

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\
 Data File : VN052753.D
 Acq On : 10 Dec 2018 15:10
 Operator : MD\SY
 Sample : PB115448ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115448ZHE#02

Quant Time: Dec 11 01:22:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

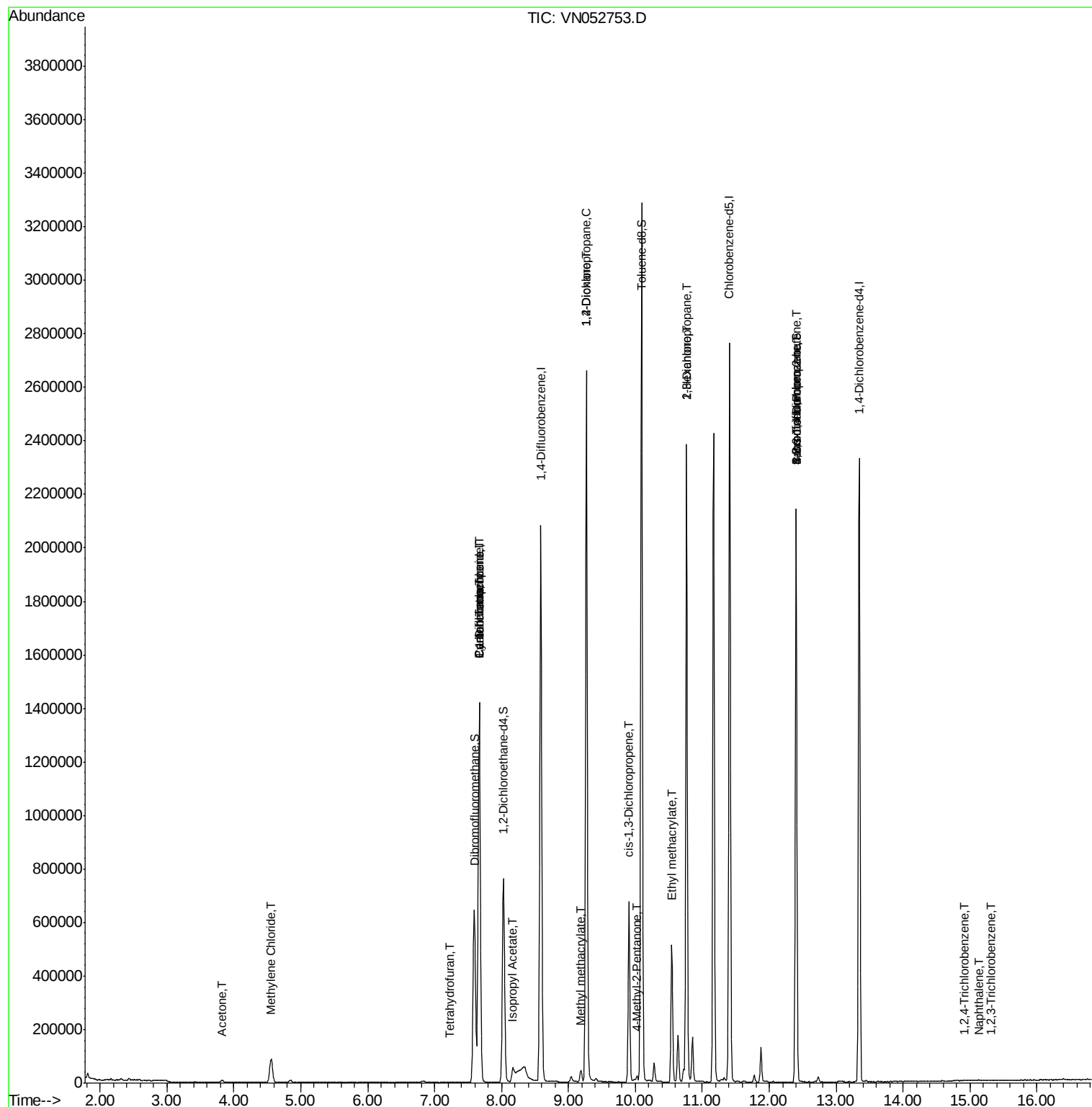
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1239051	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1899503	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1663653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	665507	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	639415	47.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.80%	
35) Dibromofluoromethane	7.59	113	503369	42.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.96%	
50) Toluene-d8	10.09	98	2333983	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	
62) 4-Bromofluorobenzene	12.40	95	744433	48.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.20%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	16625	4.672	ug/l	91
20) Methylene Chloride	4.55	84	68619	4.928	ug/l	98
29) Tetrahydrofuran	7.22	42	1161	0.357	ug/l #	66
31) Cyclohexane	7.66	56	21456	0.563	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	84731	4.724	ug/l #	49
38) Carbon Tetrachloride	7.67	117	108557	6.685	ug/l #	16
43) Isopropyl Acetate	8.17	43	78212	4.222	ug/l #	73
45) 1,2-Dichloropropane	9.27	63	3313	0.233	ug/l #	43
48) Methyl methacrylate	9.18	41	15757	1.631	ug/l #	13
49) 1,4-Dioxane	9.27	88	412	4.110	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	17662	1.699	ug/l #	36
54) cis-1,3-Dichloropropene	9.91	75	125903	6.384	ug/l #	59
56) Ethyl methacrylate	10.55	69	1658	2.794	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	24013	1.217	ug/l #	43
59) 2-Hexanone	10.76	43	341211	48.911	ug/l #	51
71) Bromoform	12.40	173	4406	0.558	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	352967	34.394	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	352967	114.859	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	744	2.889	ug/l	89
95) Naphthalene	15.13	128	1748	3.493	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.32	180	565	2.776	ug/l #	82

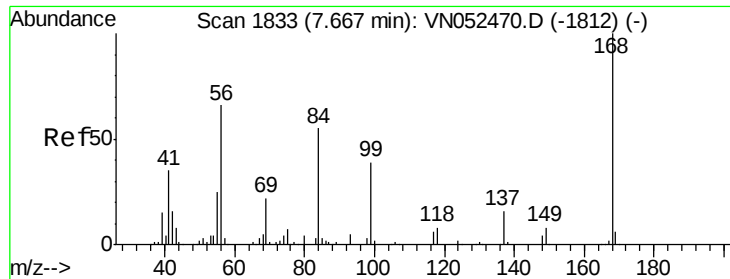
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
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: VN052753.D

Acq: 10 Dec 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

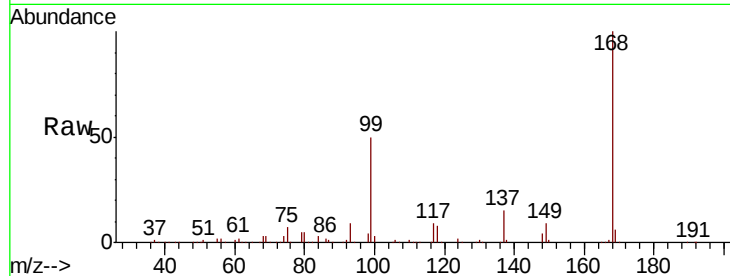
PB115448ZHE#02

Tot Ion:168 Resp: 1239051

Ion Ratio Lower Upper

168 100

99 50.3 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

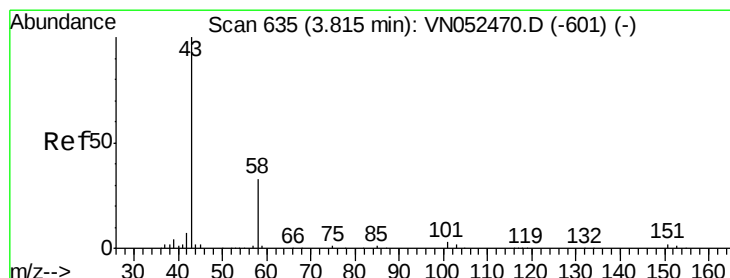
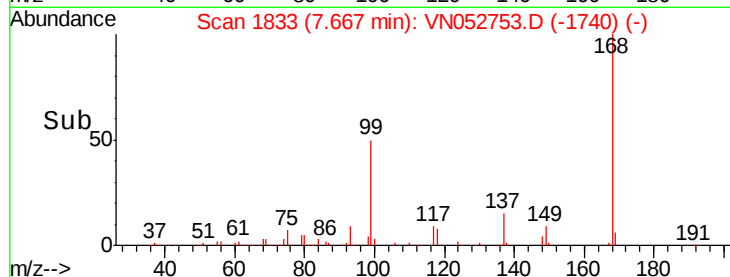
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 4.672 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052753.D

