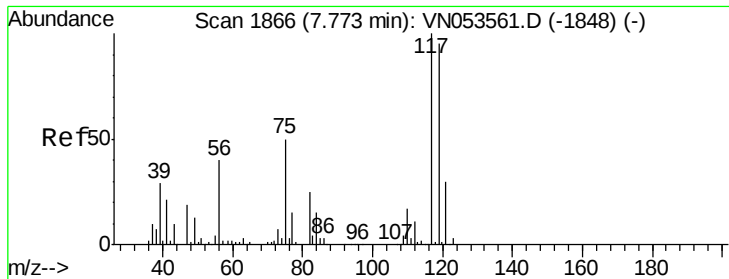
Tot Ion: 75 Resp: 50348
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.3#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 1.345 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. -0.08 min
 Lab File: VN053687.D
 Acq: 8 Feb 2019 17:45

Tgt Ion: 43 Resp: 9475
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.8 17.6#
 70 0.0 8.6 12.8#





#38

Carbon Tetrachloride

Concen: 5.606 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

TEST-PIT-1

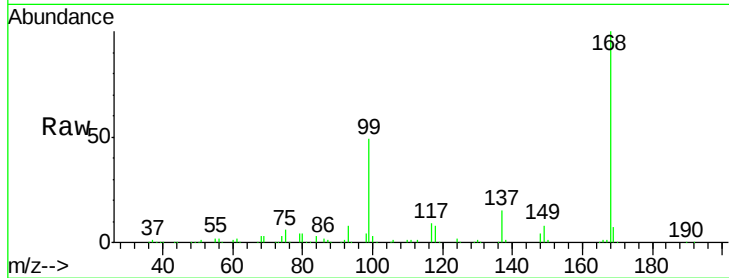
Tot Ion:117 Resp: 71261

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

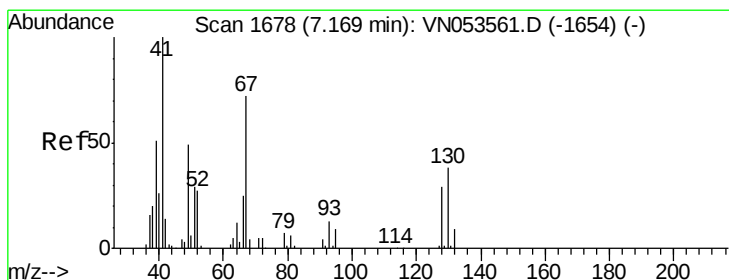
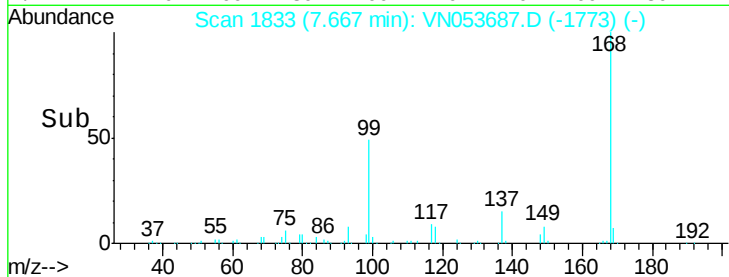
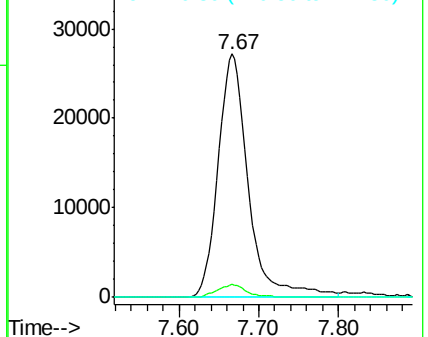
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.376 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.05 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Tgt Ion: 41 Resp: 1481

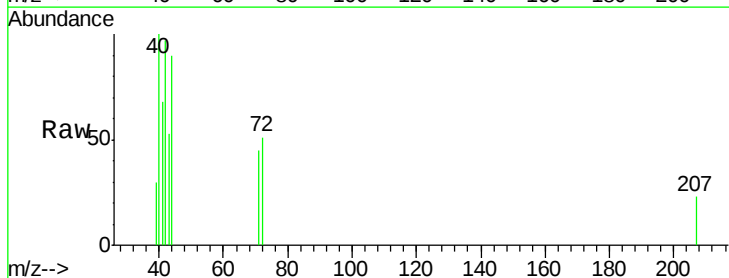
Ion Ratio Lower Upper

41 100

39 28.7 46.8 70.2#

67 0.0 63.0 94.6#

52 0.0 23.8 35.8#

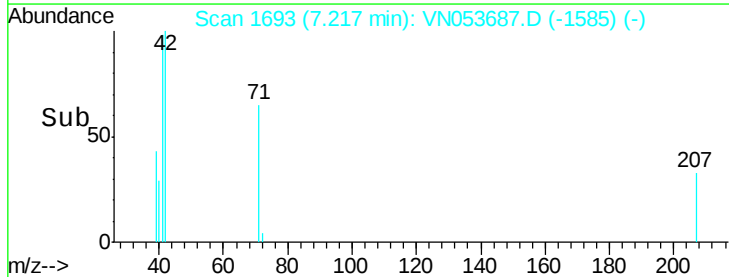
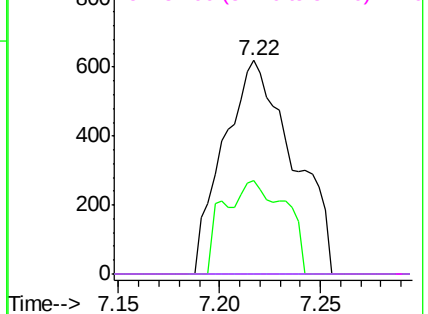


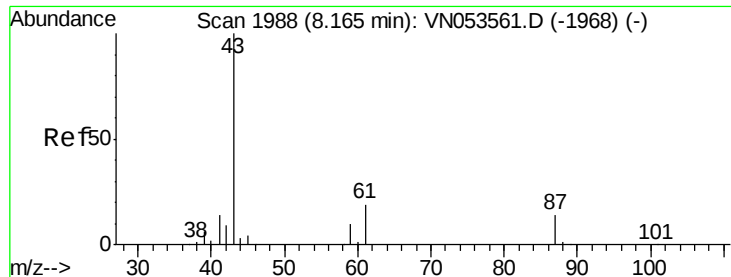
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 2.733 ug/l

