

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051196.D
 Acq On : 14 Sep 2018 17:39
 Operator : MD\SY
 Sample : PB112829ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#06

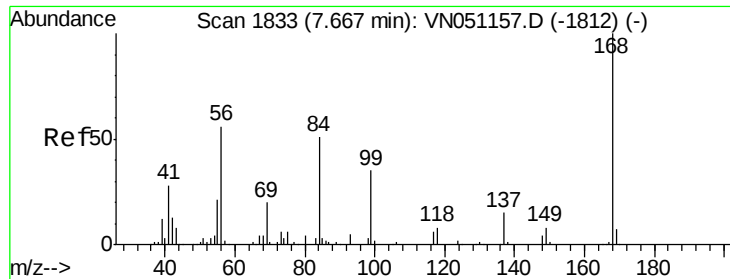
Quant Time: Sep 15 00:09:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	555262	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	899912	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	762838	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	241420	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	342668	55.45	ug/l	0.00
Spiked Amount			Recovery	=	110.90%	
35) Dibromofluoromethane	7.59	113	342661	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
50) Toluene-d8	10.09	98	1211305	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
62) 4-Bromofluorobenzene	12.40	95	318258	37.50	ug/l	0.00
Spiked Amount			Recovery	=	75.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2322	Below Cal		95
5) Bromomethane	2.57	94	2547	Below Cal	#	72
10) Methyl Iodide	3.95	142	261	5.67	ug/l #	44
16) Acetone	3.83	43	37997	19.49	ug/l	98
18) Methyl Acetate	4.34	43	14314	2.89	ug/l	96
20) Methylene Chloride	4.56	84	6885	1.01	ug/l	96
25) 2-Butanone	6.85	43	7513	3.09	ug/l #	86
29) Tetrahydrofuran	7.21	42	617	0.41	ug/l #	55
31) Cyclohexane	7.67	56	9200	0.68	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	35250	3.57	ug/l #	48
37) Ethyl Acetate	6.85	43	7513	1.31	ug/l #	66
38) Carbon Tetrachloride	7.67	117	46684	4.80	ug/l #	16
41) Methacrylonitrile	7.22	41	850	0.29	ug/l #	22
43) Isopropyl Acetate	8.17	43	311068	30.81	ug/l #	77
48) Methyl methacrylate	9.18	41	6262	1.27	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	2412	0.43	ug/l	99
56) Ethyl methacrylate	10.23	69	1599	2.63	ug/l #	60
59) 2-Hexanone	10.77	43	11575	3.06	ug/l	63
76) 1,2,3-Trichloropropane	12.40	75	147298	39.03	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3956	0.24	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	147298	115.87	ug/l #	15
95) Naphthalene	15.13	128	30	5.34	ug/l #	69

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

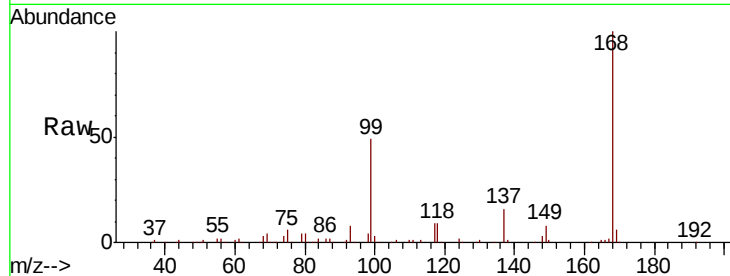


#1

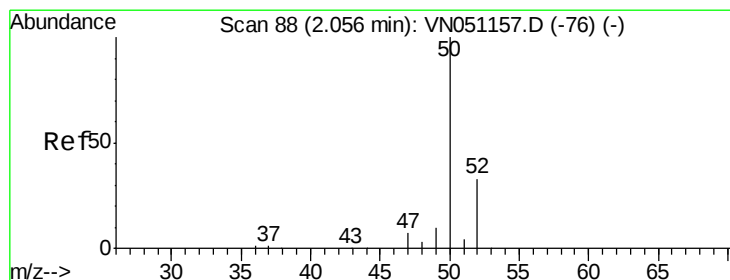
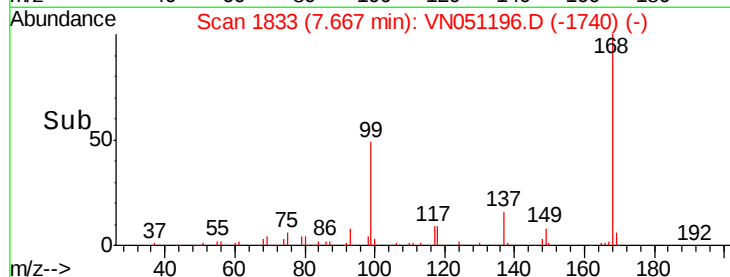
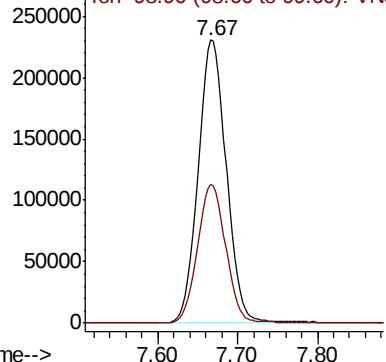
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VN051196.D
 Acq: 14 Sep 2018 17:39

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#06

Tot Ion:168 Resp: 555262
 Ion Ratio Lower Upper
 168 100
 99 49.2 38.3 57.5



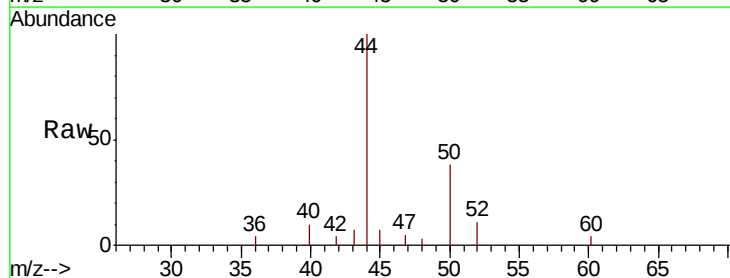
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VN



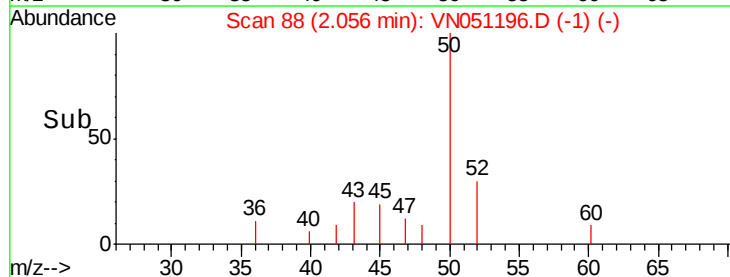
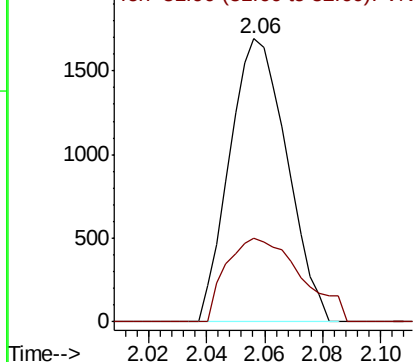
#3