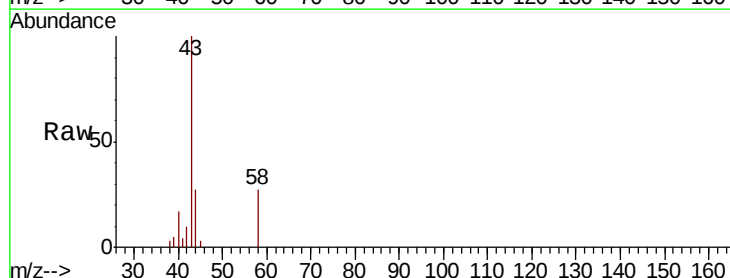
Acq: 10 Dec 2018 15:10

Tgt Ion: 43 Resp: 16625

Ion Ratio Lower Upper

43 100

58 27.3 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

6000

5000

4000

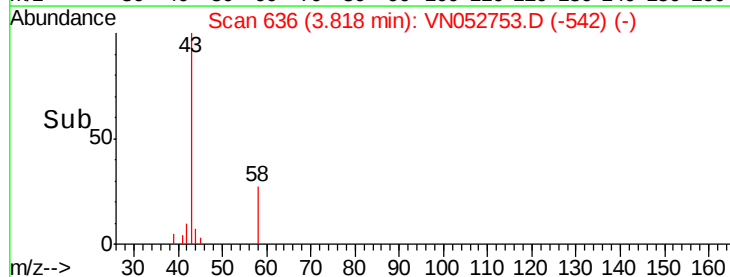
3000

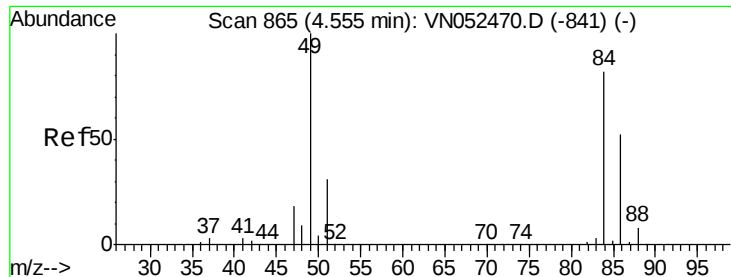
2000

1000

0

Time--> 3.70 3.80 3.90

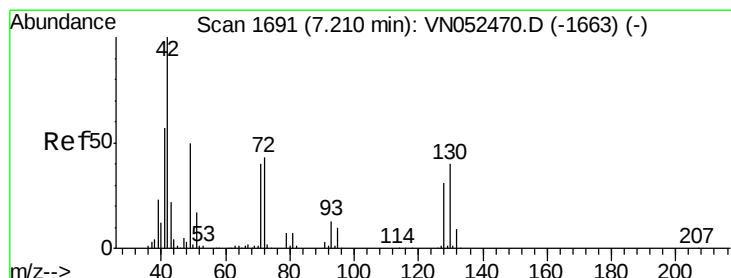
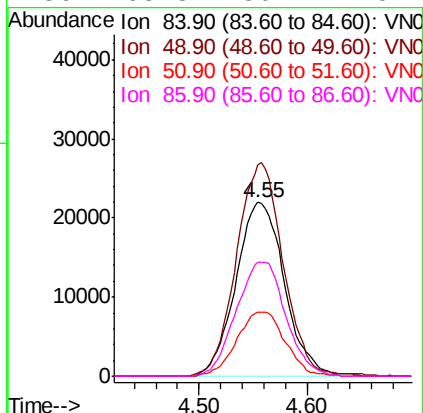
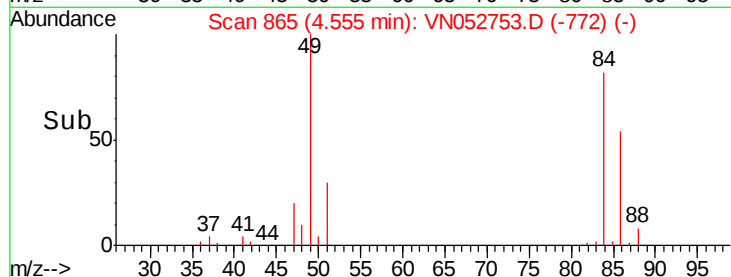
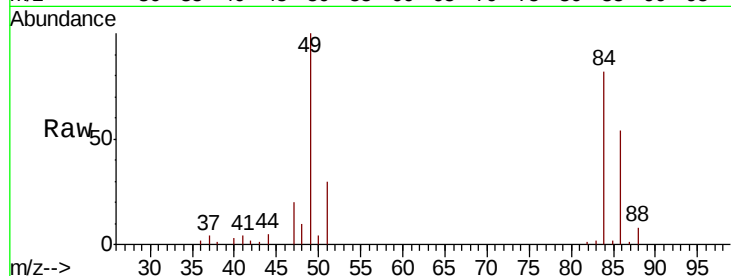




#20
Methvlene Chloride
Concen: 4.928 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052753.D
Acq: 10 Dec 2018 15:10

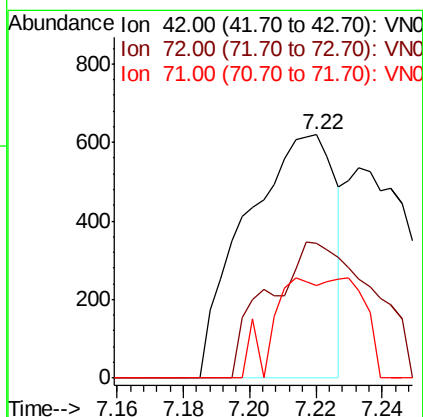
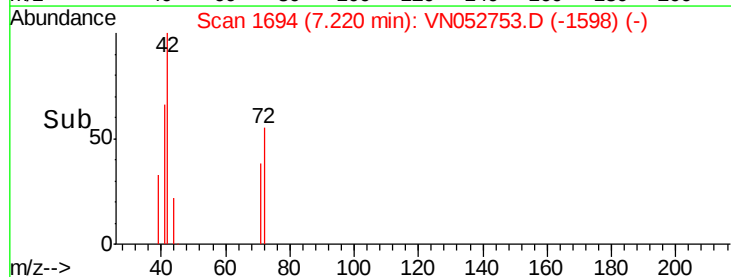
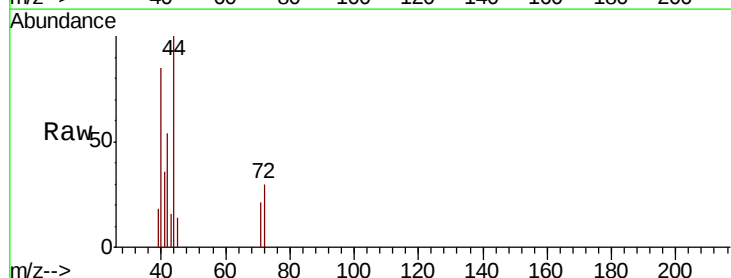
Instrument :
MSVOA_N
ClientSampleId :
PB115448ZHE#02

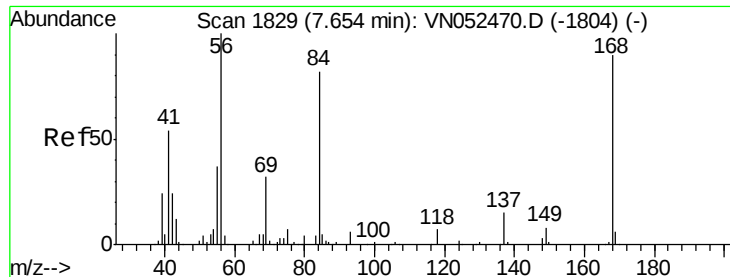
Tot Ion:	84	Resp:	68619
Ion	Ratio	Lower	Upper
84	100		
49	121.3	98.0	147.0
51	36.8	30.1	45.1
86	65.8	50.7	76.1



#29
Tetrahydrofuran
Concen: 0.357 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052753.D
Acq: 10 Dec 2018 15:10

Tgt Ion:	42	Resp:	1161
Ion	Ratio	Lower	Upper
42	100		
72	64.9	33.3	49.9#
71	21.2	32.0	48.0#

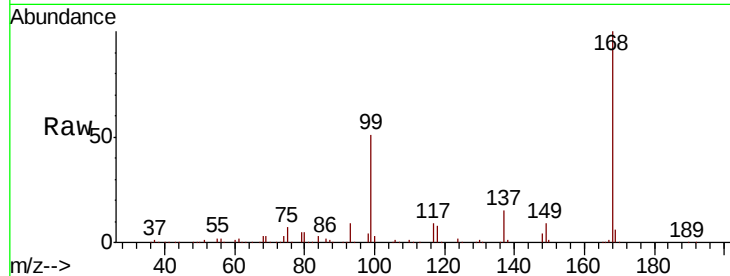




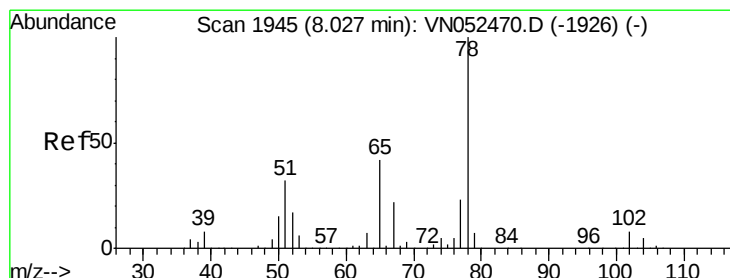
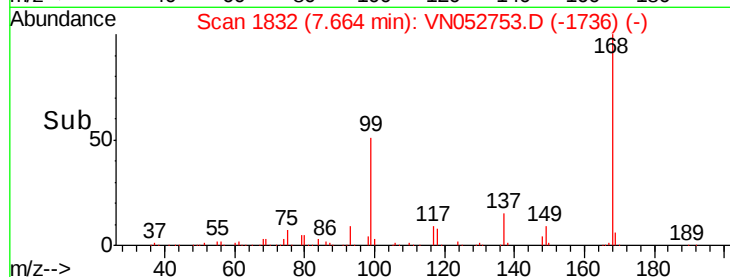
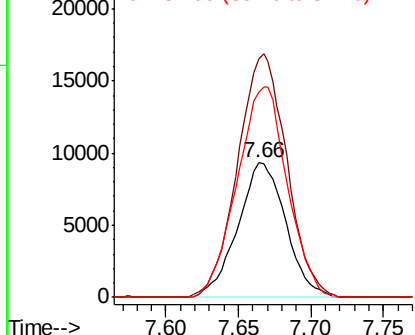
#31
Cyclohexane
Concen: 0.563 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052753.D
Acq: 10 Dec 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
PB115448ZHE#02

Tot Ion: 56 Resp: 21456
Ion Ratio Lower Upper
56 100
69 177.2 25.8 38.6#
84 153.0 65.3 97.9#

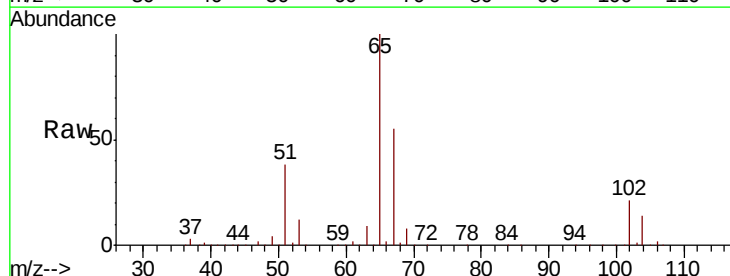


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

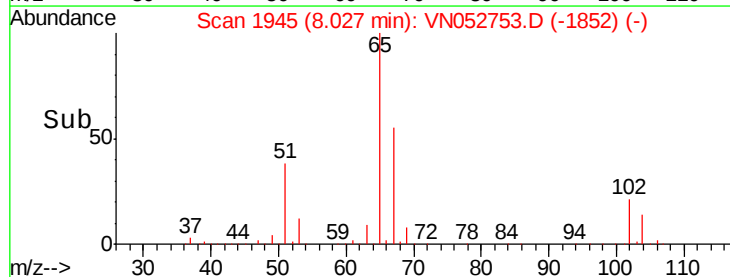
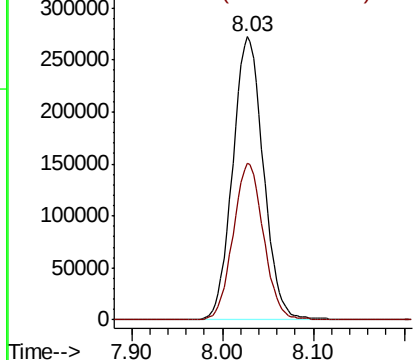