RT: 8.18 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

TEST-PIT-1

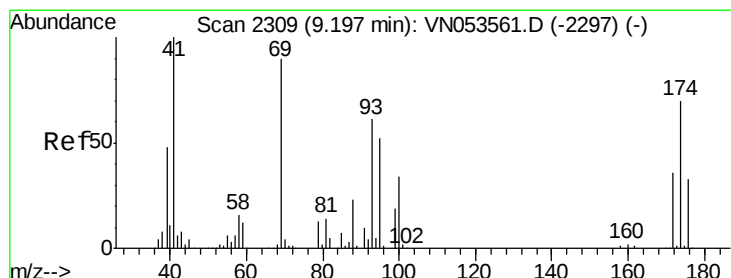
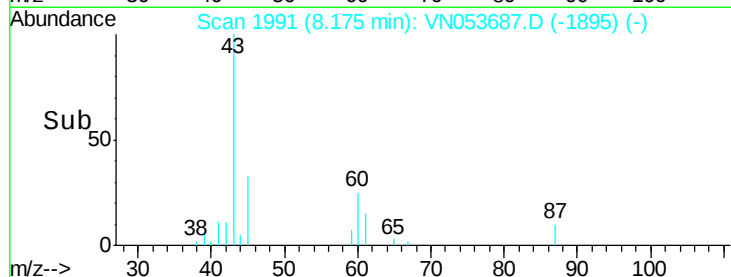
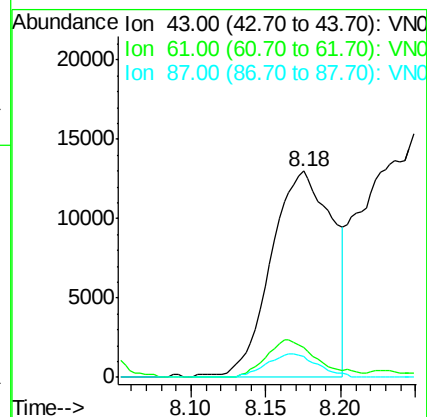
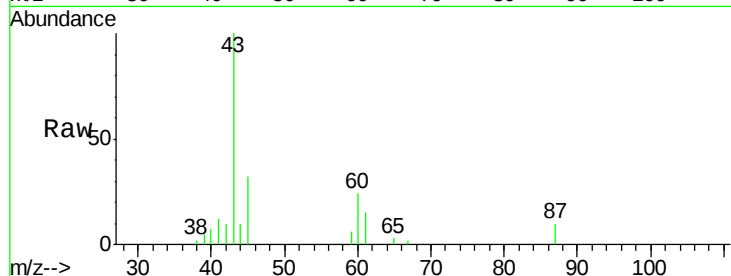
Tot Ion: 43 Resp: 37192

Ion Ratio Lower Upper

43 100

61 15.0 23.9 35.9#

87 9.3 11.0 16.6#



#48

Methyl methacrylate

Concen: 1.569 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

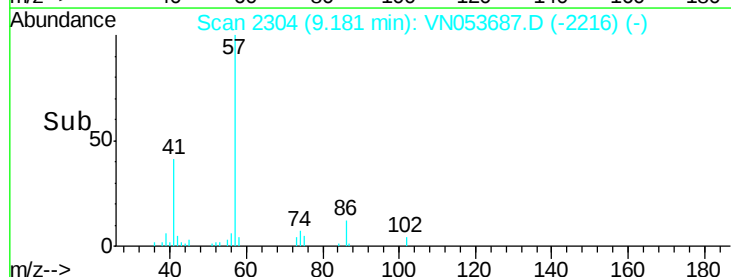
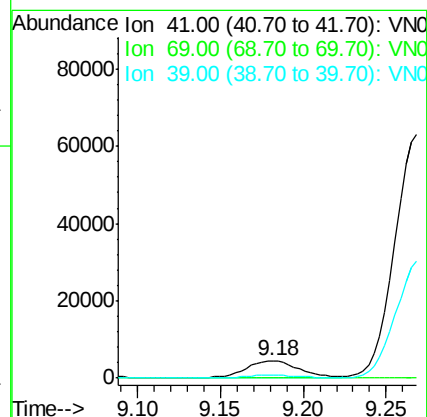
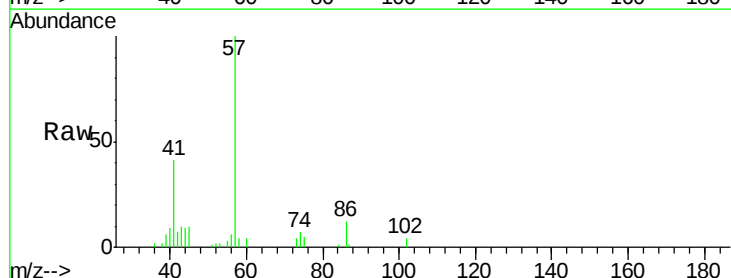
Tgt Ion: 41 Resp: 10191

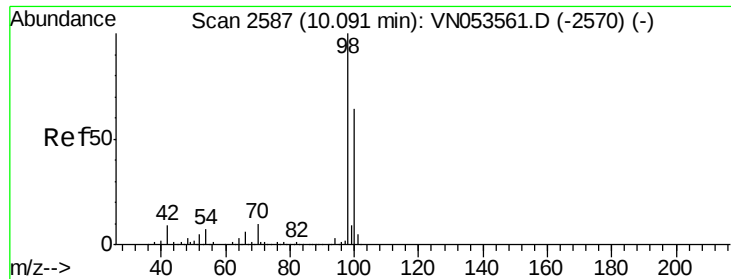
Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

