

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051193.D
 Acq On : 14 Sep 2018 16:25
 Operator : MD\SY
 Sample : PB112829ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#03

Quant Time: Sep 15 00:08:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	569892	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	921686	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	759684	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	228774	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	349231	55.07	ug/l	0.00
Spiked Amount			Recovery	=	110.14%	
35) Dibromofluoromethane	7.59	113	347270	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
50) Toluene-d8	10.09	98	1226342	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
62) 4-Bromofluorobenzene	12.40	95	306308	35.23	ug/l	0.00
Spiked Amount			Recovery	=	70.46%	

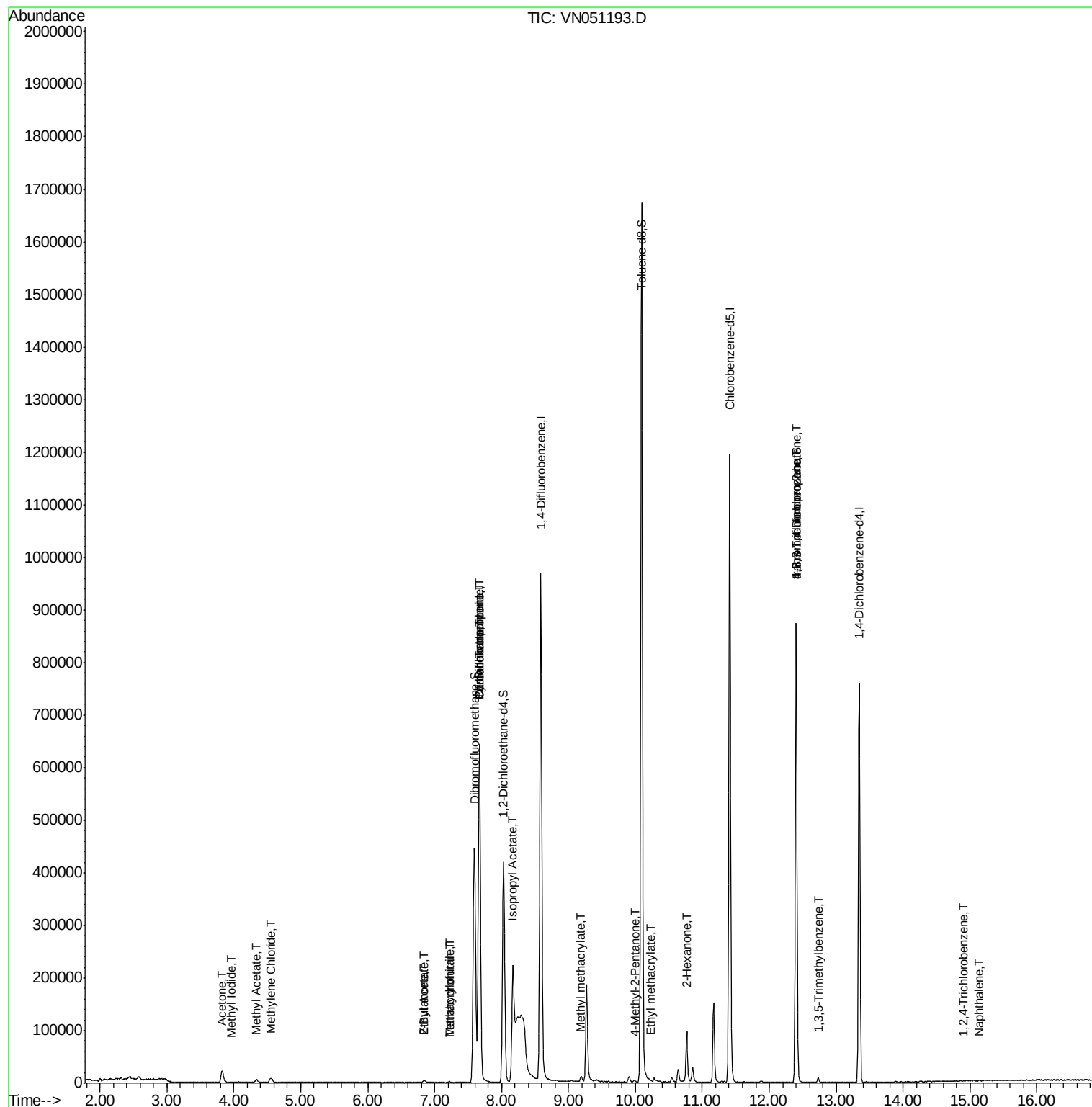
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2141	Below Cal		92
5) Bromomethane	2.57	94	2701	Below Cal		94
10) Methyl Iodide	3.96	142	212	5.66	ug/l #	78
16) Acetone	3.82	43	38744	19.32	ug/l	98
18) Methyl Acetate	4.32	43	4333	0.85	ug/l	96
20) Methylene Chloride	4.56	84	7268	1.04	ug/l	99
25) 2-Butanone	6.84	43	8017	3.22	ug/l	91
29) Tetrahydrofuran	7.22	42	1484	0.95	ug/l #	81
31) Cyclohexane	7.67	56	9144	0.65	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	36559	3.61	ug/l #	49
37) Ethyl Acetate	6.84	43	8017	1.37	ug/l #	66
38) Carbon Tetrachloride	7.67	117	49043	4.92	ug/l #	17
41) Methacrylonitrile	7.22	41	707	0.23	ug/l #	35
43) Isopropyl Acetate	8.17	43	278334	26.92	ug/l #	81
48) Methyl methacrylate	9.18	41	6024	1.20	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	2453	0.43	ug/l	99
56) Ethyl methacrylate	10.23	69	1796	2.64	ug/l #	62
59) 2-Hexanone	10.77	43	12668	3.27	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	145791	40.83	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4134	0.27	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	145791	121.03	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.90	180	61	4.00	ug/l #	13
95) Naphthalene	15.13	128	316	5.37	ug/l #	69

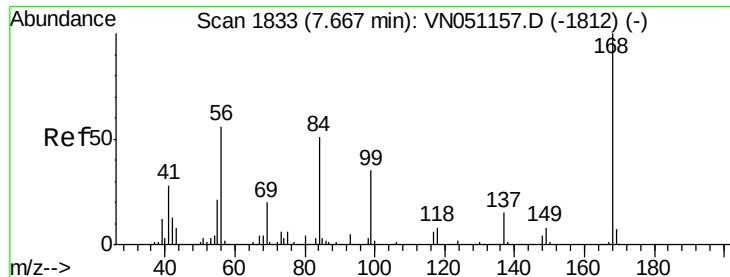
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
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Quant Time: Sep 15 00:08:26 2018
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Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

Instrument :

MSVOA_N

ClientSampleId :

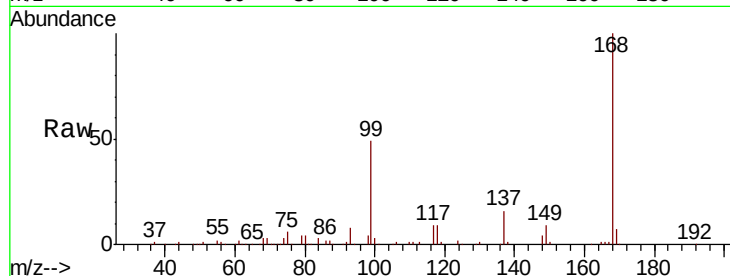
PB112829ZHE#03

Tot Ion:168 Resp: 569892

Ion Ratio Lower Upper

168 100

99 49.0 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): VN051157.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051157.D (-1812) (-)

7.67

250000

200000

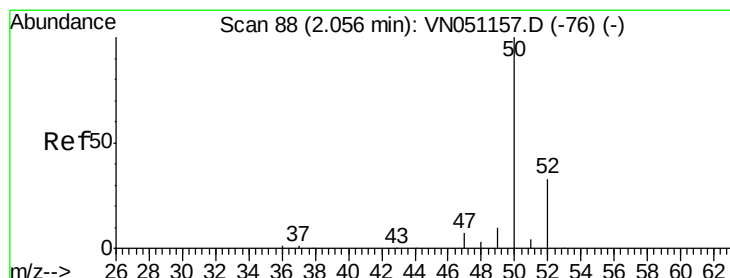
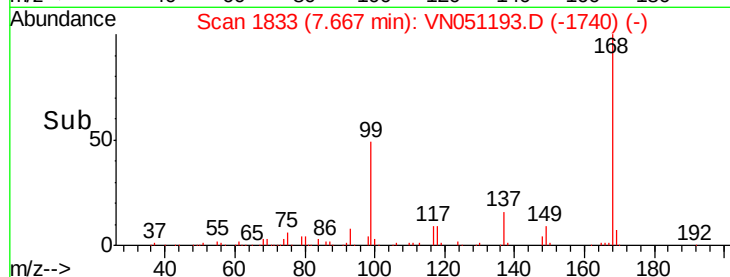
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051193.D

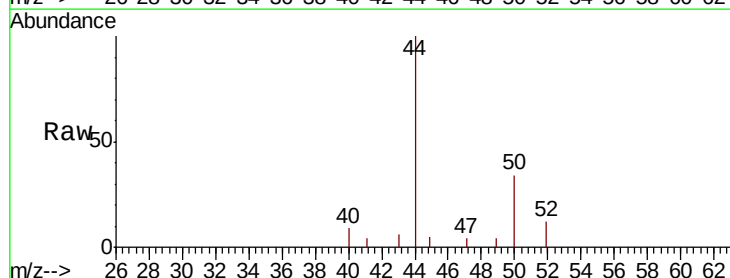
Acq: 14 Sep 2018 16:25

Tgt Ion: 50 Resp: 2141

Ion Ratio Lower Upper

50 100

52 36.8 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN051157.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN051157.D (-76) (-)

2.06

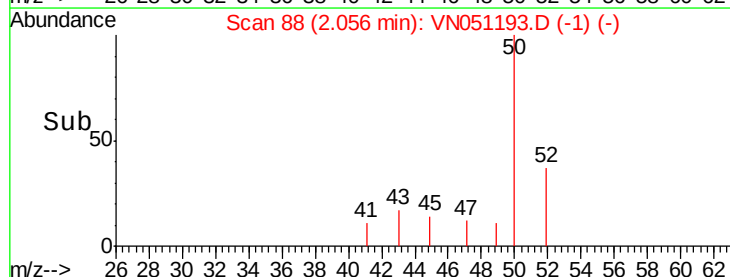
1500

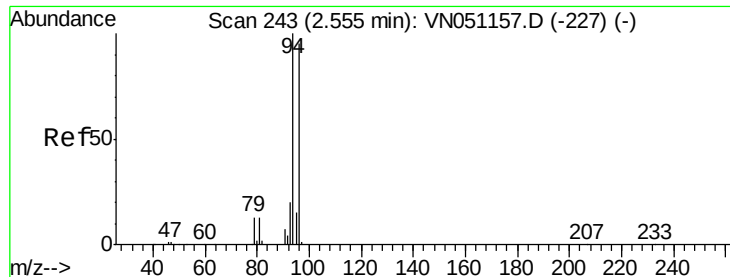
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

Instrument :

MSVOA_N

ClientSampleId :

