

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN021819\
 Data File : VN053848.D
 Acq On : 18 Feb 2019 17:28
 Operator : JC/SP
 Sample : PB117159ZHE#12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#12

Quant Time: Feb 19 03:03:01 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	653390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1064066	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	975003	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	356992	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	343413	52.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.78%	
35) Dibromofluoromethane	7.59	113	331508	49.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.62%	
50) Toluene-d8	10.09	98	1260175	49.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.84%	
62) 4-Bromofluorobenzene	12.40	95	405069	48.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.22%	

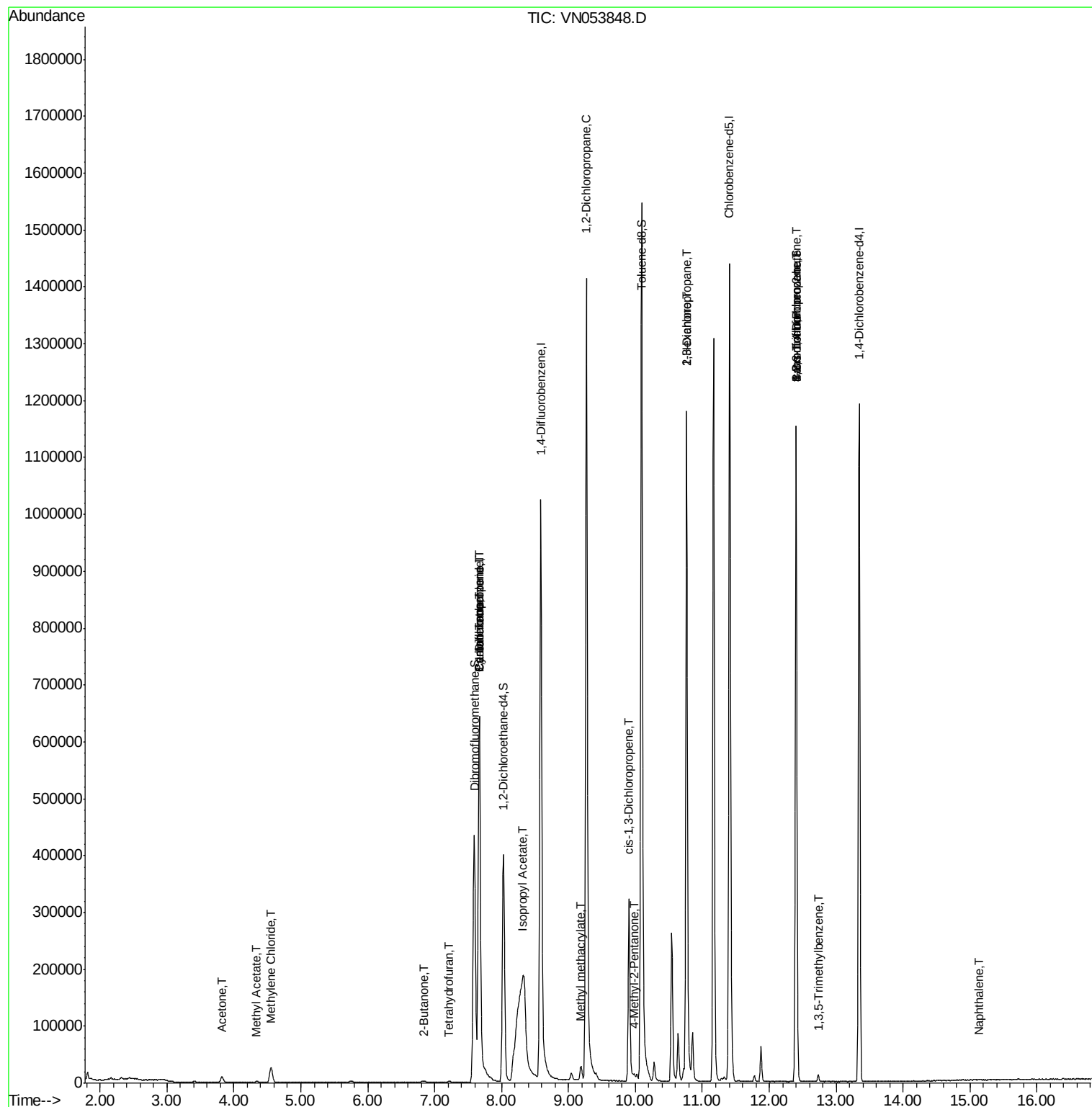
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	18827	11.198	ug/l	95
18) Methyl Acetate	4.34	43	3775	0.758	ug/l #	58
20) Methylene Chloride	4.55	84	22259	3.156	ug/l	91
25) 2-Butanone	6.84	43	2290	0.955	ug/l	99
29) Tetrahydrofuran	7.21	42	683	0.444	ug/l #	51
31) Cyclohexane	7.67	56	8904	0.636	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	38380	4.001	ug/l #	47
38) Carbon Tetrachloride	7.67	117	53414	5.528	ug/l #	16
43) Isopropyl Acetate	8.32	43	407565	39.394	ug/l #	51
45) 1,2-Dichloropropane	9.27	63	1792	0.237	ug/l #	43
48) Methyl methacrylate	9.18	41	9068	1.836	ug/l #	12
51) 4-Methyl-2-Pentanone	9.98	43	5769	1.135	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	67954	6.039	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	13786	1.275	ug/l #	43
59) 2-Hexanone	10.76	43	172199	49.894	ug/l #	51
71) Bromoform	12.40	173	2428	0.490	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	186530	40.680	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5786	0.278	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	186530	114.388	ug/l #	15
95) Naphthalene	15.14	128	113	1.743	ug/l #	69

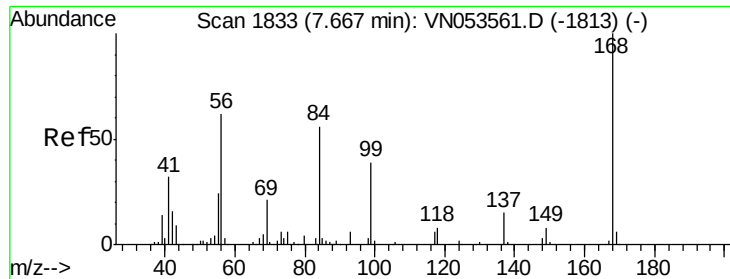
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
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: VN053848.D

Acq: 18 Feb 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

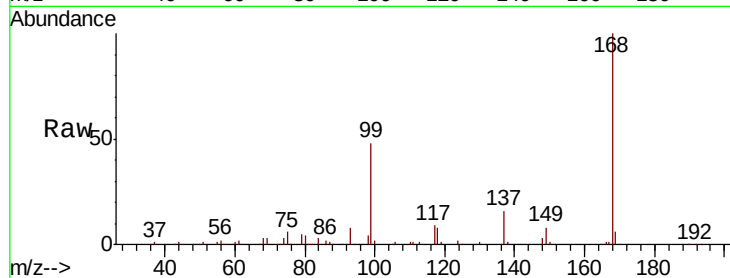
PB117159ZHE#12

Tgt Ion:168 Resp: 653390

Ion Ratio Lower Upper

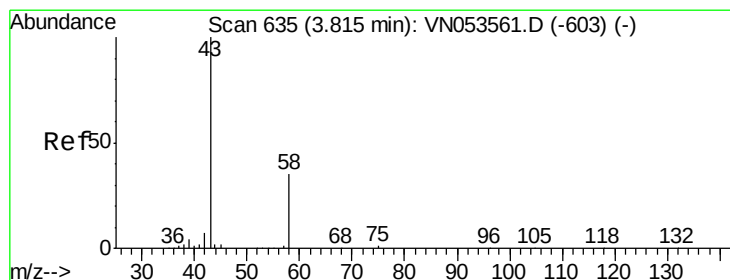
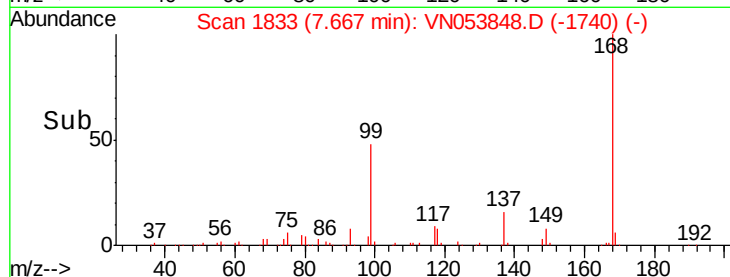
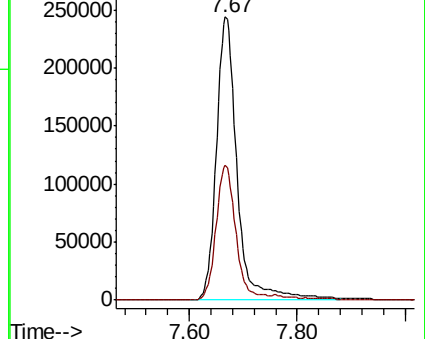
168 100

99 47.9 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 11.198 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053848.D

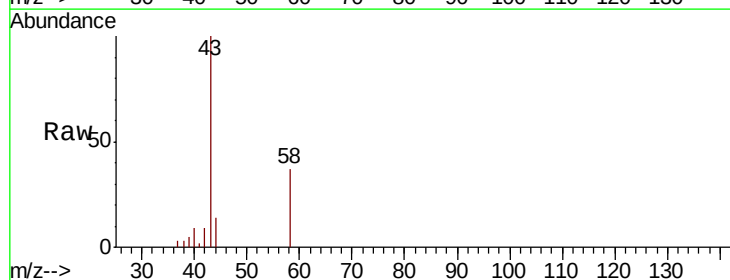
Acq: 18 Feb 2019 17:28

Tgt Ion: 43 Resp: 18827

Ion Ratio Lower Upper

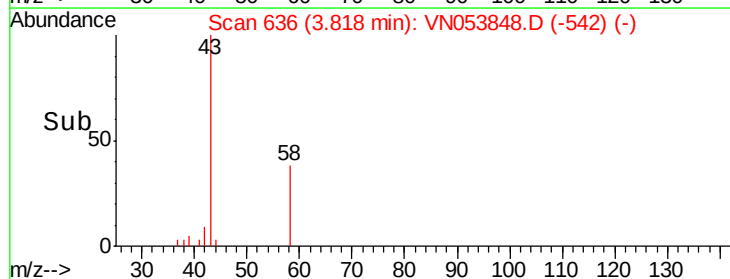
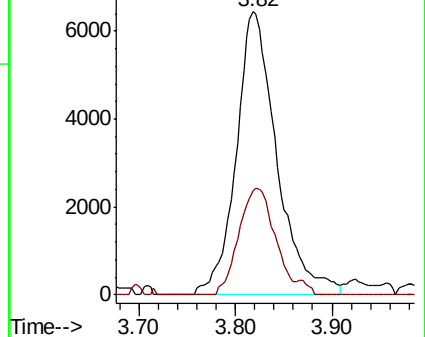
43 100