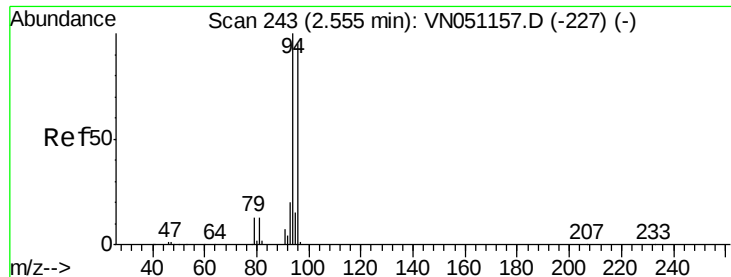
Chloromethane
 Concen: Below Cal
 RT: 2.06 min Scan# 88
 Delta R.T. 0.00 min
 Lab File: VN051196.D
 Acq: 14 Sep 2018 17:39

Tgt Ion: 50 Resp: 2322
 Ion Ratio Lower Upper
 50 100
 52 29.7 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO
 Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

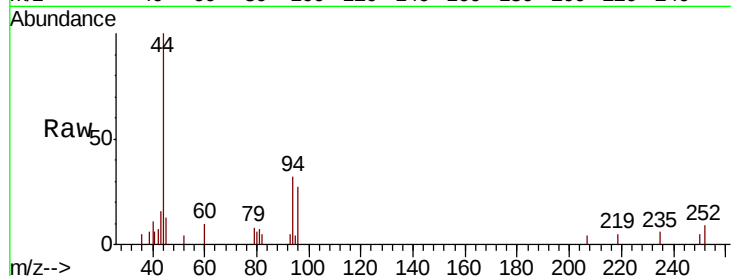
PB112829ZHE#06

Tot Ion: 94 Resp: 2547

Ion Ratio Lower Upper

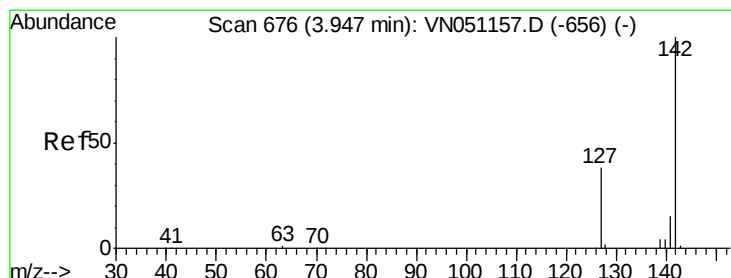
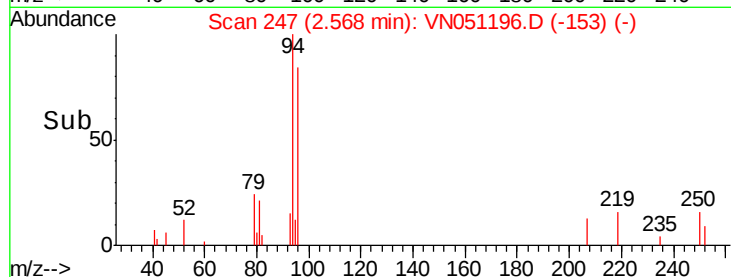
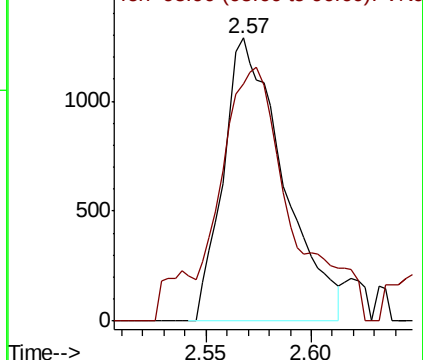
94 100

96 67.8 75.9 113.9#



Abundance Ion 93.90 (93.60 to 94.60): VN051196.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051196.D (-153) (-)



#10

Methyl Iodide

Concen: 5.67 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

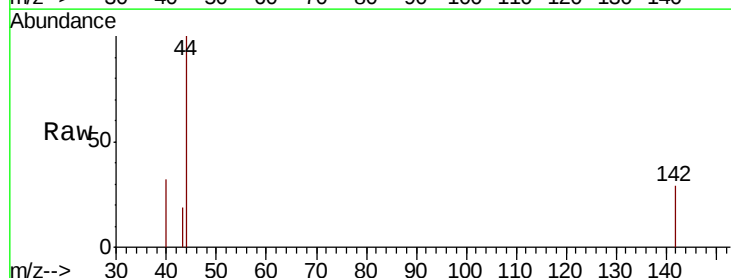
Tgt Ion: 142 Resp: 261

Ion Ratio Lower Upper

142 100

127 0.0 31.0 46.4#

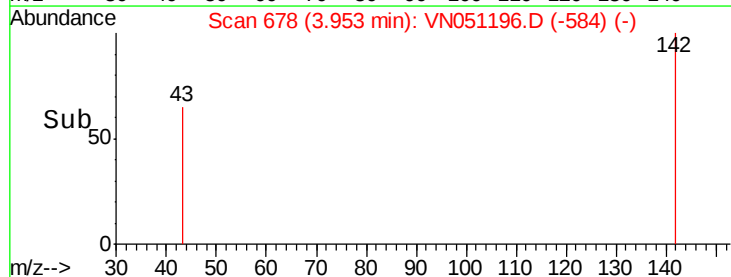
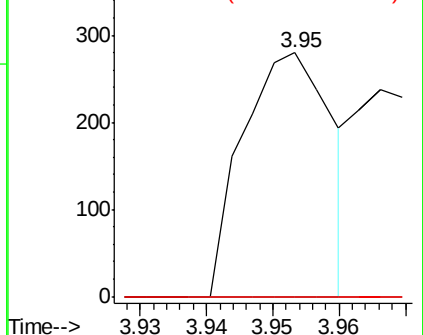
141 0.0 11.3 16.9#

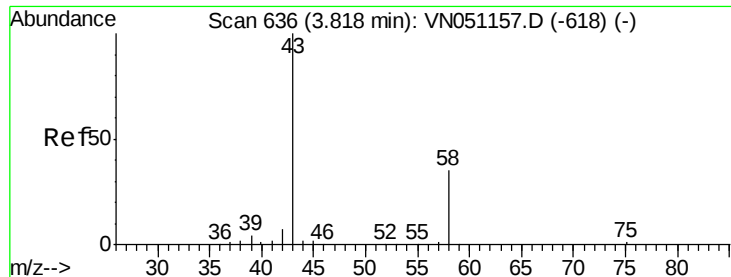


Abundance Ion 141.80 (141.50 to 142.50): VN051196.D (-584) (-)

Ion 126.80 (126.50 to 127.50): VN051196.D (-584) (-)

Ion 140.80 (140.50 to 141.50): VN051196.D (-584) (-)