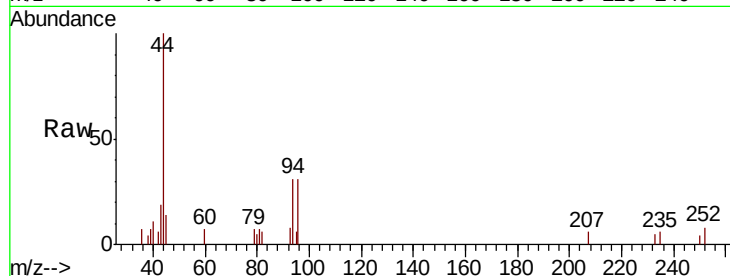
PB112829ZHE#03

Tot Ion: 94 Resp: 2701

Ion Ratio Lower Upper

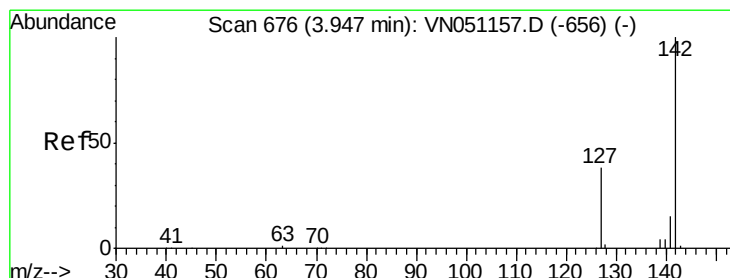
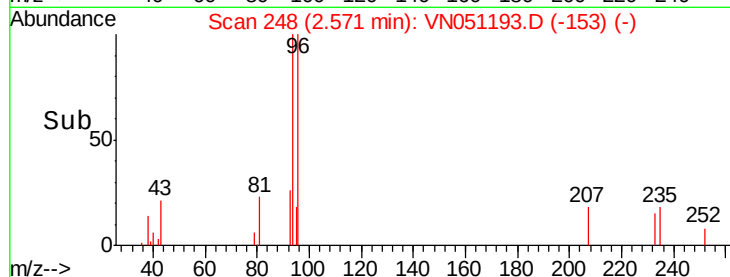
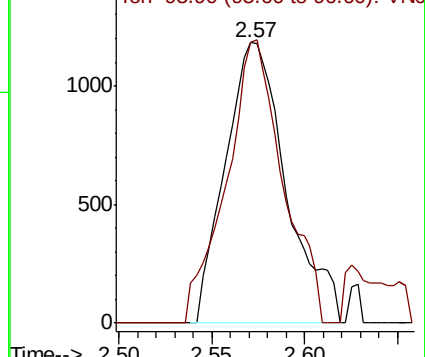
94 100

96 100.3 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN051193.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051193.D (-153) (-)



#10

Methyl Iodide

Concen: 5.66 ug/l

RT: 3.96 min Scan# 680

Delta R.T. 0.01 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

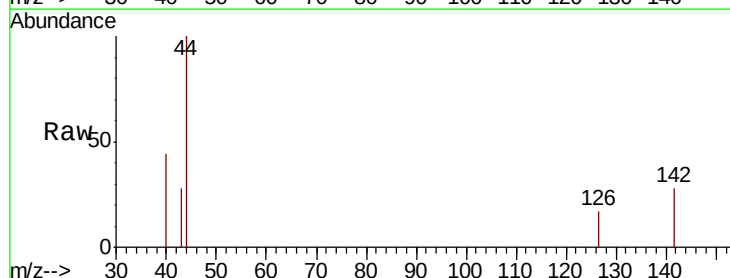
Tgt Ion: 142 Resp: 212

Ion Ratio Lower Upper

142 100

127 28.3 31.0 46.4#

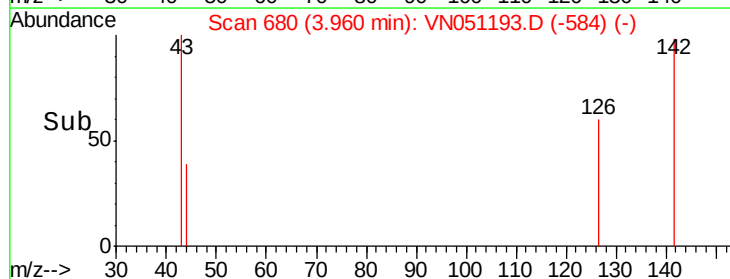
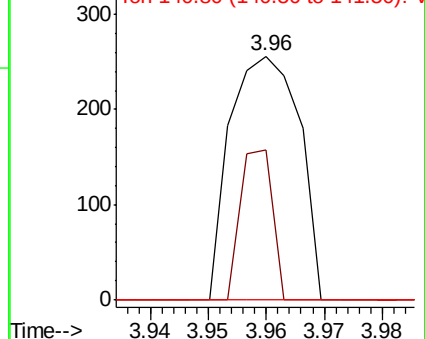
141 0.0 11.3 16.9#

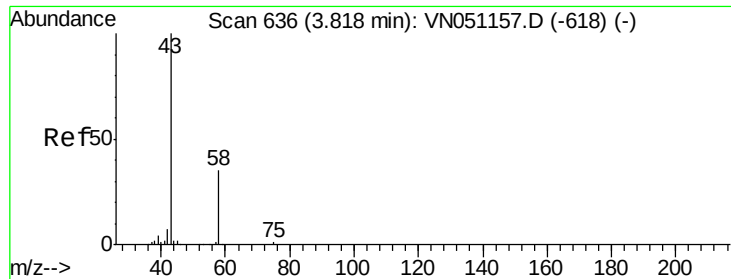


Abundance Ion 141.80 (141.50 to 142.50): VN051193.D (-584) (-)

Ion 126.80 (126.50 to 127.50): VN051193.D (-584) (-)

Ion 140.80 (140.50 to 141.50): VN051193.D (-584) (-)





#16

Acetone

Concen: 19.32 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

Instrument :

MSVOA_N

ClientSampleId :

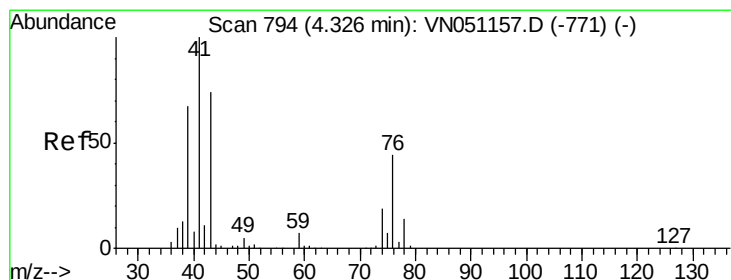
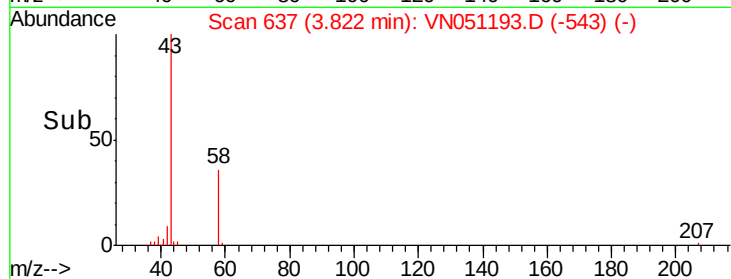
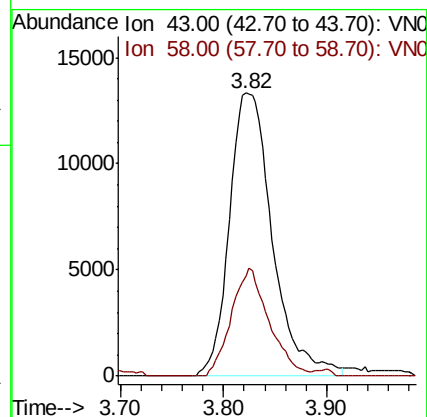
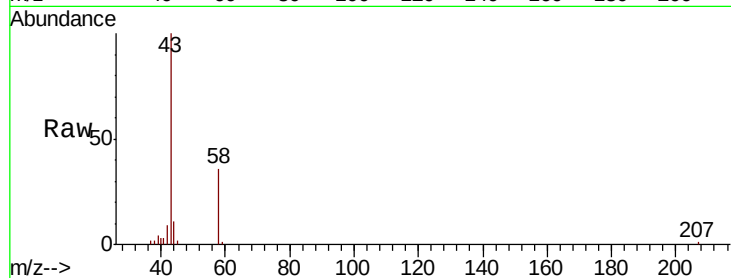
PB112829ZHE#03

Tot Ion: 43 Resp: 38744

Ion Ratio Lower Upper

43 100

58 35.6 27.8 41.6



#18

Methyl Acetate

Concen: 0.85 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN051193.D

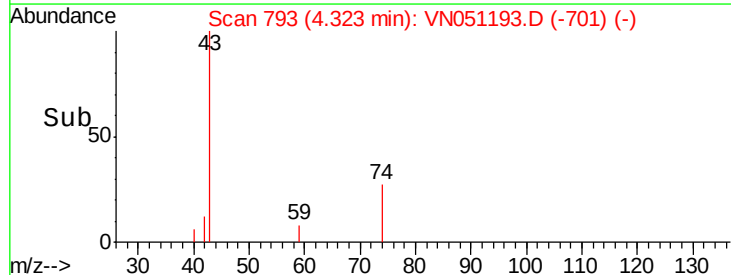
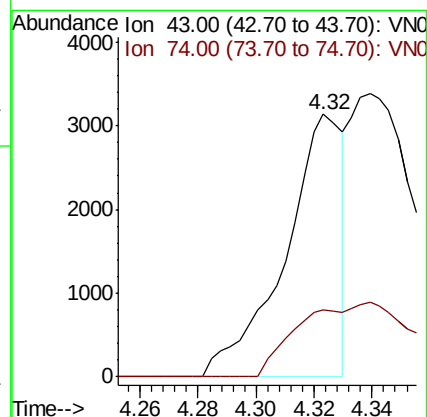
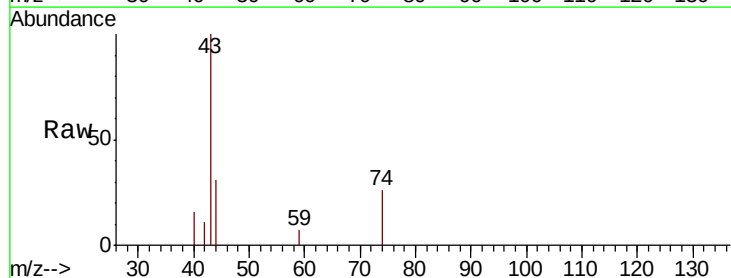
Acq: 14 Sep 2018 16:25

