

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032819\
 Data File : VN054742.D
 Acq On : 28 Mar 2019 14:13
 Operator : JC/SP
 Sample : K2107-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

Quant Time: Mar 29 05:03:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	524156	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	865561	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	742984	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	275091	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	348452	53.45	ug/l	0.00
Spiked Amount			Recovery	=	106.90%	
35) Dibromofluoromethane	7.59	113	271489	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
50) Toluene-d8	10.09	98	1037346	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.40	95	328692	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	

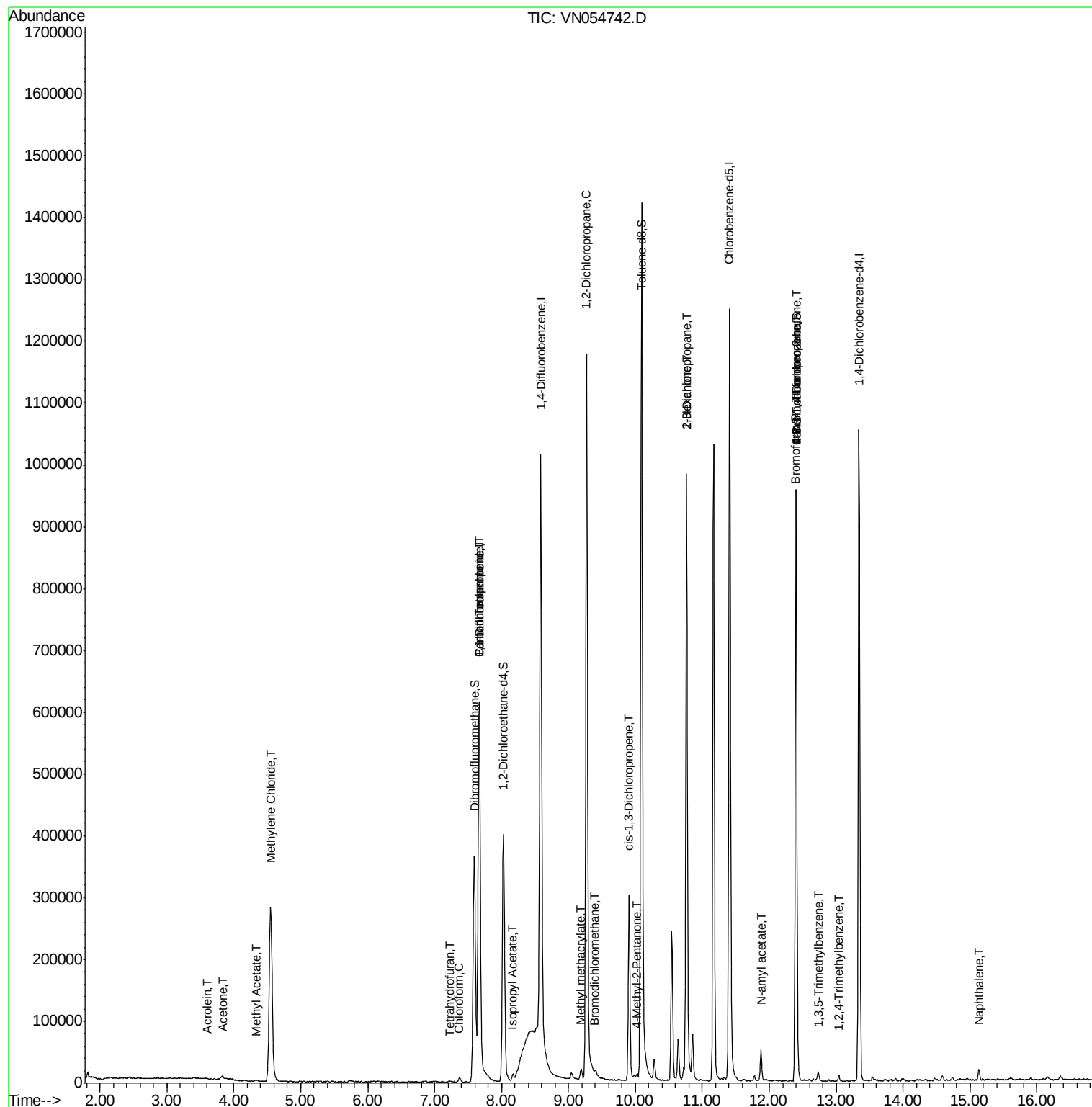
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	136	0.250	ug/l #	1
16) Acetone	3.83	43	8576	4.375	ug/l #	79
18) Methyl Acetate	4.33	43	1925	0.441	ug/l	93
20) Methylene Chloride	4.55	84	203292	35.183	ug/l #	81
29) Tetrahydrofuran	7.23	42	1533	0.941	ug/l #	46
30) Chloroform	7.37	83	6288	0.637	ug/l	91
31) Cyclohexane	7.67	56	11469	Below Cal	#	16
36) 1,1-Dichloropropene	7.66	75	41583	5.138	ug/l #	47
38) Carbon Tetrachloride	7.66	117	48910	6.219	ug/l #	16
43) Isopropyl Acetate	8.17	43	13260	1.364	ug/l #	96
45) 1,2-Dichloropropane	9.27	63	1339	0.215	ug/l #	43
47) Bromodichloromethane	9.39	83	1560	0.203	ug/l #	76
48) Methyl methacrylate	9.18	41	5939	1.126	ug/l #	11
51) 4-Methyl-2-Pentanone	10.03	43	8280	1.537	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	48217	5.466	ug/l #	73
57) 1,3-Dichloropropane	10.76	76	9257	1.041	ug/l #	43
59) 2-Hexanone	10.76	43	163704	46.519	ug/l #	47
71) Bromoform	12.39	173	446	2.334	ug/l #	1
74) N-amyl acetate	11.88	43	17848	2.800	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	173154	39.666	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7413	0.408	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	173154	131.241	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	4959	0.278	ug/l	100
95) Naphthalene	15.13	128	13373	1.363	ug/l	99

(#) = 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: VN054742.D

Acq: 28 Mar 2019 14:13

Instrument :

MSVOA_N

ClientSampled :

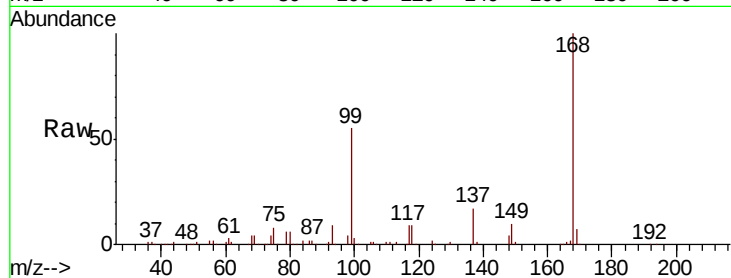
TP-6

Tot Ion:168 Resp: 524156

Ion Ratio Lower Upper

168 100

99 55.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054459.D

Ion 98.90 (98.60 to 99.60): VN054459.D

7.67

200000

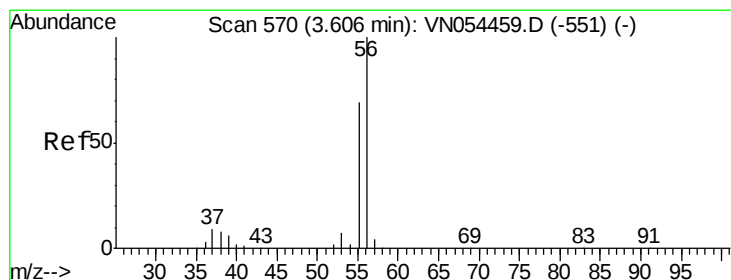
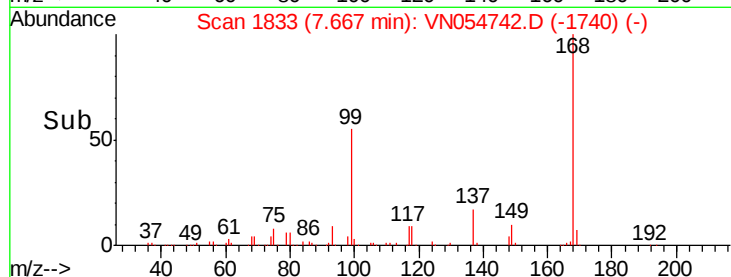
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.250 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054742.D

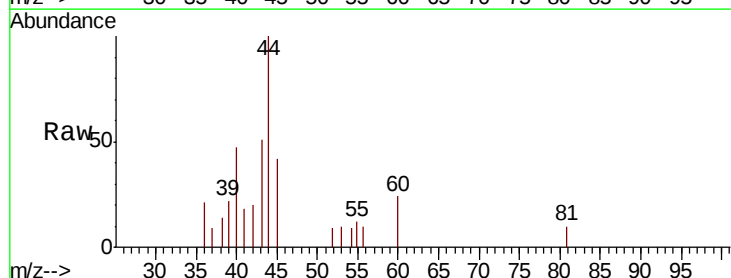
Acq: 28 Mar 2019 14:13

Tgt Ion: 56 Resp: 136

Ion Ratio Lower Upper

56 100

55 180.1 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN054459.D

Ion 55.00 (54.70 to 55.70): VN054459.D

3.61

250

200

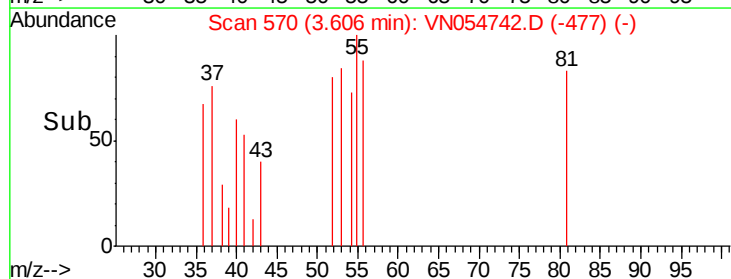
150

100

50

0

Time-->





#16

Acetone

Concen: 4.375 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.01 min

Lab File: VN054742.D

Acq: 28 Mar 2019 14:13

Instrument :

MSVOA_N

ClientSampled :

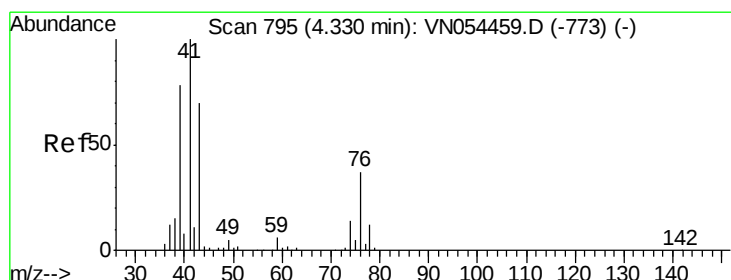
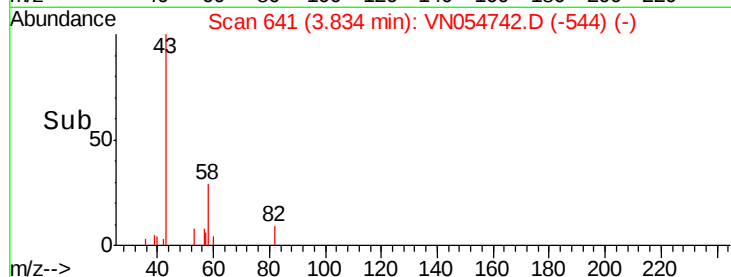
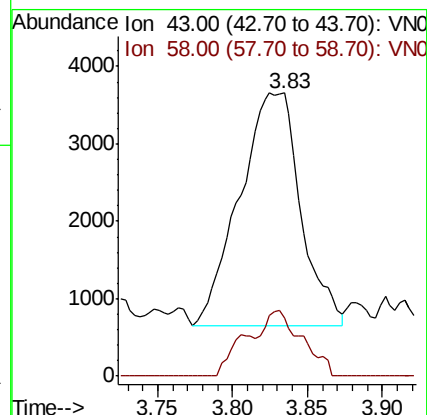
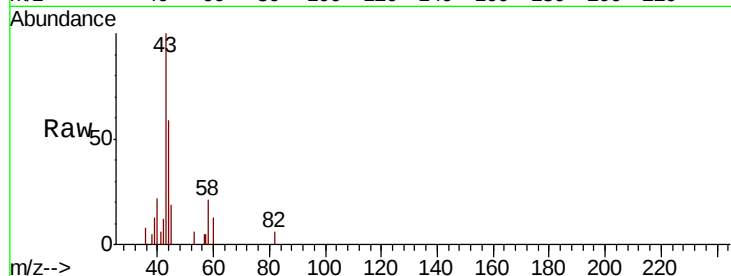
TP-6