#16

Acetone

Concen: 19.49 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

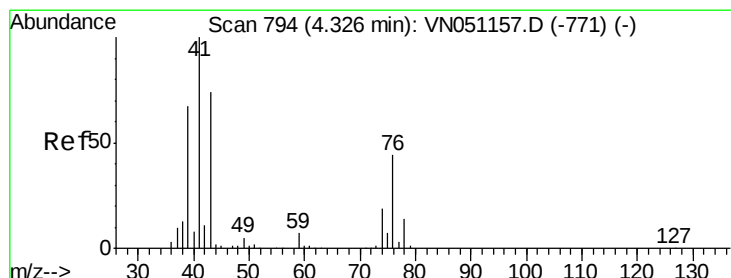
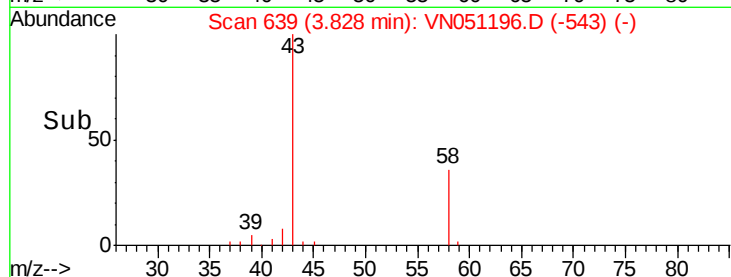
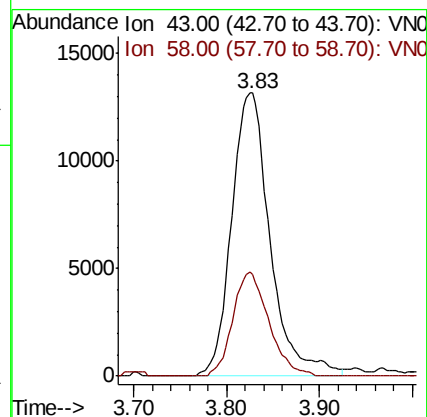
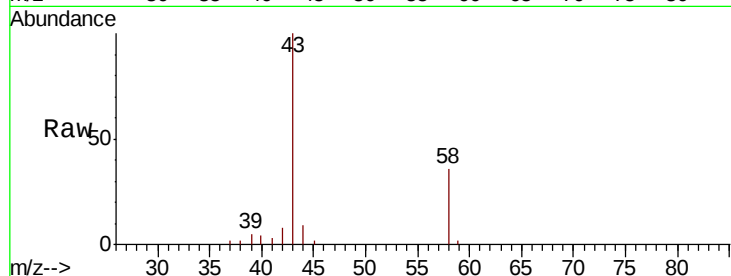
PB112829ZHE#06

Tot Ion: 43 Resp: 37997

Ion Ratio Lower Upper

43 100

58 35.8 27.8 41.6



#18

Methyl Acetate

Concen: 2.89 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051196.D

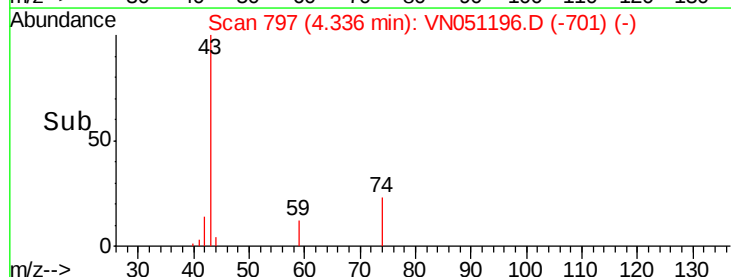
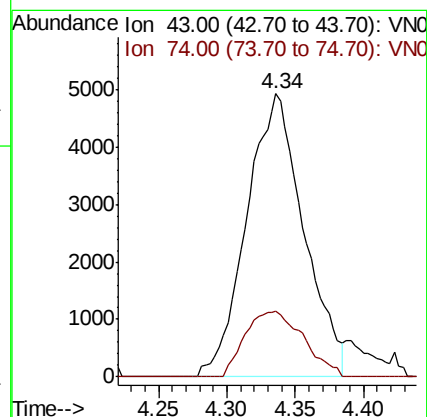
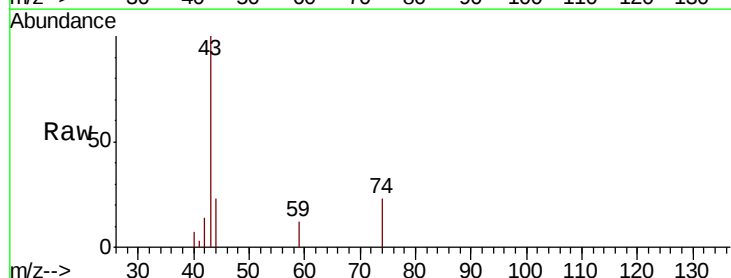
Acq: 14 Sep 2018 17:39

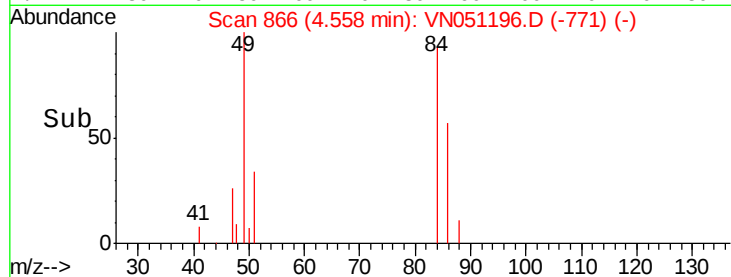
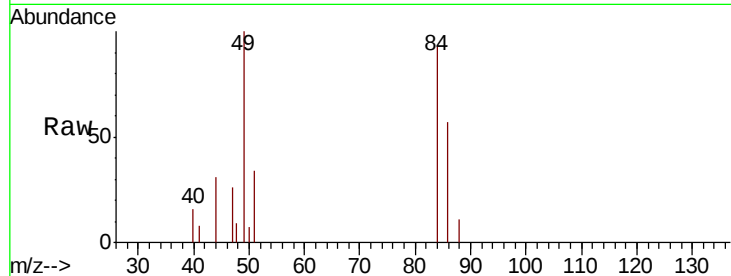
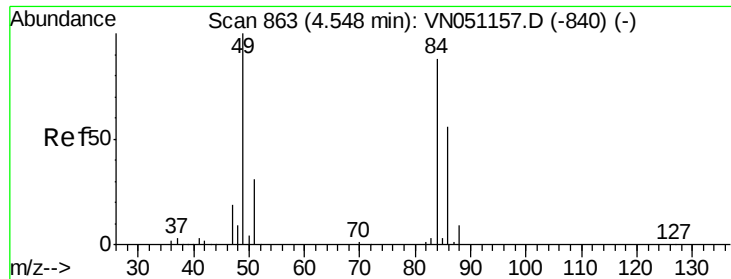
Tgt Ion: 43 Resp: 14314

Ion Ratio Lower Upper

43 100

74 23.8 20.7 31.1

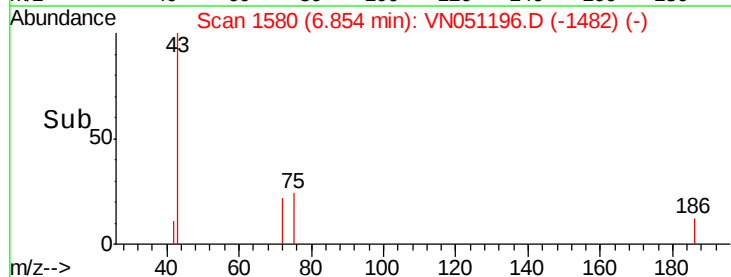
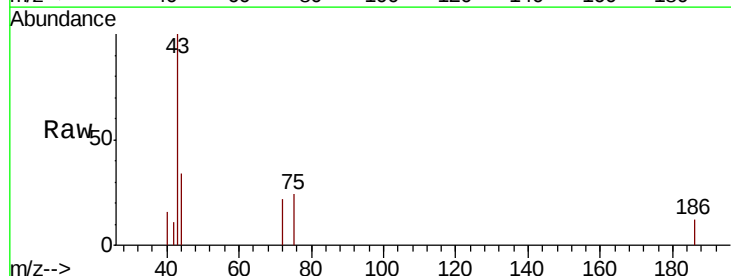
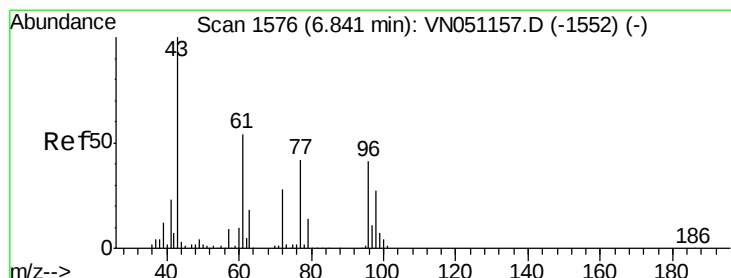
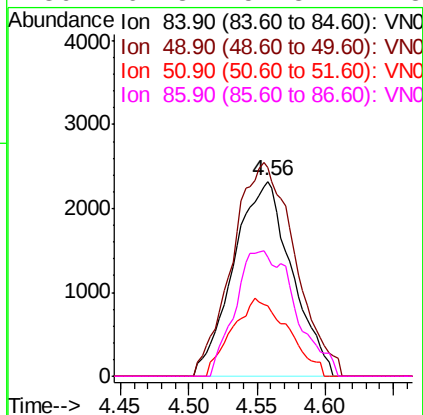