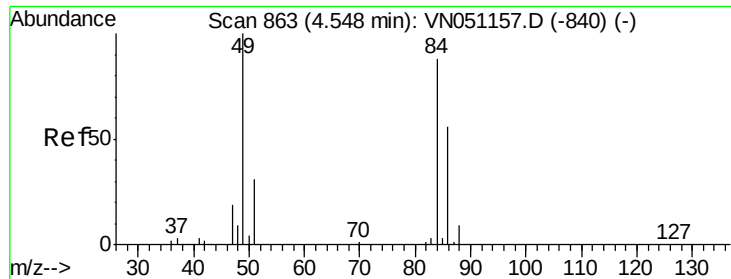
Tgt Ion: 43 Resp: 4333

Ion Ratio Lower Upper

43 100

74 24.0 20.7 31.1

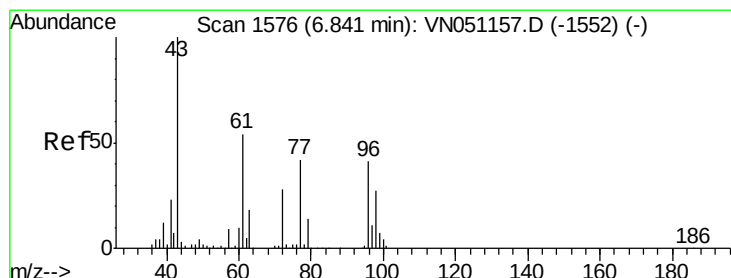
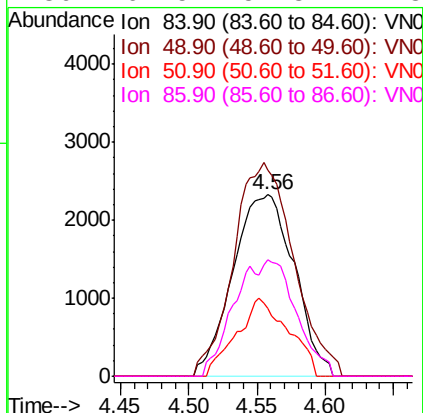
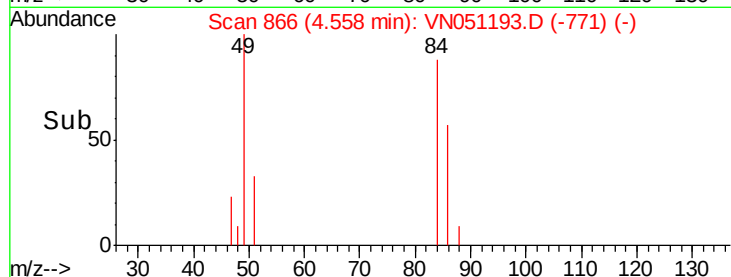
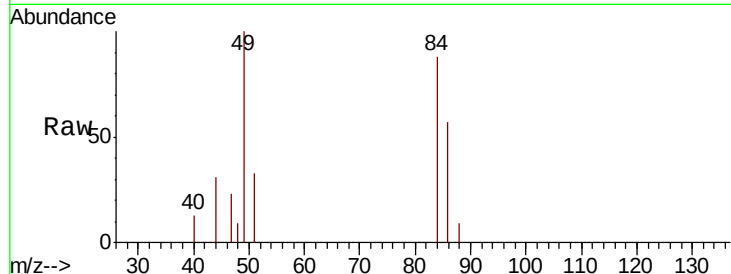




#20
Methvlene Chloride
Concen: 1.04 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

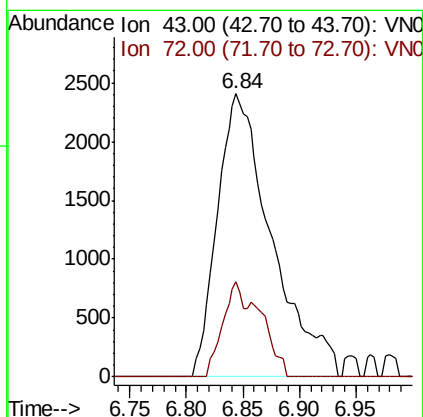
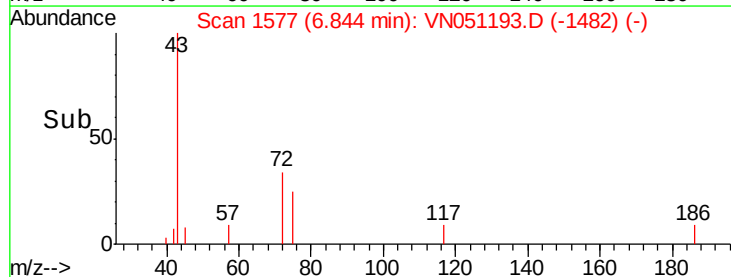
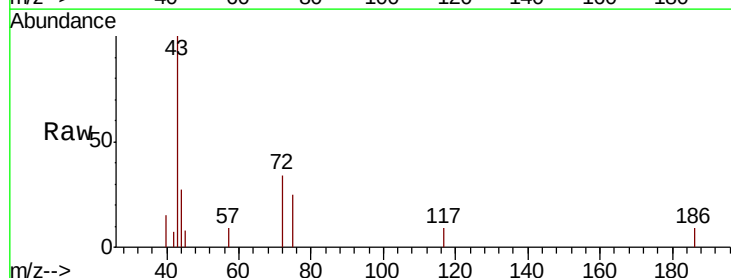
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#03

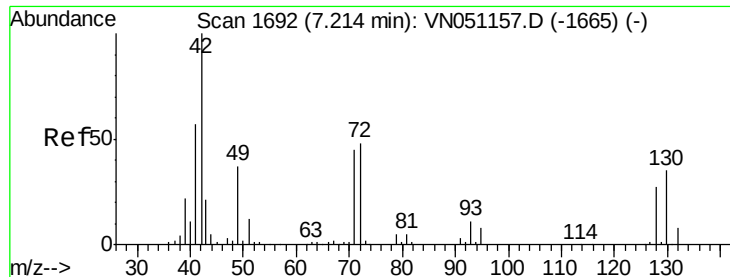
Tot Ion:	84	Resp:	7268
Ion	Ratio	Lower	Upper
84	100		
49	113.5	90.2	135.2
51	37.4	28.4	42.6
86	64.5	51.8	77.8



#25
2-Butanone
Concen: 3.22 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

Tgt Ion:	43	Resp:	8017
Ion	Ratio	Lower	Upper
43	100		
72	33.8	23.0	34.6





#29

Tetrahydrofuran

Concen: 0.95 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#03

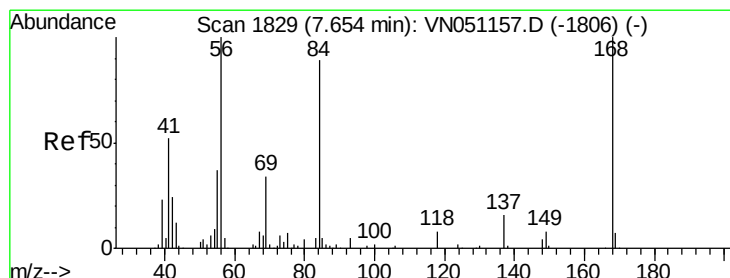
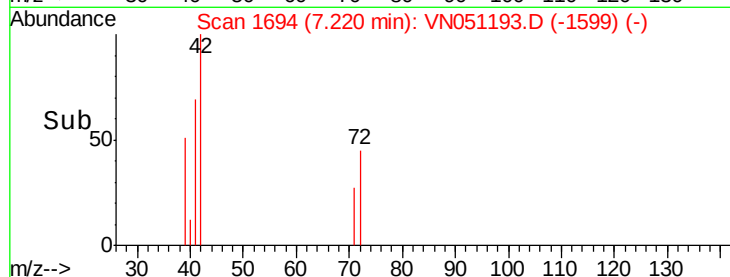
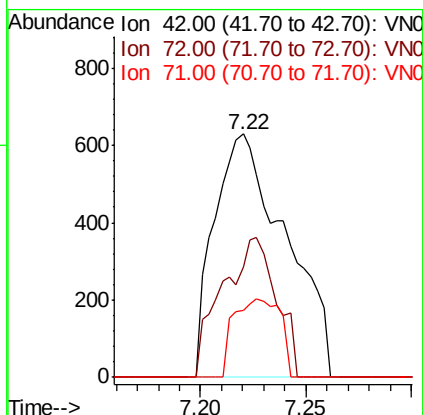
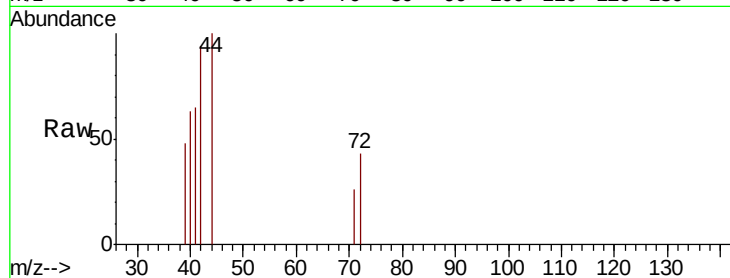
Tot Ion: 42 Resp: 1484

Ion Ratio Lower Upper

42 100

72 43.5 37.4 56.0

71 21.0 34.7 52.1#



#31

Cyclohexane

Concen: 0.65 ug/l

RT: 7.67 min Scan# 1835

Delta R.T. 0.02 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

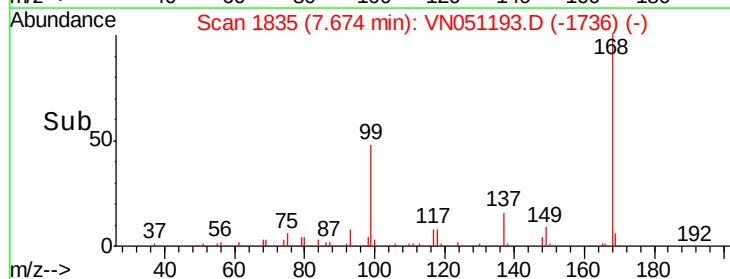
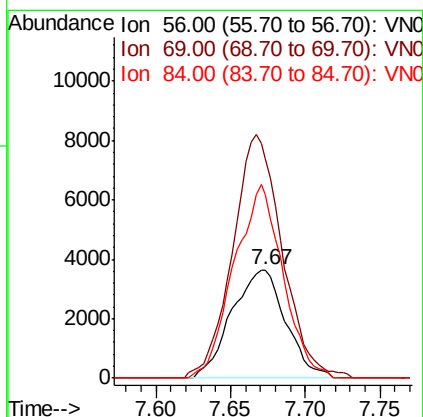
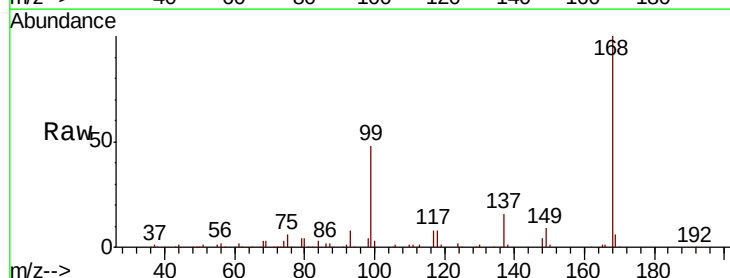
Tgt Ion: 56 Resp: 9144