39 0.0 40.0 60.0#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

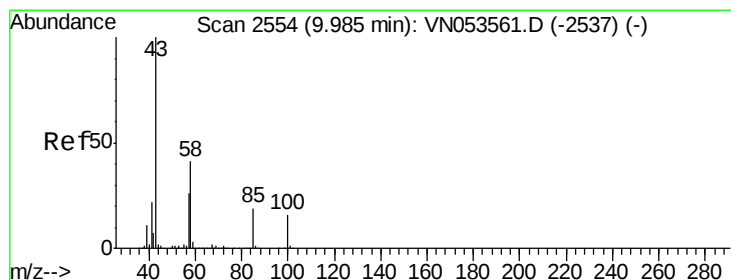
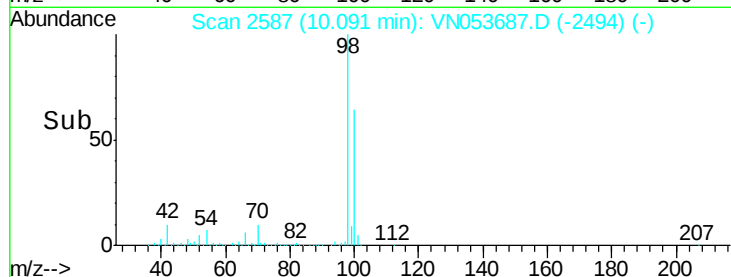
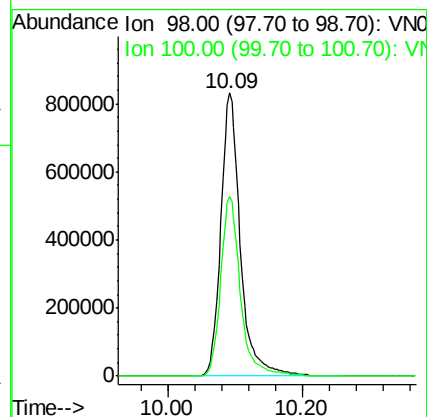
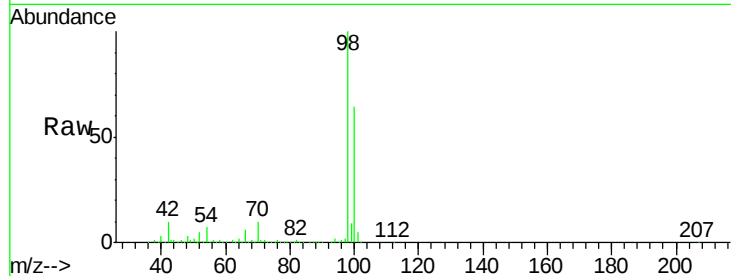
TEST-PIT-1

Tot Ion: 98 Resp: 1685048

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.422 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053687.D

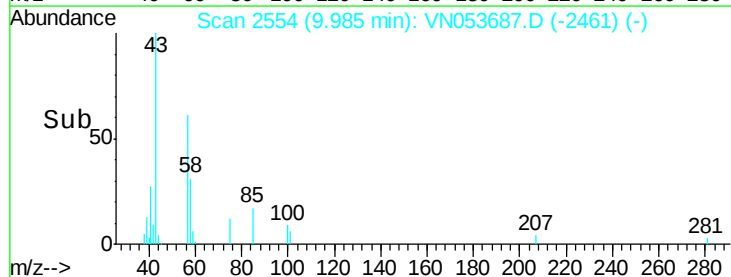
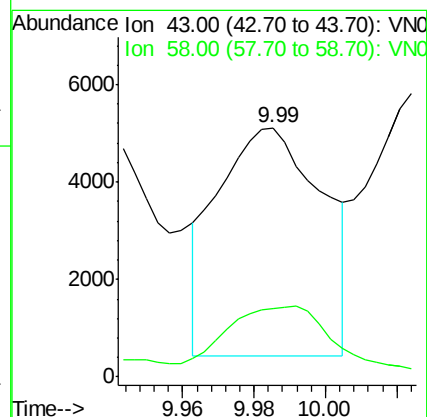
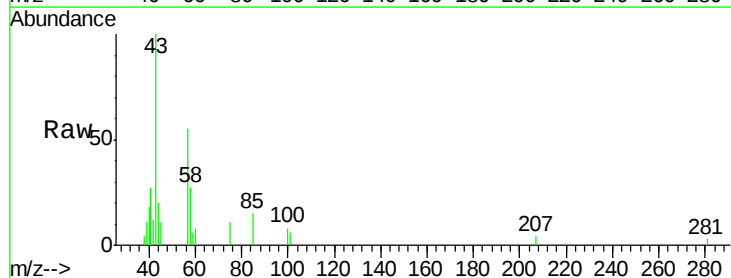
Acq: 8 Feb 2019 17:45

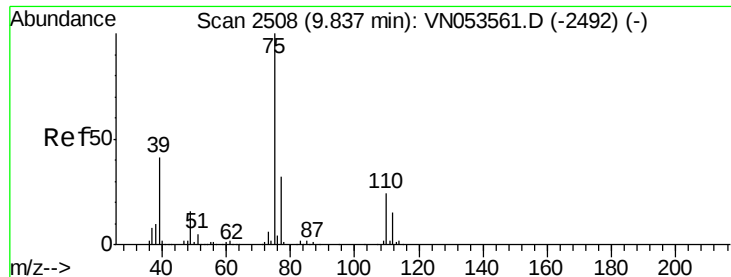
Tgt Ion: 43 Resp: 9510

Ion Ratio Lower Upper

43 100

58 34.0 32.8 49.2





#54

cis-1,3-Dichloropropene

Concen: 4.693 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

TEST-PIT-1

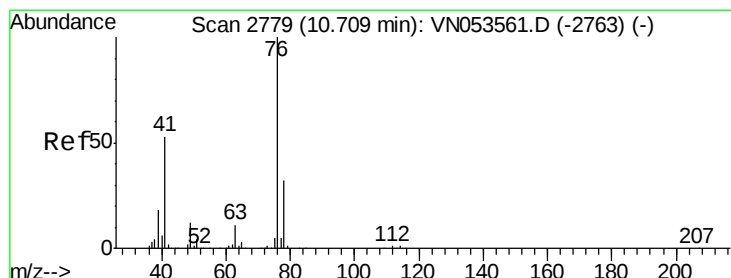
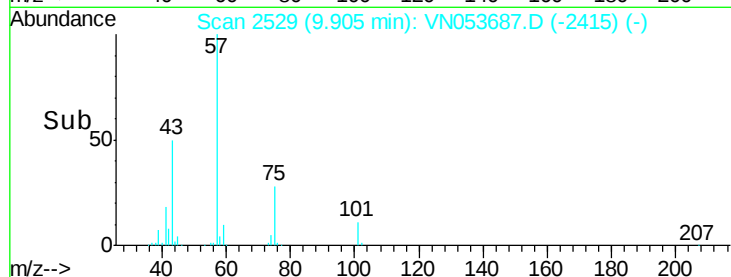
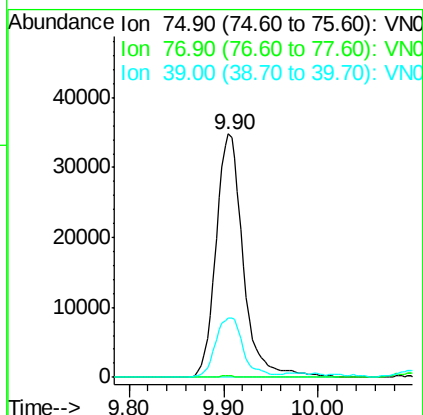
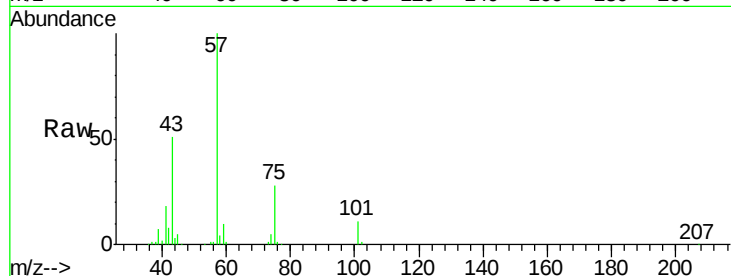
Tot Ion: 75 Resp: 69469

Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.6#

39 24.1 33.4 50.0#



#57

1,3-Dichloropropane

Concen: 0.998 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053687.D

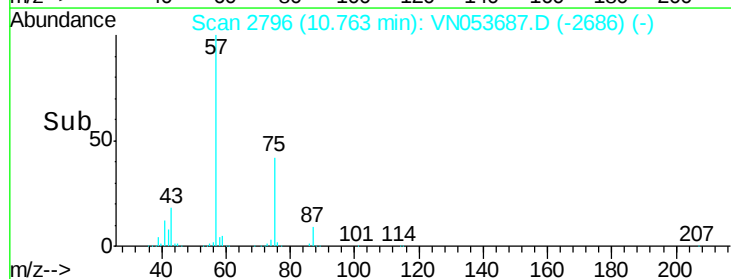
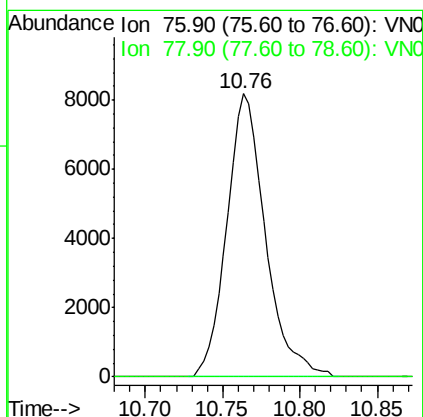
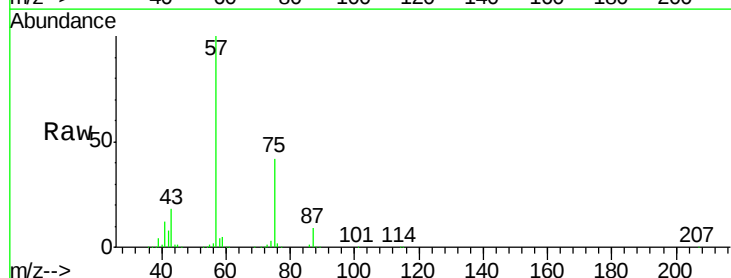
Acq: 8 Feb 2019 17:45

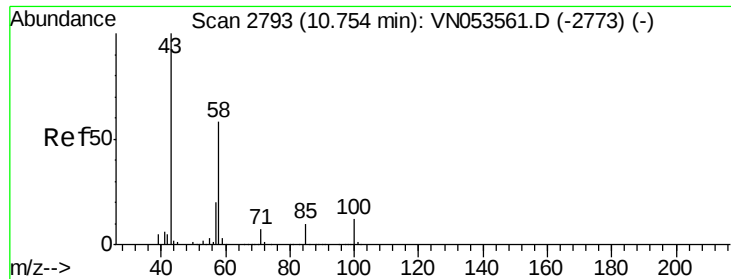
Tgt Ion: 76 Resp: 14189

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#

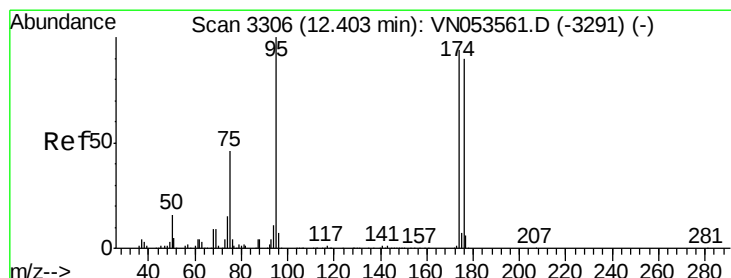
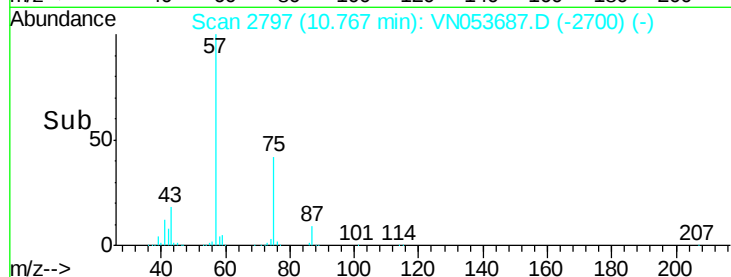
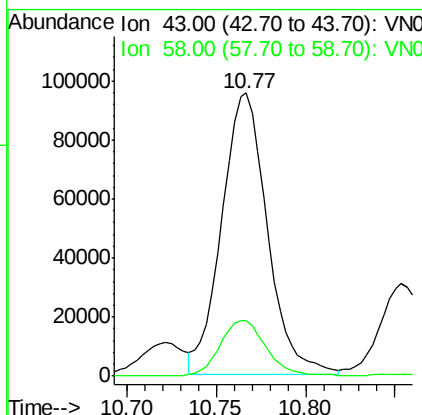
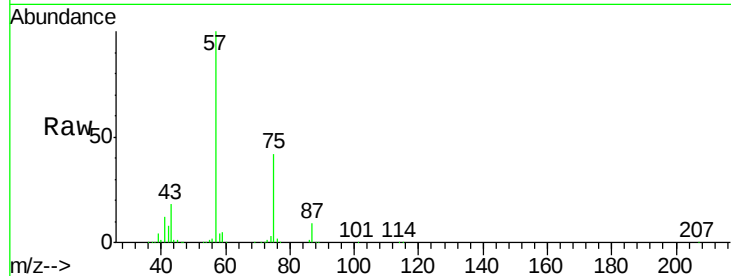