Tot Ion: 43 Resp: 8576

Ion Ratio Lower Upper

43 100

58 25.0 29.9 44.9#



#18

Methyl Acetate

Concen: 0.441 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054742.D

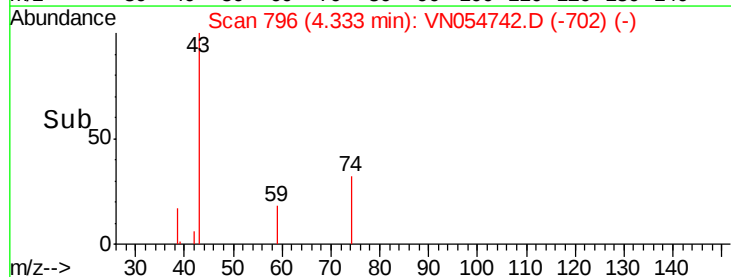
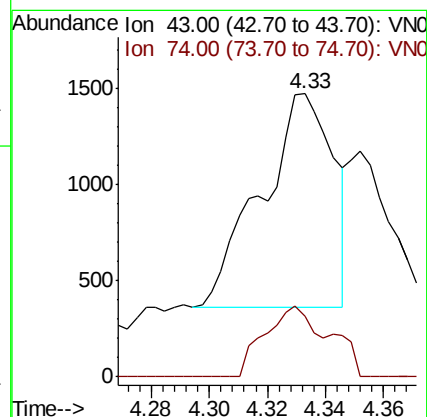
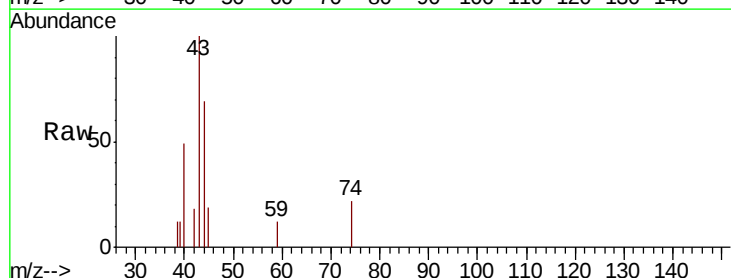
Acq: 28 Mar 2019 14:13

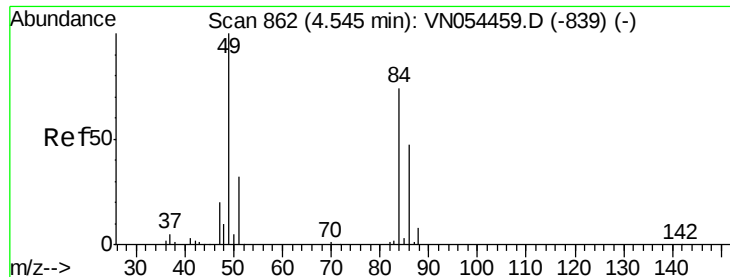
Tgt Ion: 43 Resp: 1925

Ion Ratio Lower Upper

43 100

74 29.4 20.8 31.2

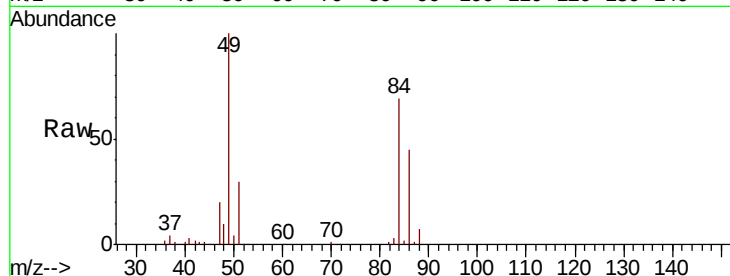




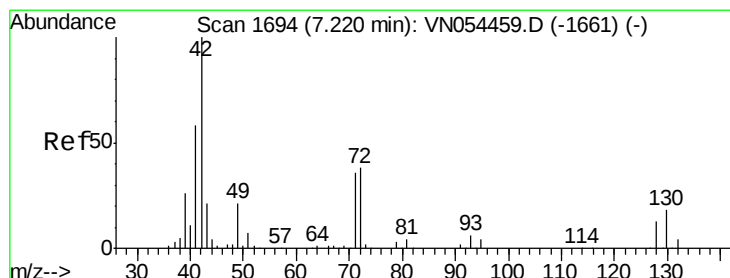
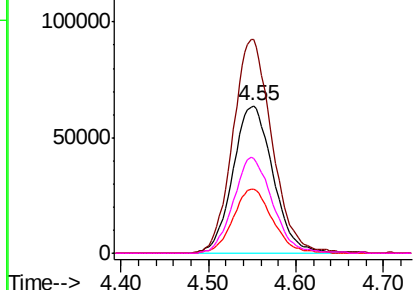
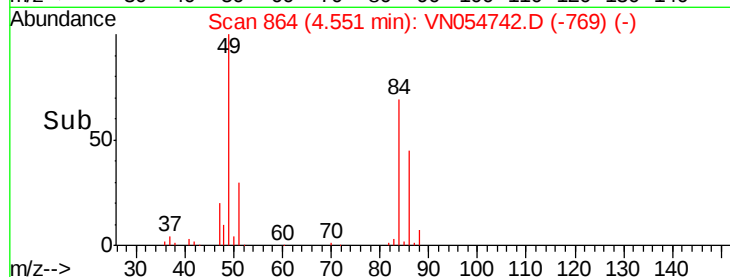
#20
Methvlene Chloride
Concen: 35.183 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN054742.D
Acq: 28 Mar 2019 14:13

Instrument :
MSVOA_N
ClientSampled :
TP-6

Tot Ion: 84 Resp: 203292
Ion Ratio Lower Upper
84 100
49 145.1 89.7 134.5#
51 43.9 28.2 42.4#
86 64.8 50.8 76.2

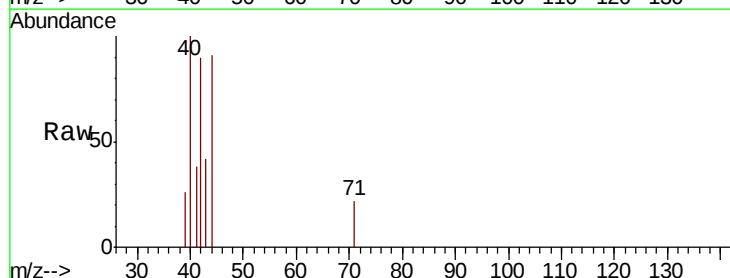


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

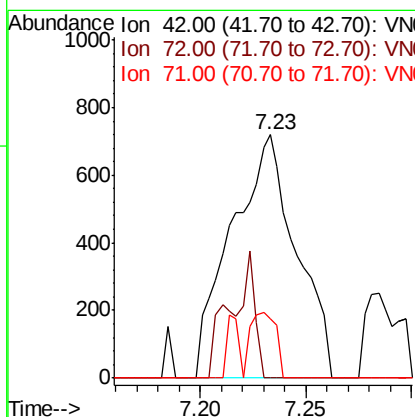
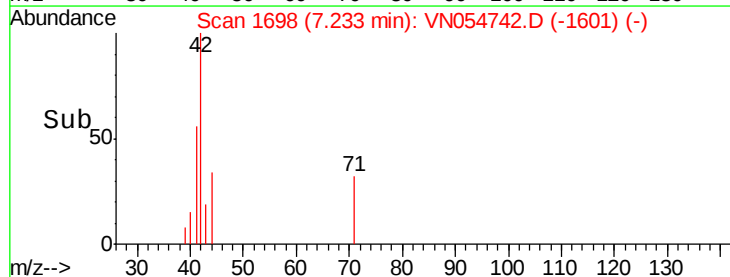


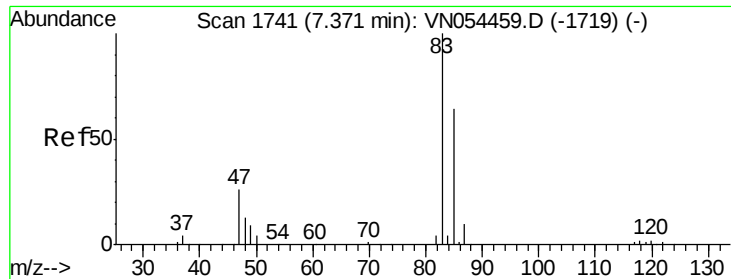
#29
Tetrahydrofuran
Concen: 0.941 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.01 min
Lab File: VN054742.D
Acq: 28 Mar 2019 14:13

Tgt Ion: 42 Resp: 1533
Ion Ratio Lower Upper
42 100
72 9.5 37.8 56.6#
71 10.8 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VNC
Ion 72.00 (71.70 to 72.70): VNC
Ion 71.00 (70.70 to 71.70): VNC

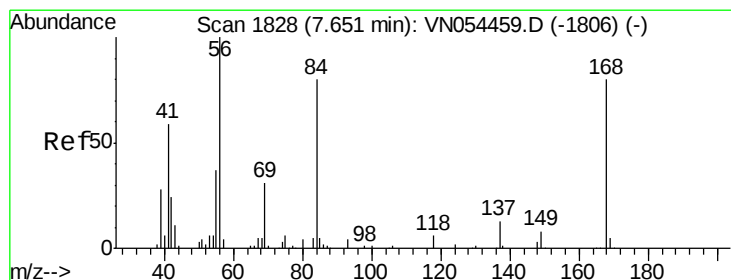
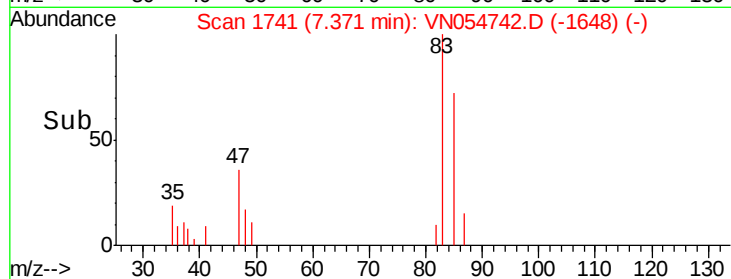
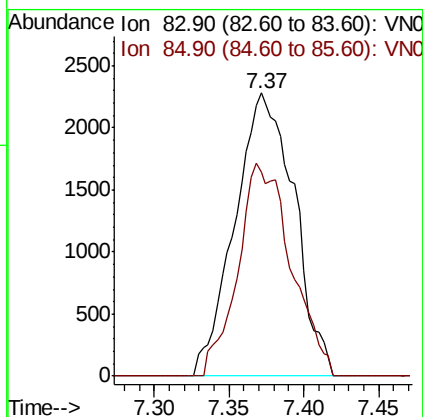
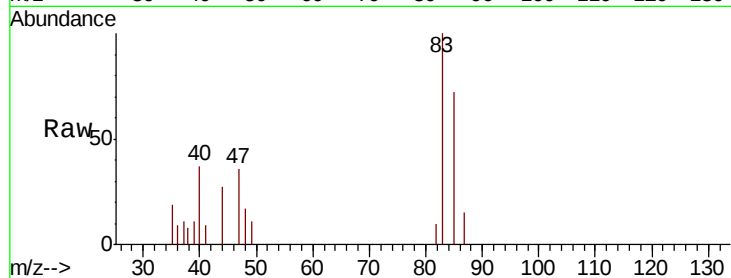