#20
Methvlene Chloride
Concen: 1.01 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

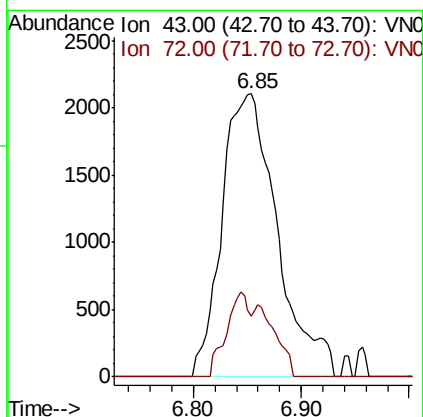
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#06

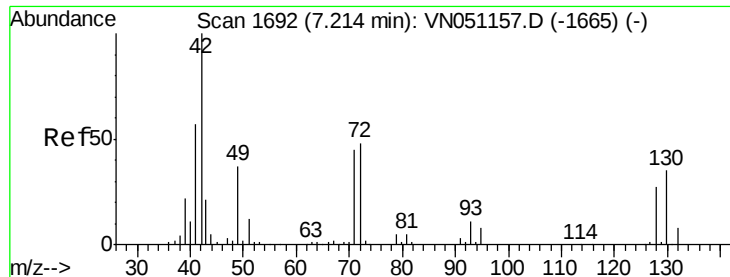
Tot Ion: 84 Resp: 6885
Ion Ratio Lower Upper
84 100
49 107.4 90.2 135.2
51 36.2 28.4 42.6
86 61.3 51.8 77.8



#25
2-Butanone
Concen: 3.09 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

Tgt Ion: 43 Resp: 7513
Ion Ratio Lower Upper
43 100
72 21.6 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.41 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#06

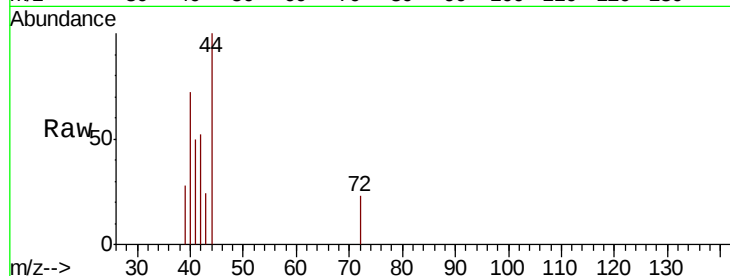
Tot Ion: 42 Resp: 617

Ion Ratio Lower Upper

42 100

72 30.3 37.4 56.0#

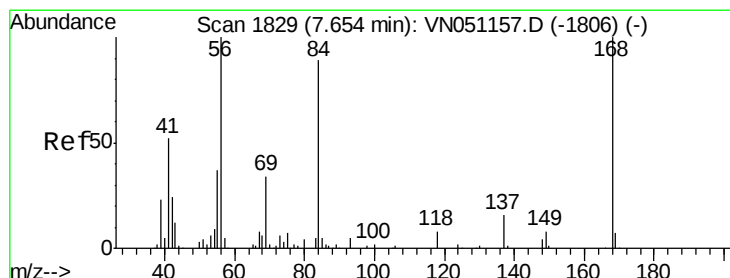
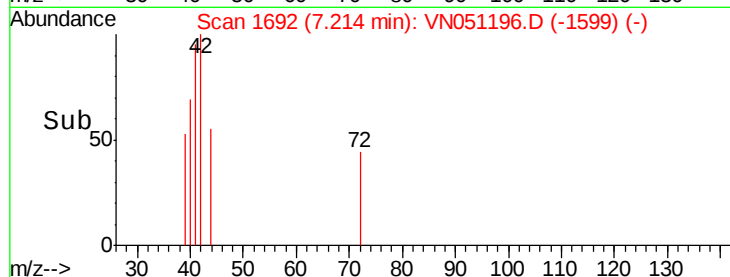
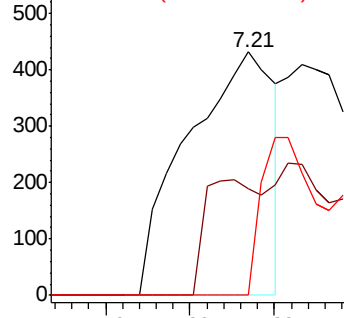
71 0.0 34.7 52.1#



Abundance Ion 42.00 (41.70 to 42.70): VN051157.D (-1665) (-)

Ion 72.00 (71.70 to 72.70): VN051157.D (-1665) (-)

Ion 71.00 (70.70 to 71.70): VN051157.D (-1665) (-)



#31

Cyclohexane

Concen: 0.68 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

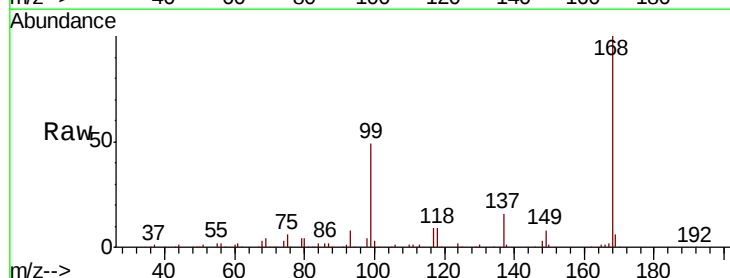
Tgt Ion: 56 Resp: 9200

Ion Ratio Lower Upper

56 100

69 196.4 26.3 39.5#

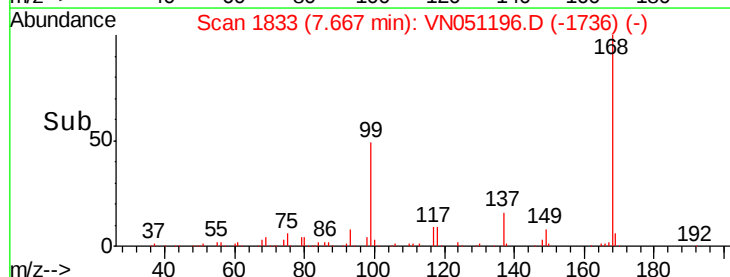
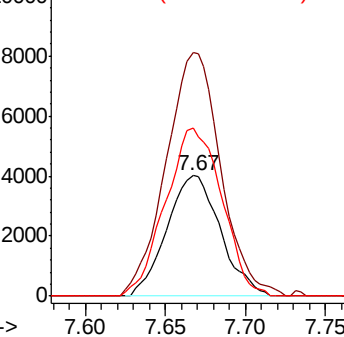
84 139.4 69.4 104.0#