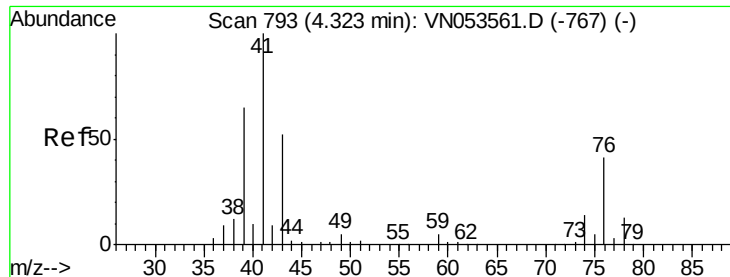
58 36.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

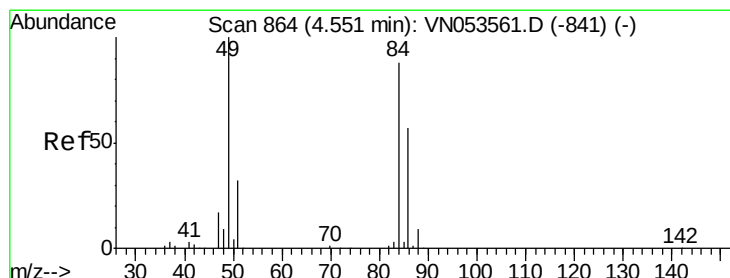
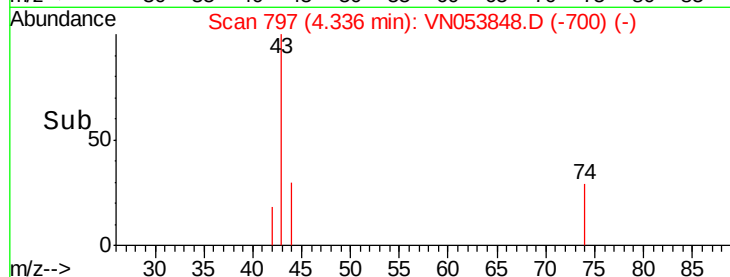
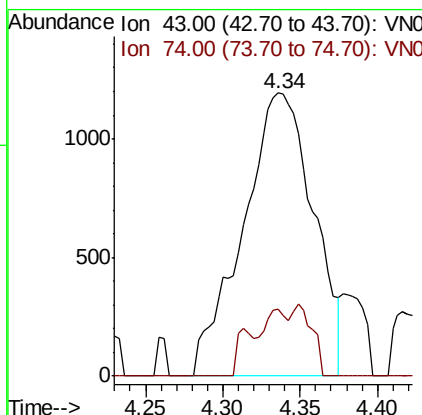
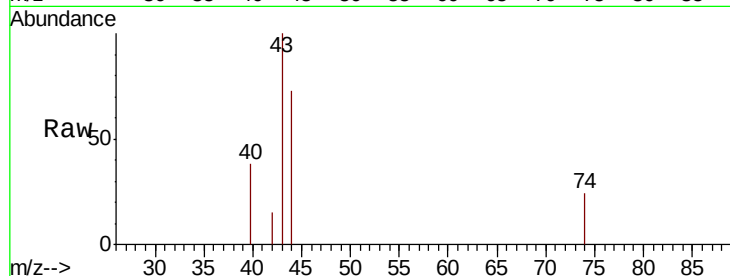




#18
Methyl Acetate
Concen: 0.758 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053848.D
Acq: 18 Feb 2019 17:28

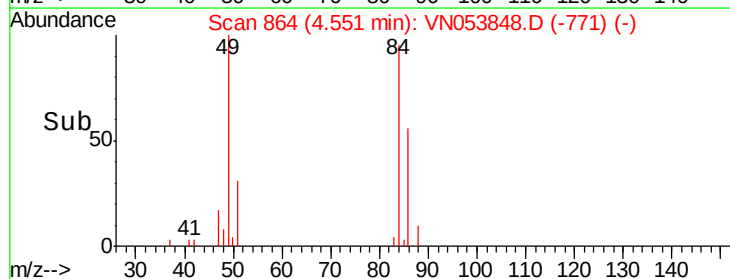
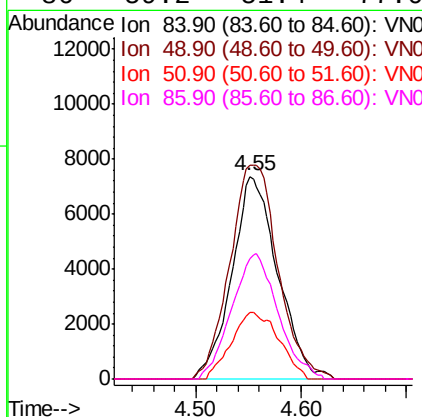
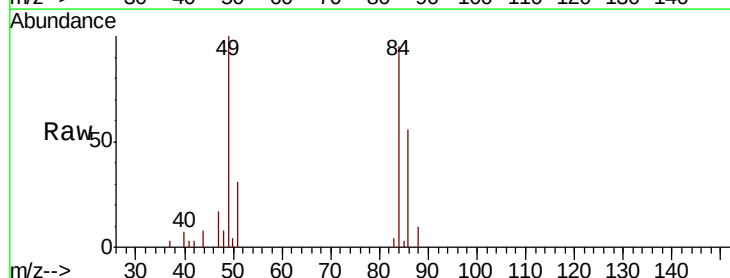
Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#12

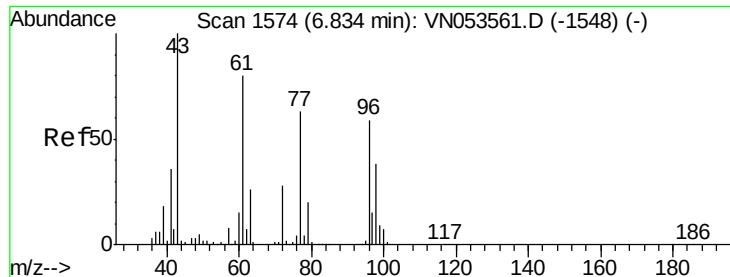
Tgt Ion: 43 Resp: 3775
Ion Ratio Lower Upper
43 100
74 3.3 19.4 29.2#



#20
Methylene Chloride
Concen: 3.156 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN053848.D
Acq: 18 Feb 2019 17:28

Tgt Ion: 84 Resp: 22259
Ion Ratio Lower Upper
84 100
49 105.5 94.3 141.5
51 33.1 29.4 44.2
86 59.2 51.4 77.0

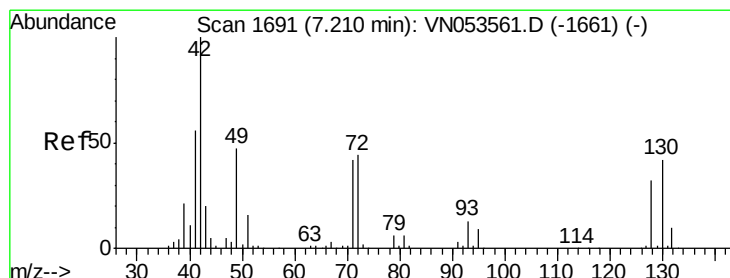
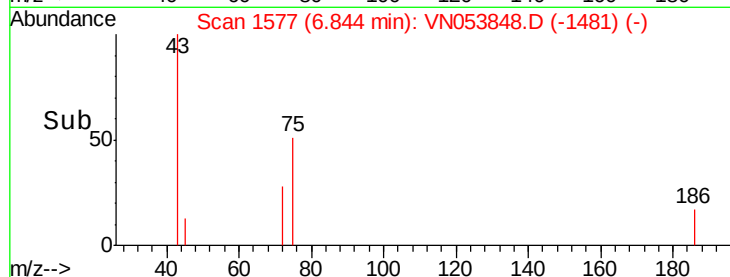
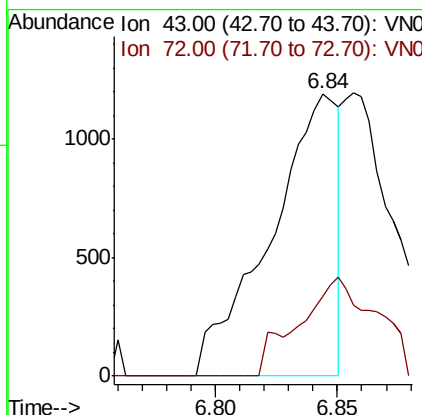
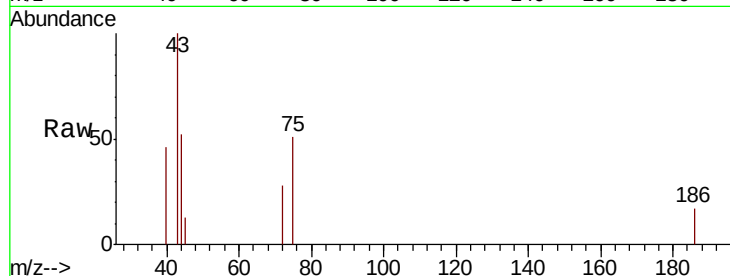




#25
 2-Butanone
 Concen: 0.955 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.01 min
 Lab File: VN053848.D
 Acq: 18 Feb 2019 17:28