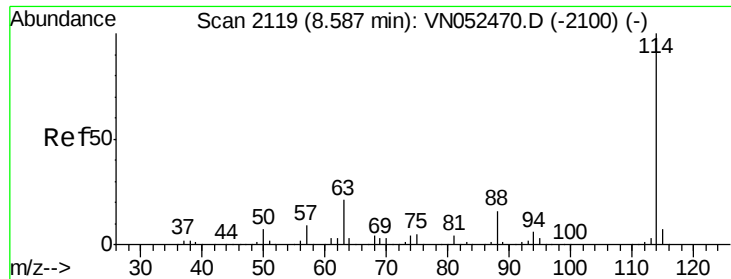
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052753.D
Acq: 10 Dec 2018 15:10

Tgt Ion: 65 Resp: 639415
Ion Ratio Lower Upper
65 100
67 54.7 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

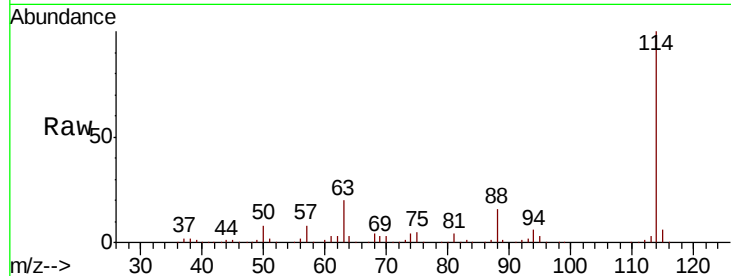




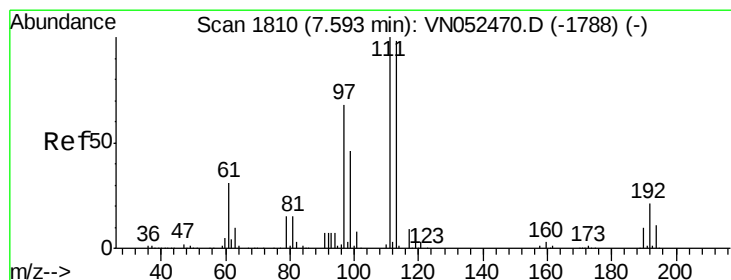
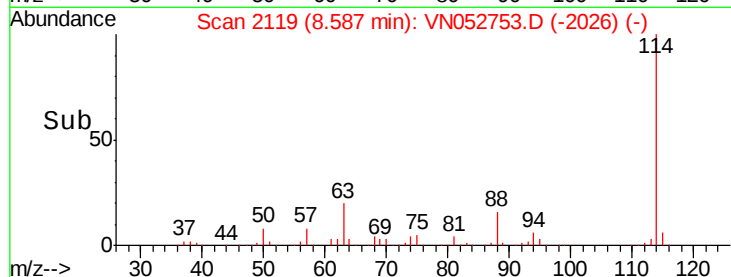
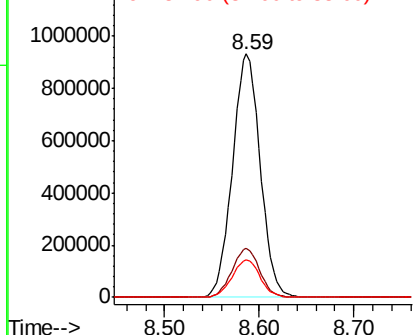
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN052753.D
Acq: 10 Dec 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
PB115448ZHE#02

Tot Ion:114 Resp: 1899503
Ion Ratio Lower Upper
114 100
63 20.0 0.0 41.8
88 15.5 0.0 31.6

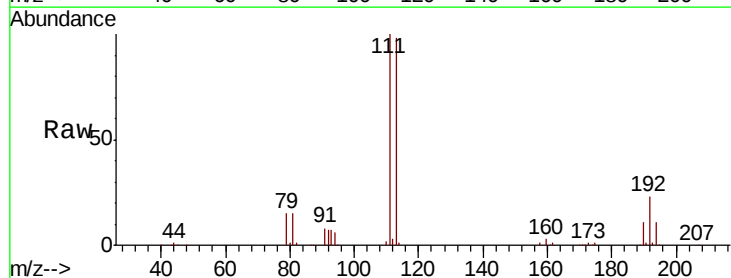


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

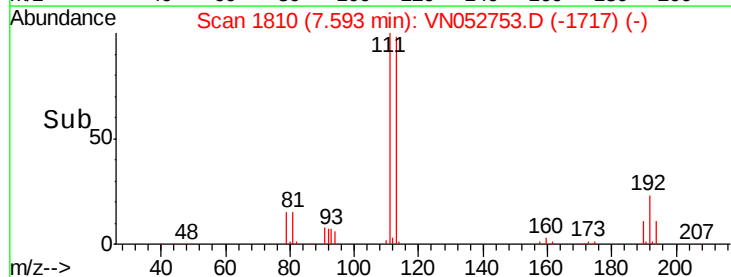
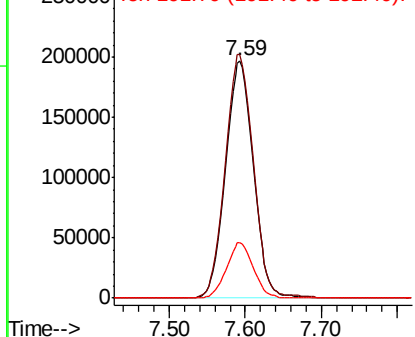


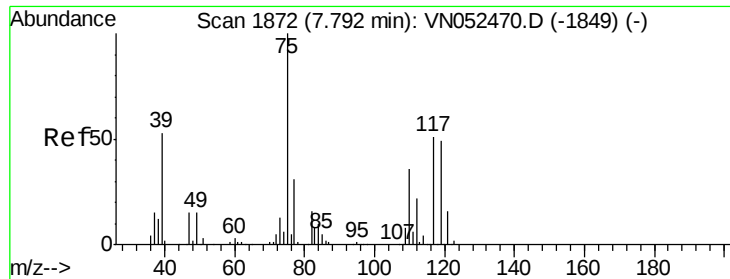
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052753.D
Acq: 10 Dec 2018 15:10

Tgt Ion:113 Resp: 503369
Ion Ratio Lower Upper
113 100
111 102.5 82.0 123.0
192 22.6 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

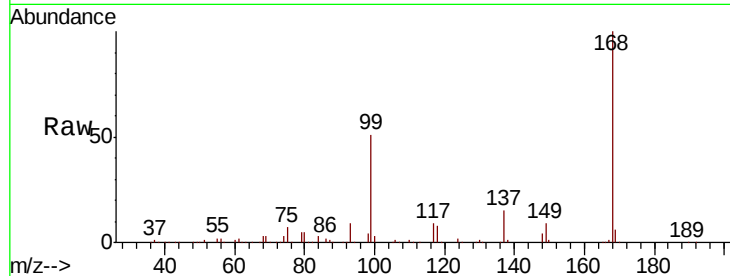




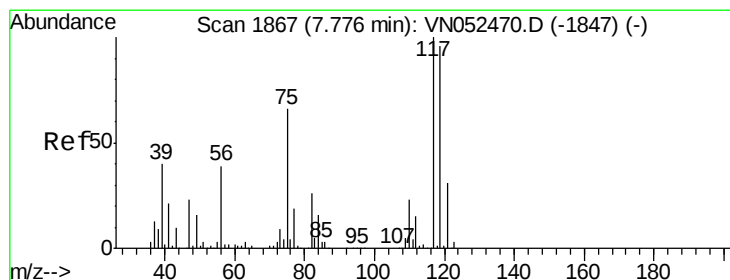
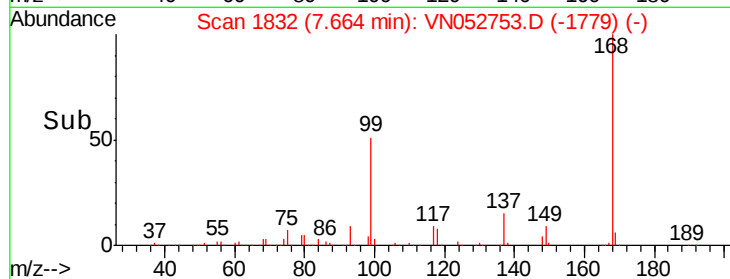
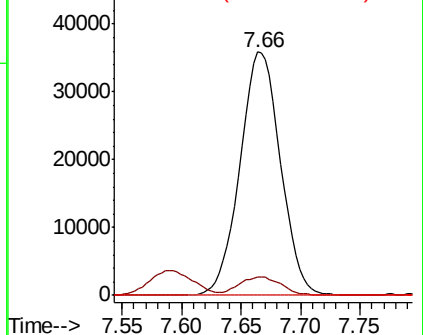
#36
 1,1-Dichloropropene
 Concen: 4.724 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052753.D
 Acq: 10 Dec 2018 15:10

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115448ZHE#02

Tot Ion	75	Resp	84731
Ion Ratio	Lower	Upper	
75	100		
110	7.9	17.5	52.6#
77	0.0	24.5	36.7#

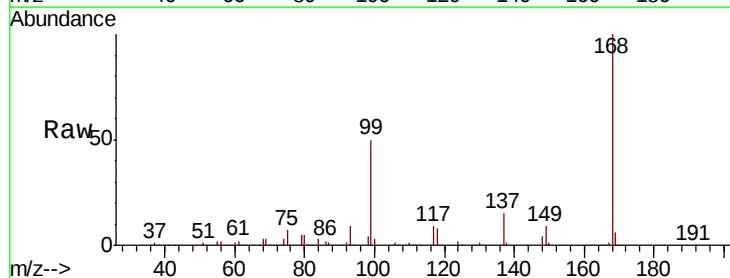


Abundance Ion 74.90 (74.60 to 75.60): VN052470.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN052470.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN052470.D (-1849) (-)