#59
2-Hexanone
Concen: 37.620 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

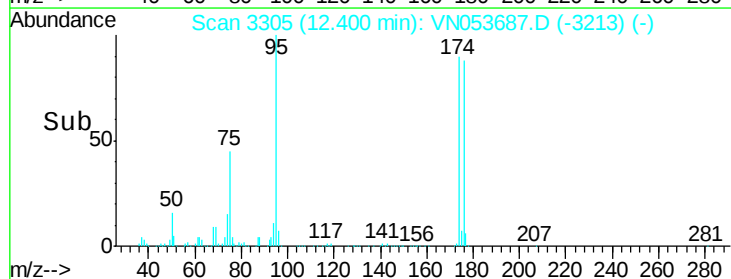
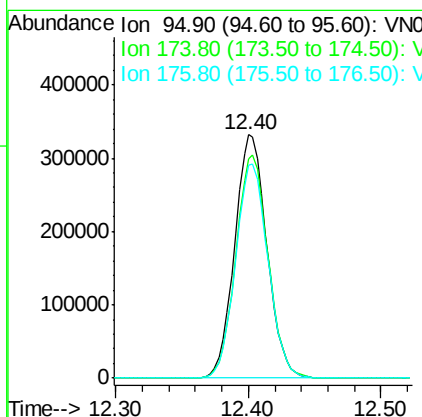
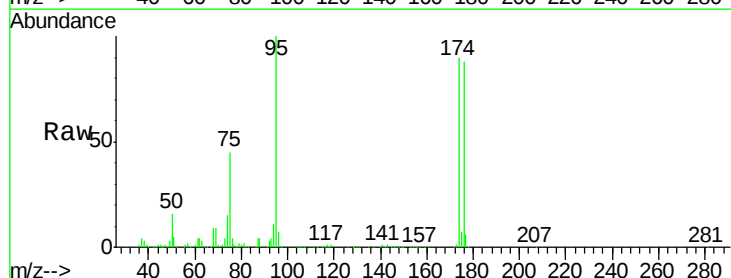
Instrument :
MSVOA_N
ClientSampled :
TEST-PIT-1

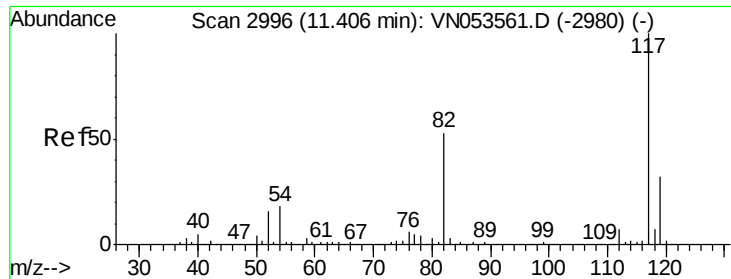
Tot Ion: 43 Resp: 170799
Ion Ratio Lower Upper
43 100
58 20.2 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

Tgt Ion: 95 Resp: 558908
Ion Ratio Lower Upper
95 100
174 91.9 0.0 183.2
176 88.8 0.0 177.4

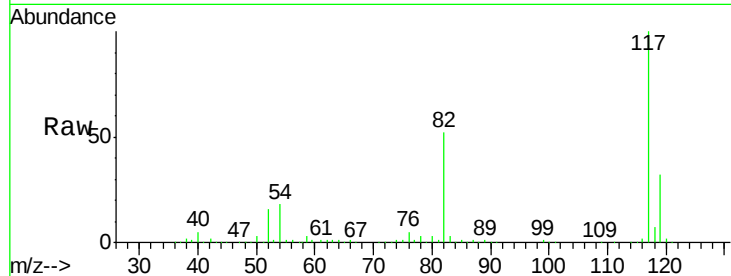




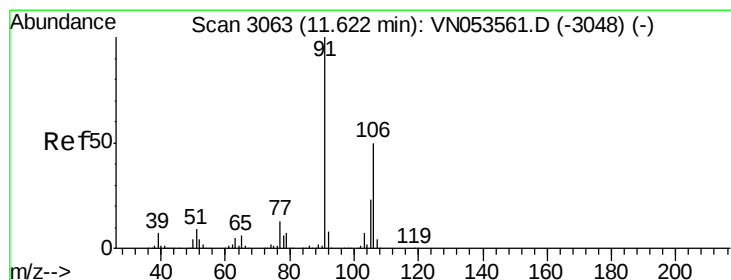
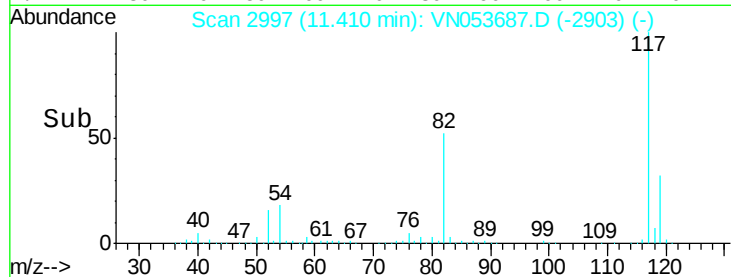
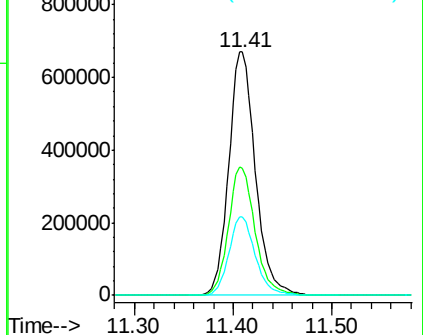
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

Instrument :
MSVOA_N
ClientSampled :
TEST-PIT-1

Tot Ion:117 Resp: 1263971
Ion Ratio Lower Upper
117 100
82 52.2 42.9 64.3
119 32.3 26.0 39.0