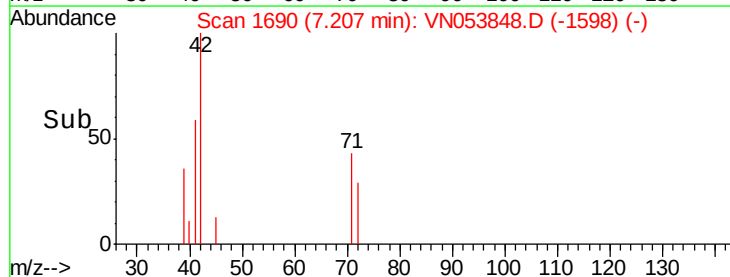
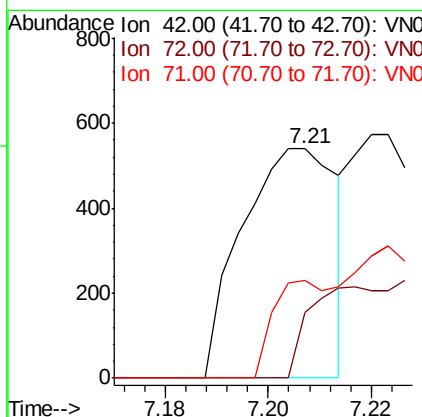
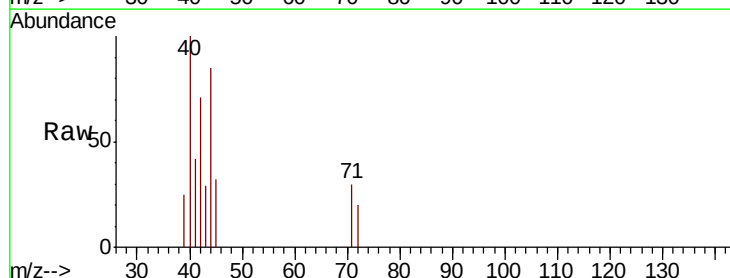
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#12

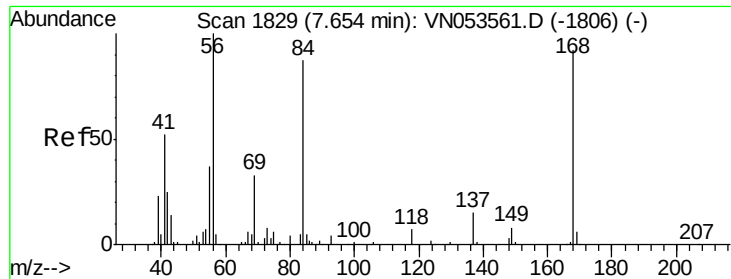
Tgt Ion: 43 Resp: 2290
 Ion Ratio Lower Upper
 43 100
 72 28.1 22.0 33.0



#29
 Tetrahydrofuran
 Concen: 0.444 ug/l
 RT: 7.21 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VN053848.D
 Acq: 18 Feb 2019 17:28

Tgt Ion: 42 Resp: 683
 Ion Ratio Lower Upper
 42 100
 72 0.0 35.2 52.8#
 71 23.0 33.0 49.4#





#31

Cyclohexane

Concen: 0.636 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#12

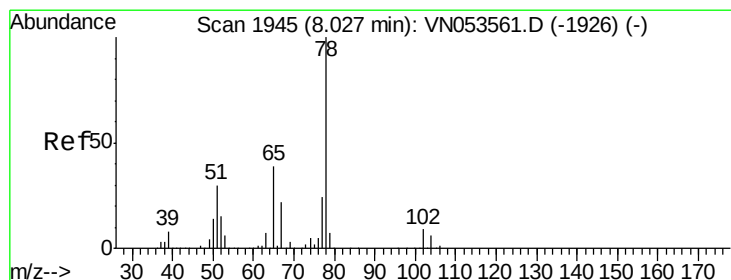
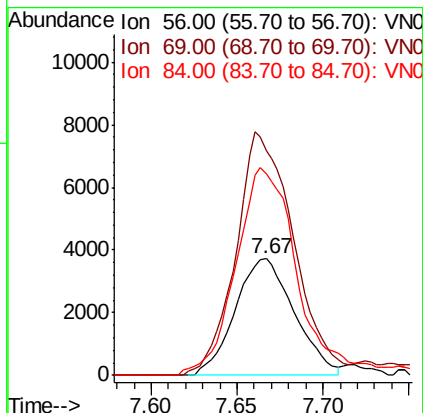
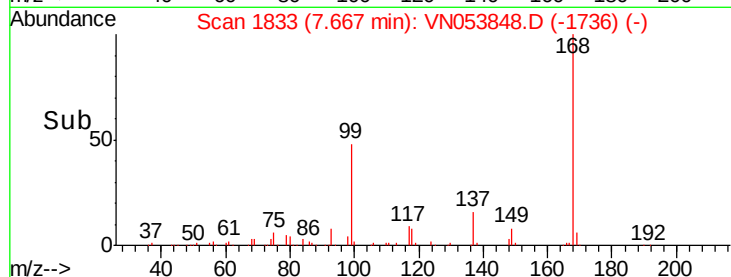
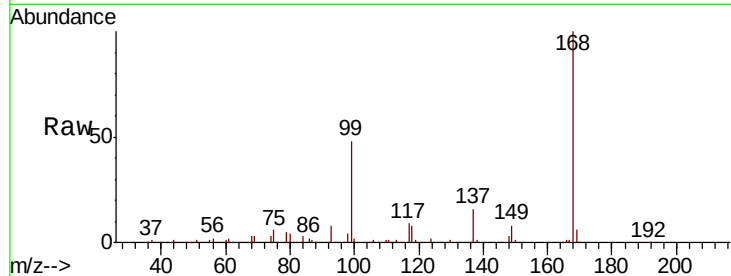
Tgt Ion: 56 Resp: 8904

Ion Ratio Lower Upper

56 100

69 188.3 26.4 39.6#

84 166.9 67.9 101.9#



#33

1,2-Dichloroethane-d4

Concen: 52.391 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053848.D

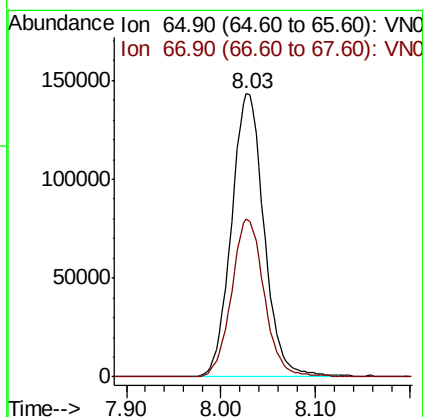
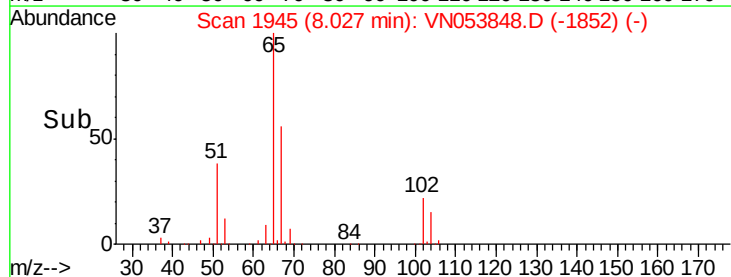
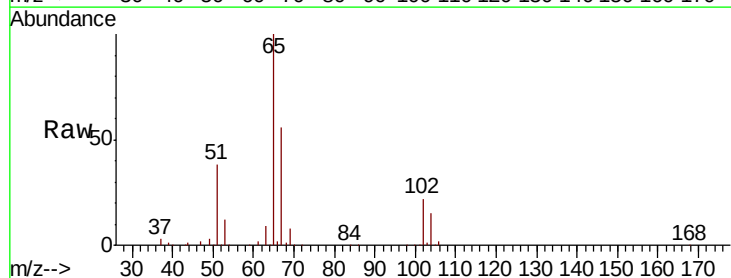
Acq: 18 Feb 2019 17:28

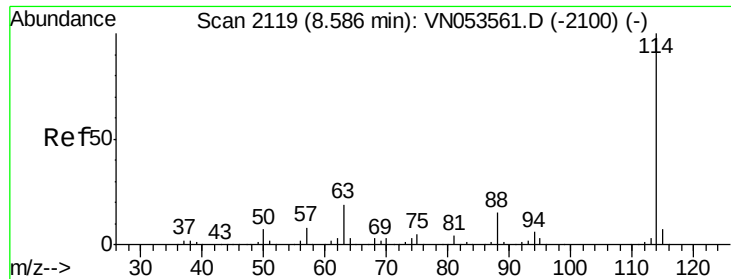
Tgt Ion: 65 Resp: 343413

Ion Ratio Lower Upper

65 100

67 55.8 0.0 111.2

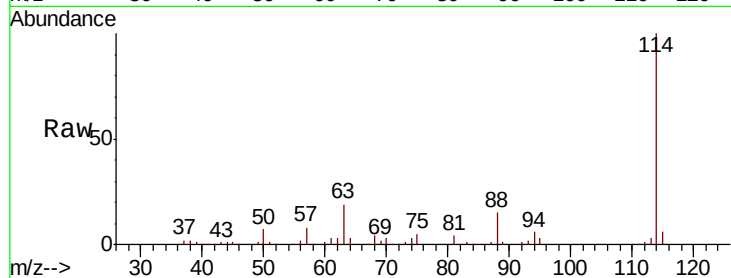




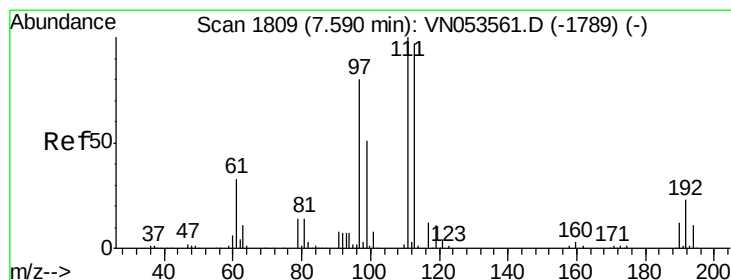
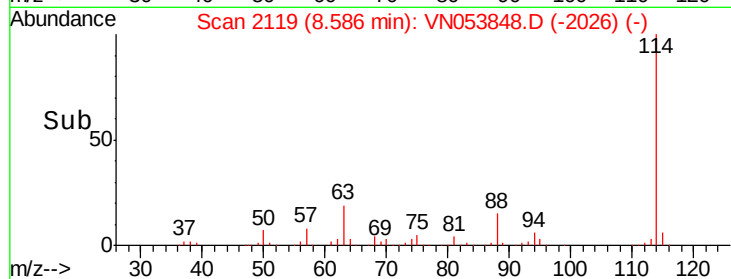
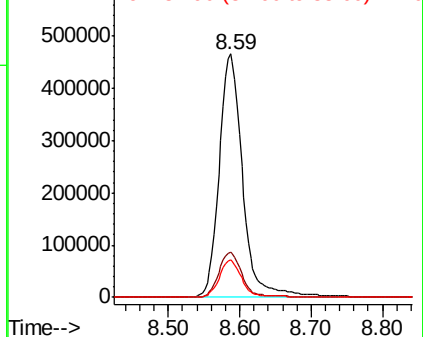
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN053848.D
 Acq: 18 Feb 2019 17:28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#12