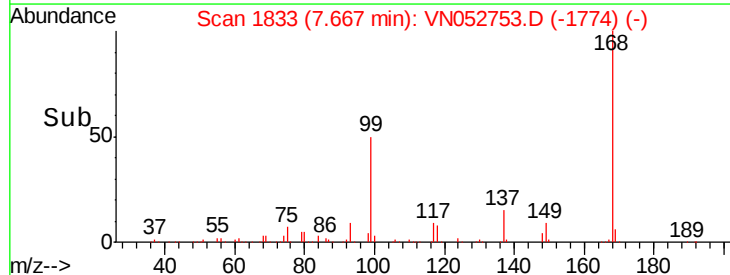
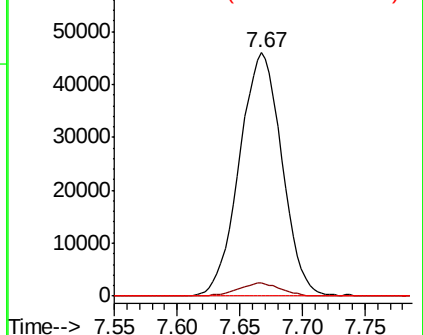


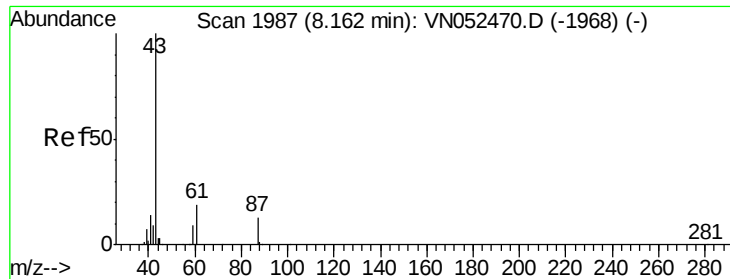
#38
 Carbon Tetrachloride
 Concen: 6.685 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052753.D
 Acq: 10 Dec 2018 15:10

Tgt Ion	117	Resp	108557
Ion Ratio	Lower	Upper	
117	100		
119	5.3	76.8	115.2#
121	0.0	24.9	37.3#



Abundance Ion 116.80 (116.50 to 117.50): VN052470.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN052470.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN052470.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 4.222 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052753.D

Acq: 10 Dec 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#02

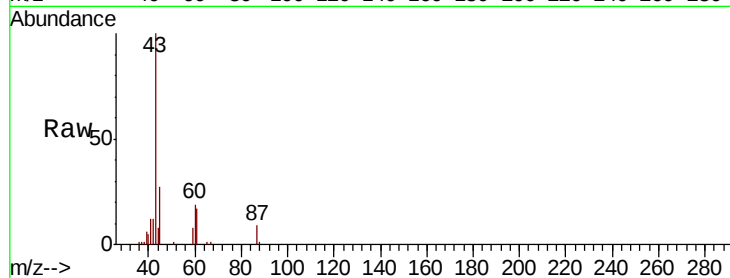
Tot Ion: 43 Resp: 78212

Ion Ratio Lower Upper

43 100

61 12.4 24.1 36.1#

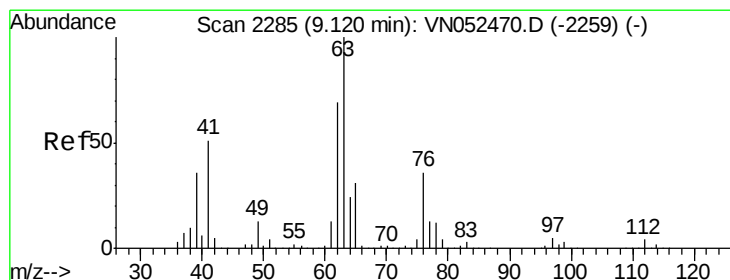
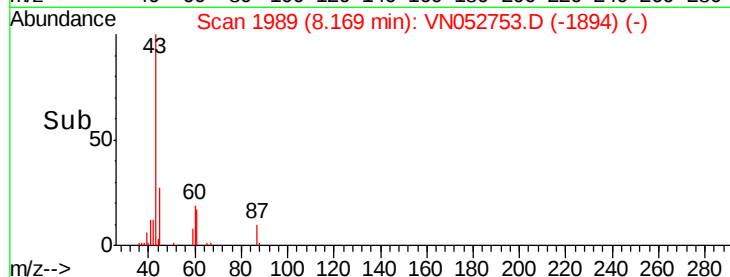
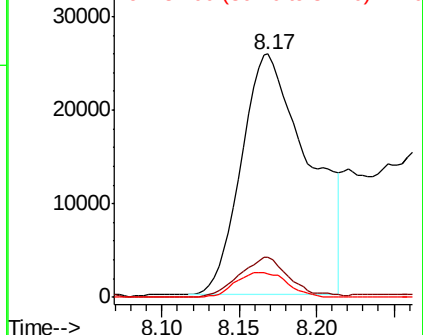
87 7.9 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.233 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052753.D

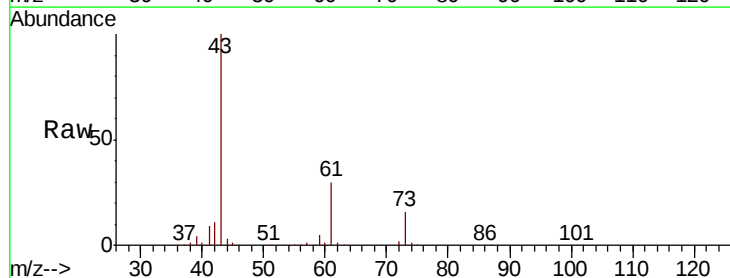
Acq: 10 Dec 2018 15:10

Tgt Ion: 63 Resp: 3313

Ion Ratio Lower Upper

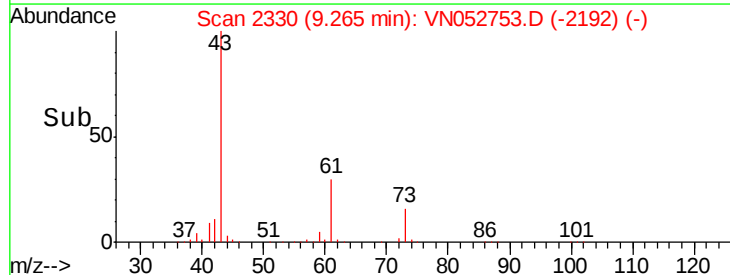
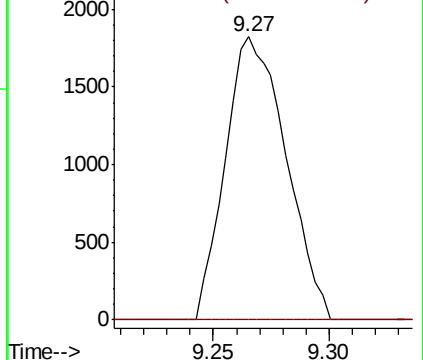
63 100

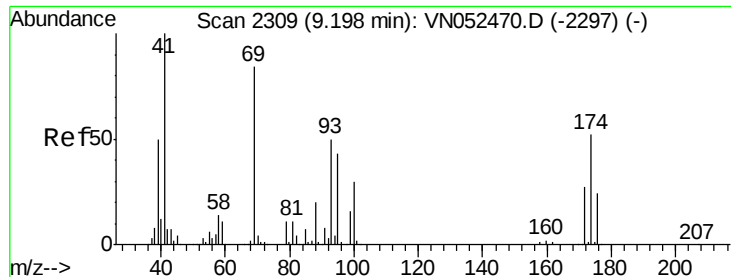
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

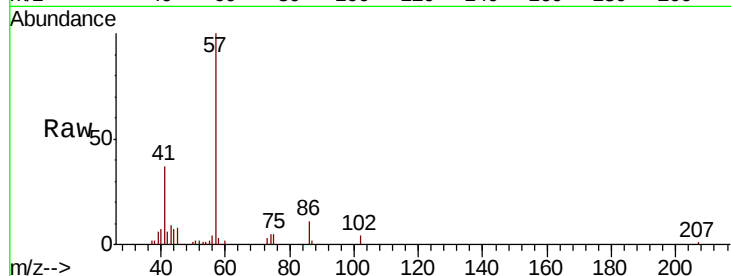




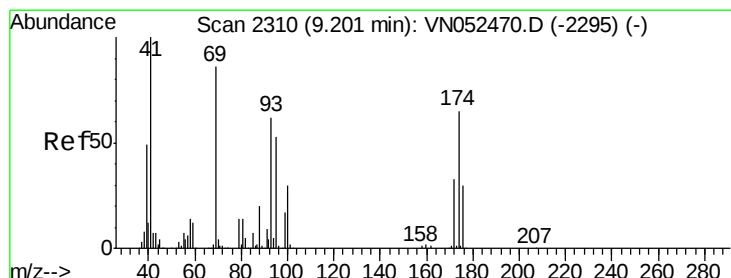
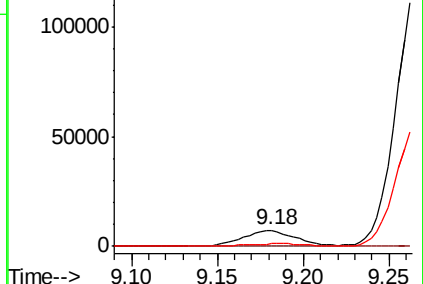
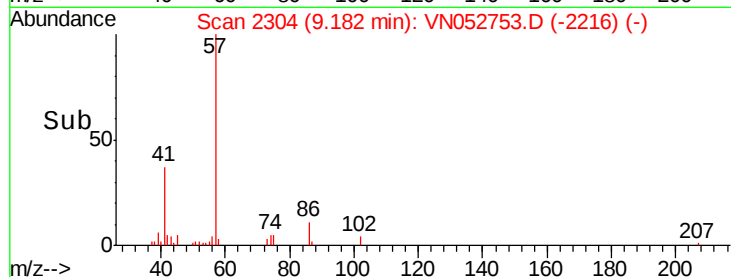
#48
Methyl methacrylate
Concen: 1.631 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052753.D
Acq: 10 Dec 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
PB115448ZHE#02

Tot Ion: 41 Resp: 15757
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 0.0 42.6 64.0#