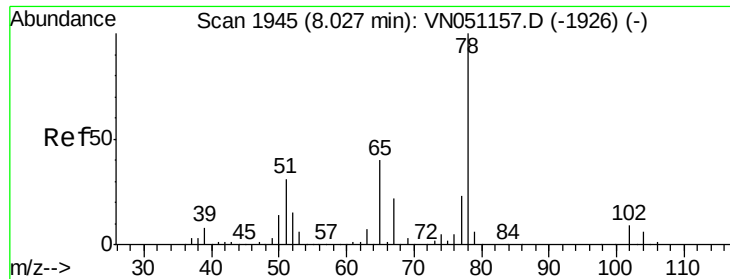
Ion Ratio Lower Upper

56 100

69 197.7 26.3 39.5#

84 168.9 69.4 104.0#

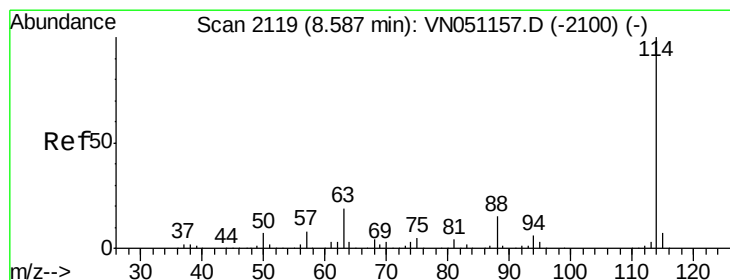
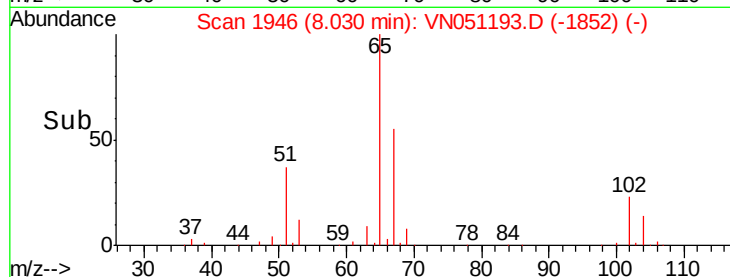
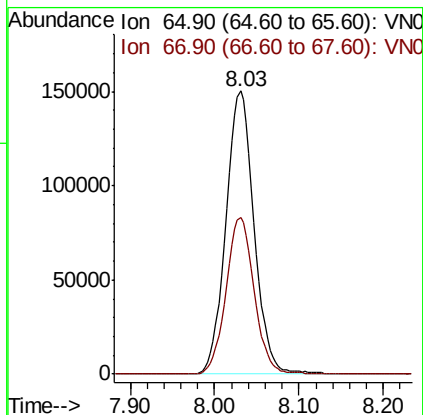
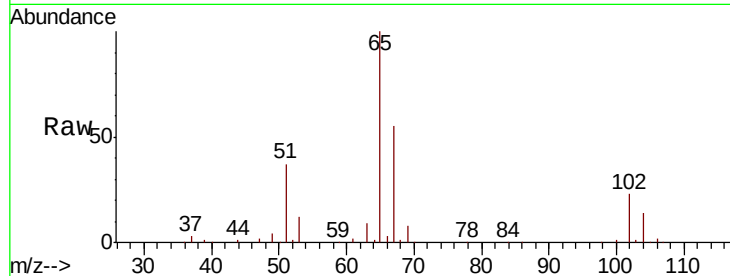




#33
 1,2-Dichloroethane-d4
 Concen: 55.07 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051193.D
 Acq: 14 Sep 2018 16:25

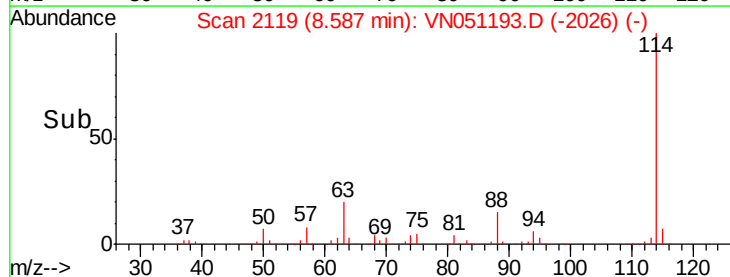
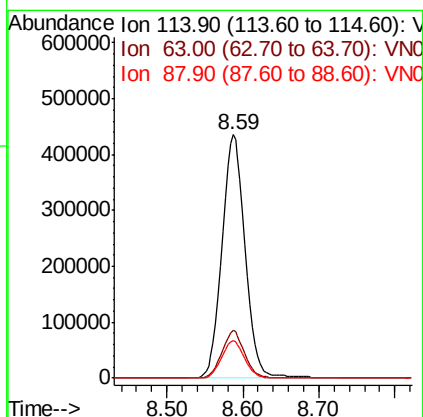
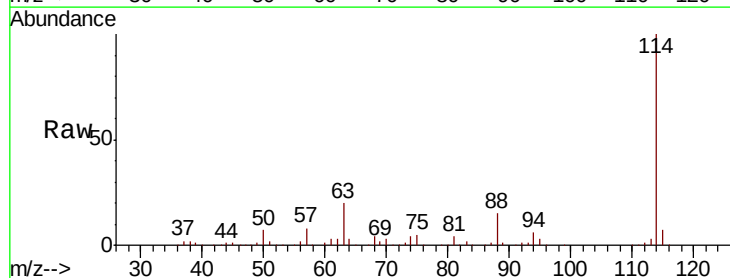
Instrument :
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 PB112829ZHE#03

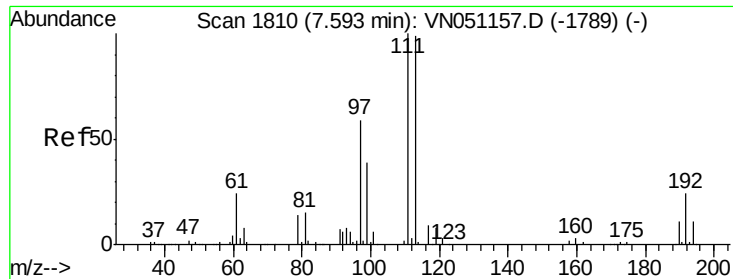
Tot Ion: 65 Resp: 349231
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051193.D
 Acq: 14 Sep 2018 16:25

Tgt Ion: 114 Resp: 921686
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 37.8
 88 15.3 0.0 30.8

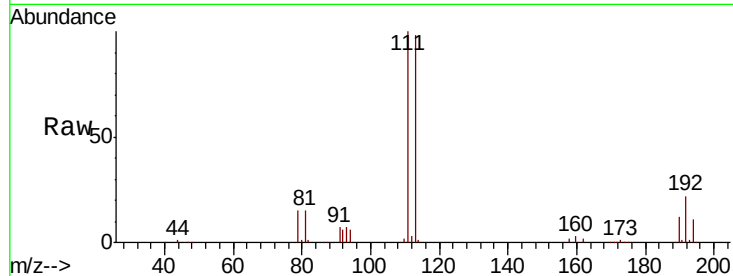




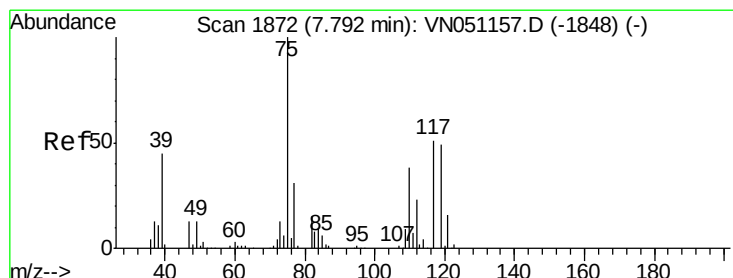
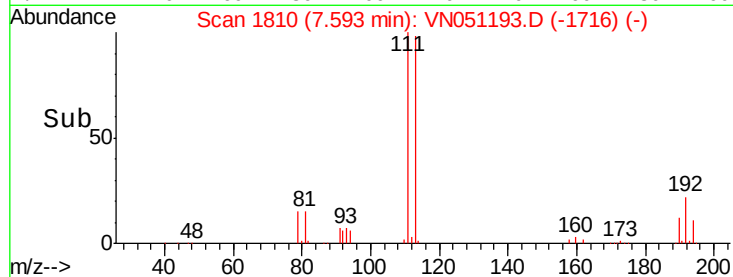
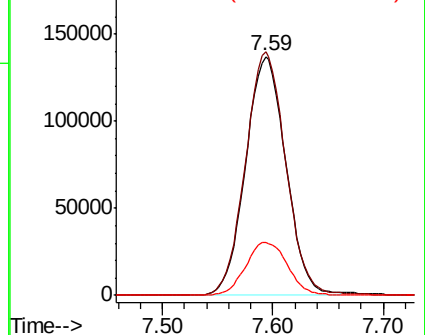
#35
 Dibromofluoromethane
 Concen: 50.14 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051193.D
 Acq: 14 Sep 2018 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#03

Tot Ion:113 Resp: 347270
 Ion Ratio Lower Upper
 113 100
 111 102.6 83.0 124.6
 192 23.1 18.7 28.1

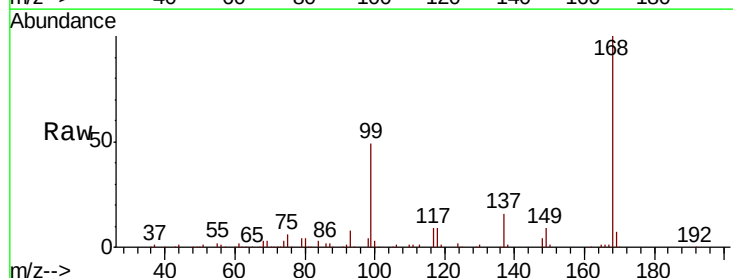


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

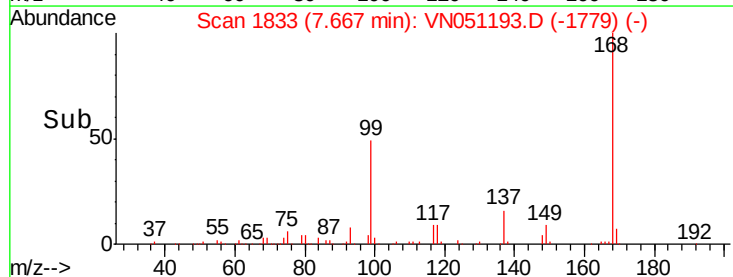
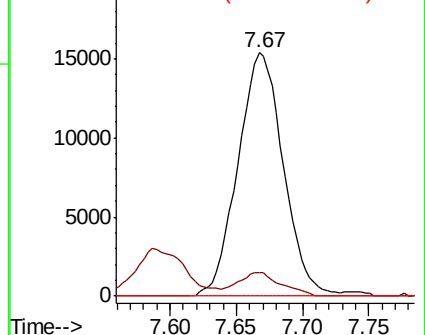


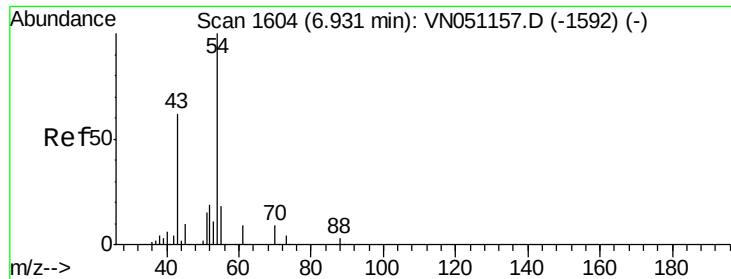
#36
 1,1-Dichloropropene
 Concen: 3.61 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051193.D
 Acq: 14 Sep 2018 16:25