Tgt Ion:114 Resp: 1064066
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 38.6
 88 15.3 0.0 30.4

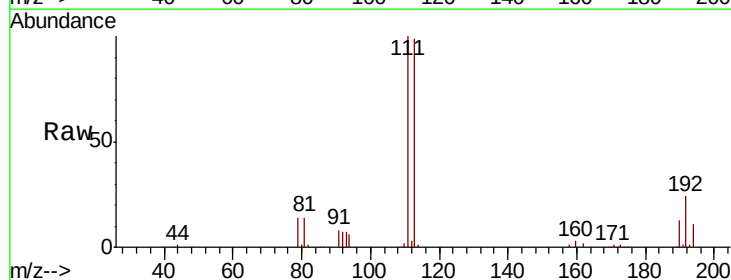


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

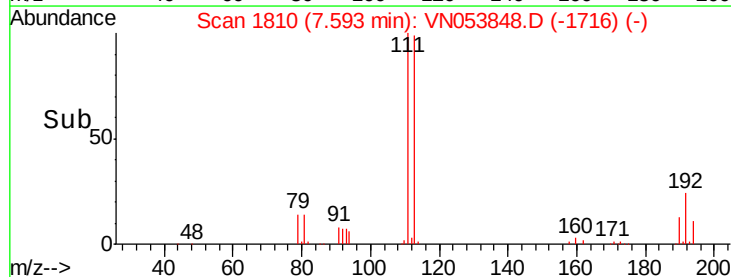
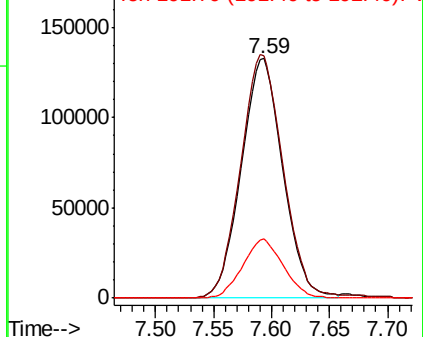


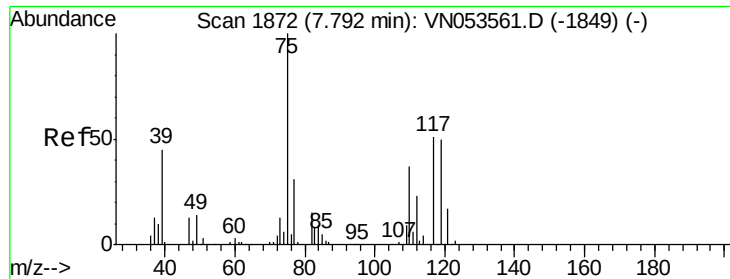
#35
 Dibromofluoromethane
 Concen: 49.306 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053848.D
 Acq: 18 Feb 2019 17:28

Tgt Ion:113 Resp: 331508
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.1 121.7
 192 24.2 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: 4.001 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#12

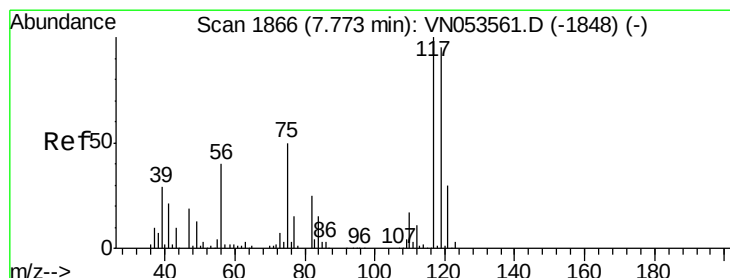
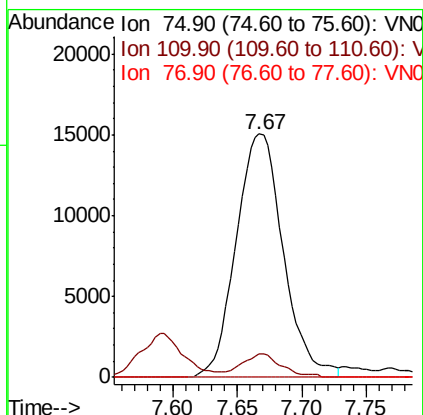
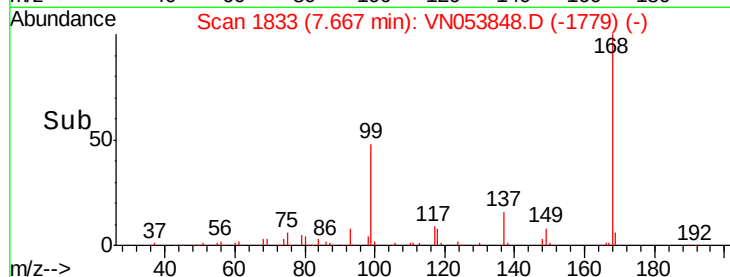
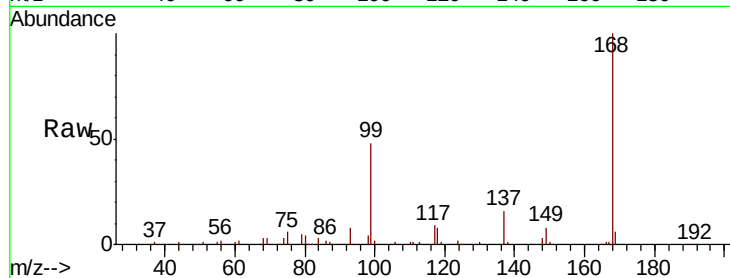
Tgt Ion: 75 Resp: 38380

Ion Ratio Lower Upper

75 100

110 6.7 18.1 54.3#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.528 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

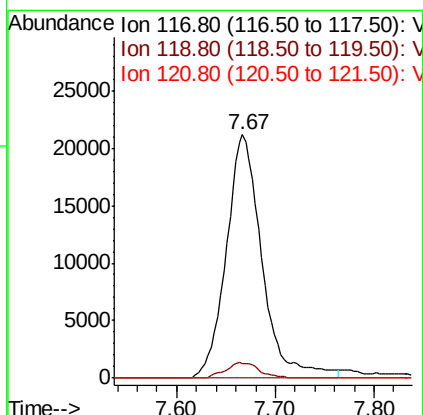
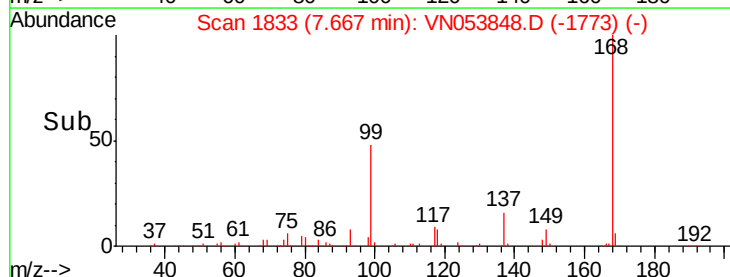
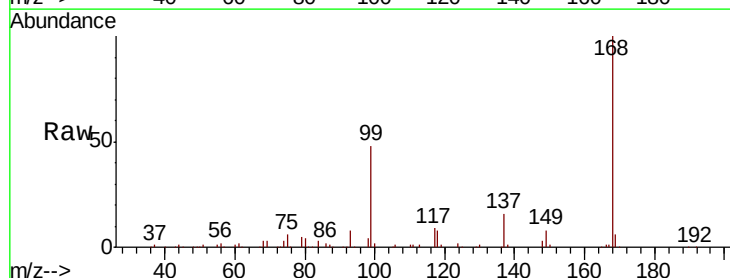
Tgt Ion: 117 Resp: 53414

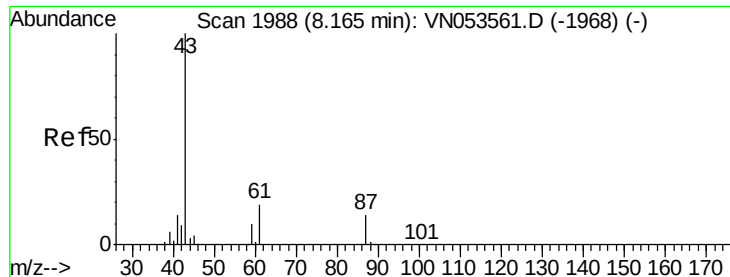
Ion Ratio Lower Upper

117 100

119 6.1 77.2 115.8#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 39.394 ug/l