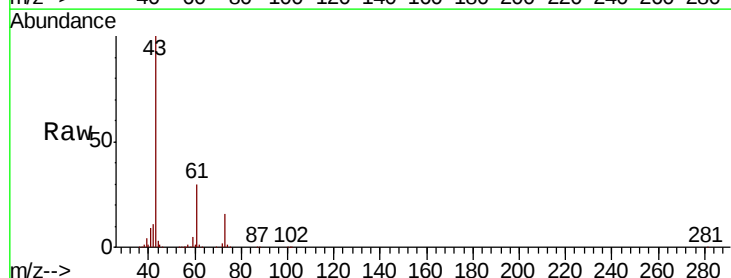


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

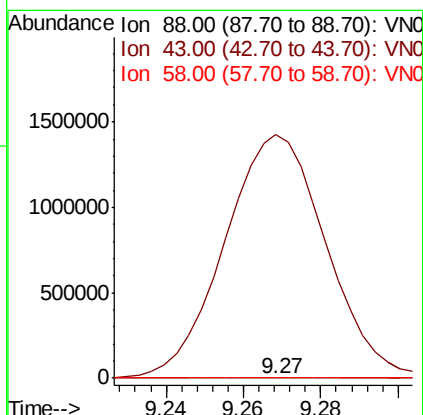
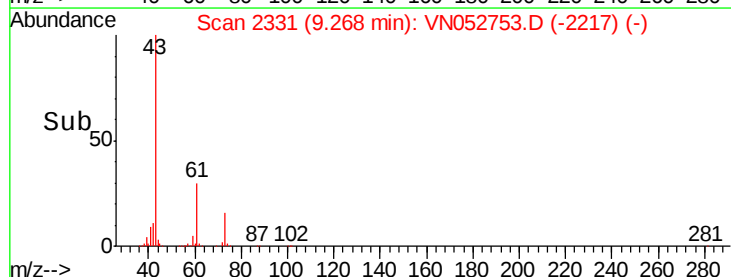


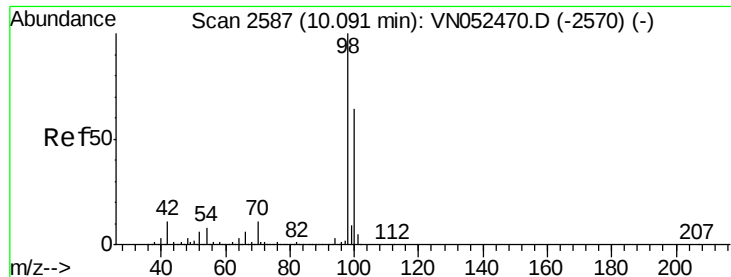
#49
1,4-Dioxane
Concen: 4.110 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN052753.D
Acq: 10 Dec 2018 15:10

Tgt Ion: 88 Resp: 412
Ion Ratio Lower Upper
88 100
43 634294.2 26.4 39.6#
58 2804.9 55.4 83.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 4.110 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052753.D

Acq: 10 Dec 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

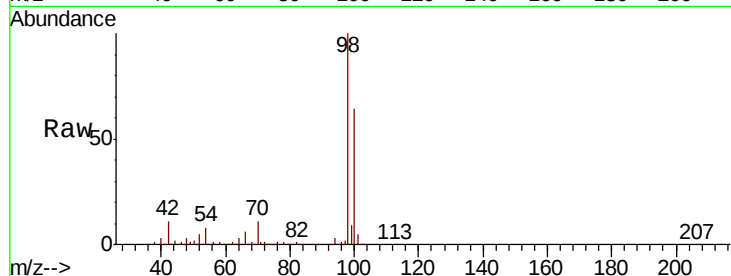
PB115448ZHE#02

Tot Ion: 98 Resp: 2333983

Ion Ratio Lower Upper

98 100

100 63.9 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN052470.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052470.D (-2570) (-)

10.09

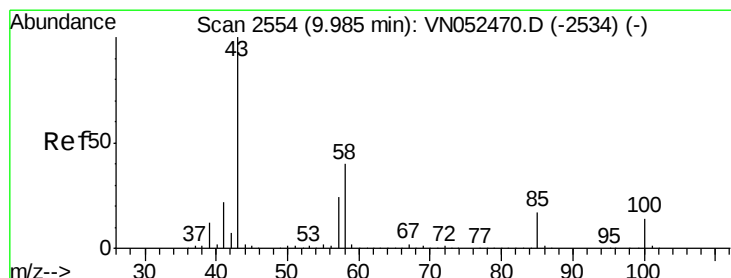
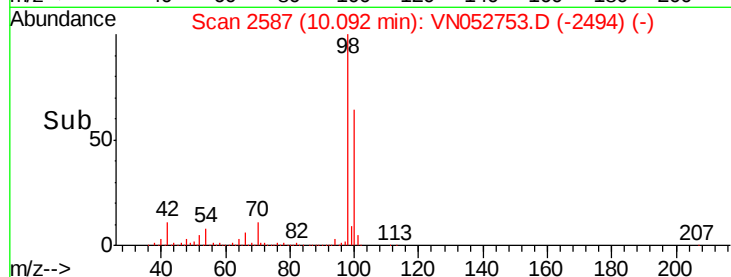
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.699 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052753.D

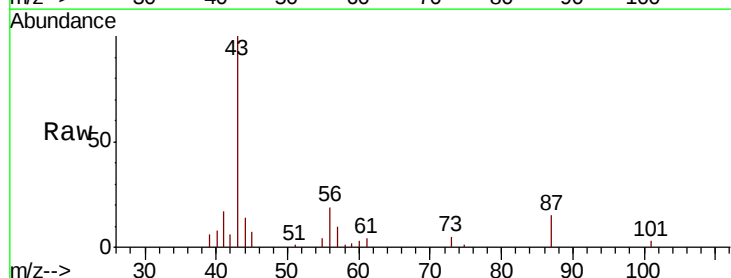
Acq: 10 Dec 2018 15:10

Tgt Ion: 43 Resp: 17662

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN052470.D (-2534) (-)

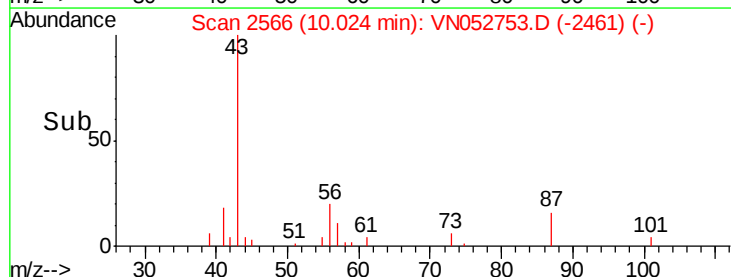
10.02

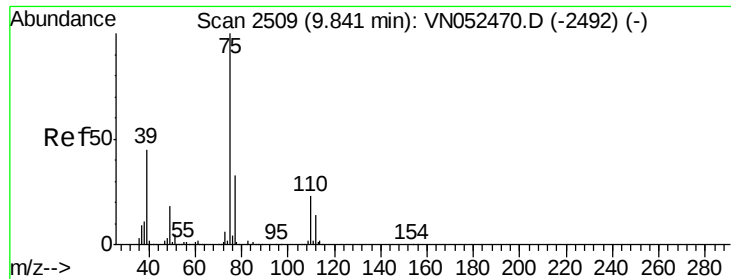
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.384 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052753.D

Acq: 10 Dec 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#02

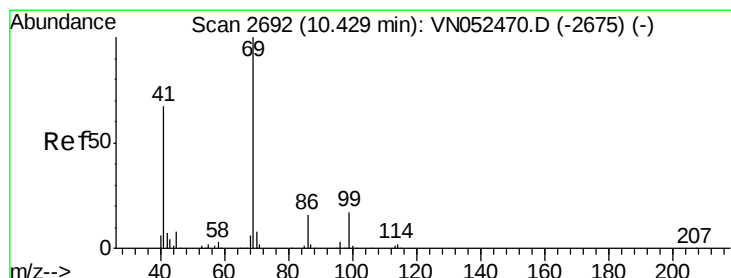
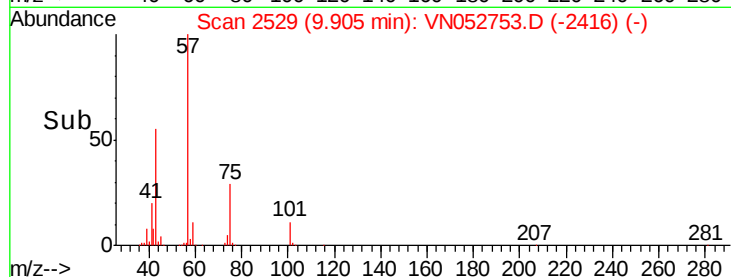
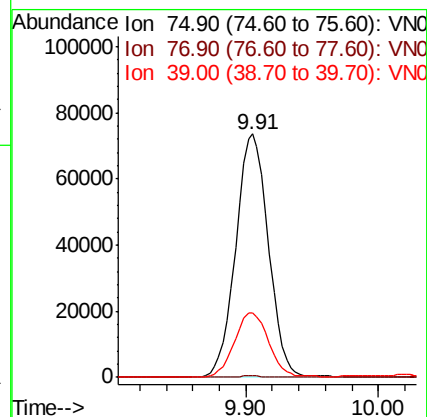
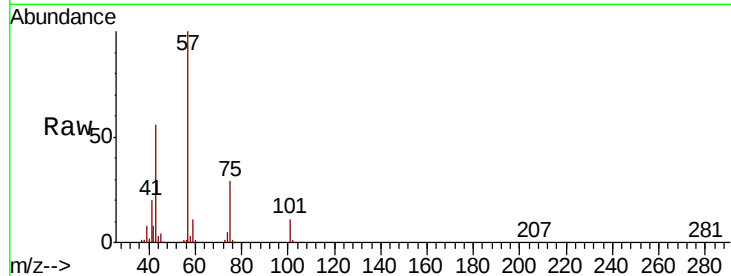
Tot Ion: 75 Resp: 125903

Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

39 26.1 36.0 54.0#



#56

Ethyl methacrylate

Concen: 2.794 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN052753.D

Acq: 10 Dec 2018 15:10

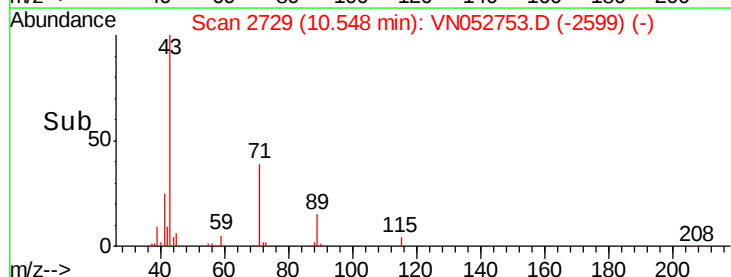
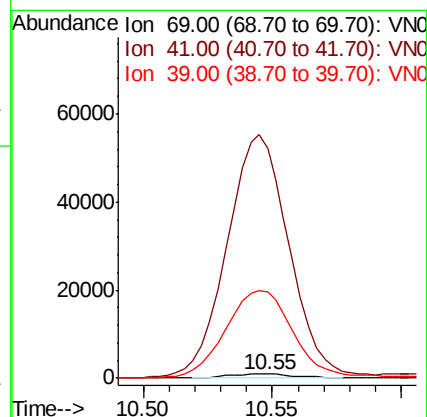
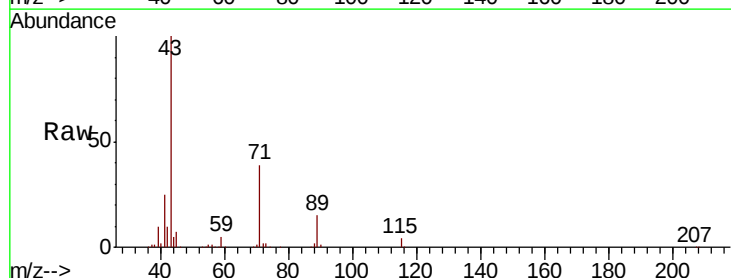
Tgt Ion: 69 Resp: 1658

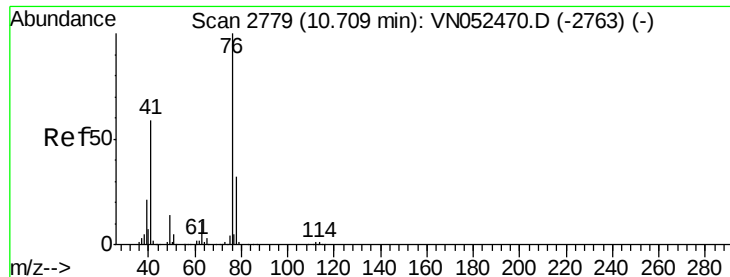
Ion Ratio Lower Upper

69 100

41 5625.5 52.6 79.0#

39 2195.7 25.9 38.9#

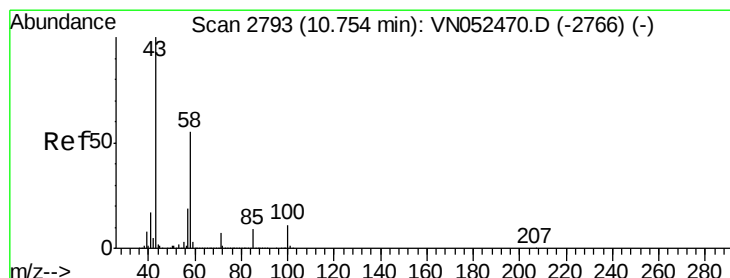
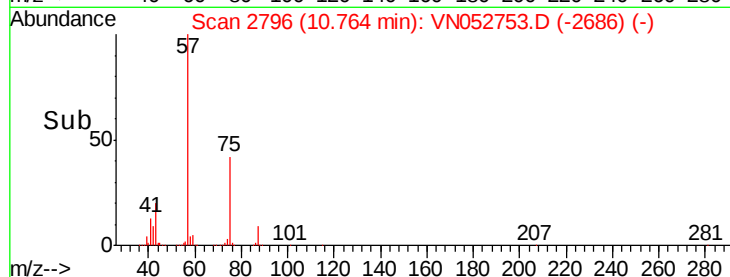
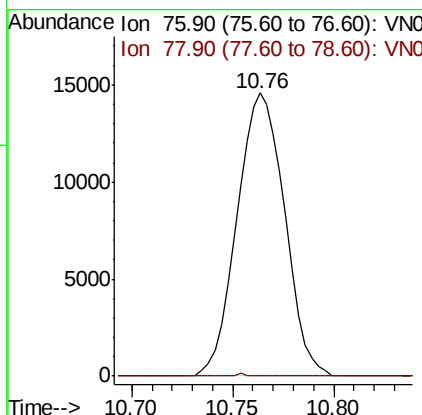
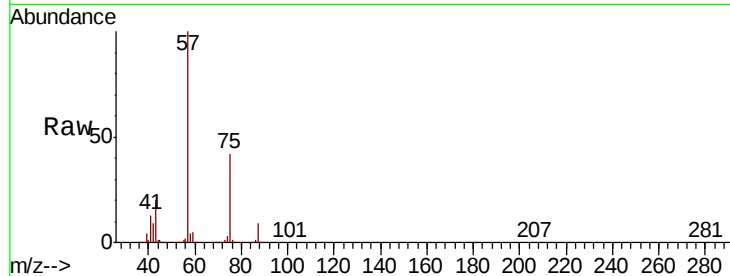




#57
 1,3-Dichloropropane
 Concen: 1.217 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN052753.D
 Acq: 10 Dec 2018 15:10

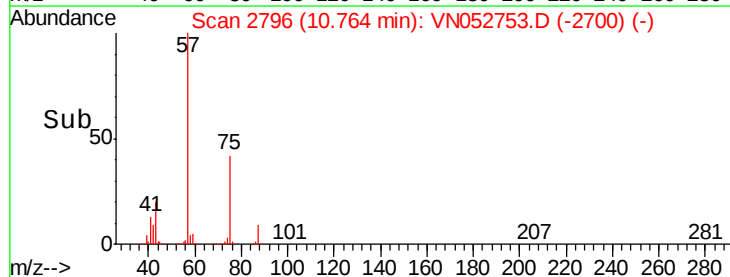
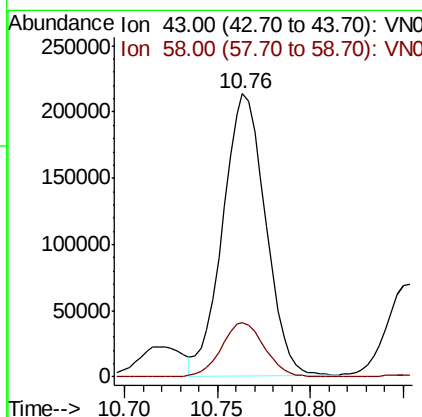
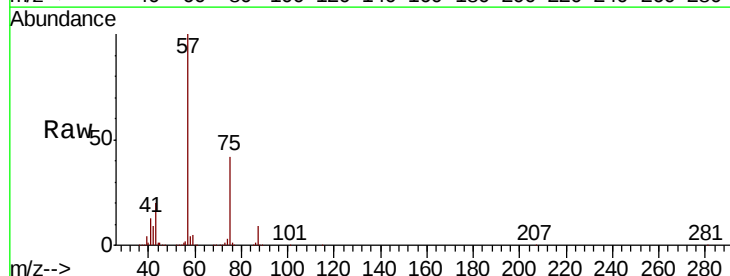
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115448ZHE#02

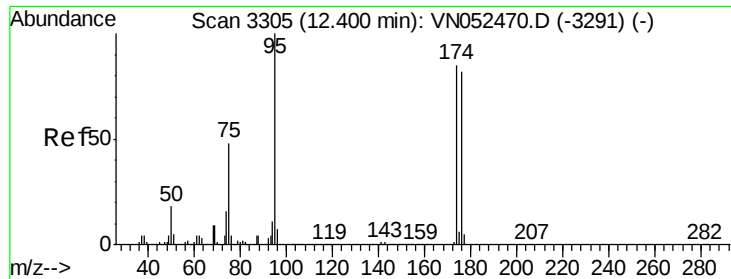
Tot Ion: 76 Resp: 24013
 Ion Ratio Lower Upper
 76 100
 78 0.1 25.6 38.4#



#59
 2-Hexanone
 Concen: 48.911 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052753.D
 Acq: 10 Dec 2018 15:10

Tgt Ion: 43 Resp: 341211
 Ion Ratio Lower Upper
 43 100
 58 19.3 27.4 82.0#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052753.D

Acq: 10 Dec 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#02

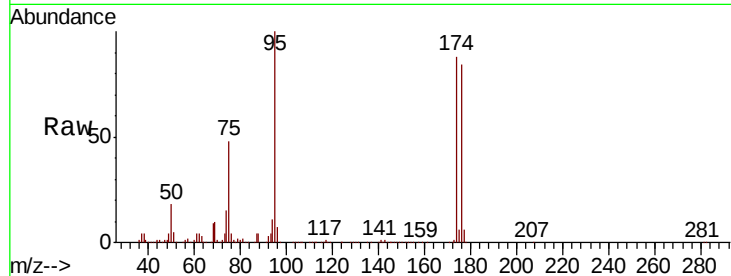
Tot Ion: 95 Resp: 744433

Ion Ratio Lower Upper

95 100

174 88.8 0.0 173.0

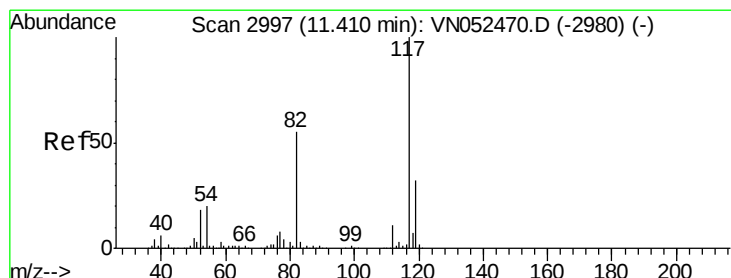
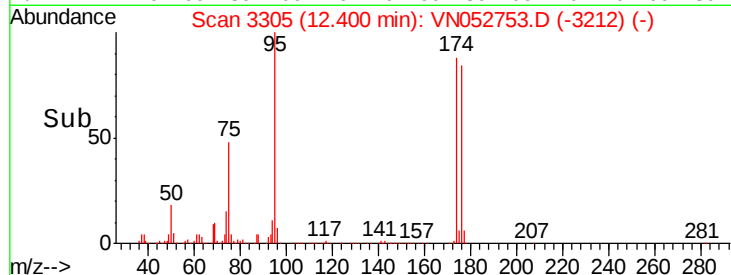
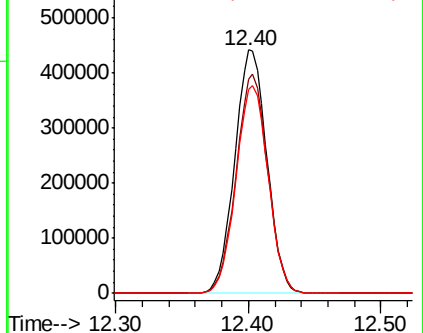
176 85.3 0.0 166.2