Tgt Ion: 75 Resp: 36559
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.6 55.8#
 77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

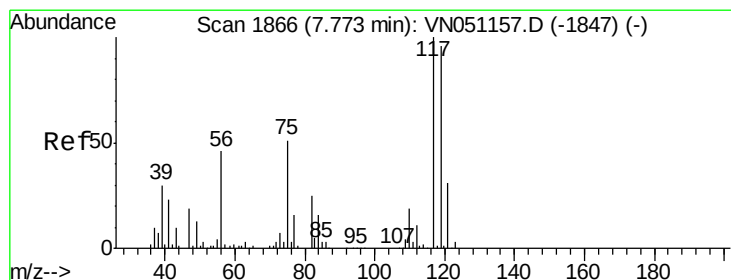
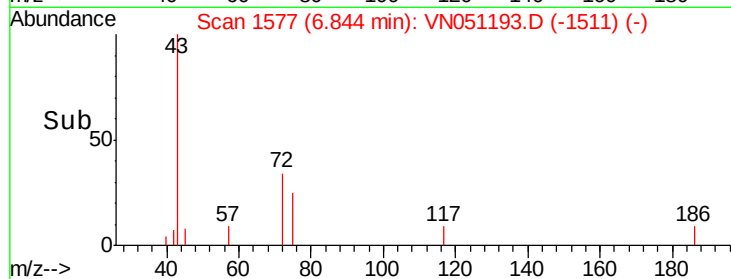
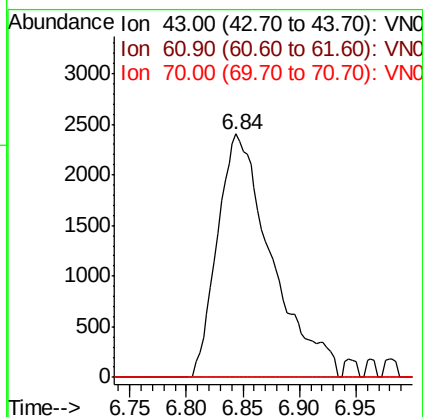
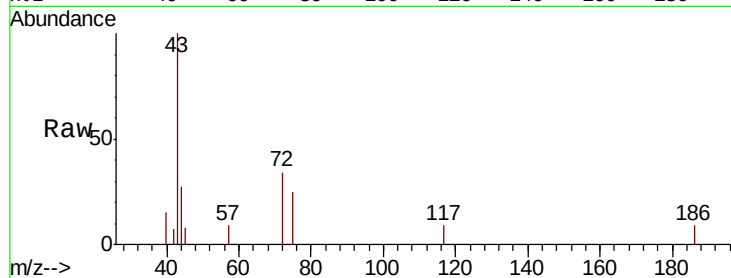




#37
Ethyl Acetate
Concen: 1.37 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. -0.09 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

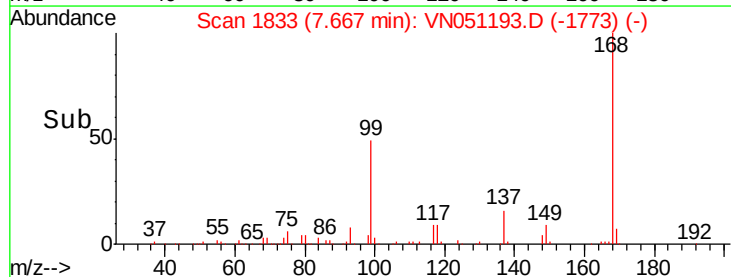
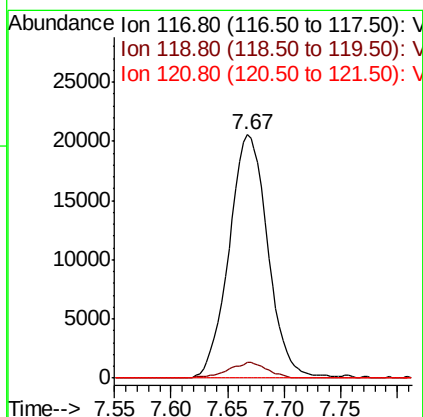
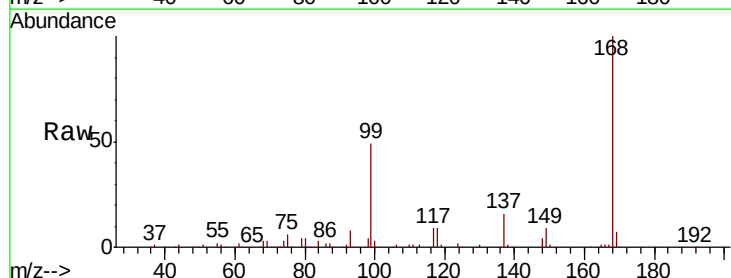
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#03

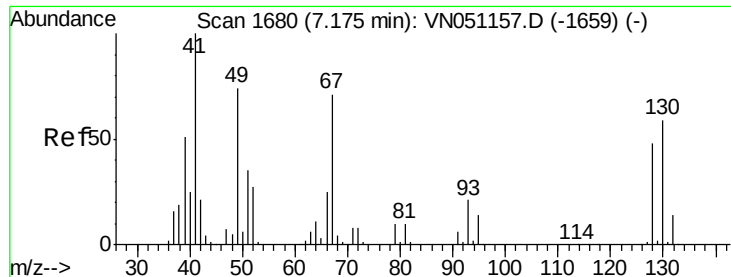
Tot Ion: 43 Resp: 8017
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 4.92 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

Tgt Ion: 117 Resp: 49043
Ion Ratio Lower Upper
117 100
119 6.3 76.8 115.2#
121 0.0 24.6 36.8#

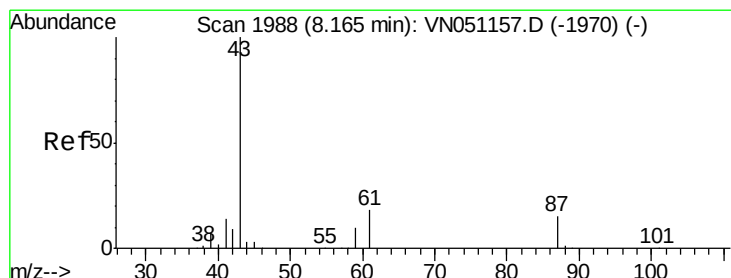
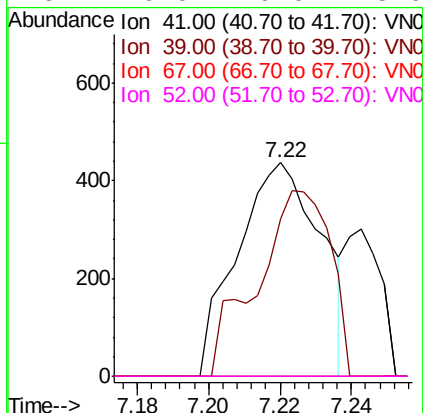
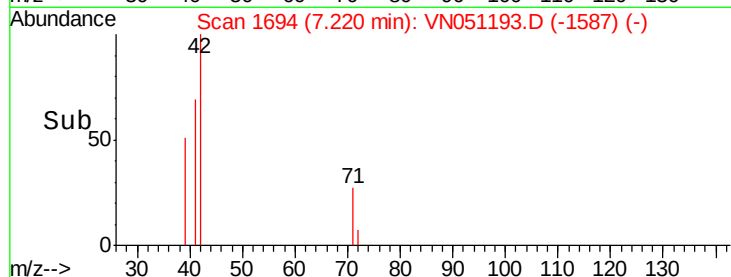
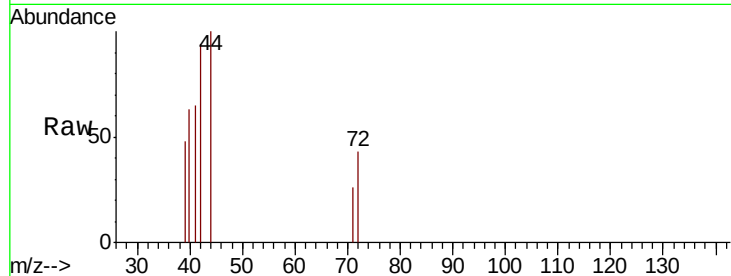




#41
Methacrylonitrile
Concen: 0.23 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.04 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

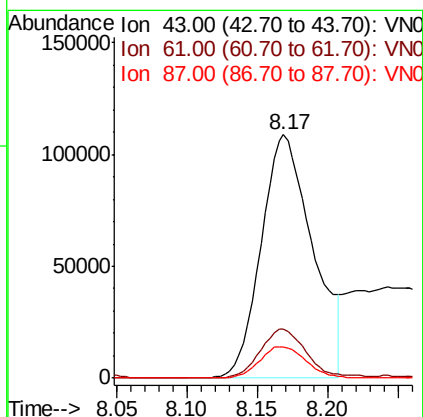
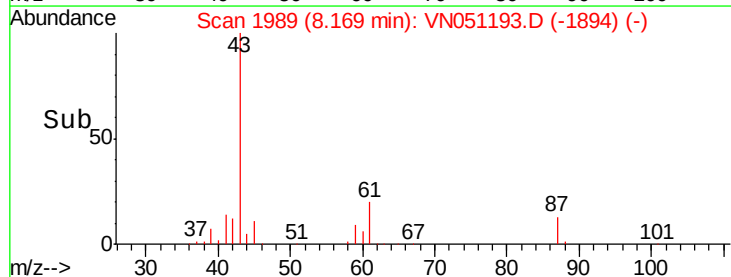
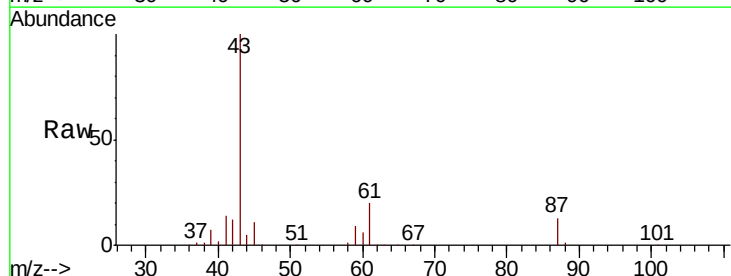
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#03

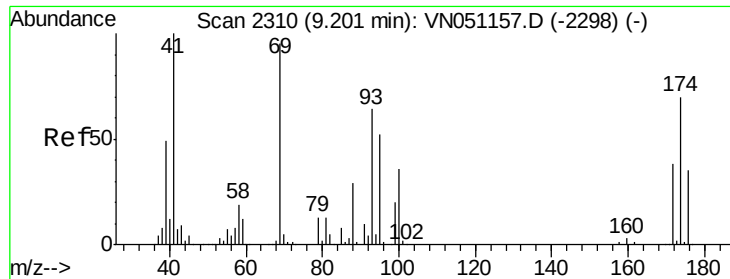
Tot Ion: 41 Resp: 707
Ion Ratio Lower Upper
41 100
39 76.4 51.3 76.9
67 0.0 78.5 117.7#
52 0.0 29.0 43.6#