RT: 8.32 min Scan# 2036

Delta R.T. 0.15 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#12

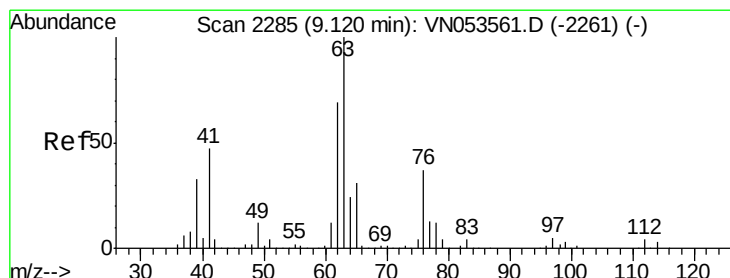
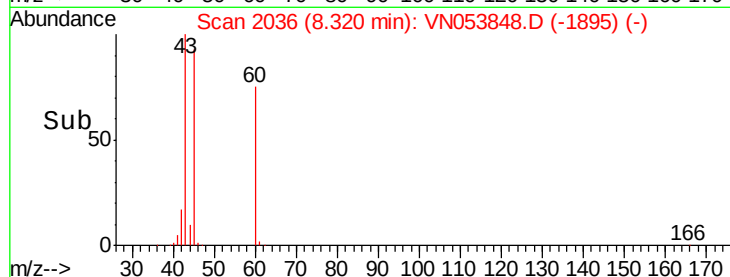
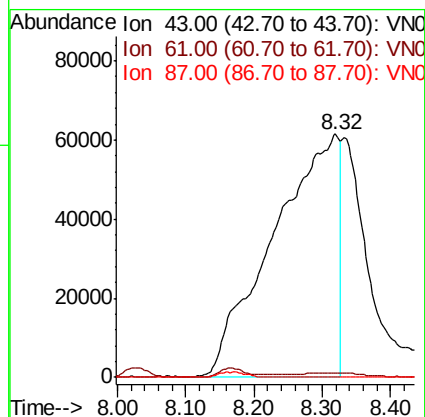
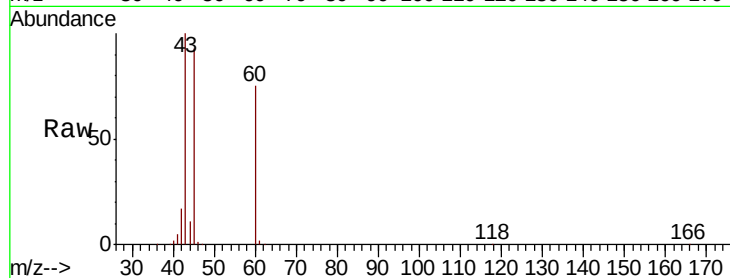
Tgt Ion: 43 Resp: 407565

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

87 0.0 11.0 16.6#



#45

1,2-Dichloropropane

Concen: 0.237 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053848.D

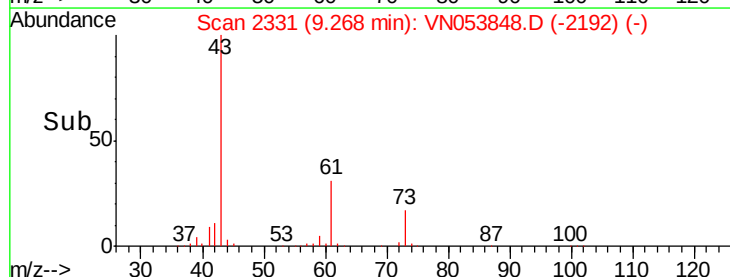
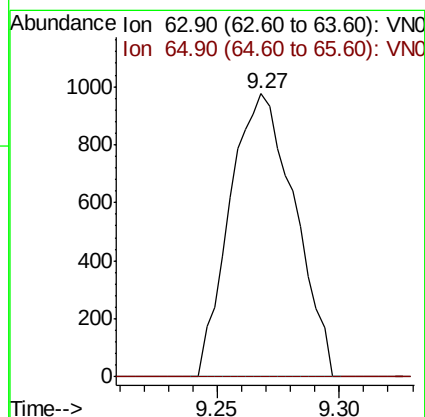
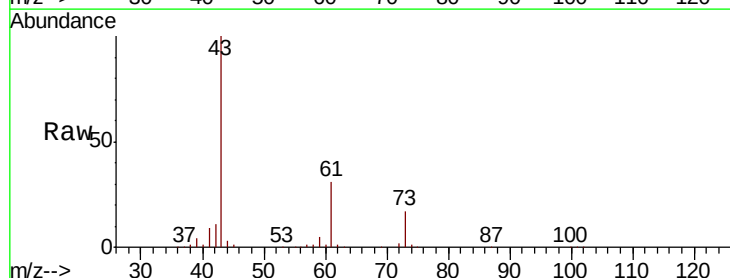
Acq: 18 Feb 2019 17:28

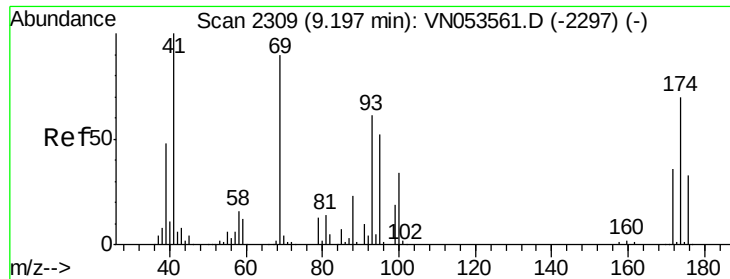
Tgt Ion: 63 Resp: 1792

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

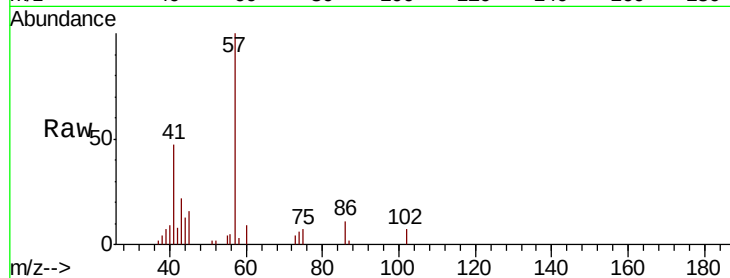




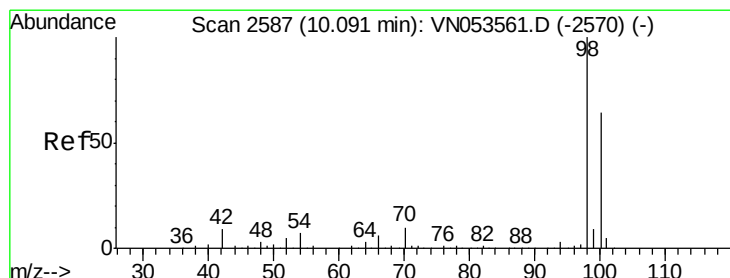
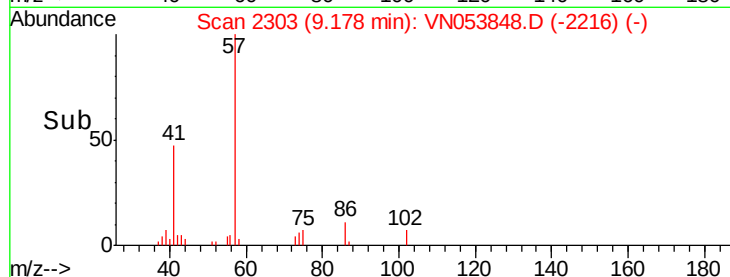
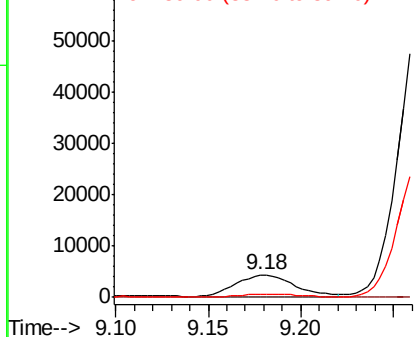
#48
Methyl methacrylate
Concen: 1.836 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053848.D
Acq: 18 Feb 2019 17:28

Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#12

Tgt Ion: 41 Resp: 9068
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

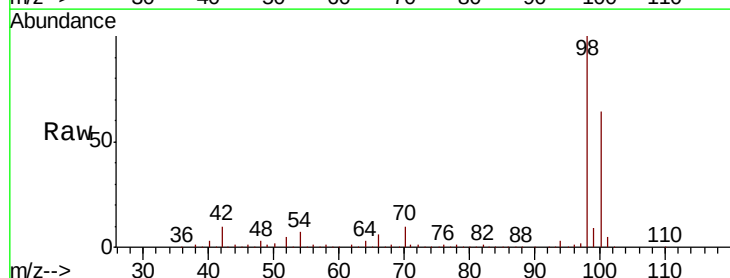


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

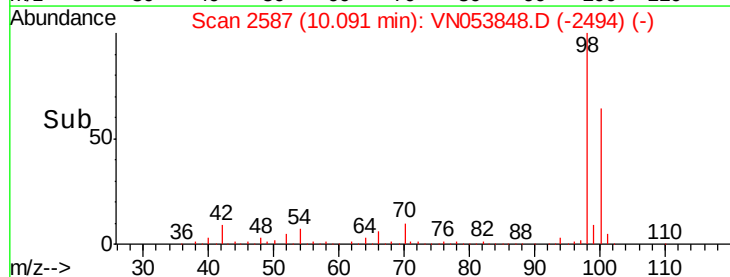
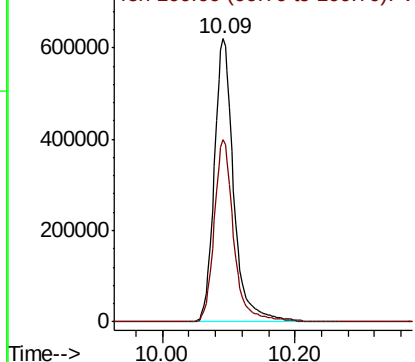


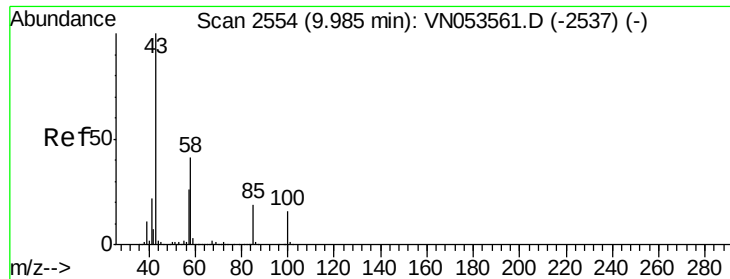
#50
Toluene-d8
Concen: 49.917 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053848.D
Acq: 18 Feb 2019 17:28