Abundance Ion 94.90 (94.60 to 95.60): VN052753.D (-2904) (-)

Ion 173.80 (173.50 to 174.50): VN052753.D (-2904) (-)

Ion 175.80 (175.50 to 176.50): VN052753.D (-2904) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052753.D

Acq: 10 Dec 2018 15:10

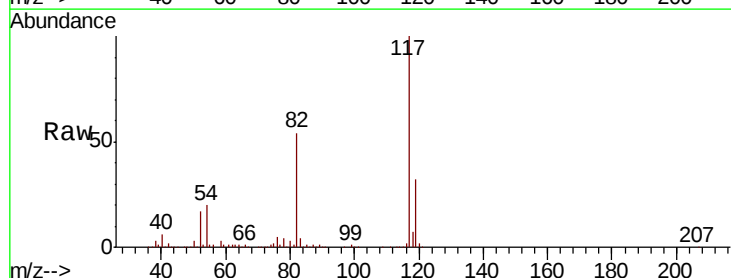
Tgt Ion: 117 Resp: 1663653

Ion Ratio Lower Upper

117 100

82 54.1 43.6 65.4

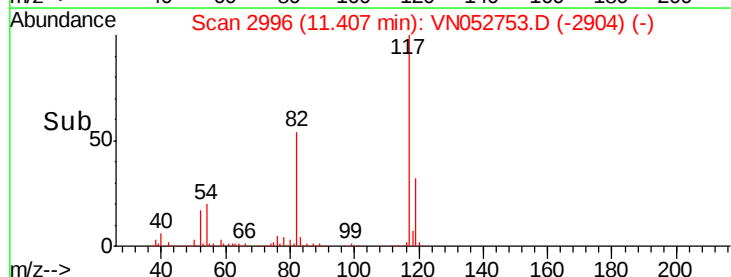
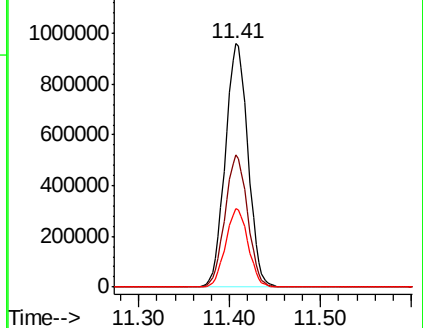
119 32.2 25.4 38.2

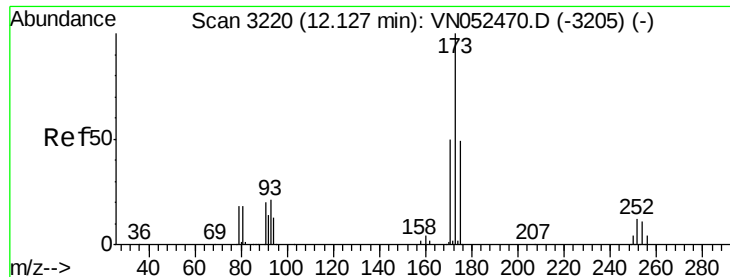


Abundance Ion 116.90 (116.60 to 117.60): VN052753.D (-2904) (-)

Ion 82.00 (81.70 to 82.70): VN052753.D (-2904) (-)

Ion 118.90 (118.60 to 119.60): VN052753.D (-2904) (-)





#71

Bromoform

Concen: 0.558 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052753.D

Acq: 10 Dec 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#02

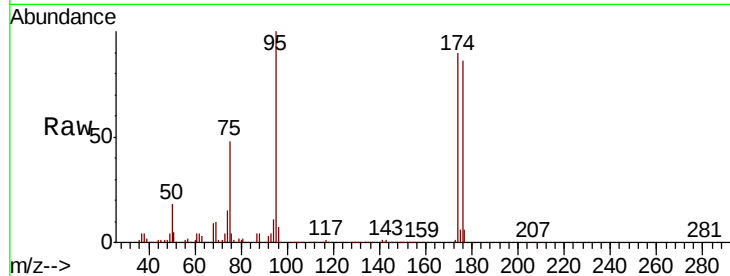
Tot Ion:173 Resp: 4406

Ion Ratio Lower Upper

173 100

175 940.7 24.4 73.2#

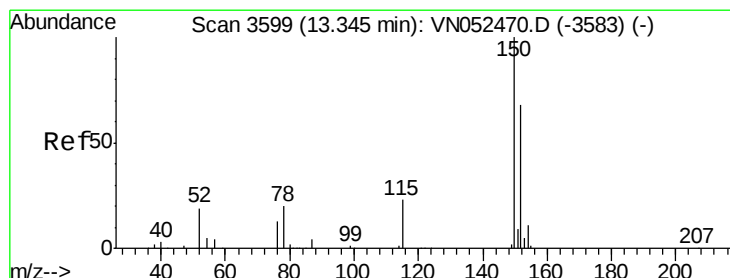
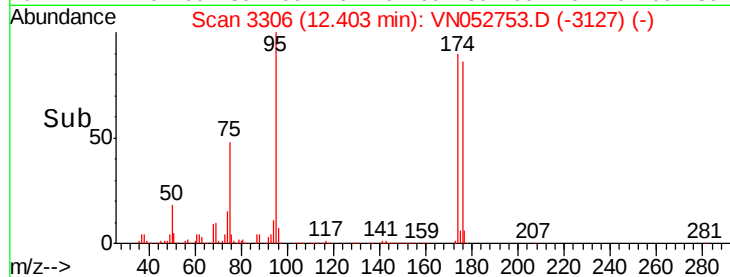
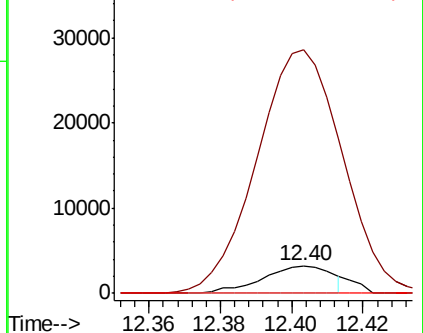
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052753.D

Acq: 10 Dec 2018 15:10

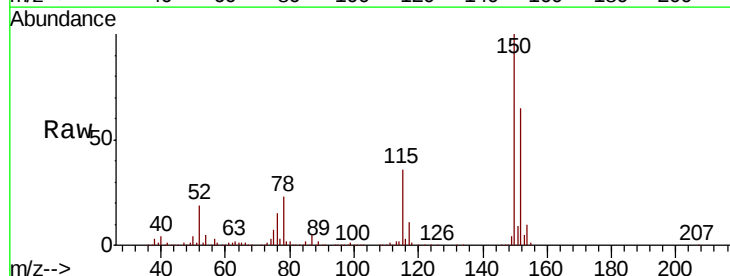
Tgt Ion:152 Resp: 665507

Ion Ratio Lower Upper

152 100

115 56.8 28.4 85.2

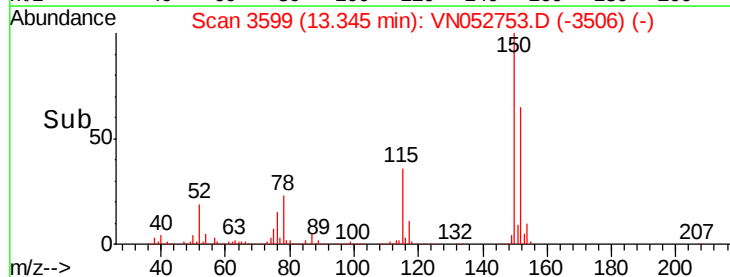
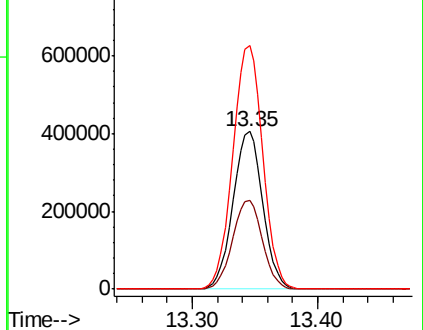
150 156.5 0.0 346.0