#43
Isopropyl Acetate
Concen: 26.92 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

Tgt Ion: 43 Resp: 278334
Ion Ratio Lower Upper
43 100
61 18.0 25.0 37.6#
87 11.6 11.8 17.8#

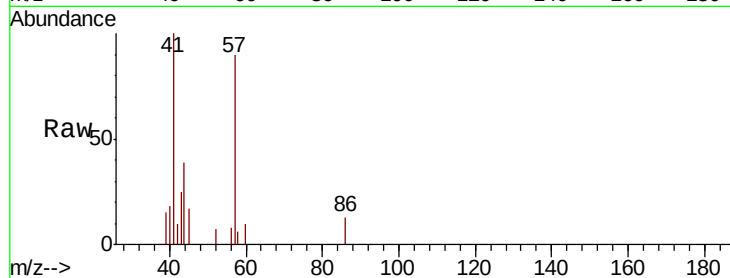




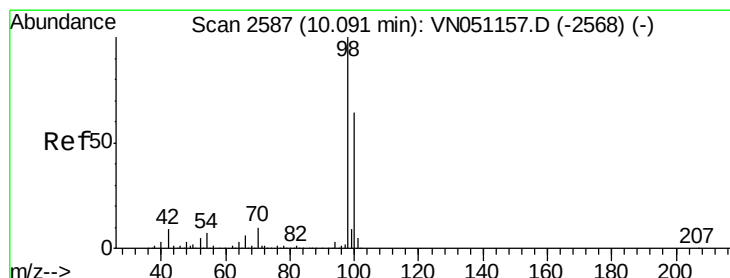
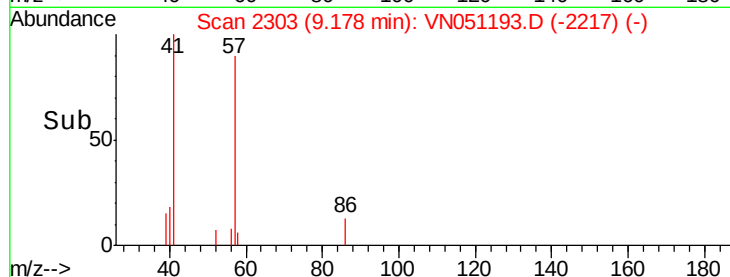
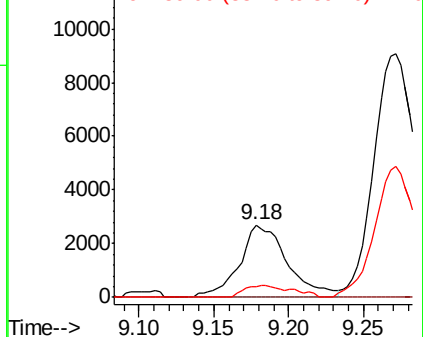
#48
Methvl methacrylate
Concen: 1.20 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#03

Tot Ion: 41 Resp: 6024
Ion Ratio Lower Upper
41 100
69 0.0 77.7 116.5#
39 16.4 41.6 62.4#

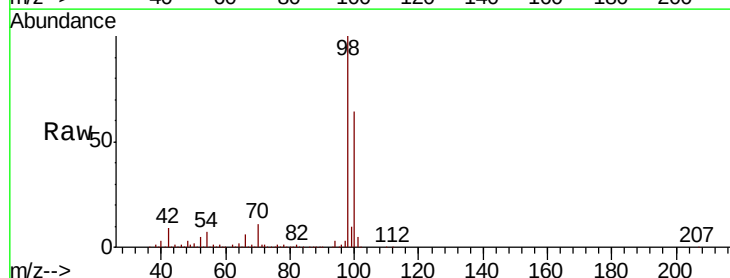


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

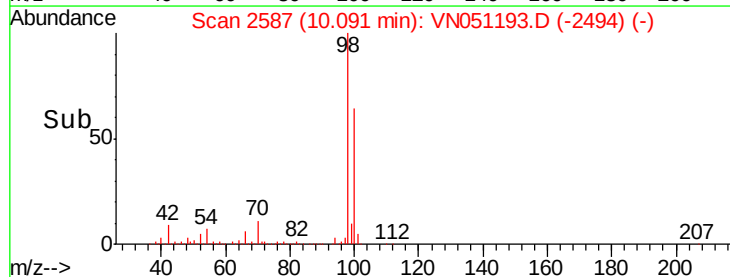
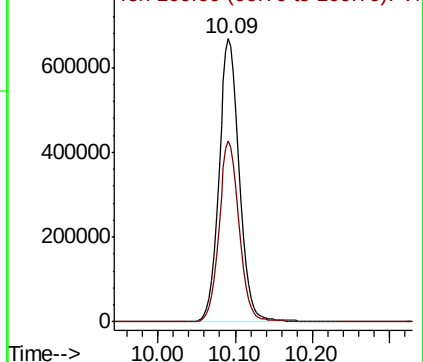


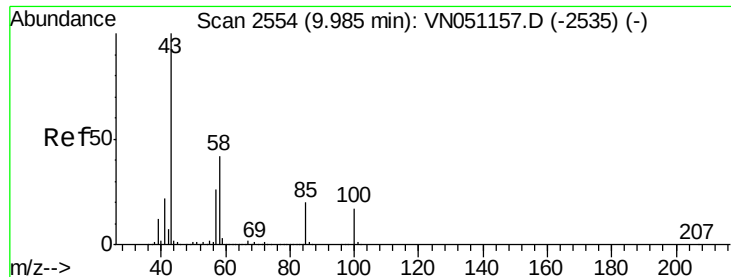
#50
Toluene-d8
Concen: 46.66 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

Tgt Ion: 98 Resp: 1226342
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0



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: 0.43 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

Instrument :

MSVOA_N

ClientSampleId :

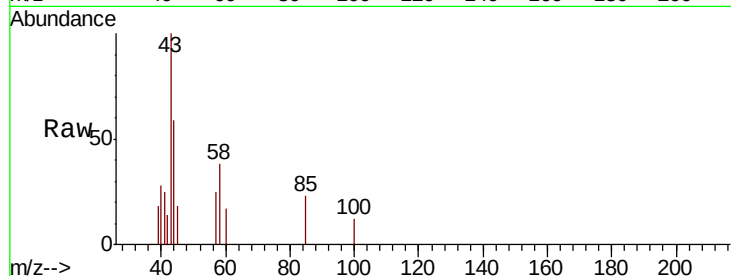
PB112829ZHE#03

Tot Ion: 43 Resp: 2453

Ion Ratio Lower Upper

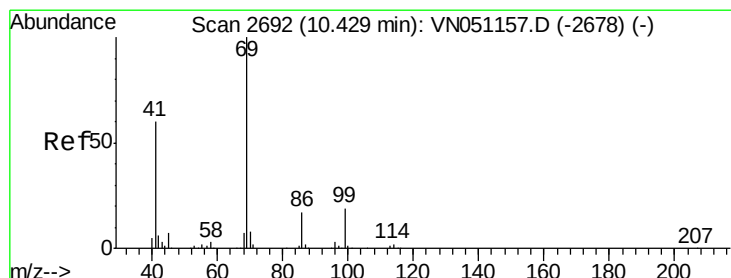
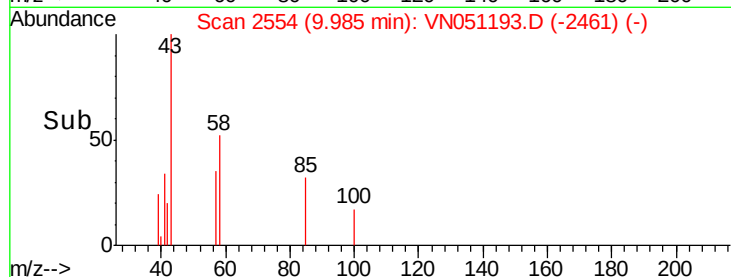
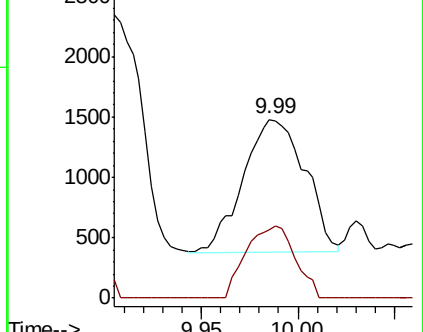
43 100

58 42.6 33.5 50.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.64 ug/l

RT: 10.23 min Scan# 2629

Delta R.T. -0.20 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

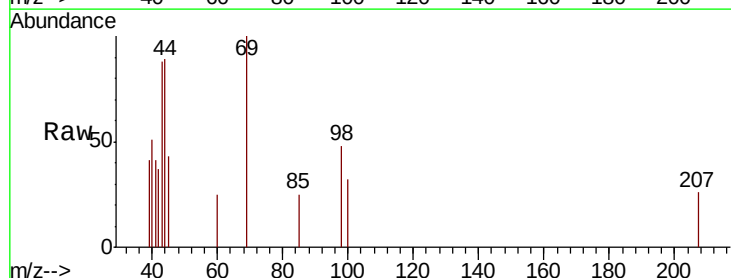
Tgt Ion: 69 Resp: 1796

Ion Ratio Lower Upper

69 100

41 19.6 47.8 71.8#

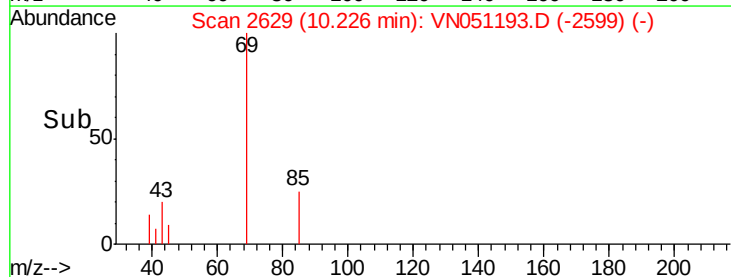
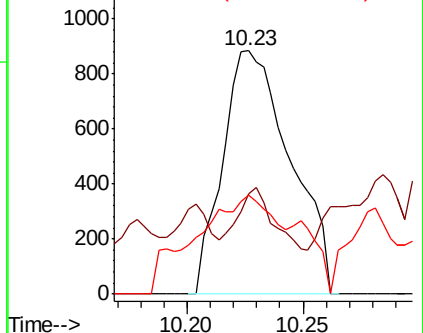
39 25.4 23.0 34.4