#30
Chloroform
Concen: 0.637 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054742.D
Acq: 28 Mar 2019 14:13

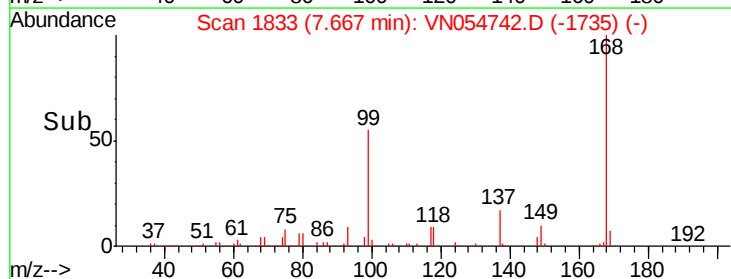
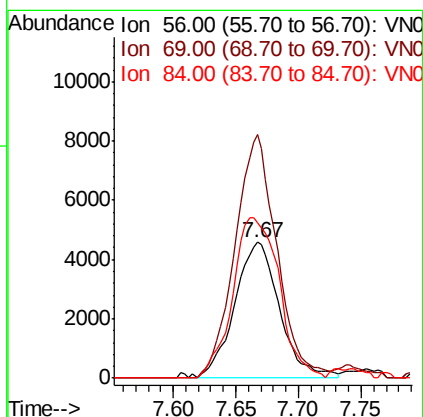
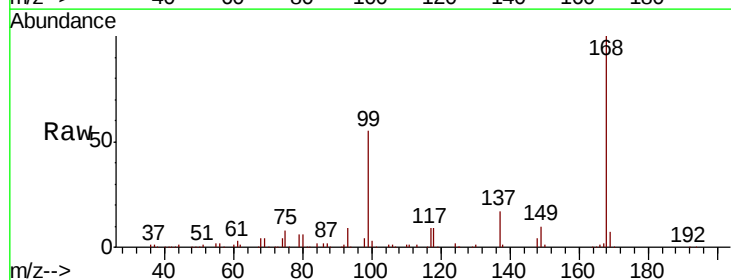
Instrument :
MSVOA_N
ClientSampled :
TP-6

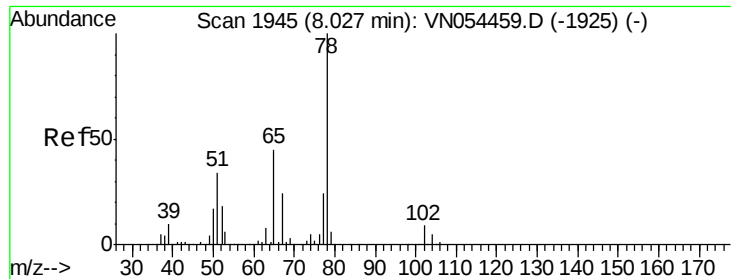
Tot Ion: 83 Resp: 6288
Ion Ratio Lower Upper
83 100
85 72.1 52.2 78.4



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054742.D
Acq: 28 Mar 2019 14:13

Tgt Ion: 56 Resp: 11469
Ion Ratio Lower Upper
56 100
69 179.4 27.8 41.6#
84 114.8 74.6 111.8#

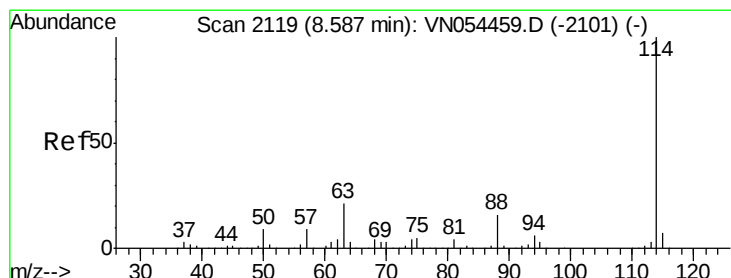
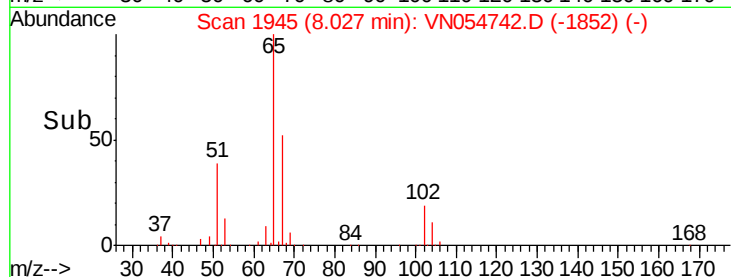
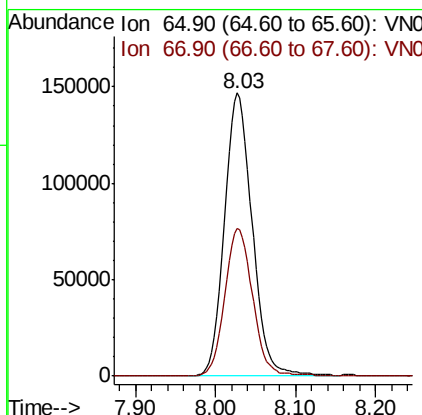
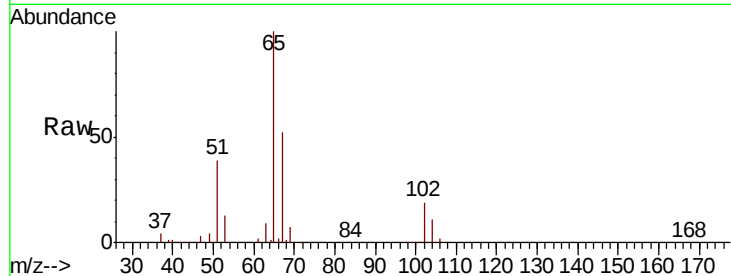




#33
 1,2-Dichloroethane-d4
 Concen: 53.446 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

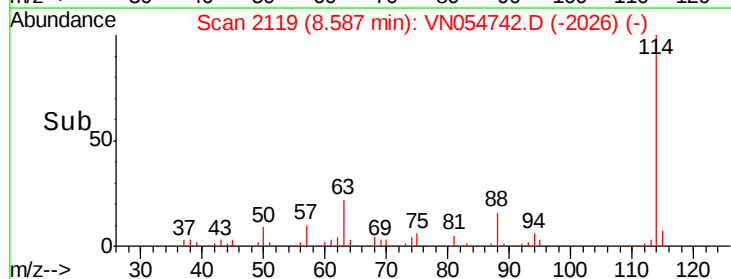
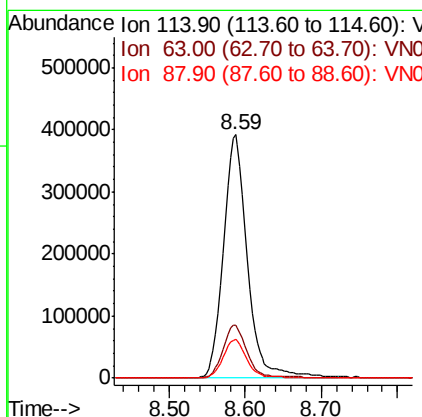
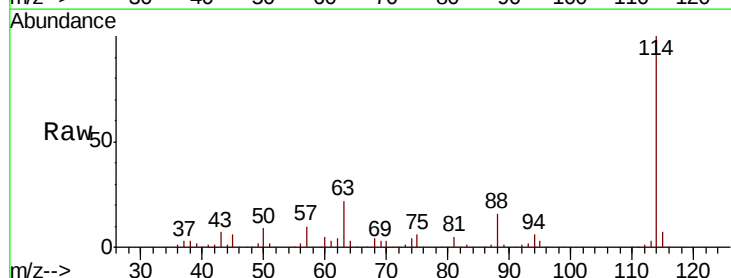
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

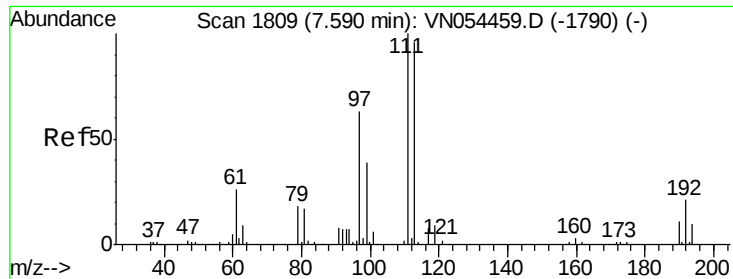
Tot Ion: 65 Resp: 348452
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

Tgt Ion: 114 Resp: 865561
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 35.2
 88 15.9 0.0 30.2

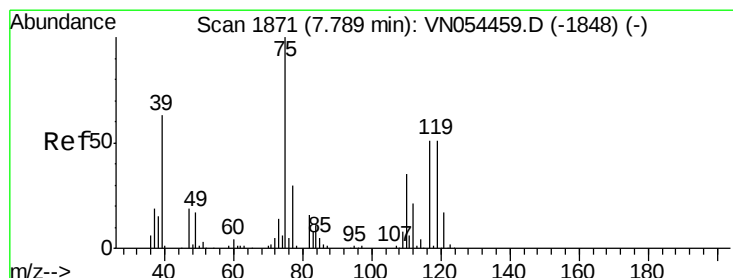
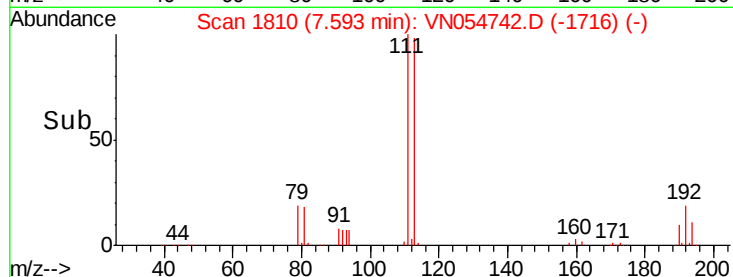
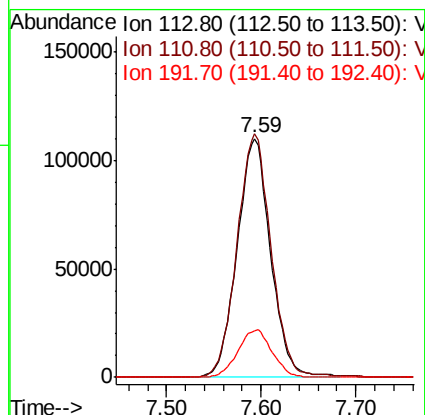
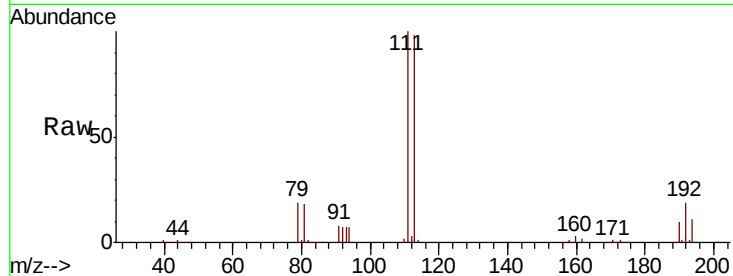