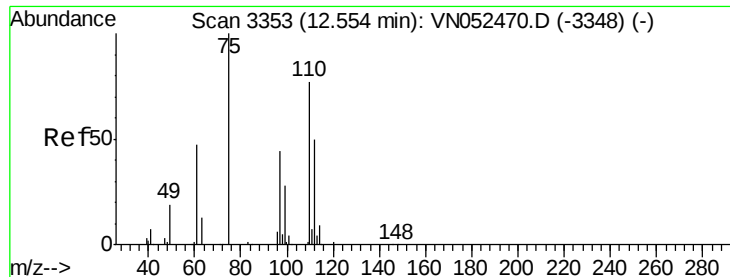


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

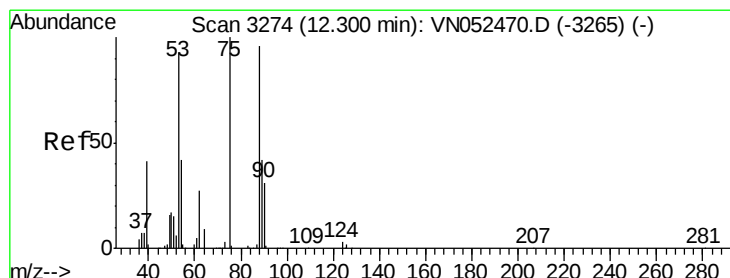
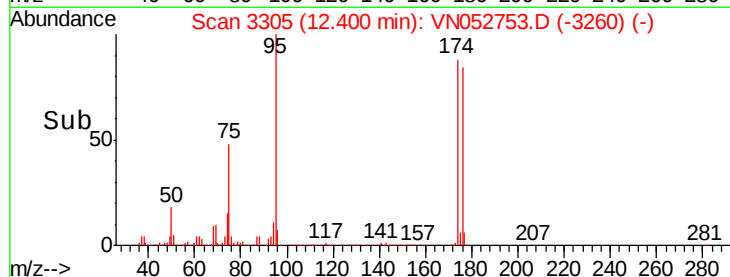
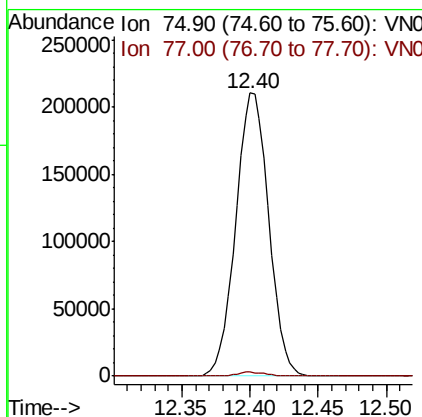
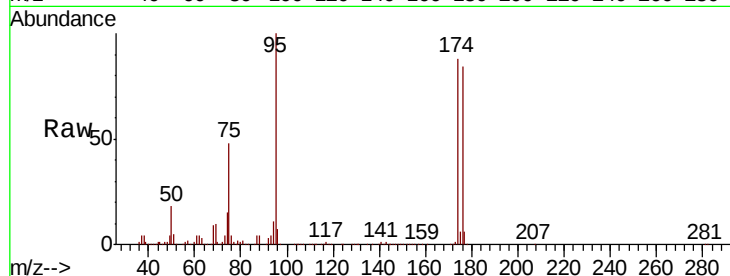




#76
 1,2,3-Trichloropropane
 Concen: 34.394 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052753.D
 Acq: 10 Dec 2018 15:10

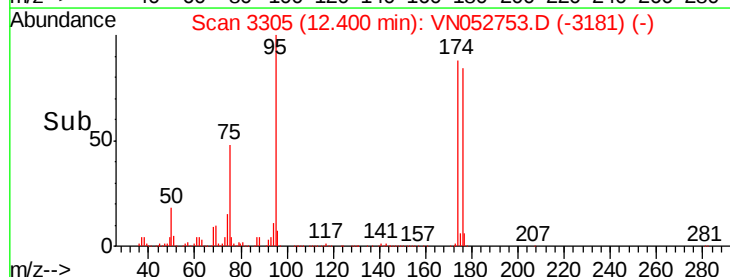
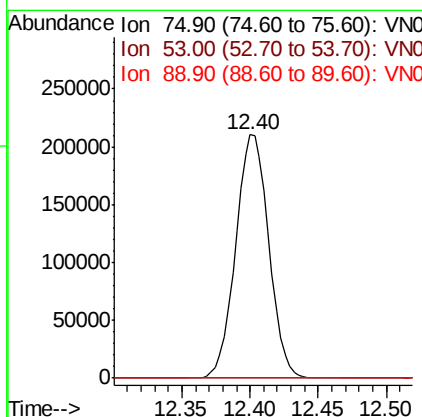
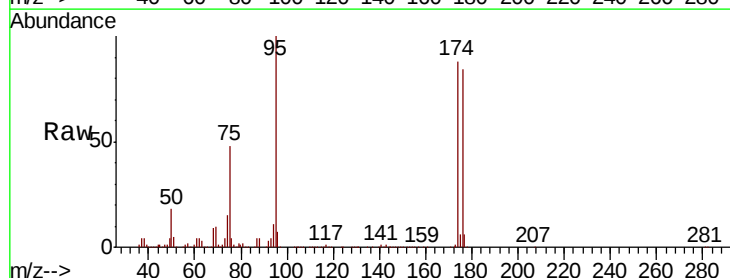
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115448ZHE#02

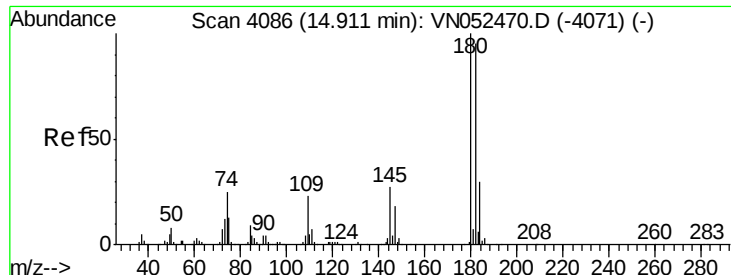
Tot Ion: 75 Resp: 352967
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 114.859 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052753.D
 Acq: 10 Dec 2018 15:10

Tgt Ion: 75 Resp: 352967
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.4 116.0#
 89 0.0 35.4 53.2#

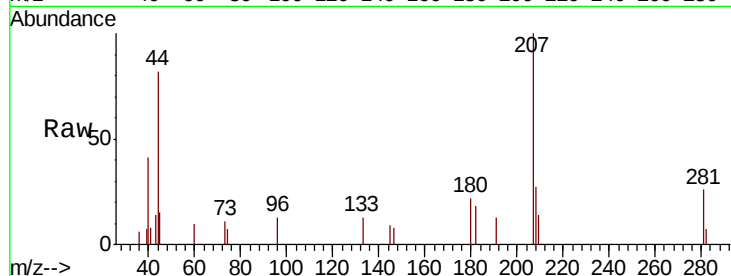




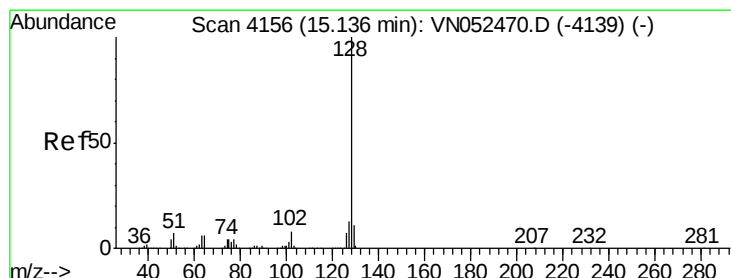
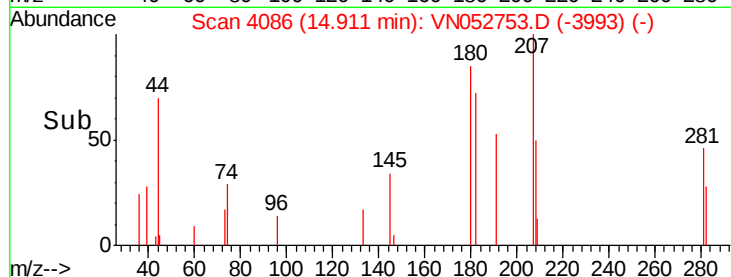
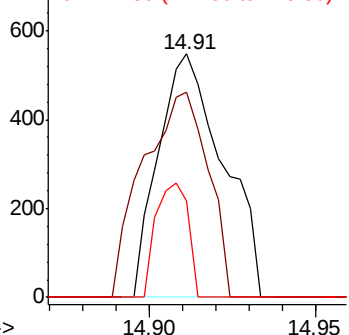
#93
 1,2,4-Trichlorobenzene
 Concen: 2.889 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052753.D
 Acq: 10 Dec 2018 15:10

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115448ZHE#02

Tot Ion:180 Resp: 744
 Ion Ratio Lower Upper
 180 100
 182 84.1 47.8 143.4
 145 23.1 14.1 42.3

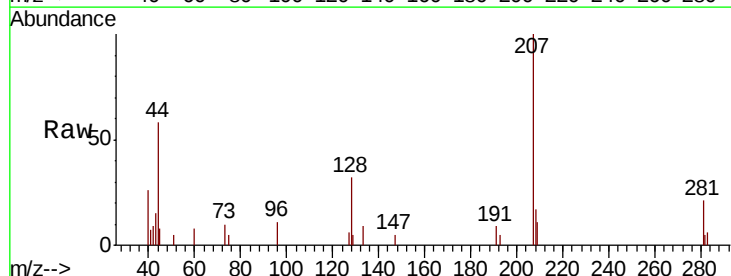


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

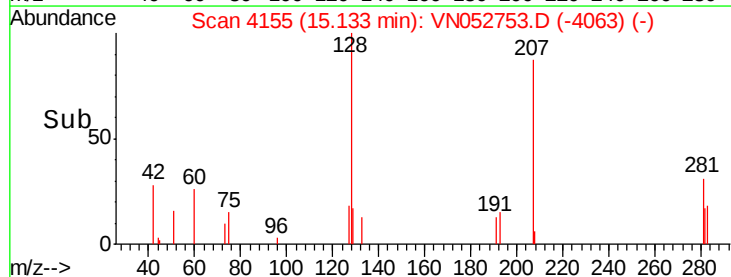
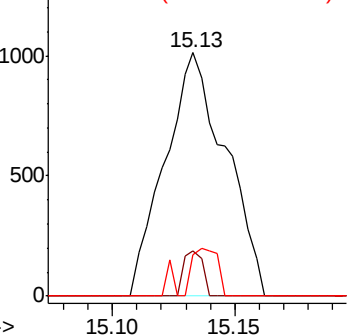


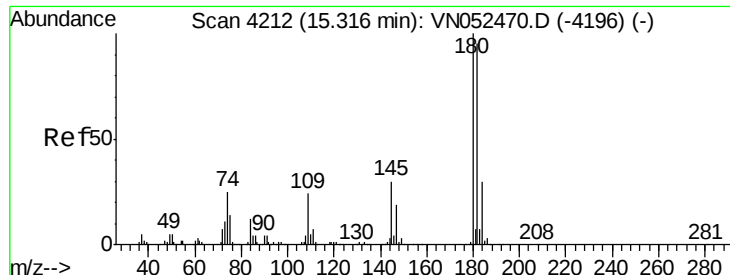
#95
 Naphthalene
 Concen: 3.493 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN052753.D
 Acq: 10 Dec 2018 15:10

Tgt Ion:128 Resp: 1748
 Ion Ratio Lower Upper
 128 100
 127 5.6 10.2 15.2#
 129 8.1 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





#96
 1,2,3-Trichlorobenzene
 Concen: 2.776 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052753.D
 Acq: 10 Dec 2018 15:10

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115448ZHE#02

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.9	47.8	143.3
145	0.0	15.2	45.5#