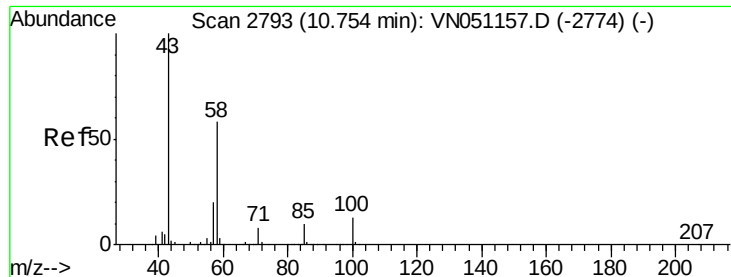


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

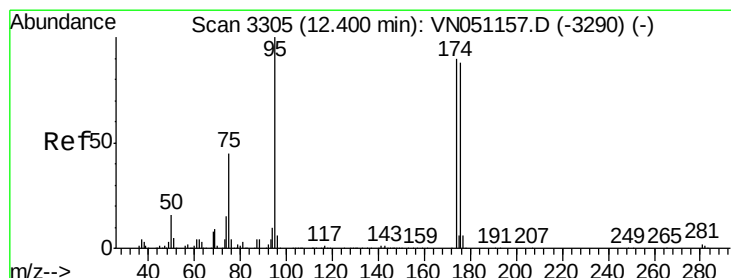
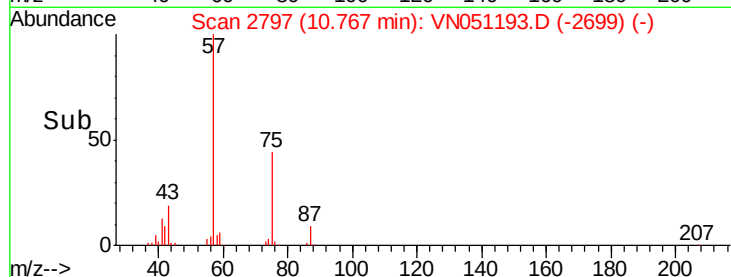
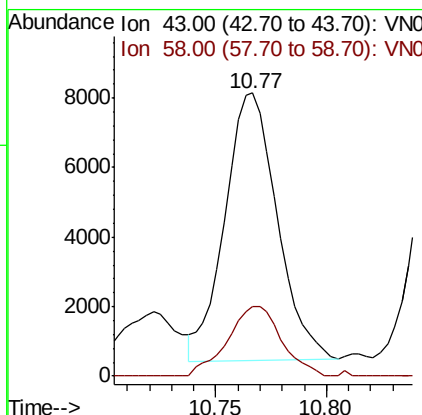
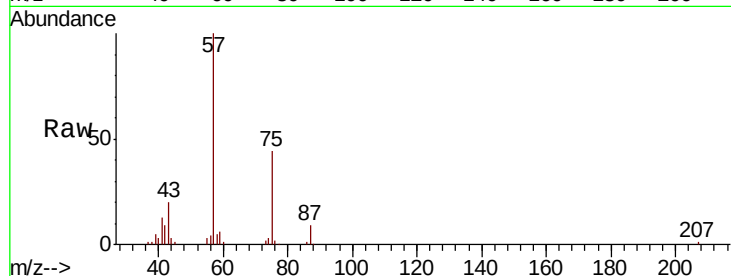




#59
2-Hexanone
Concen: 3.27 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

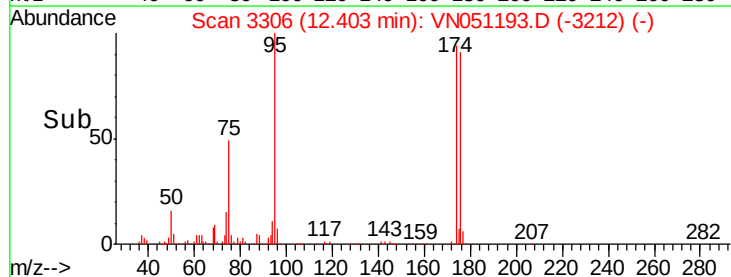
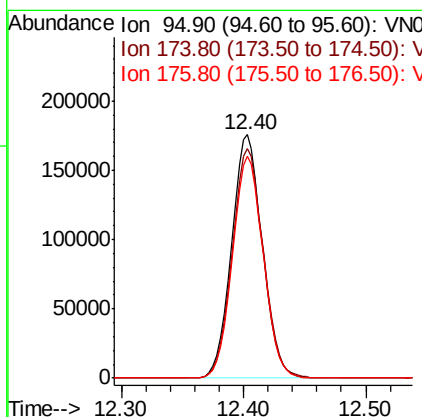
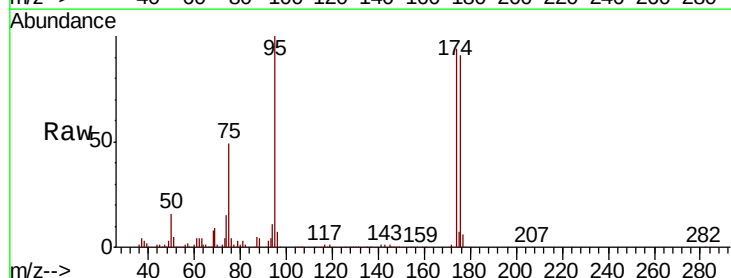
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#03

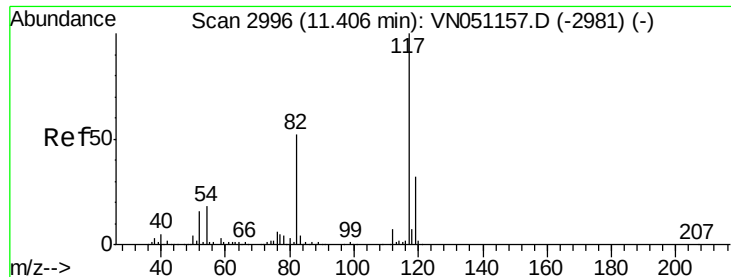
Tot Ion: 43 Resp: 12668
Ion Ratio Lower Upper
43 100
58 27.1 29.3 88.0#



#62
4-Bromofluorobenzene
Concen: 35.23 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

Tgt Ion: 95 Resp: 306308
Ion Ratio Lower Upper
95 100
174 95.5 0.0 184.8
176 91.2 0.0 178.6

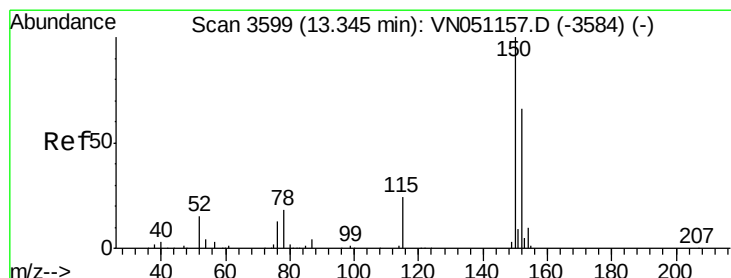
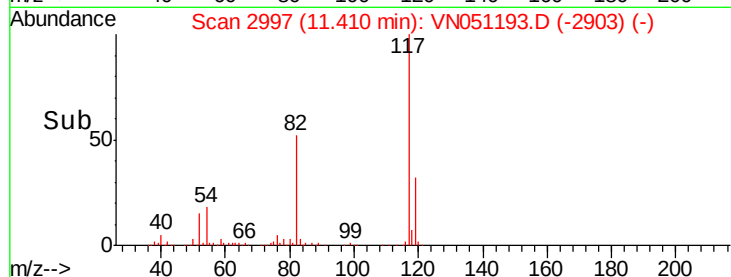
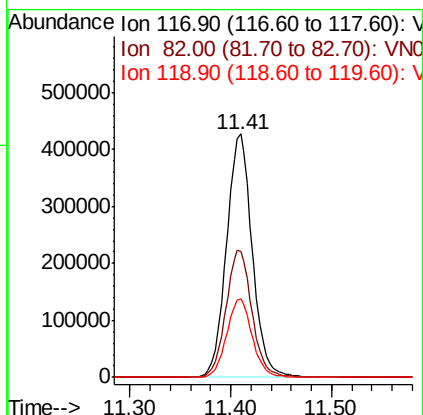
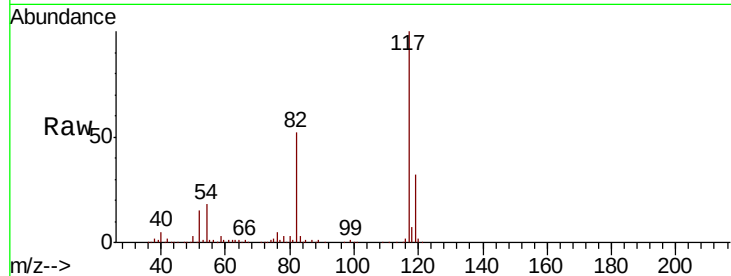




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

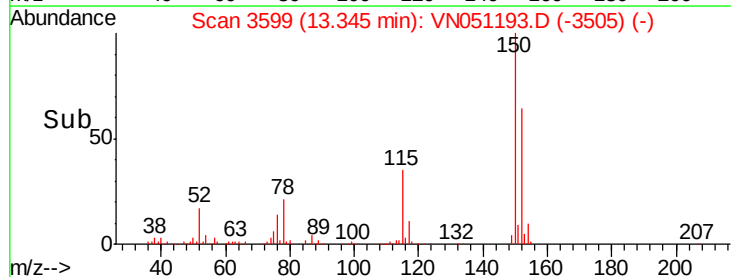
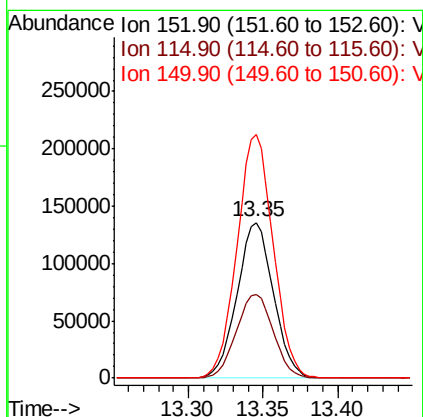
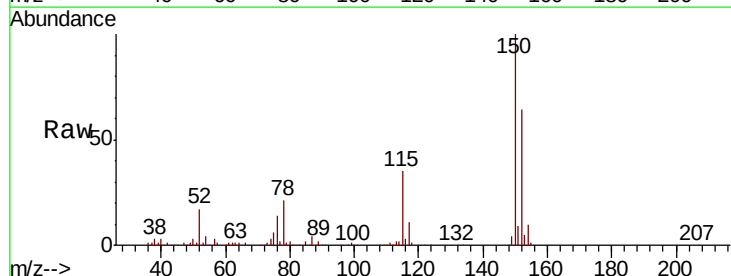
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#03

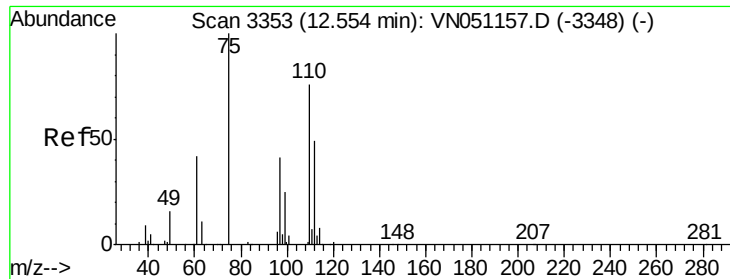
Tot Ion:117 Resp: 759684
Ion Ratio Lower Upper
117 100
82 51.9 41.8 62.6
119 32.4 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051193.D
Acq: 14 Sep 2018 16:25