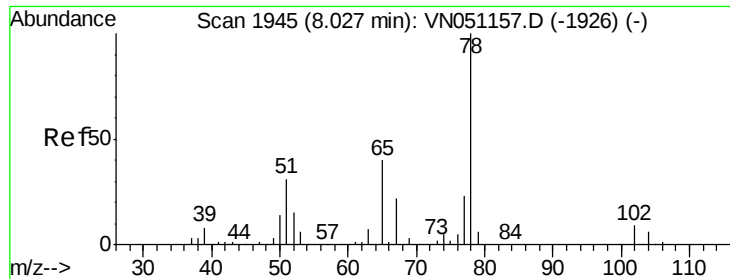


Abundance Ion 56.00 (55.70 to 56.70): VN051157.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN051157.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN051157.D (-1806) (-)

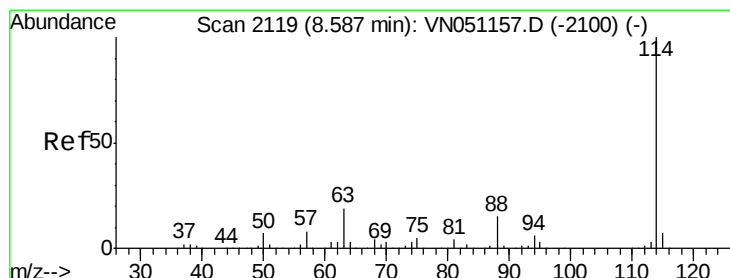
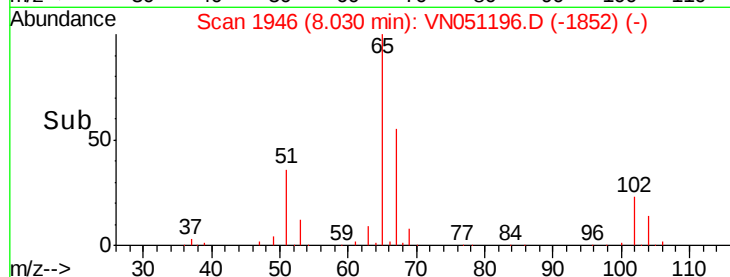
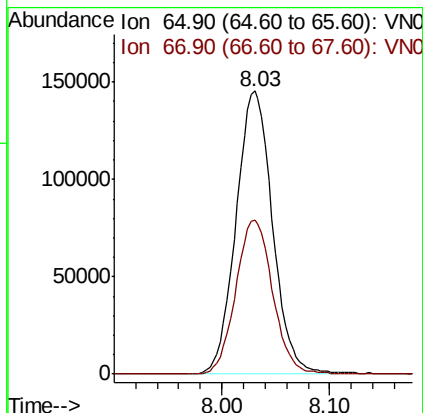
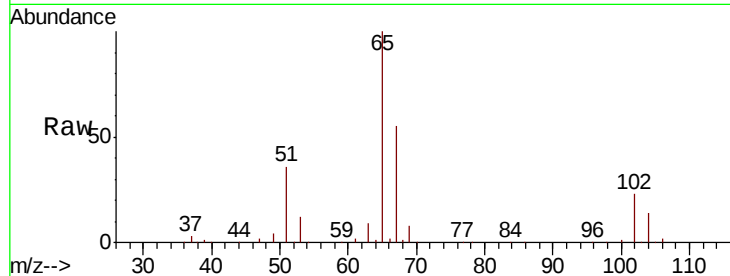




#33
 1,2-Dichloroethane-d4
 Concen: 55.45 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051196.D
 Acq: 14 Sep 2018 17:39

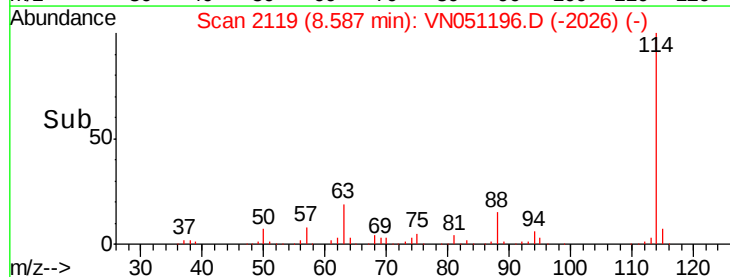
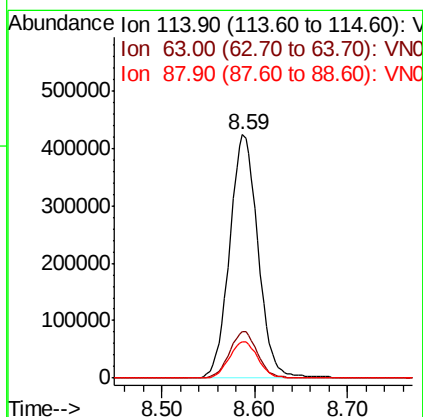
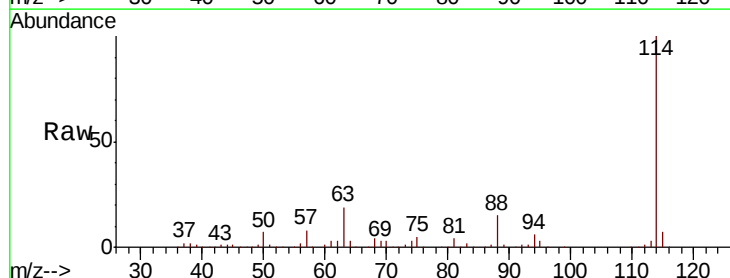
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#06

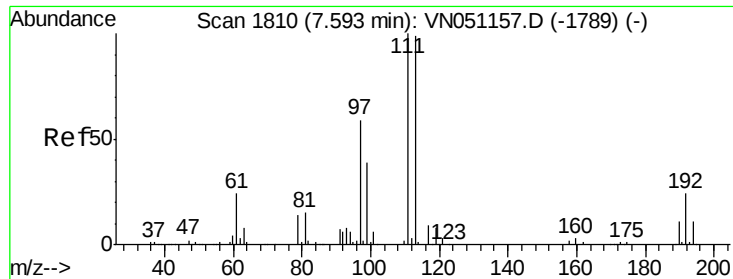
Tot Ion: 65 Resp: 342668
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051196.D
 Acq: 14 Sep 2018 17:39

Tgt Ion:114 Resp: 899912
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 37.8
 88 15.0 0.0 30.8