Tgt Ion: 98 Resp: 1260175
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.0



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

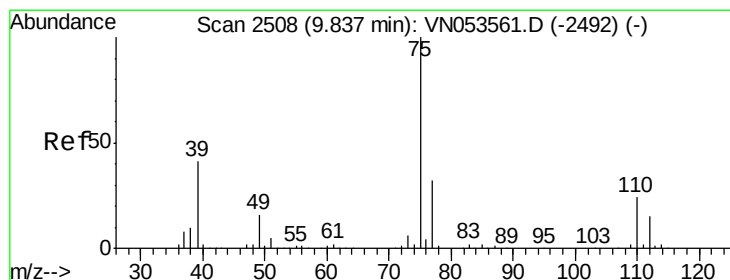
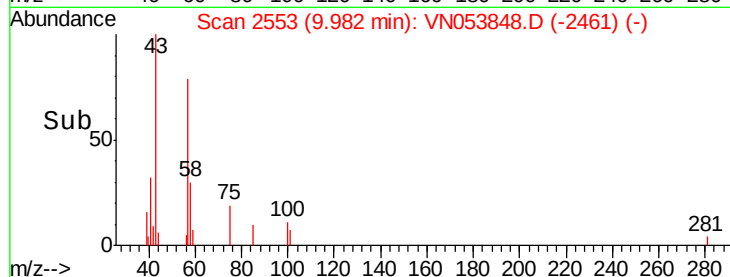
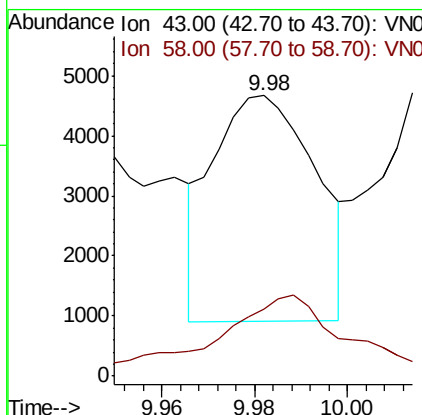
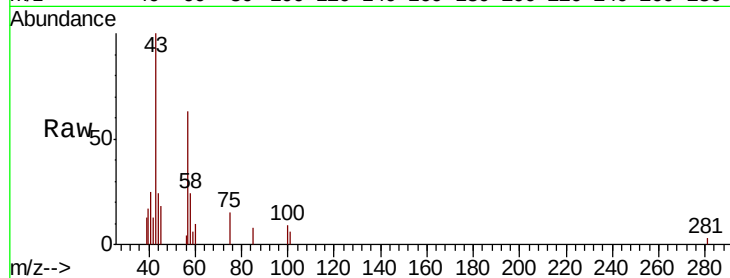




#51
 4-Methyl-2-Pentanone
 Concen: 1.135 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN053848.D
 Acq: 18 Feb 2019 17:28

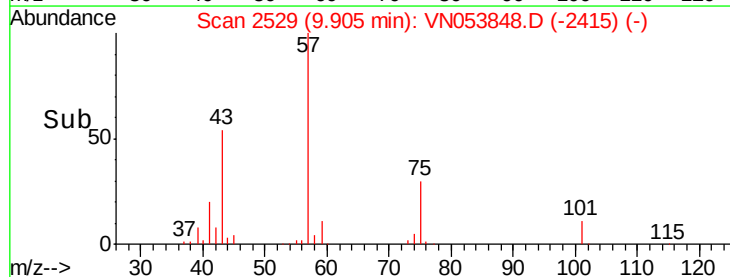
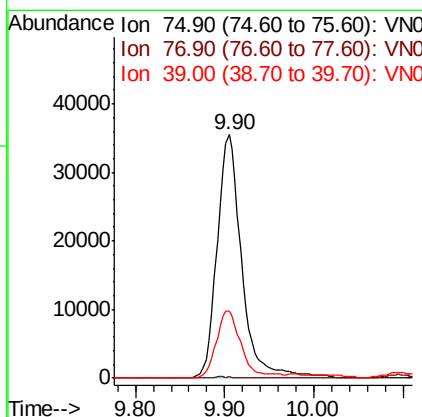
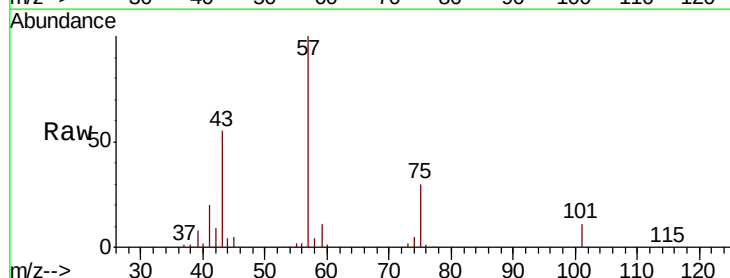
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#12

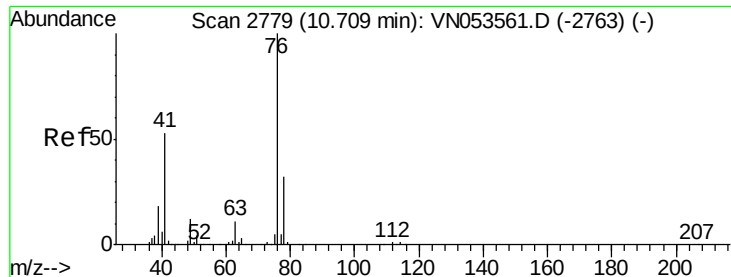
Tgt Ion: 43 Resp: 5769
 Ion Ratio Lower Upper
 43 100
 58 45.3 32.8 49.2



#54
 cis-1,3-Dichloropropene
 Concen: 6.039 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053848.D
 Acq: 18 Feb 2019 17:28

Tgt Ion: 75 Resp: 67954
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.8 38.6#
 39 27.4 33.4 50.0#





#57

1,3-Dichloropropane

Concen: 1.275 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

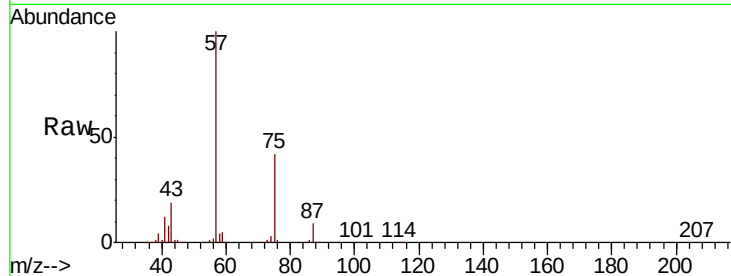
PB117159ZHE#12

Tgt Ion: 76 Resp: 13786

Ion Ratio Lower Upper

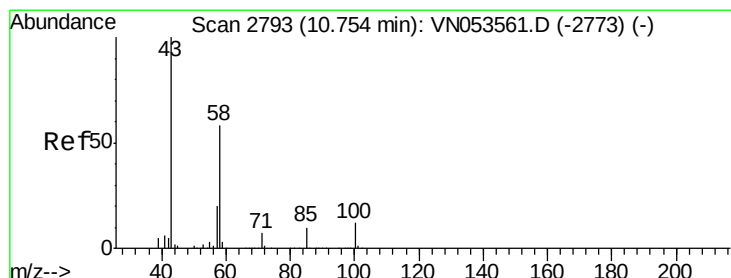
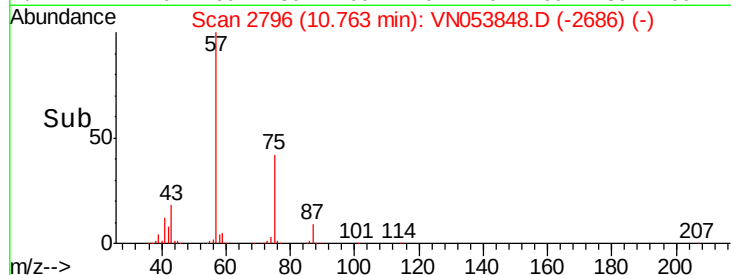
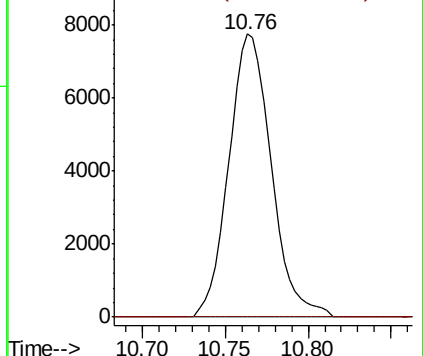
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 49.894 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053848.D

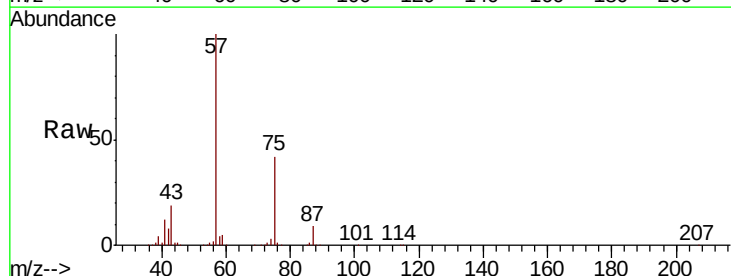
Acq: 18 Feb 2019 17:28

Tgt Ion: 43 Resp: 172199

Ion Ratio Lower Upper

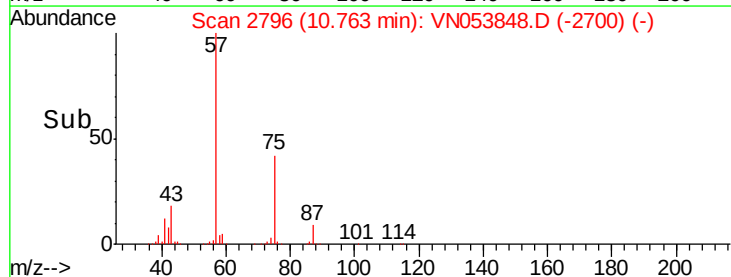
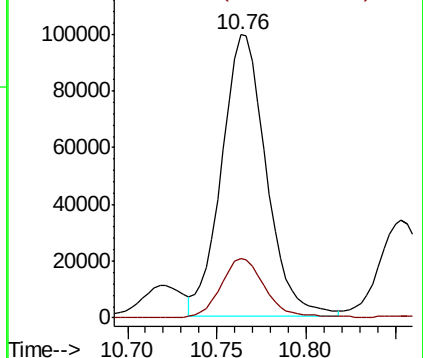
43 100