#35
 Dibromofluoromethane
 Concen: 48.686 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

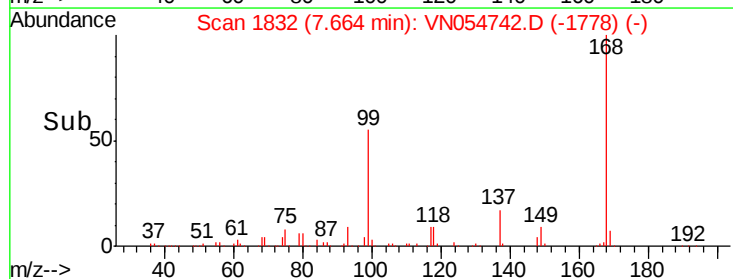
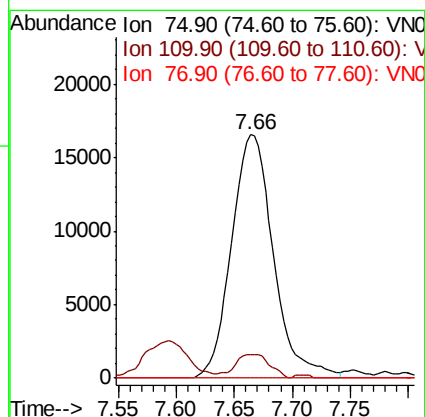
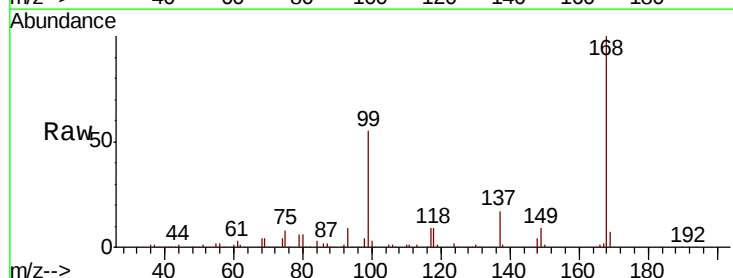
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 TP-6

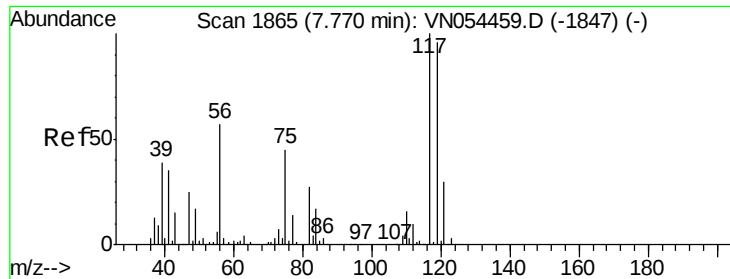
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.2	123.4
192	20.4	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.138 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.219 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054742.D

Acq: 28 Mar 2019 14:13

Instrument :

MSVOA_N

ClientSampled :

TP-6

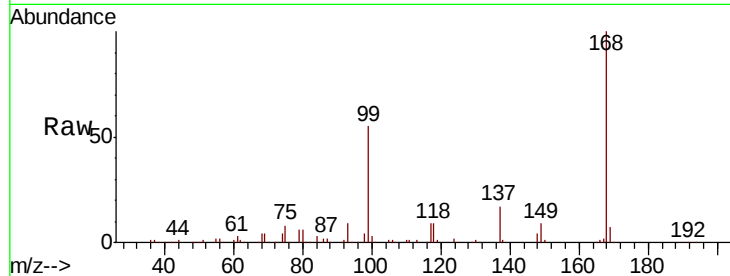
Tot Ion:117 Resp: 48910

Ion Ratio Lower Upper

117 100

119 5.4 76.3 114.5#

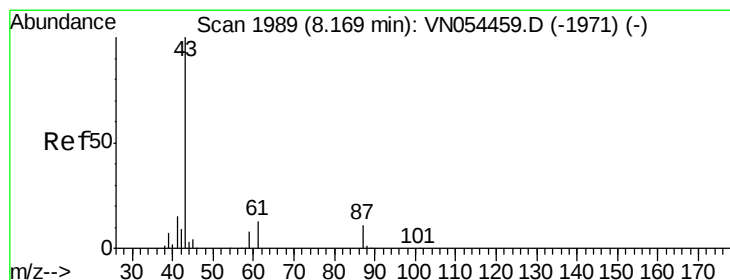
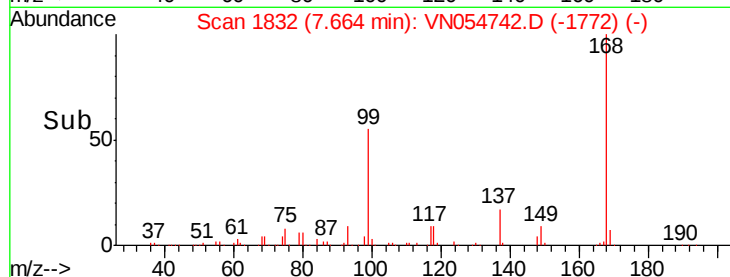
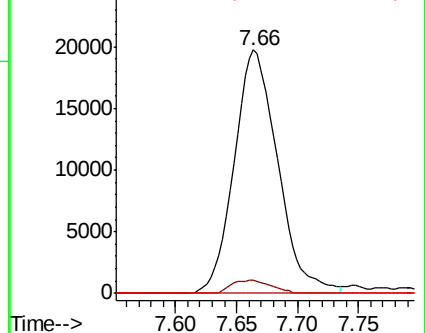
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.364 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054742.D

Acq: 28 Mar 2019 14:13

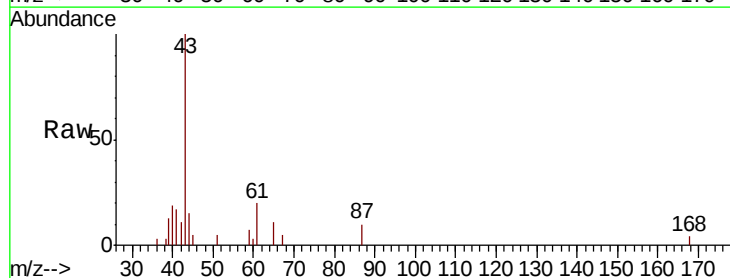
Tgt Ion: 43 Resp: 13260

Ion Ratio Lower Upper

43 100

61 19.3 15.8 23.8

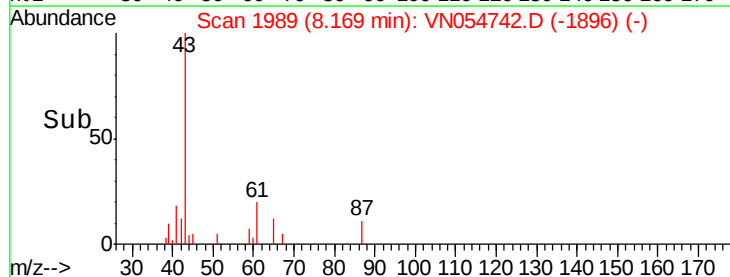
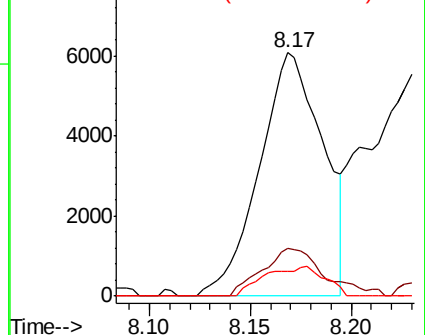
87 11.7 12.0 18.0#

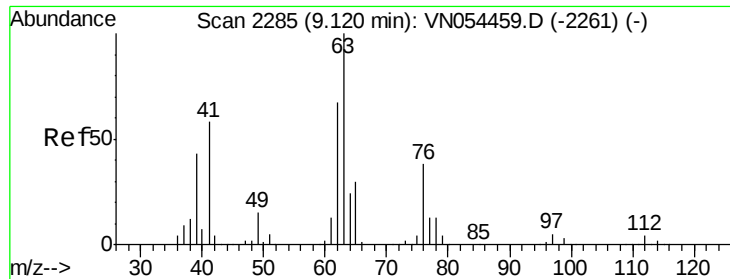


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

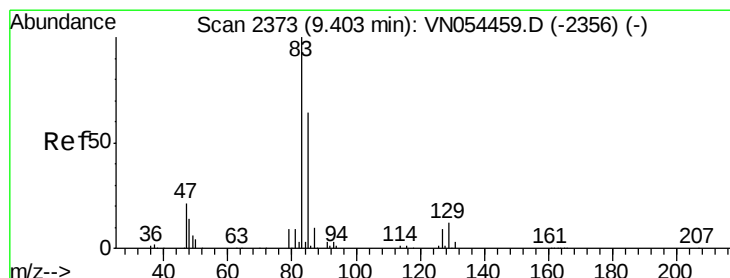
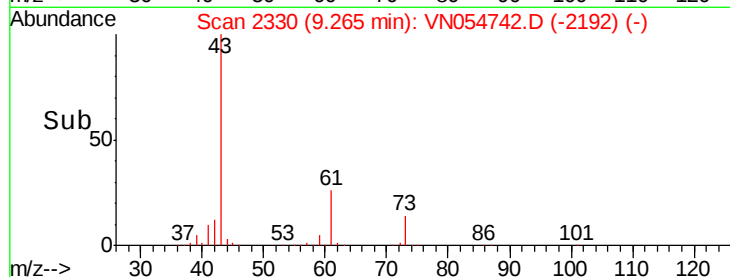
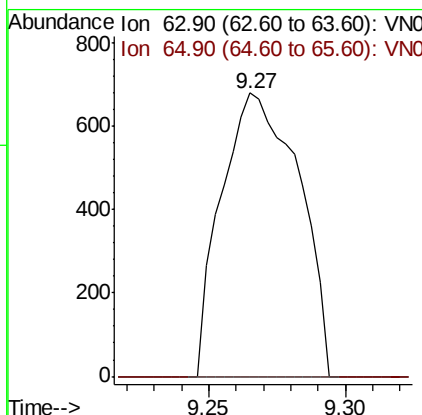
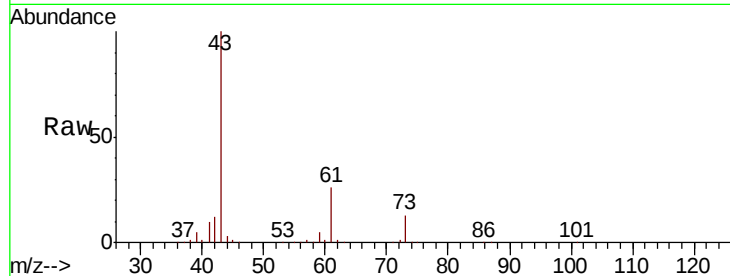