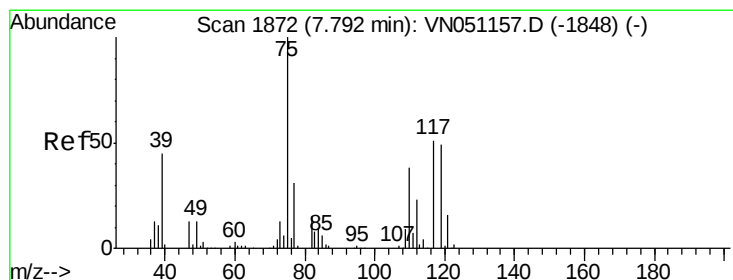
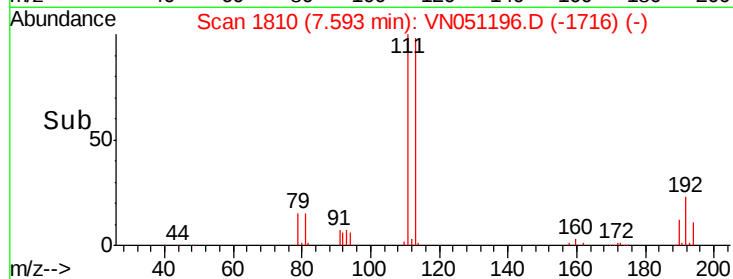
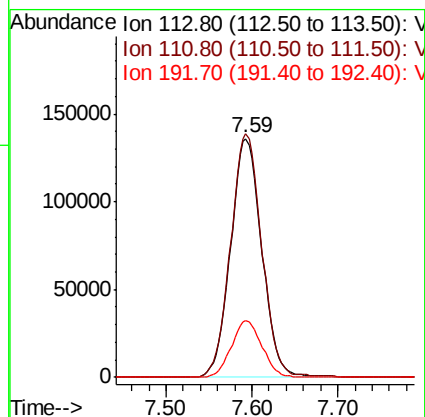
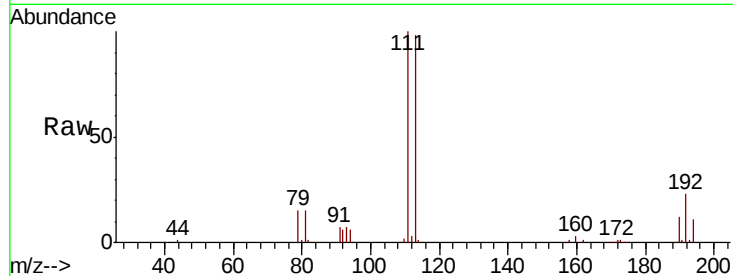




#35
 Dibromofluoromethane
 Concen: 50.67 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051196.D
 Acq: 14 Sep 2018 17:39

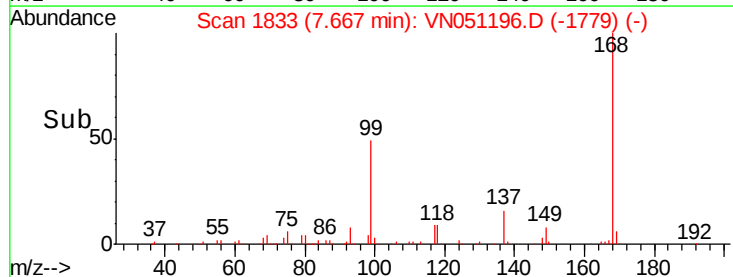
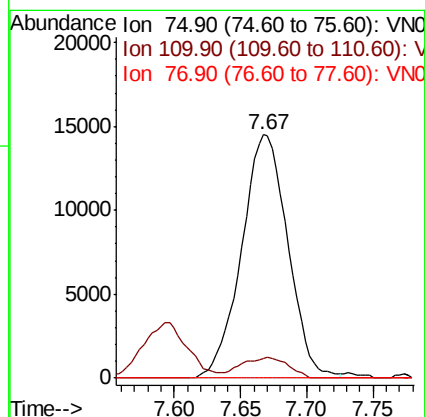
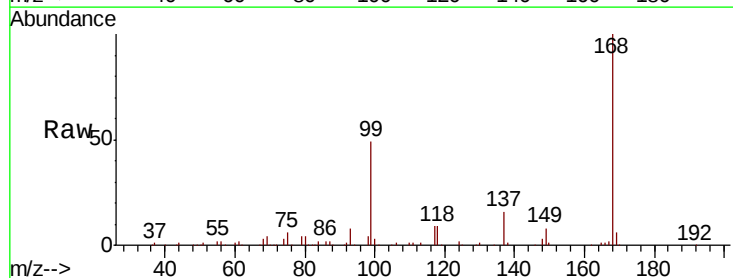
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#06

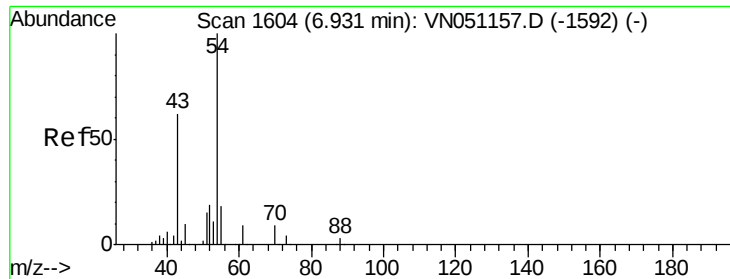
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	83.0	124.6
192	23.4	18.7	28.1



#36
 1,1-Dichloropropene
 Concen: 3.57 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051196.D
 Acq: 14 Sep 2018 17:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.6	55.8#
77	0.0	25.2	37.8#

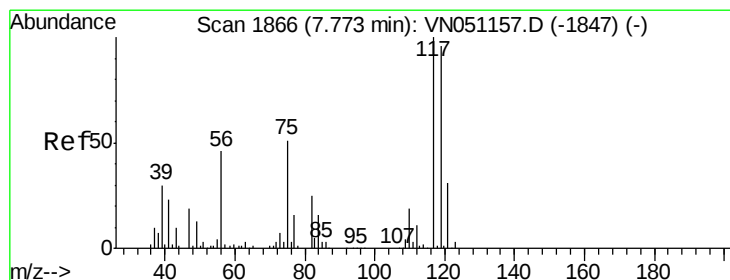
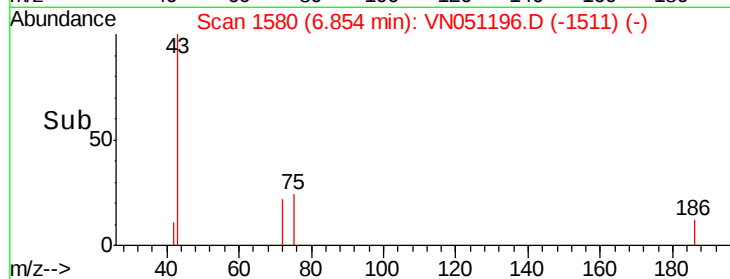
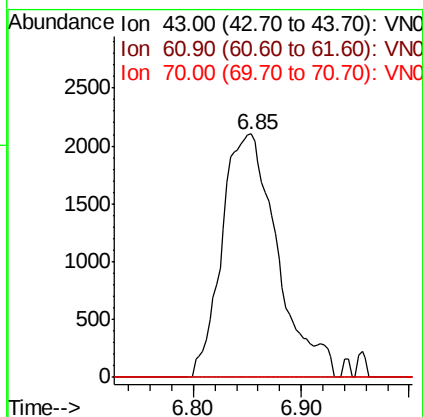
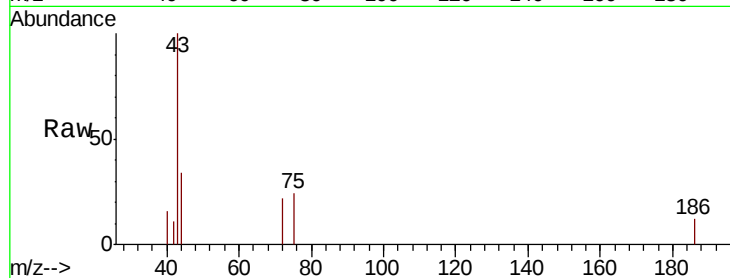




#37
Ethyl Acetate
Concen: 1.31 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. -0.08 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