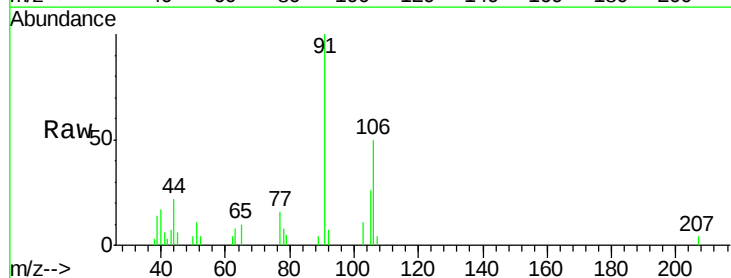


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

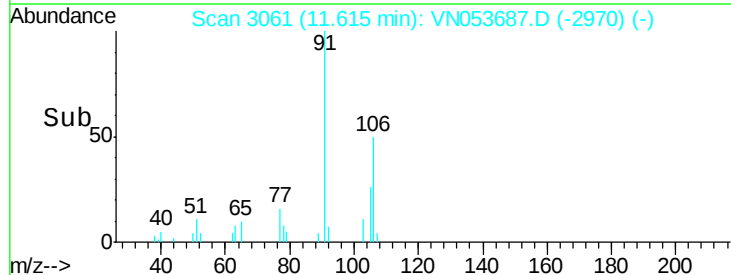
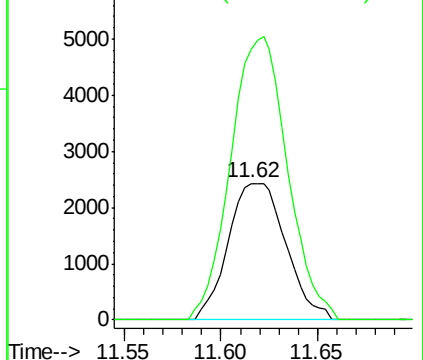


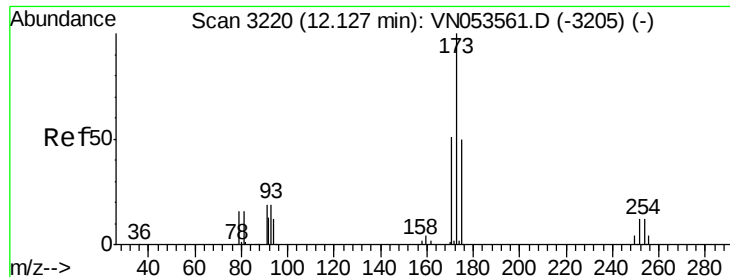
#68
m/p-Xylenes
Concen: 0.299 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN053687.D
Acq: 8 Feb 2019 17:45

Tgt Ion:106 Resp: 5031
Ion Ratio Lower Upper
106 100
91 203.9 161.4 242.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 0.324 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

TEST-PIT-1

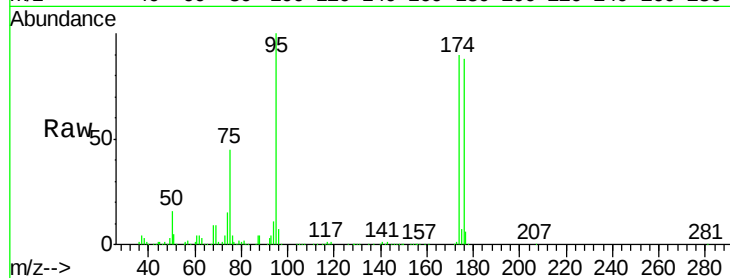
Tot Ion:173 Resp: 2082

Ion Ratio Lower Upper

173 100

175 1528.6 24.6 74.0#

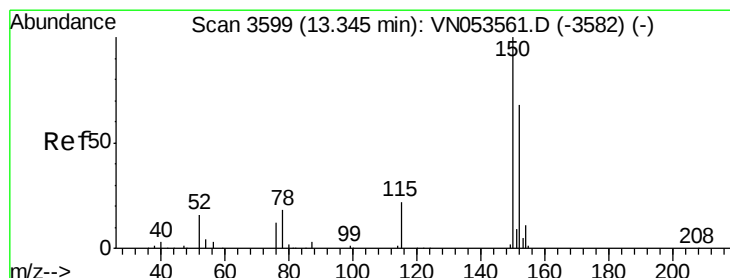
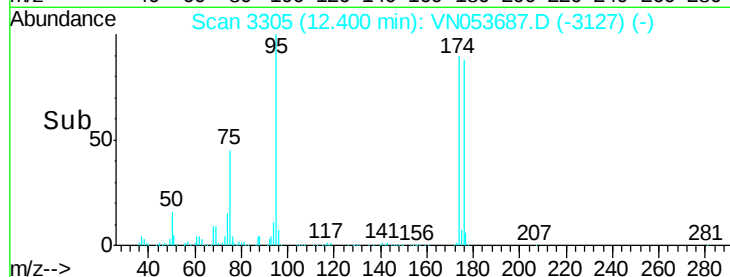
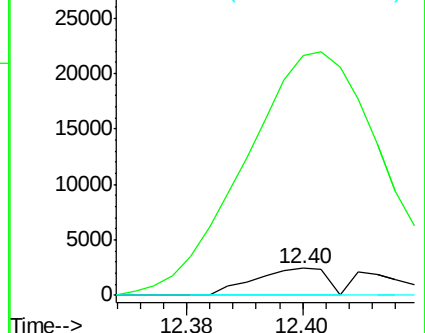
254 0.0 0.2 0.2#



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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

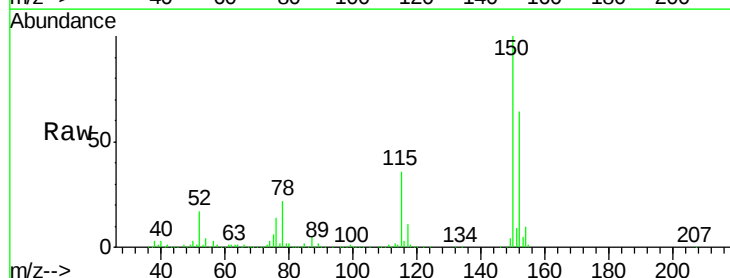
Tgt Ion:152 Resp: 517620

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.4

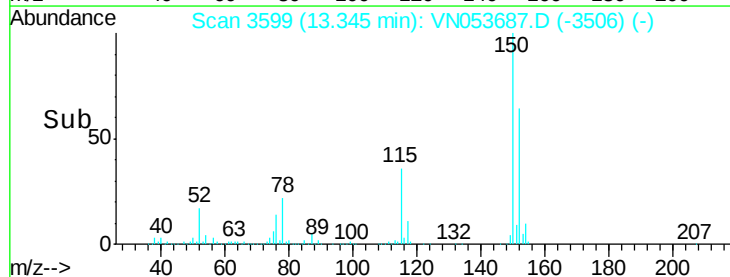
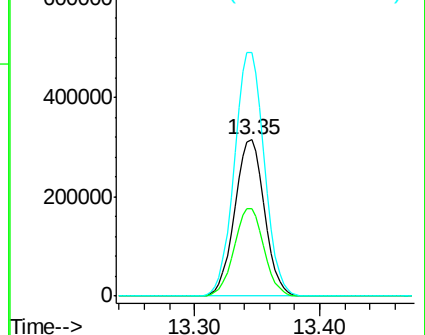
150 156.9 0.0 349.0