#45
 1,2-Dichloropropane
 Concen: 0.215 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

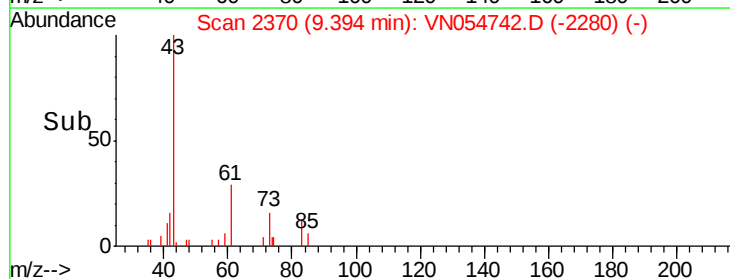
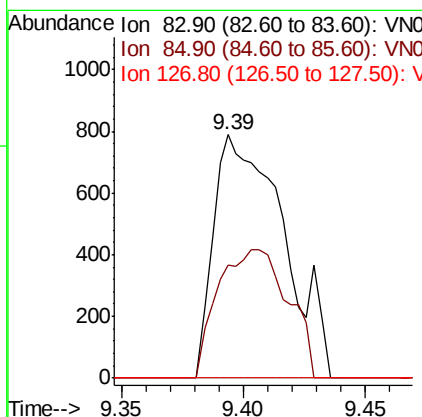
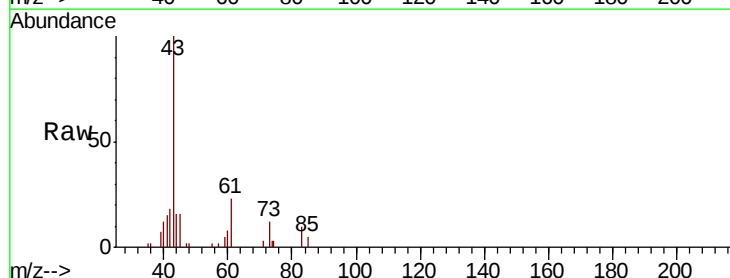
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

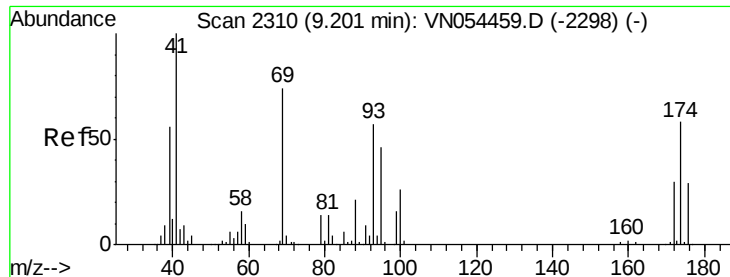
Tot Ion: 63 Resp: 1339
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#47
 Bromodichloromethane
 Concen: 0.203 ug/l
 RT: 9.39 min Scan# 2370
 Delta R.T. -0.01 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

Tgt Ion: 83 Resp: 1560
 Ion Ratio Lower Upper
 83 100
 85 46.6 52.8 79.2#
 127 0.0 7.4 11.2#

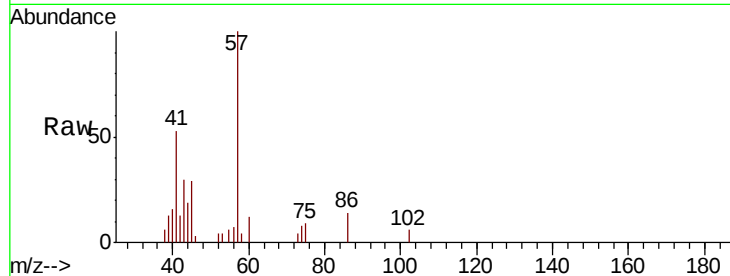




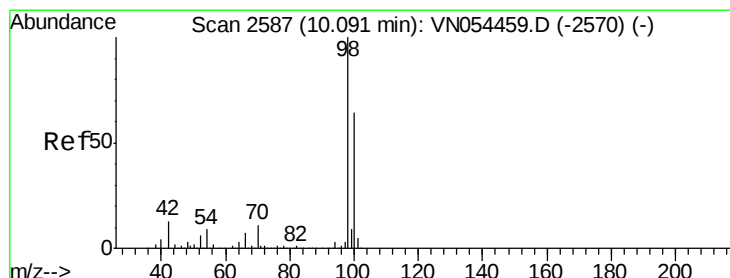
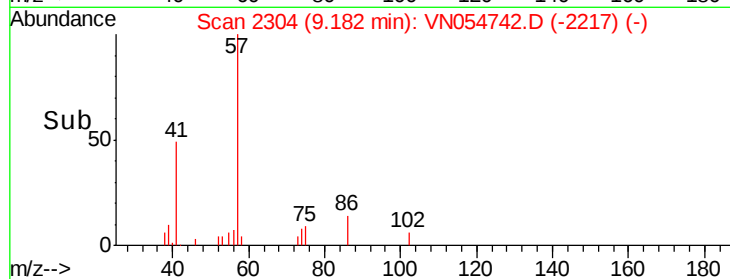
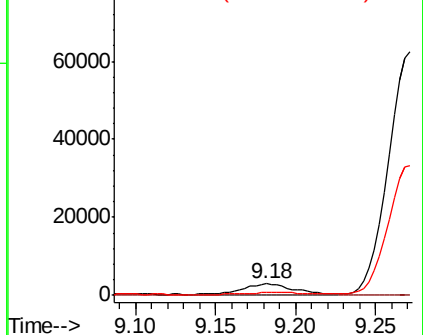
#48
Methvl methacrylate
Concen: 1.126 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054742.D
Acq: 28 Mar 2019 14:13

Instrument :
MSVOA_N
ClientSampled :
TP-6

Tot Ion: 41 Resp: 5939
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#

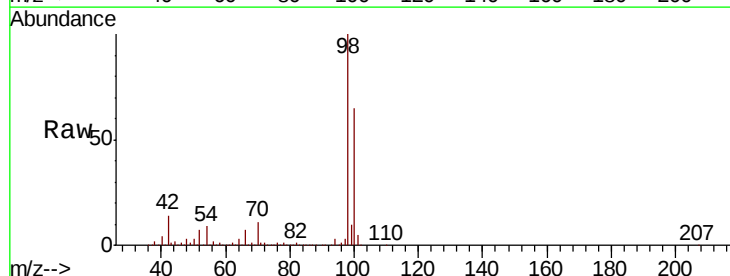


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

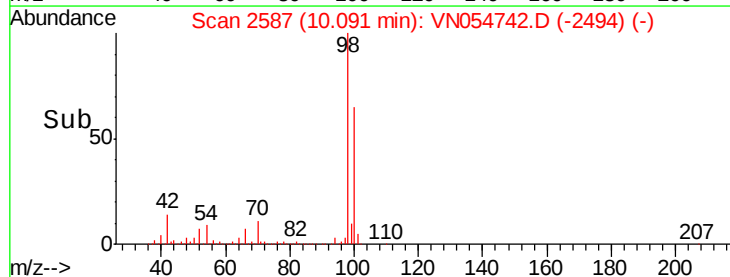
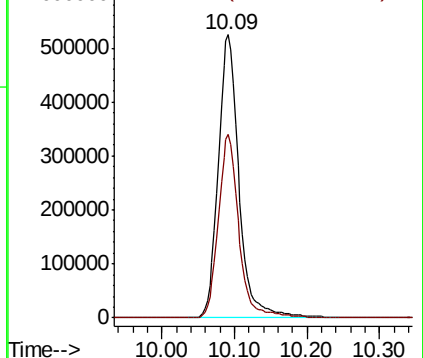


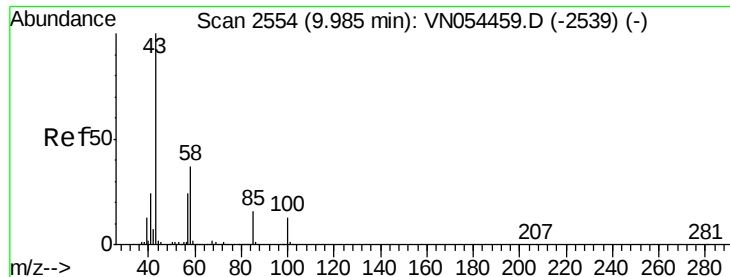
#50
Toluene-d8
Concen: 49.483 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054742.D
Acq: 28 Mar 2019 14:13

Tgt Ion: 98 Resp: 1037346
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8



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

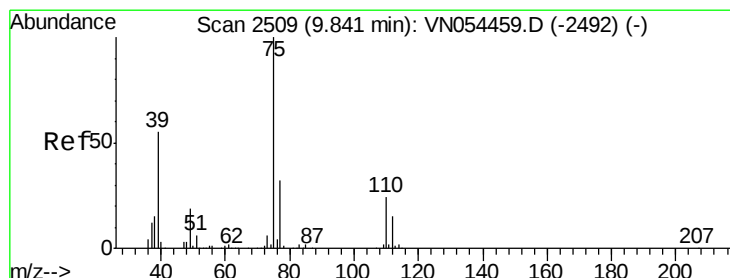
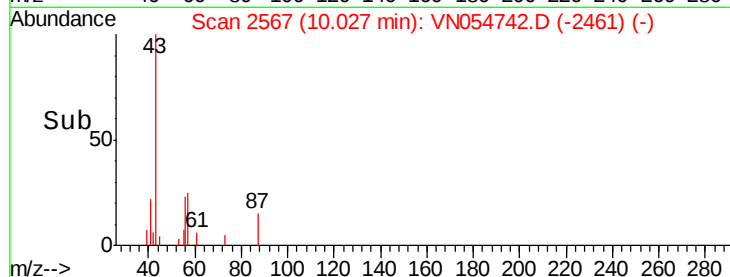
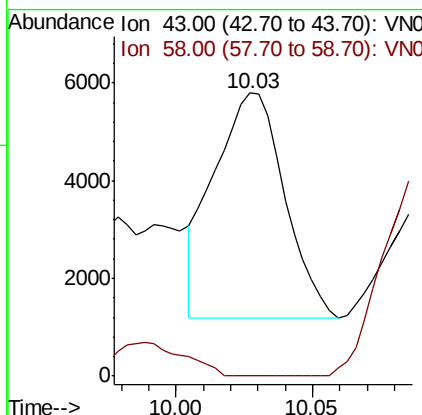
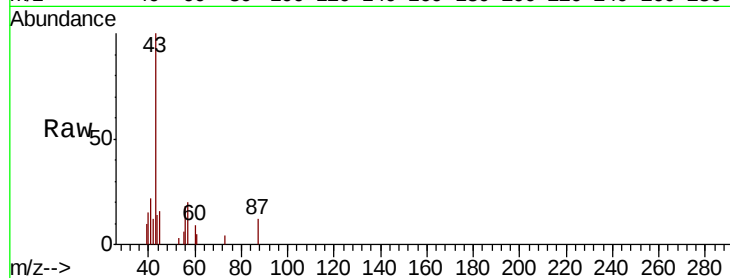




#51
 4-Methyl-2-Pentanone
 Concen: 1.537 ug/l
 RT: 10.03 min Scan# 2567
 Delta R.T. 0.04 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