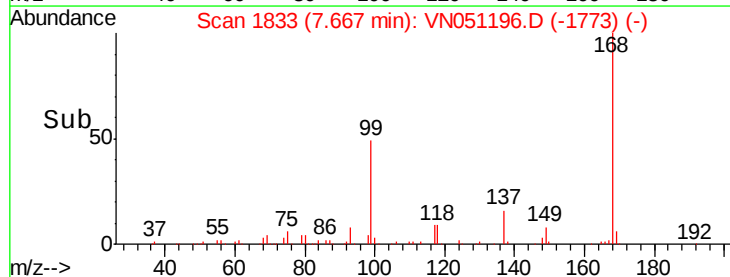
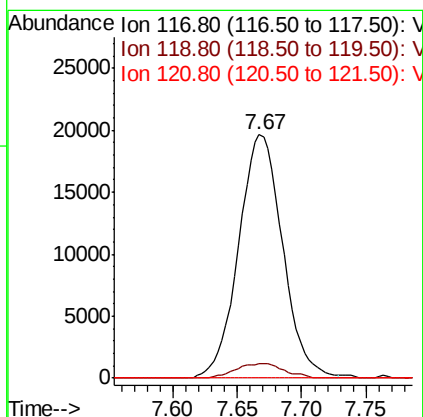
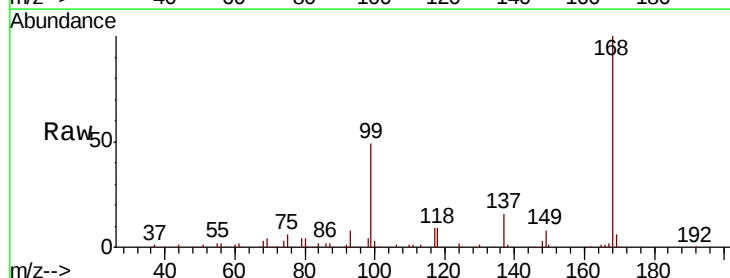
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#06

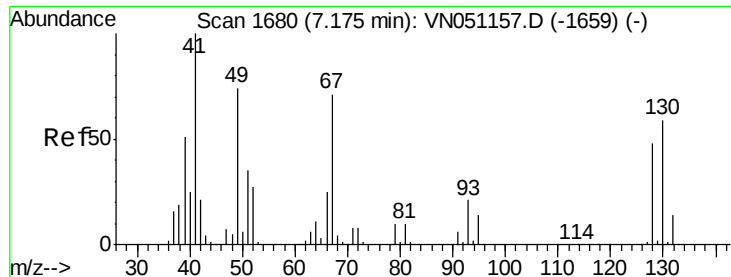
Tot Ion: 43 Resp: 7513
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 4.80 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

Tgt Ion: 117 Resp: 46684
Ion Ratio Lower Upper
117 100
119 5.7 76.8 115.2#
121 0.0 24.6 36.8#





#41

Methacrylonitrile

Concen: 0.29 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.04 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#06

Tot Ion: 41 Resp: 850

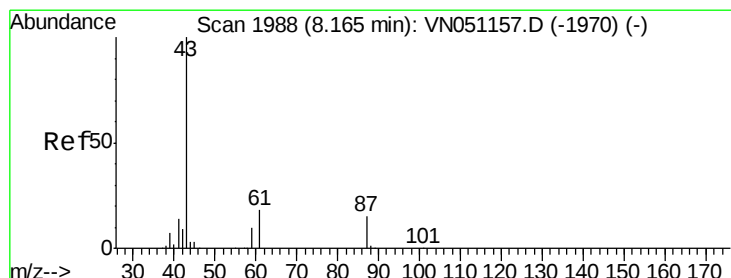
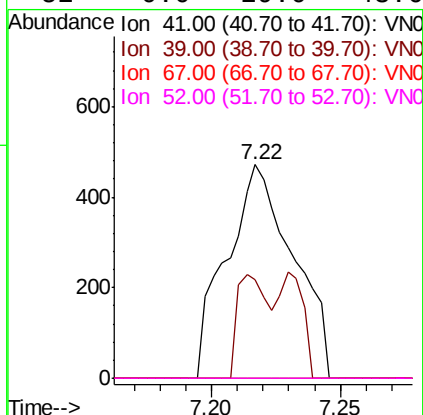
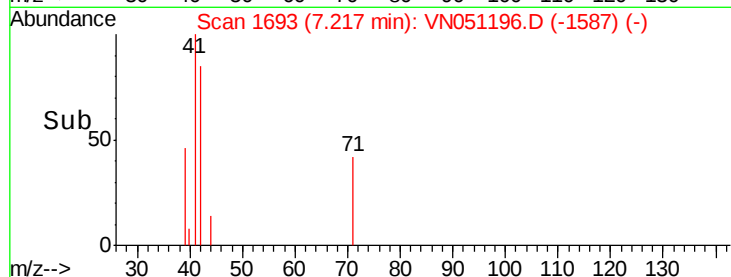
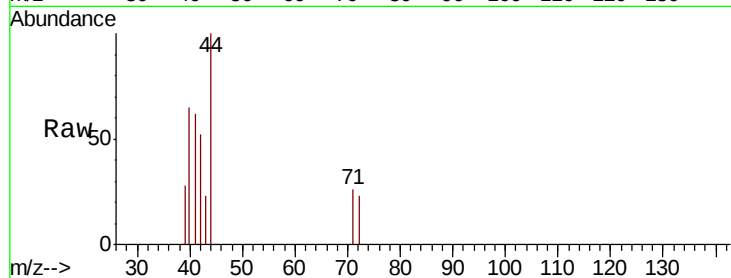
Ion Ratio Lower Upper

41 100

39 22.2 51.3 76.9#

67 0.0 78.5 117.7#

52 0.0 29.0 43.6#



#43

Isopropyl Acetate

Concen: 30.81 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

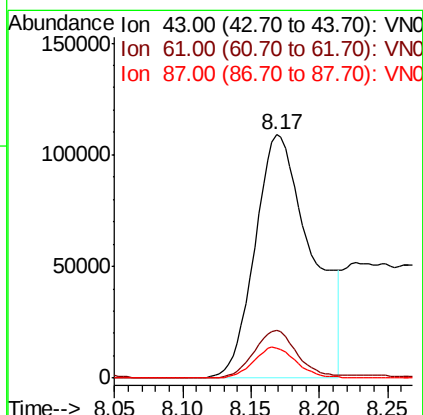
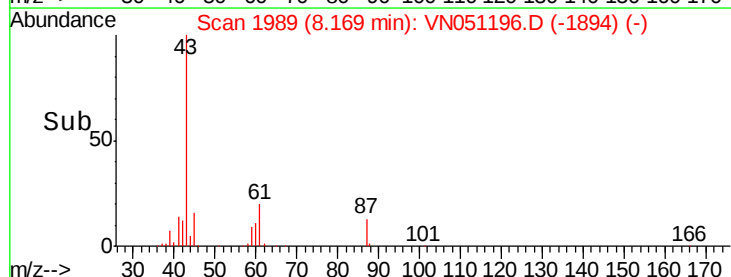
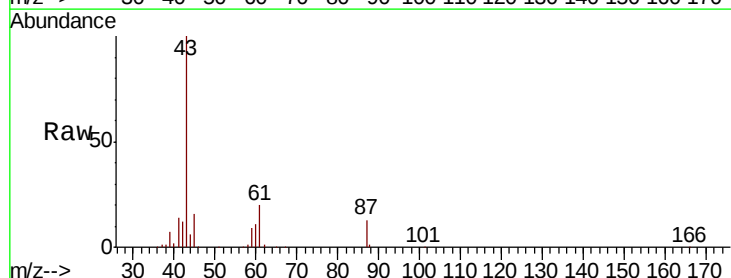
Tgt Ion: 43 Resp: 311068