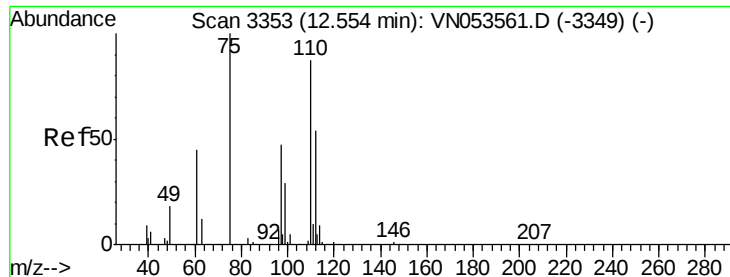


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 38.701 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

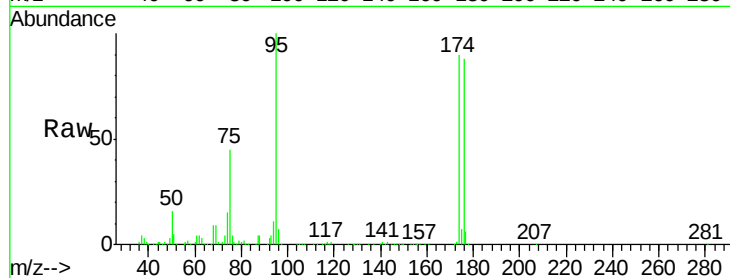
TEST-PIT-1

Tot Ion: 75 Resp: 257307

Ion Ratio Lower Upper

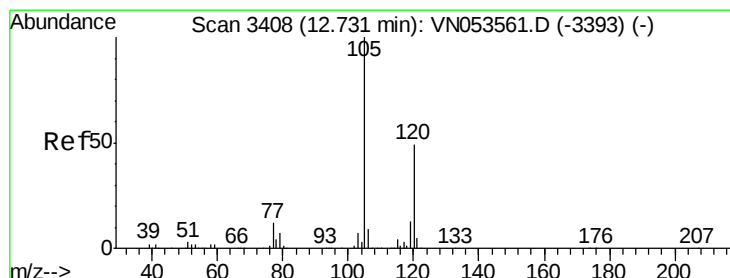
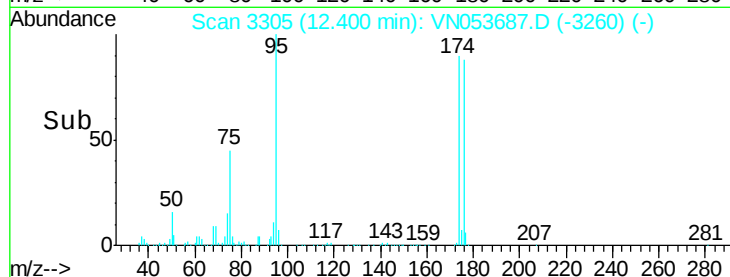
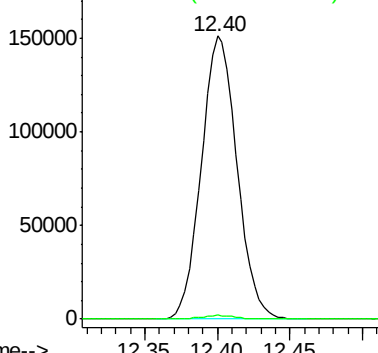
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.292 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053687.D

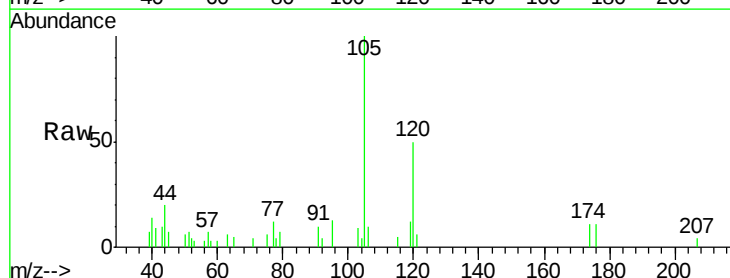
Acq: 8 Feb 2019 17:45

Tgt Ion:105 Resp: 8804

Ion Ratio Lower Upper

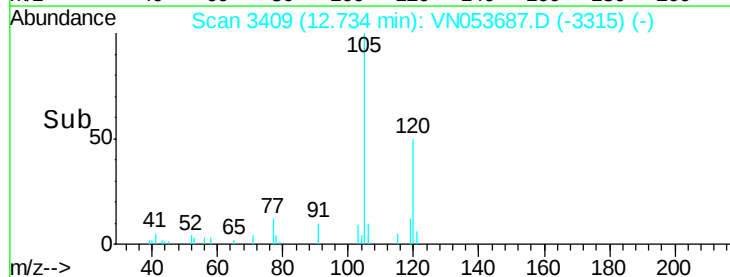
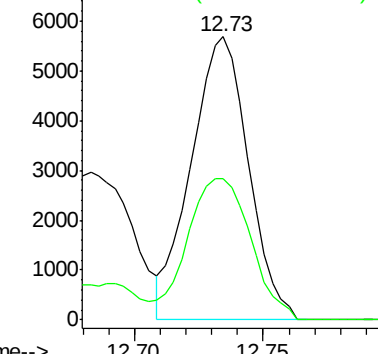
105 100

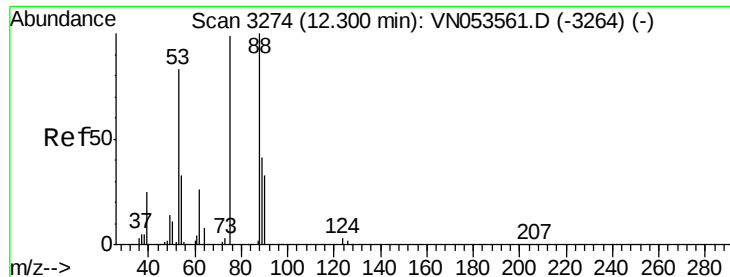
120 55.7 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 108.825 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