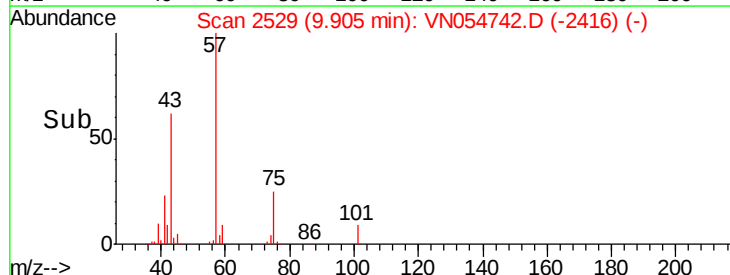
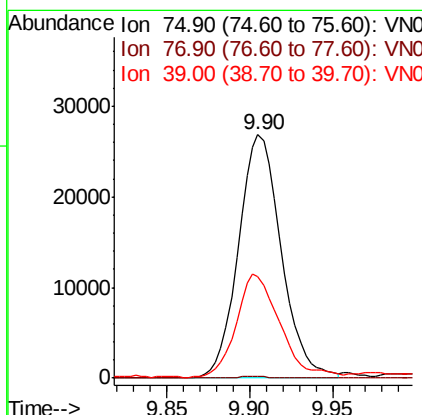
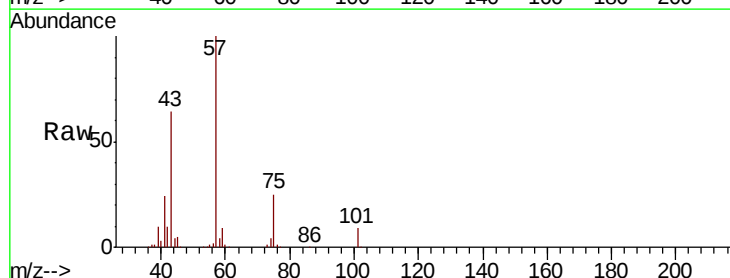
Instrument :
 MSVOA_N
 ClientSampled :
 TP-6

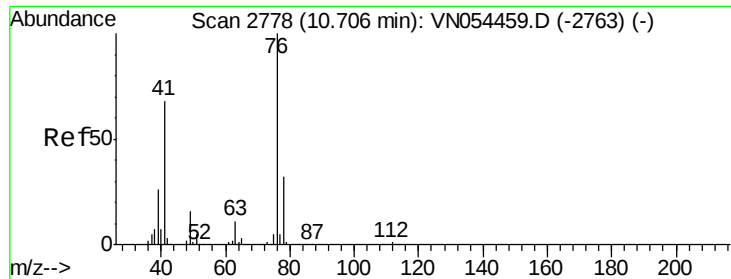
Tot Ion: 43 Resp: 8280
 Ion Ratio Lower Upper
 43 100
 58 0.0 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.466 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

Tgt Ion: 75 Resp: 48217
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.4 38.0#
 39 41.4 37.2 55.8

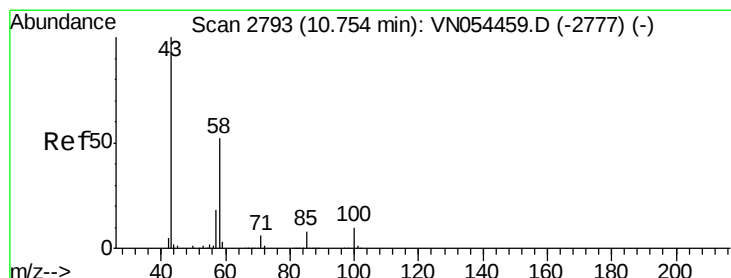
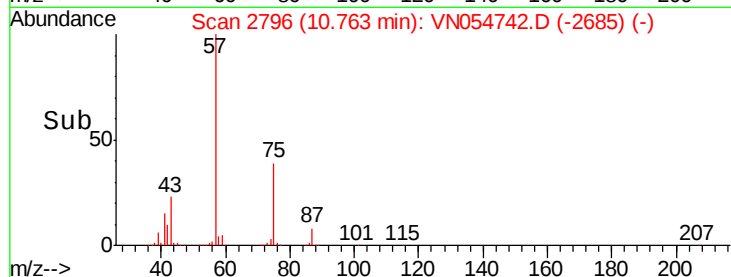
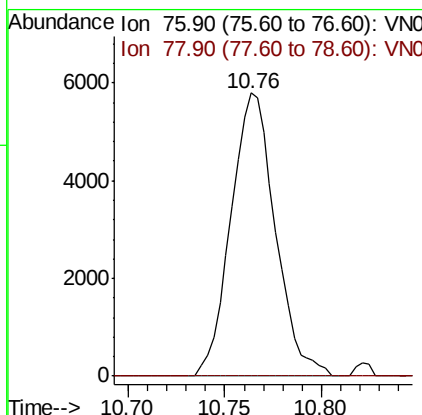
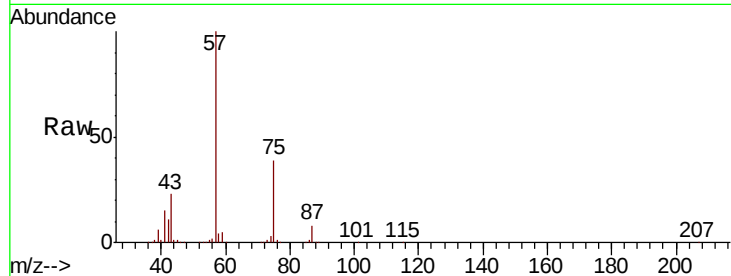




#57
 1,3-Dichloropropane
 Concen: 1.041 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

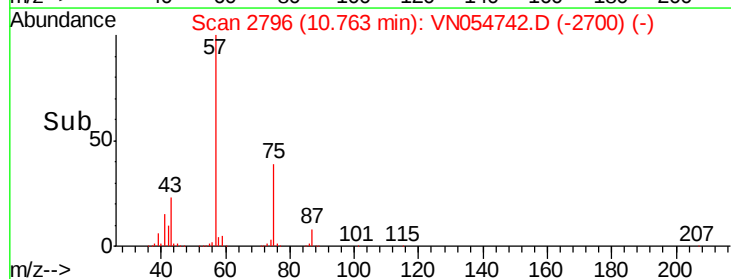
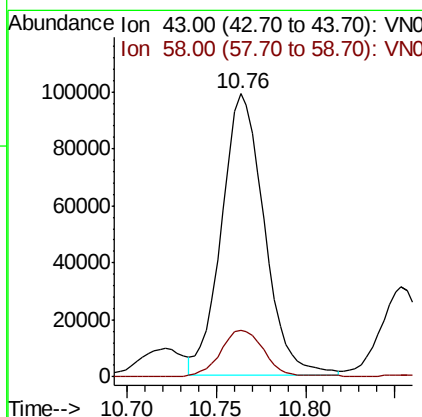
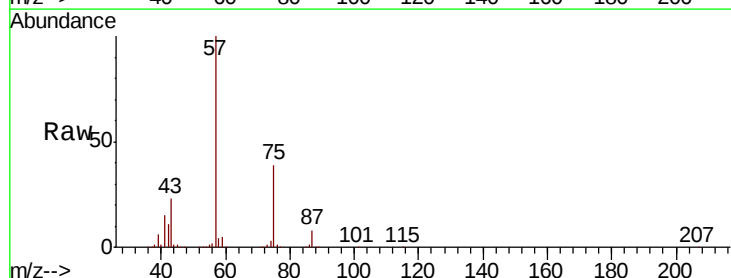
Instrument :
 MSVOA_N
 ClientSampled :
 TP-6

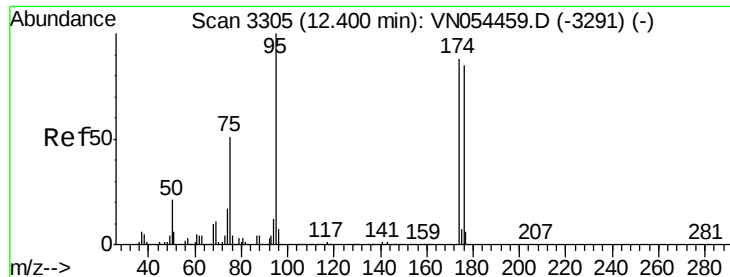
Tot Ion: 76 Resp: 9257
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 46.519 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

Tgt Ion: 43 Resp: 163704
 Ion Ratio Lower Upper
 43 100
 58 17.4 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 46.077 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054742.D

Acq: 28 Mar 2019 14:13

Instrument :

MSVOA_N

ClientSampled :

TP-6

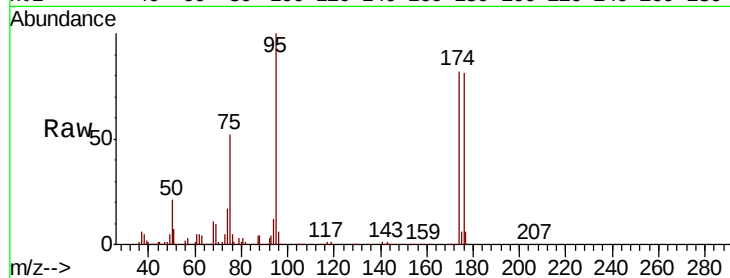
Tot Ion: 95 Resp: 328692

Ion Ratio Lower Upper

95 100

174 83.1 0.0 191.0

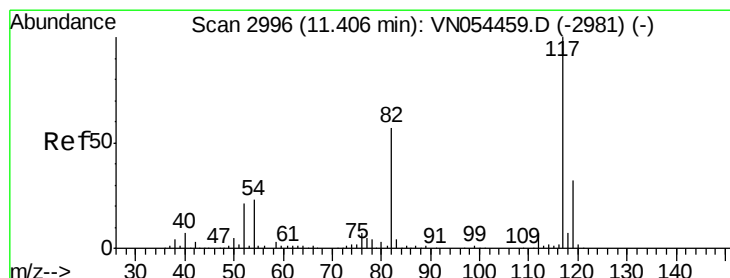
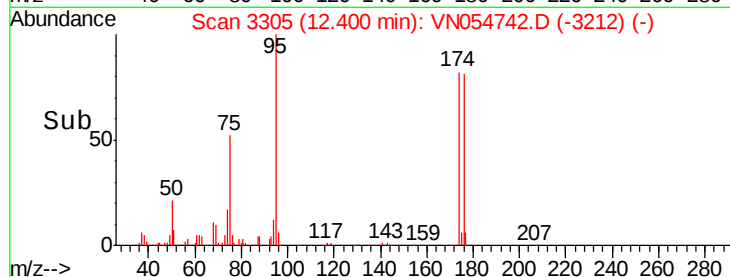
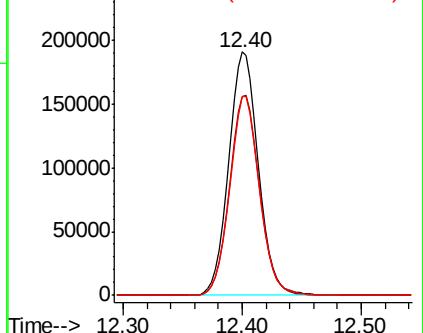
176 81.7 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054742.D