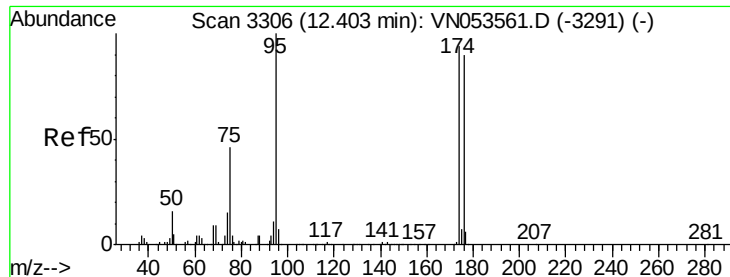
58 21.3 28.6 85.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 48.109 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#12

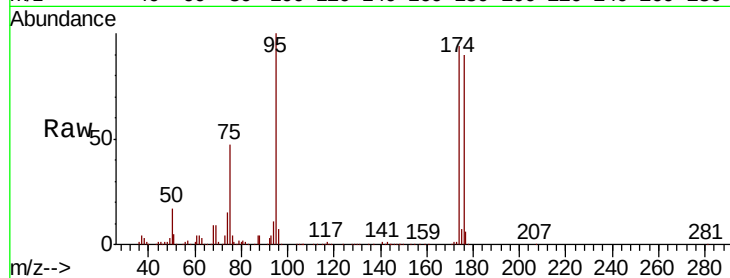
Tgt Ion: 95 Resp: 405069

Ion Ratio Lower Upper

95 100

174 95.7 0.0 183.2

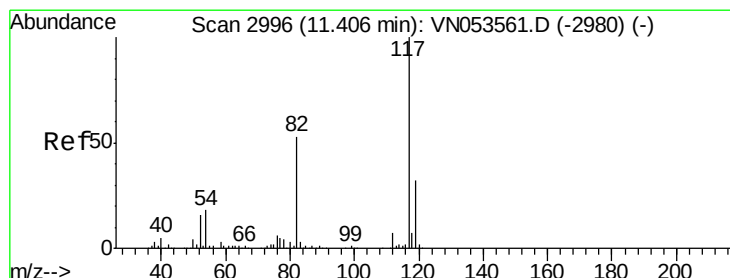
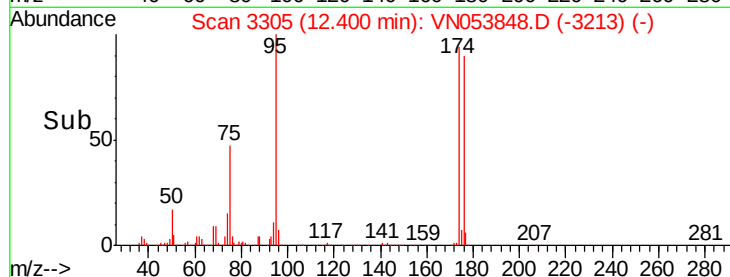
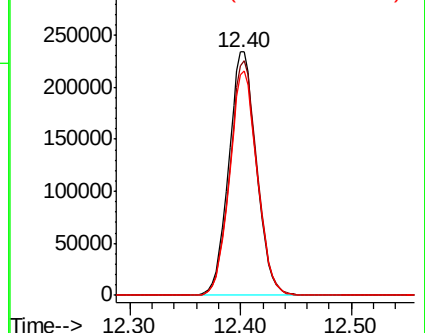
176 91.8 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

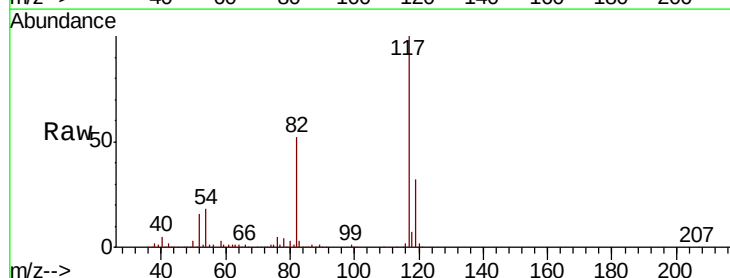
Tgt Ion: 117 Resp: 975003

Ion Ratio Lower Upper

117 100

82 51.7 42.9 64.3

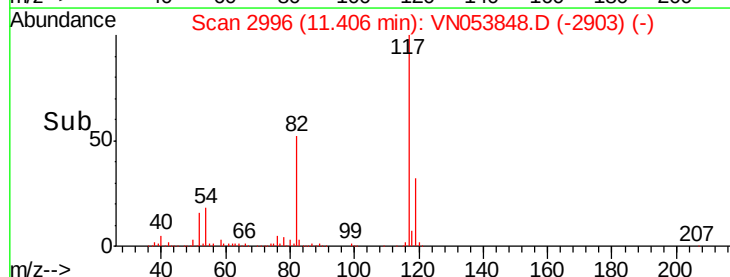
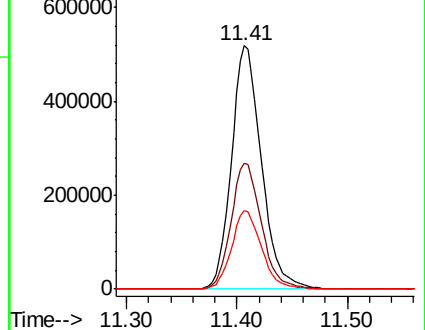
119 32.0 26.0 39.0

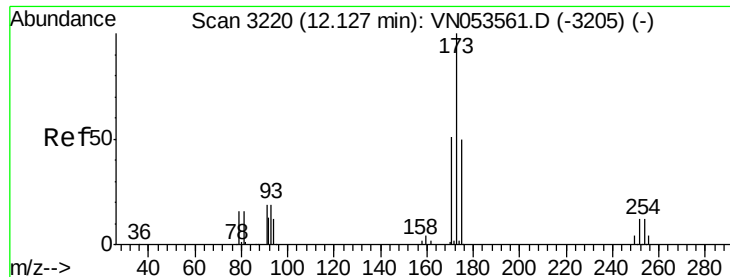


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)





#71

Bromoform

Concen: 0.490 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#12

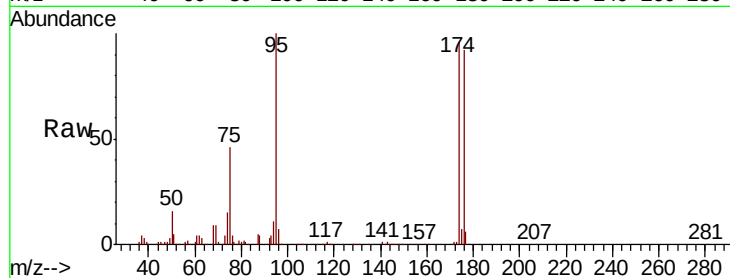
Tgt Ion:173 Resp: 2428

Ion Ratio Lower Upper

173 100

175 1002.0 24.6 74.0#

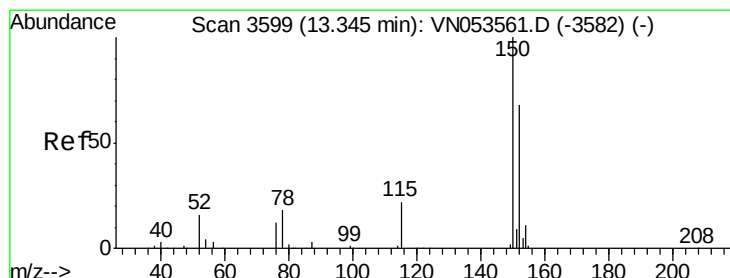
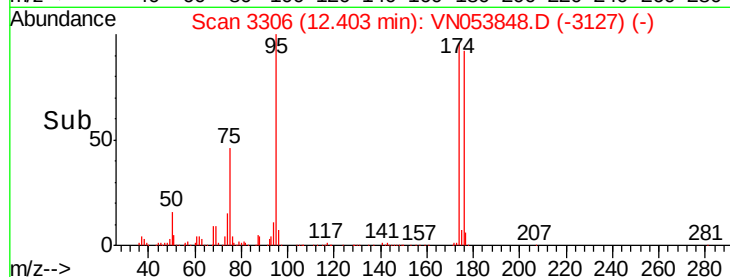
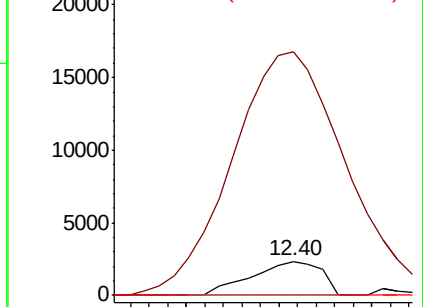
254 0.0 0.2 0.2#