TEST-PIT-1

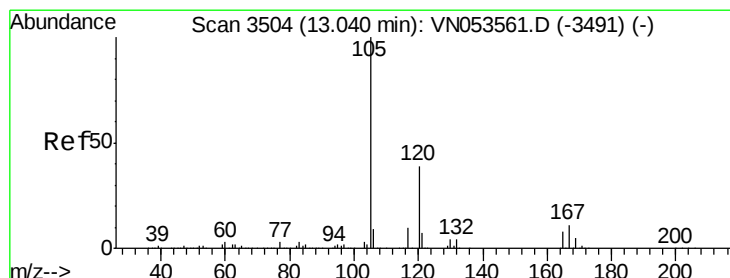
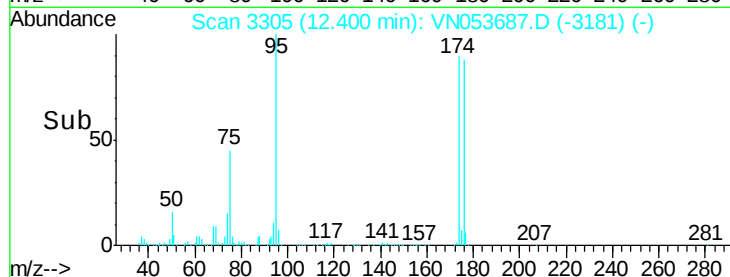
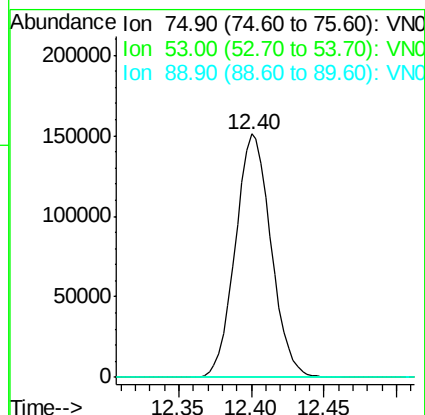
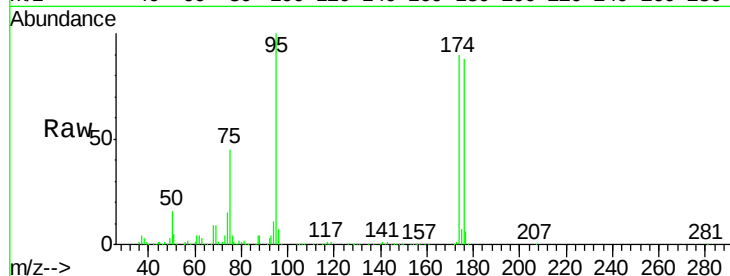
Tot Ion: 75 Resp: 257307

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



#84

1,2,4-Trimethylbenzene

Concen: 0.780 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053687.D

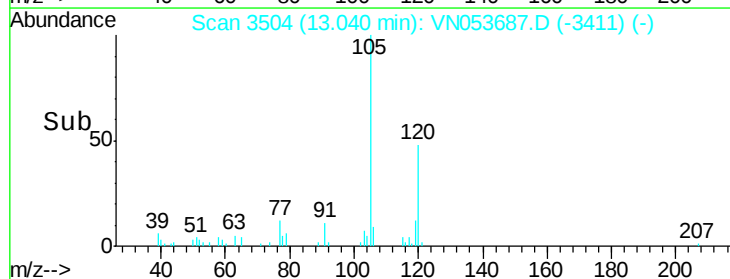
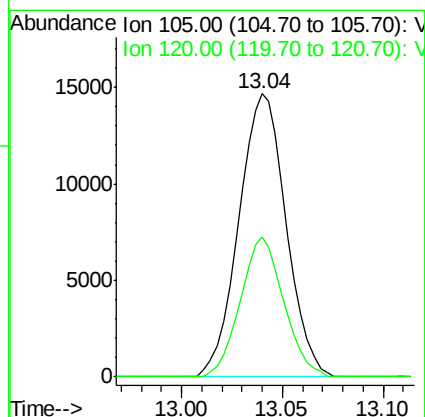
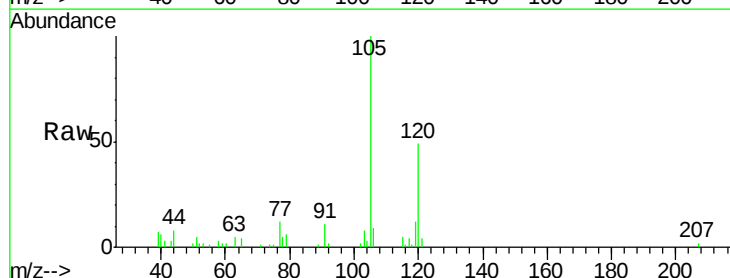
Acq: 8 Feb 2019 17:45

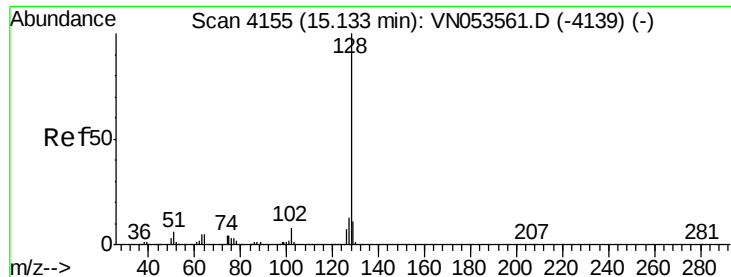
Tgt Ion: 105 Resp: 23984

Ion Ratio Lower Upper

105 100

120 45.4 23.0 69.0





#95

Naphthalene

Concen: 3.429 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053687.D

Acq: 8 Feb 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

TEST-PIT-1

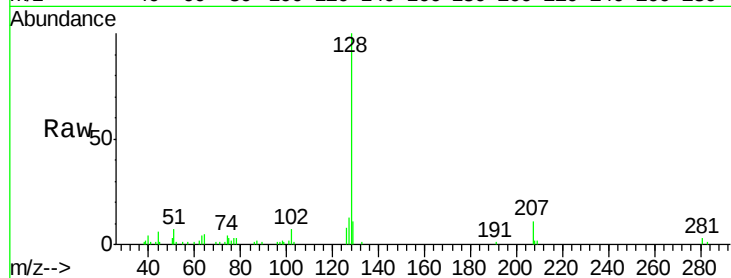
Tot Ion:128 Resp: 39874

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 10.6 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