Acq: 28 Mar 2019 14:13

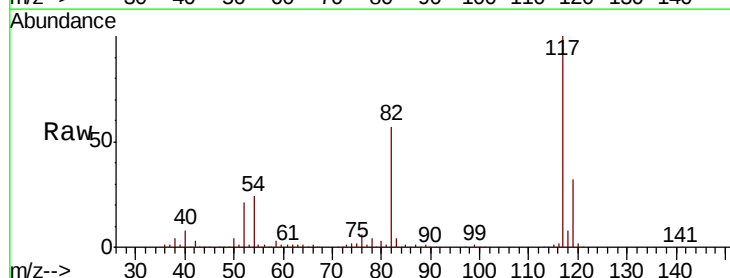
Tgt Ion: 117 Resp: 742984

Ion Ratio Lower Upper

117 100

82 56.9 40.0 60.0

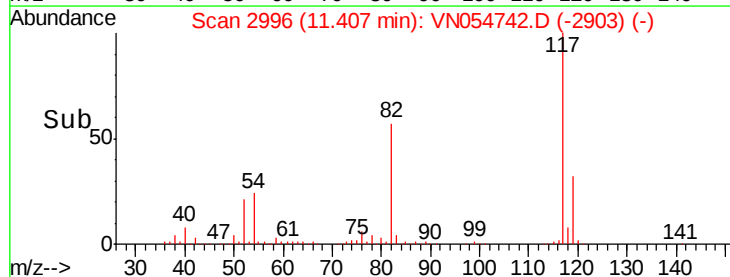
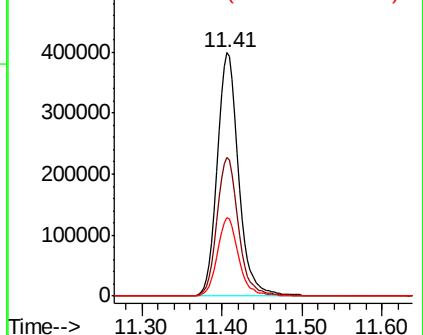
119 32.3 25.8 38.6

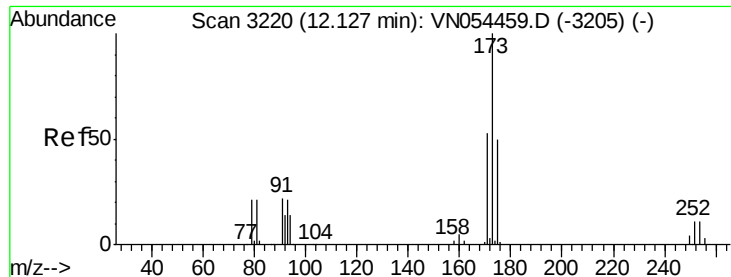


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 2.334 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN054742.D

Acq: 28 Mar 2019 14:13

Instrument :

MSVOA_N

ClientSampled :

TP-6

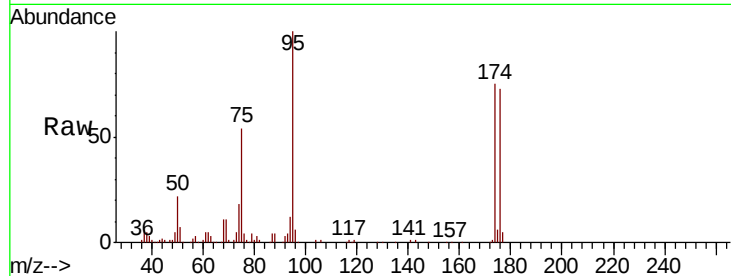
Tot Ion:173 Resp: 446

Ion Ratio Lower Upper

173 100

175 3867.0 24.4 73.2#

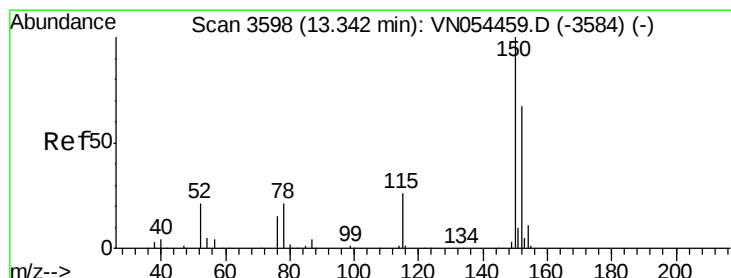
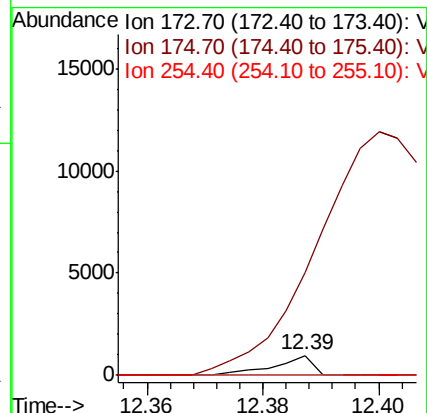
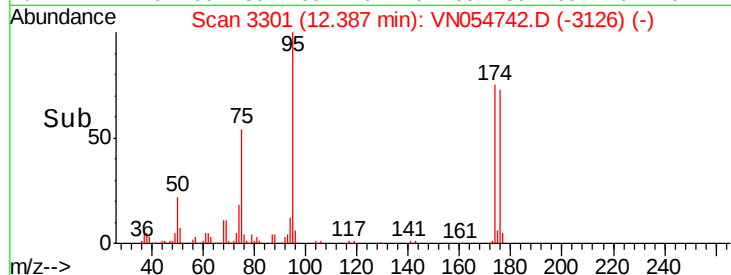
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054742.D

Acq: 28 Mar 2019 14:13

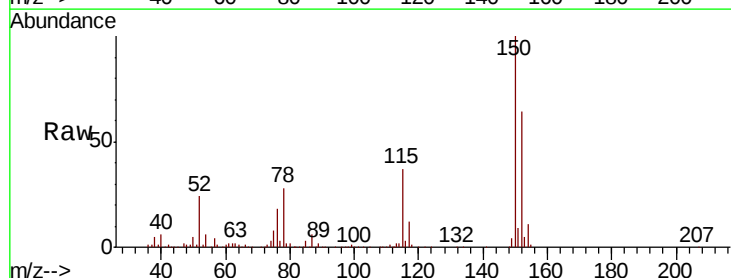
Tgt Ion:152 Resp: 275091

Ion Ratio Lower Upper

152 100

115 58.3 27.2 81.6

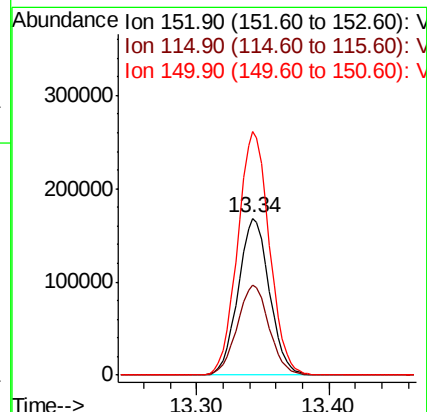
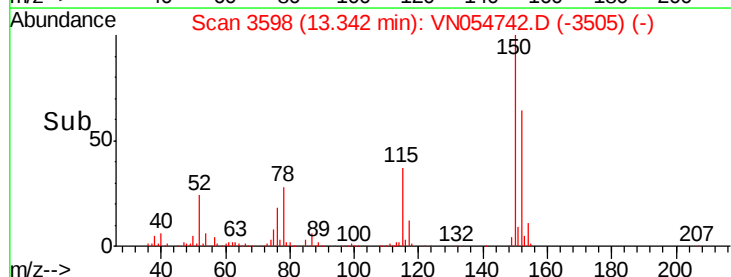
150 157.4 0.0 349.2

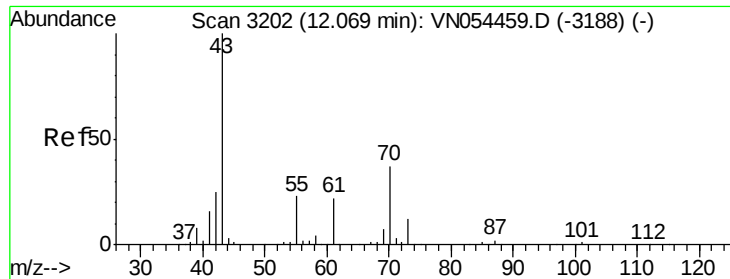


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

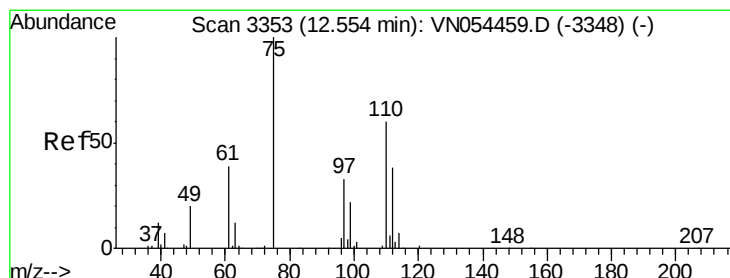
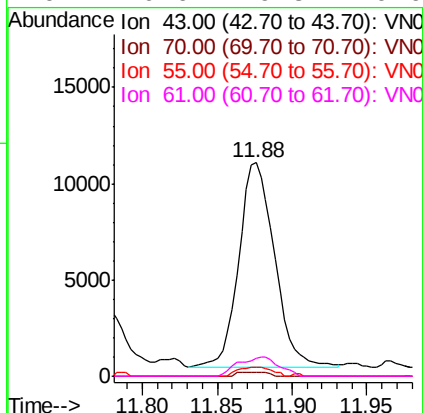
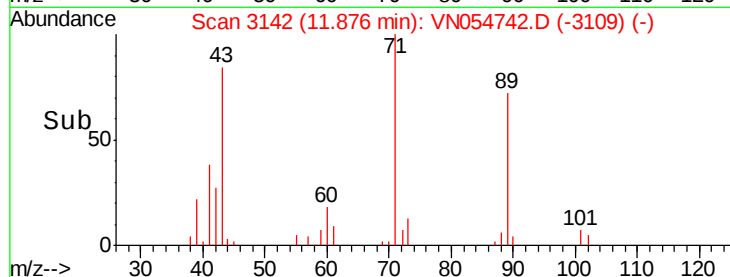
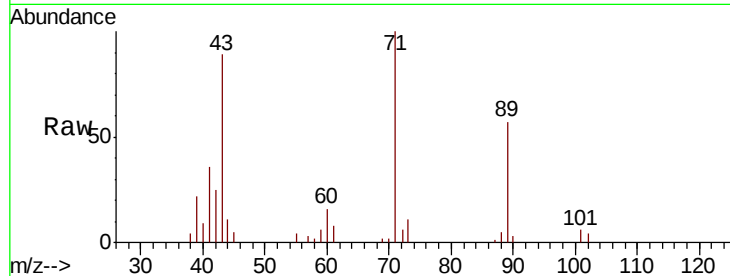




#74
N-amvl acetate
Concen: 2.800 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN054742.D
Acq: 28 Mar 2019 14:13