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: VN053848.D

Acq: 18 Feb 2019 17:28

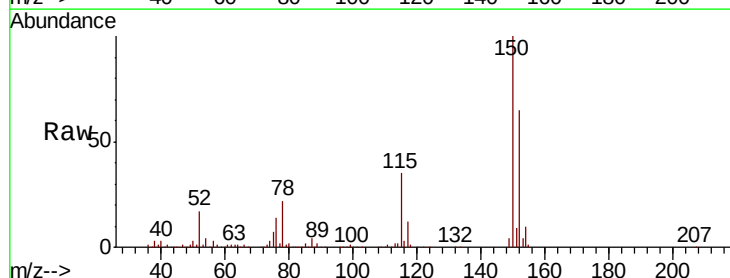
Tgt Ion:152 Resp: 356992

Ion Ratio Lower Upper

152 100

115 54.9 27.8 83.4

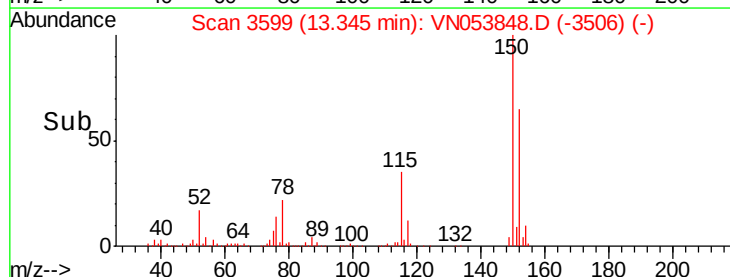
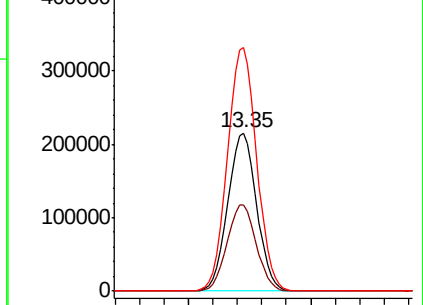
150 155.5 0.0 349.0

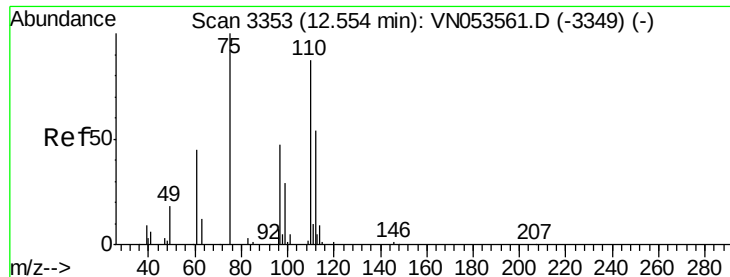


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 40.680 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

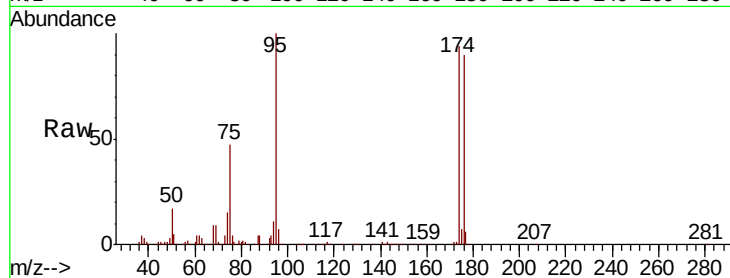
PB117159ZHE#12

Tgt Ion: 75 Resp: 186530

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)

12.40

120000

100000

80000

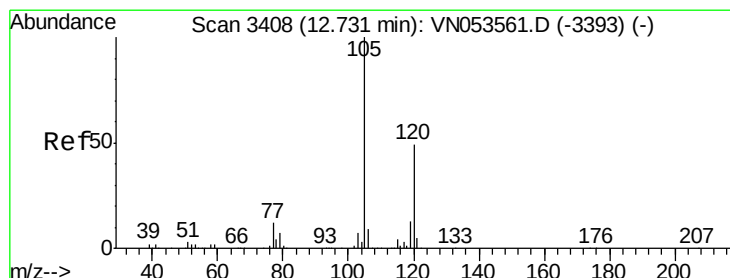
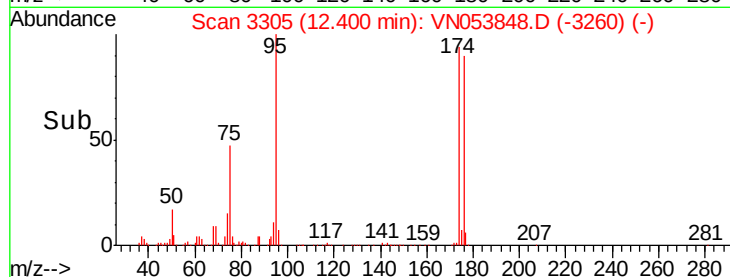
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.278 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053848.D

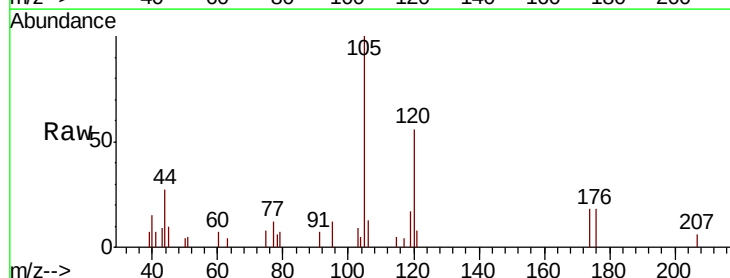
Acq: 18 Feb 2019 17:28

Tgt Ion: 105 Resp: 5786

Ion Ratio Lower Upper

105 100

120 52.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)

12.73

4000

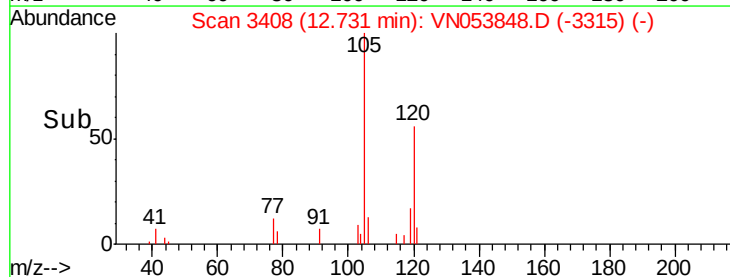
3000

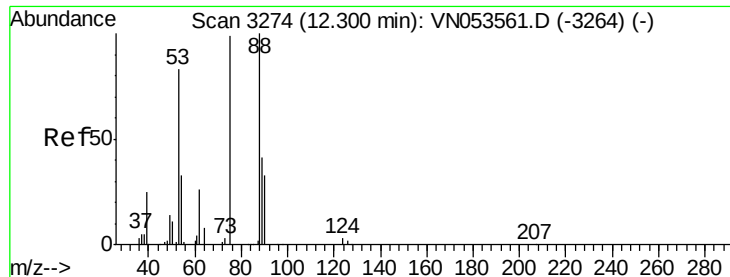
2000

1000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 114.388 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#12

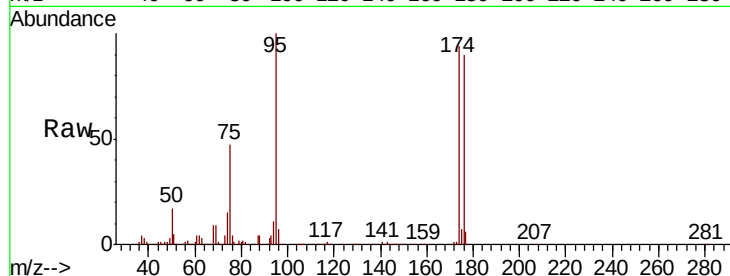
Tgt Ion: 75 Resp: 186530

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

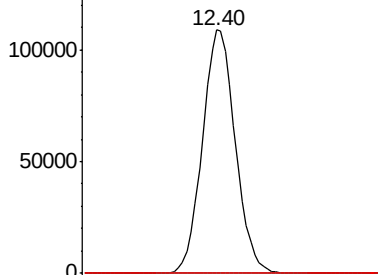
89 0.0 35.6 53.4#



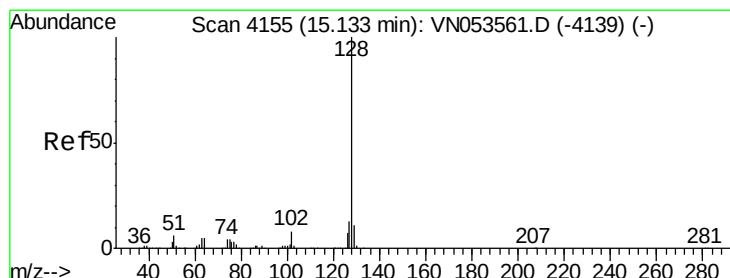
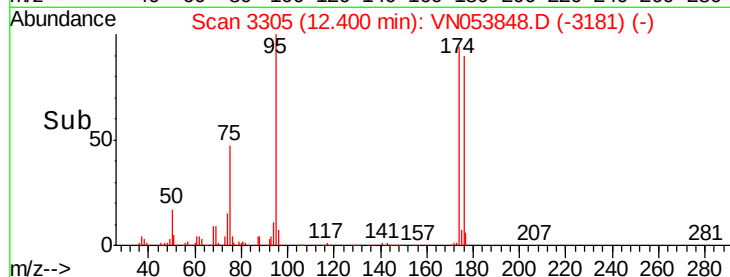
Abundance Ion 74.90 (74.60 to 75.60): VN053848.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053848.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053848.D (-3181) (-)



Time--> 12.30 12.40 12.50



#95

Naphthalene

Concen: 1.743 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN053848.D

Acq: 18 Feb 2019 17:28

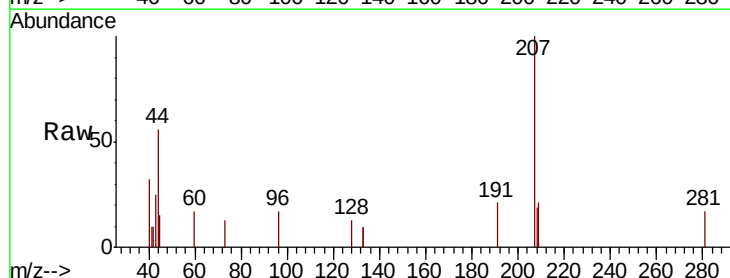
Tgt Ion: 128 Resp: 113

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

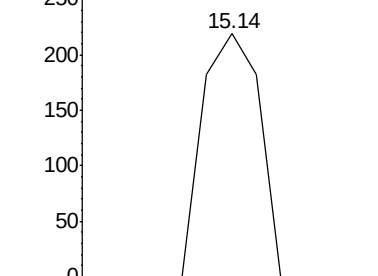
129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN053848.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053848.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053848.D (-4061) (-)



Time--> 15.12 15.13 15.14 15.15