Tgt Ion:152 Resp: 228774
Ion Ratio Lower Upper
152 100
115 54.9 28.2 84.7
150 156.0 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 40.83 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

Instrument :

MSVOA_N

ClientSampleId :

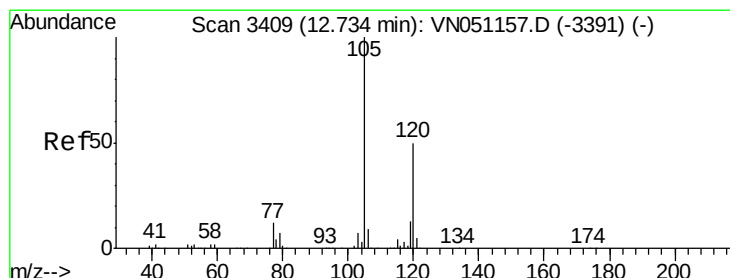
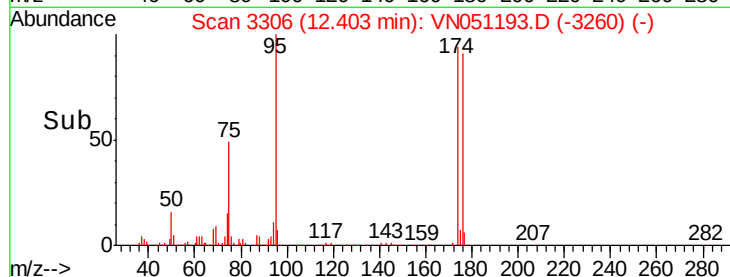
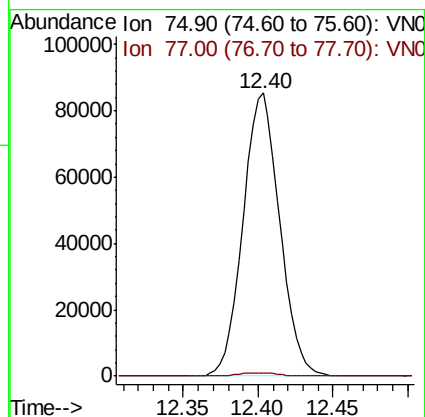
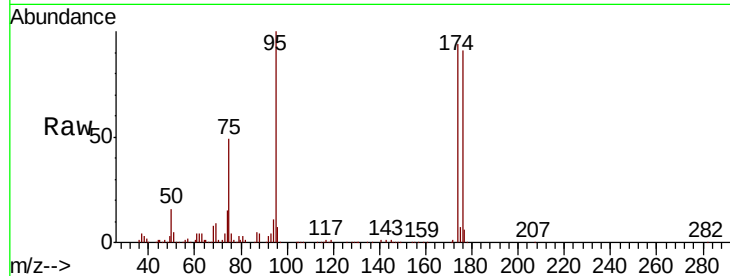
PB112829ZHE#03

Tot Ion: 75 Resp: 145791

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.27 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051193.D

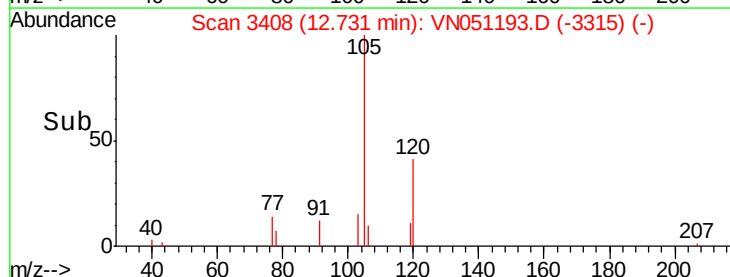
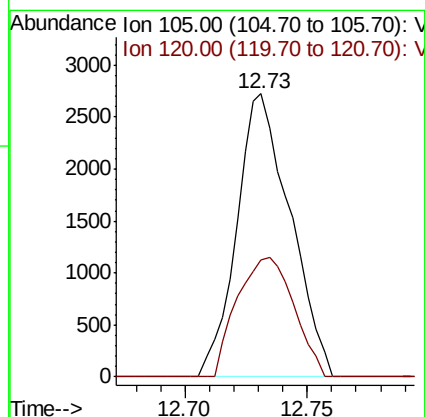
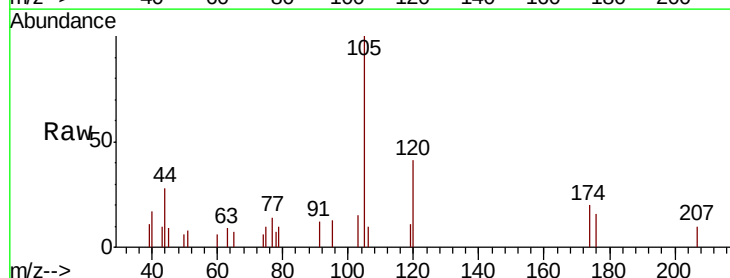
Acq: 14 Sep 2018 16:25

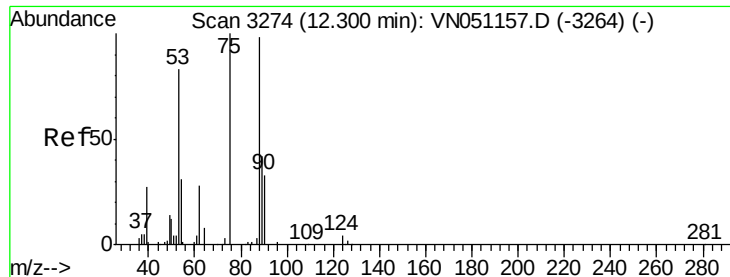
Tgt Ion: 105 Resp: 4134

Ion Ratio Lower Upper

105 100

120 44.8 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 121.03 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#03

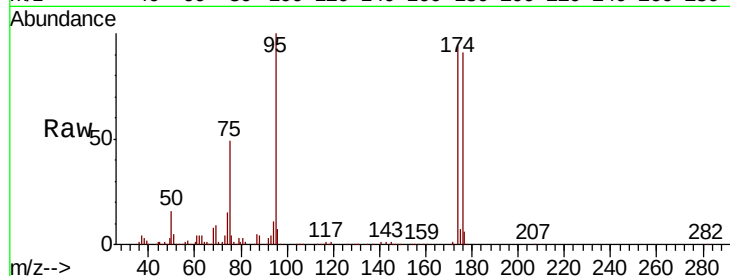
Tot Ion: 75 Resp: 145791

Ion Ratio Lower Upper

75 100

53 0.2 67.8 101.8#

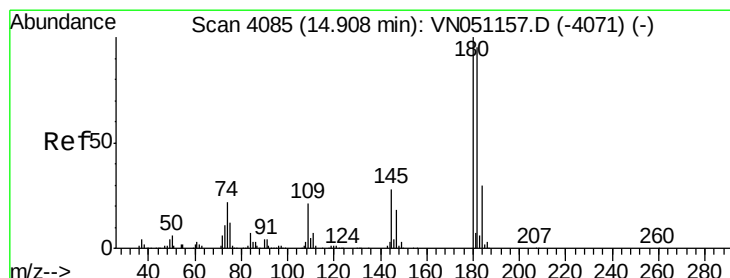
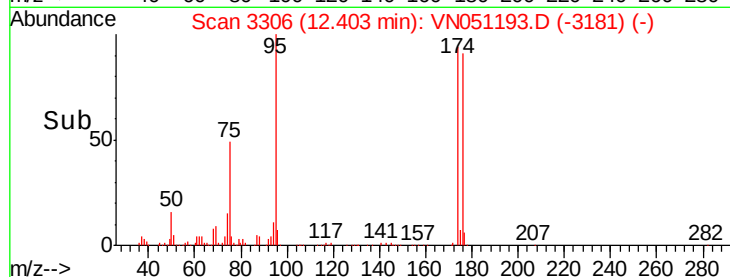
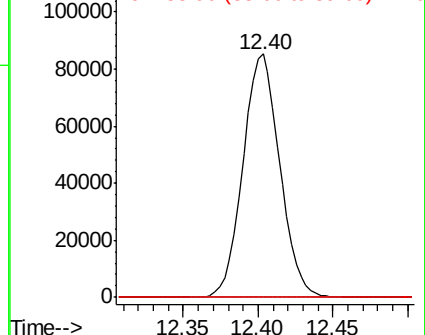
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 4.00 ug/l

RT: 14.90 min Scan# 4082

Delta R.T. -0.01 min

Lab File: VN051193.D

Acq: 14 Sep 2018 16:25

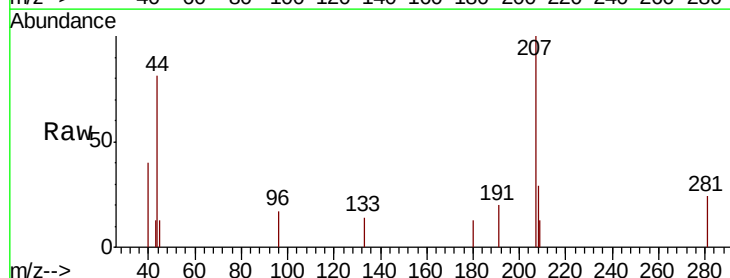
Tgt Ion: 180 Resp: 61

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.8#

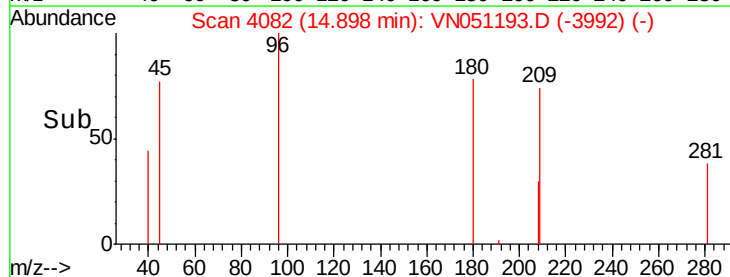
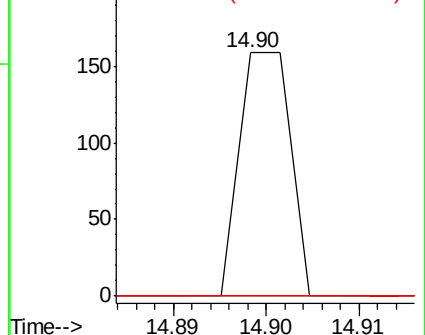
145 0.0 14.2 42.6#

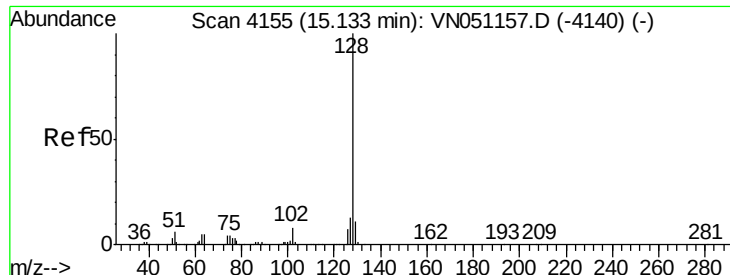


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95
 Naphthalene
 Concen: 5.37 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN051193.D
 Acq: 14 Sep 2018 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#03

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	8.6	12.8#