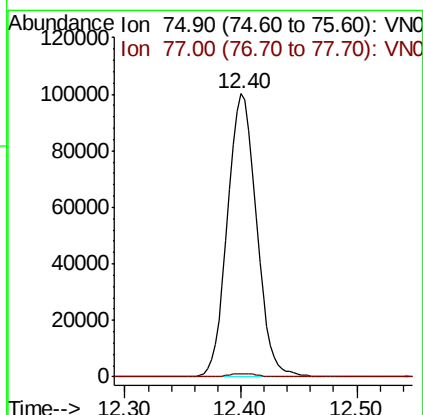
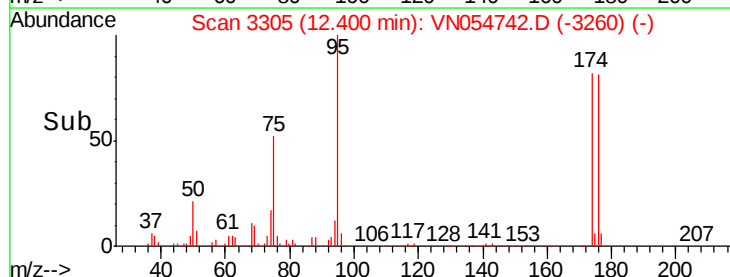
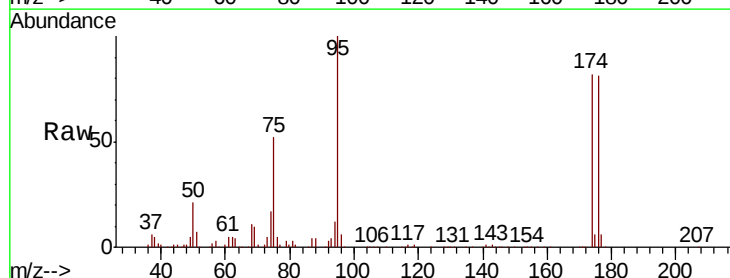
Instrument :
MSVOA_N
ClientSampleId :
TP-6

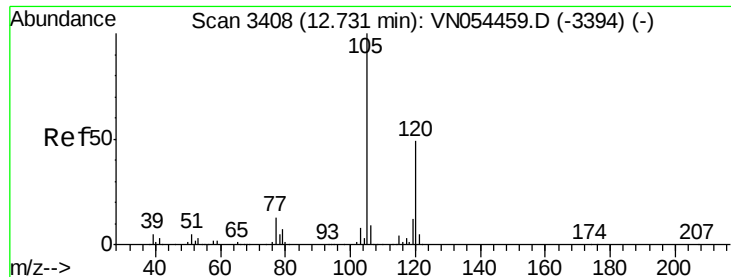
Tot Ion: 43 Resp: 17848
Ion Ratio Lower Upper
43 100
70 1.7 35.4 53.0#
55 4.1 19.8 29.6#
61 10.6 19.8 29.6#



#76
1,2,3-Trichloropropane
Concen: 39.666 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054742.D
Acq: 28 Mar 2019 14:13

Tgt Ion: 75 Resp: 173154
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

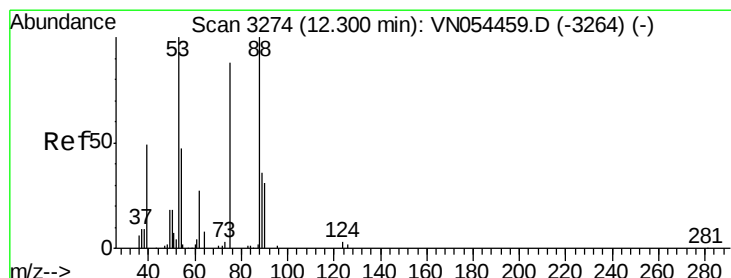
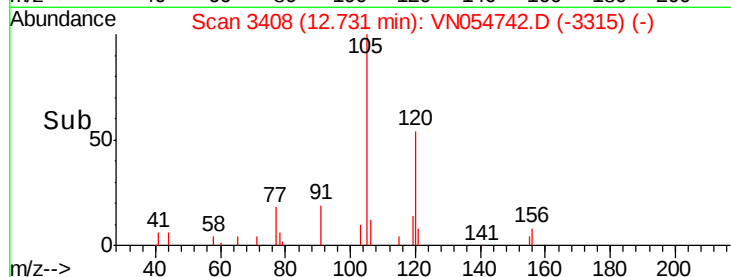
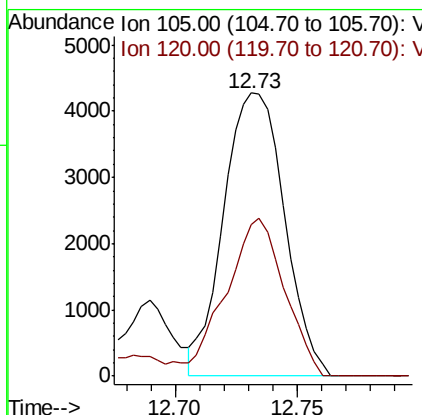
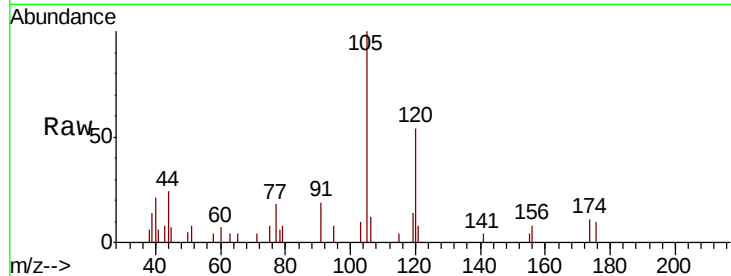




#80
 1,3,5-Trimethylbenzene
 Concen: 0.408 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

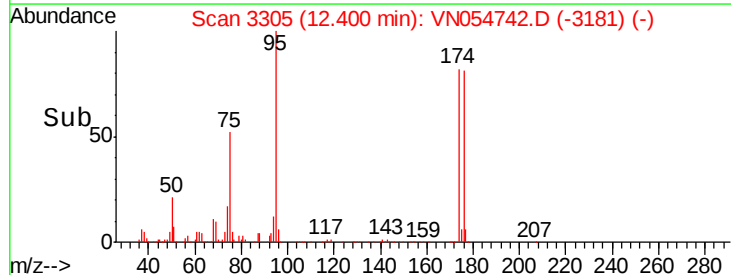
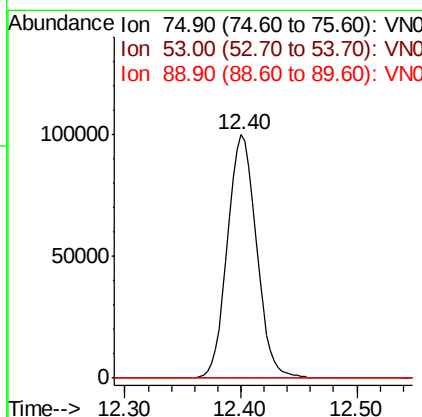
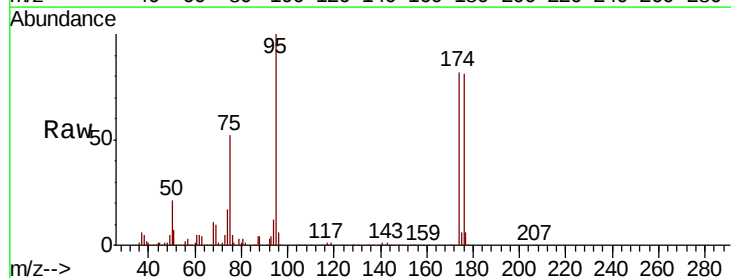
Instrument :
 MSVOA_N
 ClientSampled :
 TP-6

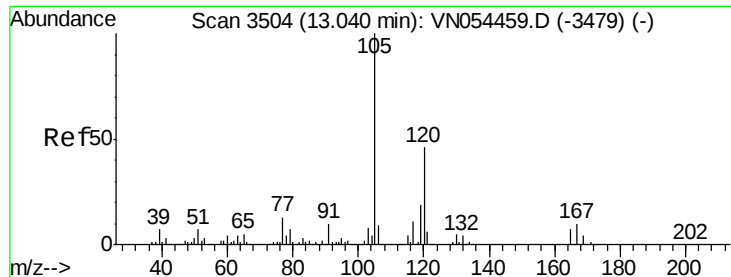
Tot Ion:105 Resp: 7413
 Ion Ratio Lower Upper
 105 100
 120 53.0 25.0 75.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 131.241 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054742.D
 Acq: 28 Mar 2019 14:13

Tgt Ion: 75 Resp: 173154
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.278 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN054742.D

Acq: 28 Mar 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

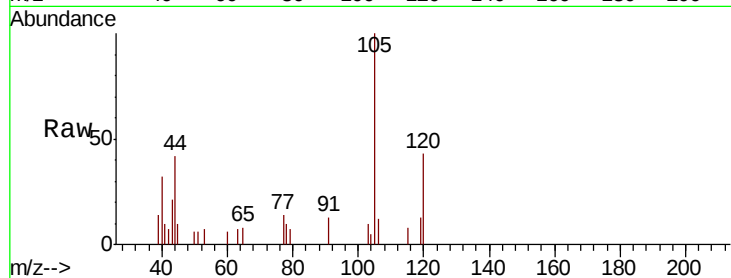
TP-6

Tot Ion:105 Resp: 4959

Ion Ratio Lower Upper

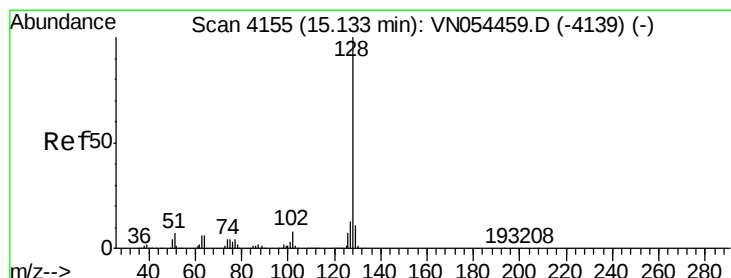
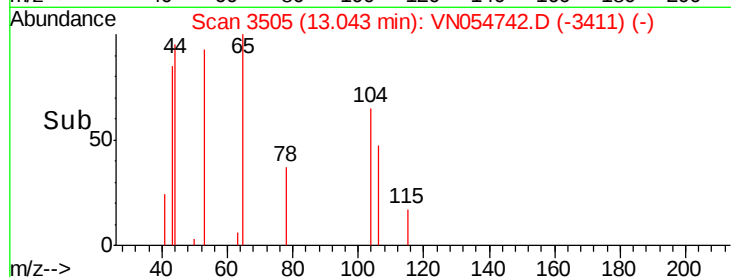
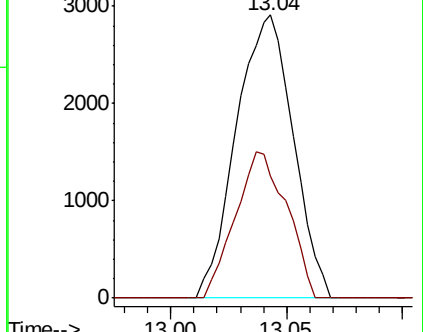
105 100

120 46.7 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 1.363 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054742.D

Acq: 28 Mar 2019 14:13

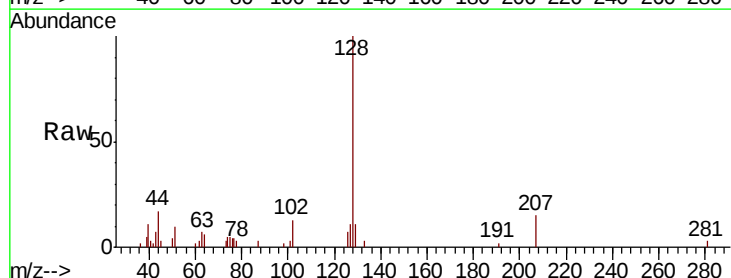
Tgt Ion:128 Resp: 13373

Ion Ratio Lower Upper

128 100

127 12.0 10.1 15.1

129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