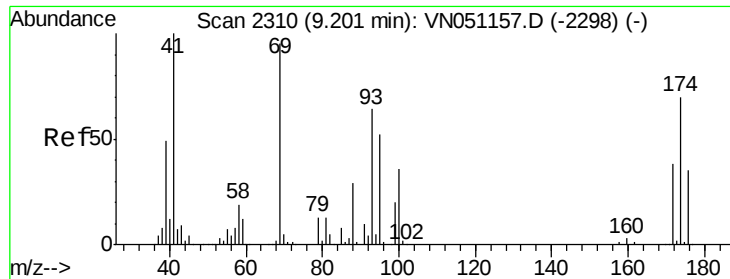
Ion Ratio Lower Upper

43 100

61 15.7 25.0 37.6#

87 9.7 11.8 17.8#

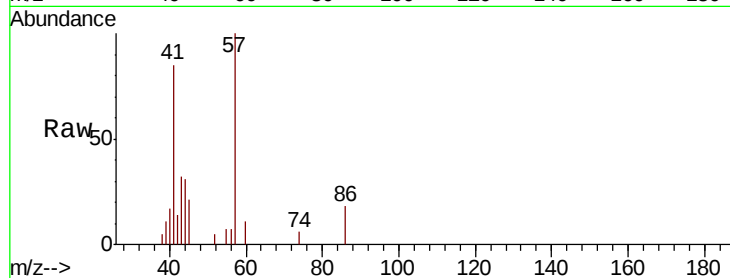




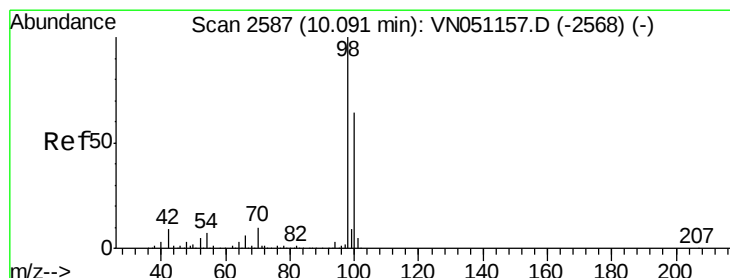
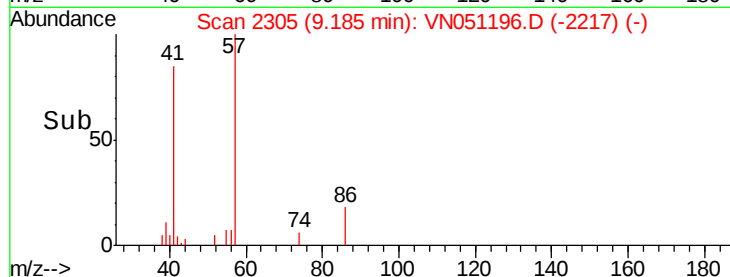
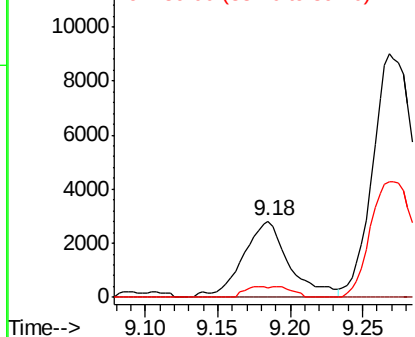
#48
Methyl methacrylate
Concen: 1.27 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#06

Tot Ion: 41 Resp: 6262
Ion Ratio Lower Upper
41 100
69 0.0 77.7 116.5#
39 7.1 41.6 62.4#

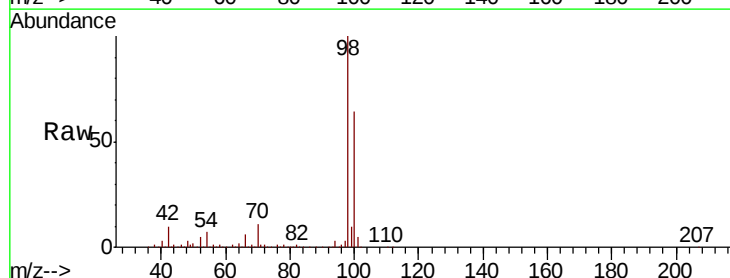


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

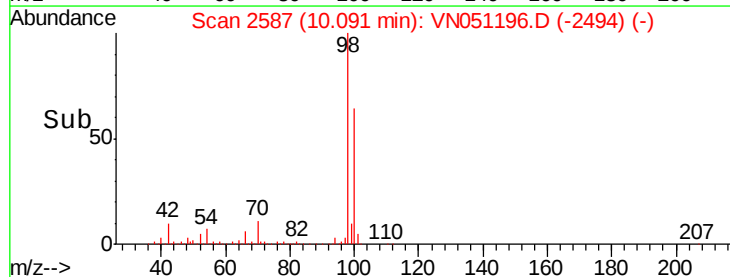
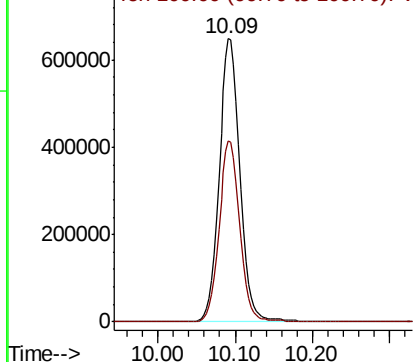


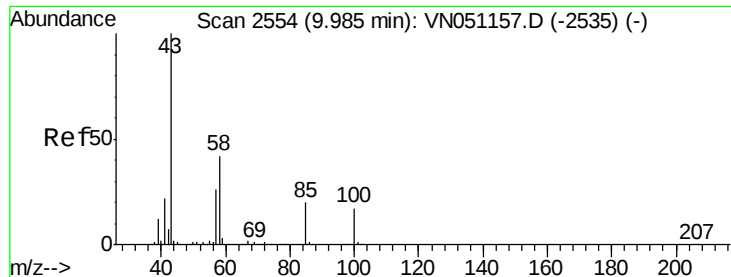
#50
Toluene-d8
Concen: 47.21 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

Tgt Ion: 98 Resp: 1211305
Ion Ratio Lower Upper
98 100
100 63.8 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: VN051196.D

Acq: 14 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

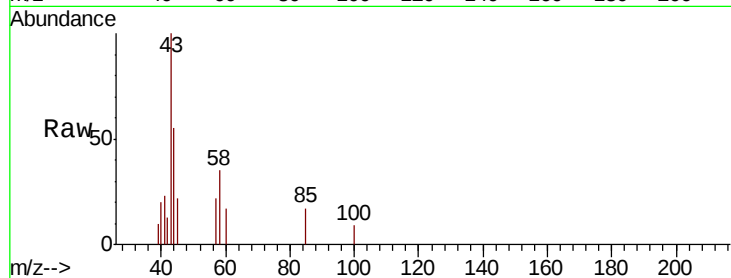
PB112829ZHE#06

Tot Ion: 43 Resp: 2412

Ion Ratio Lower Upper

43 100

58 42.5 33.5 50.3



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN051157.D (-2535) (-)

9.99

1500

1000

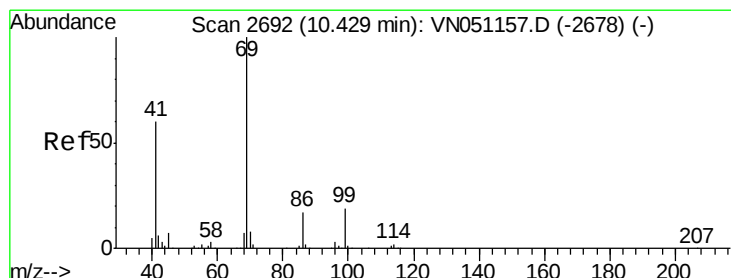
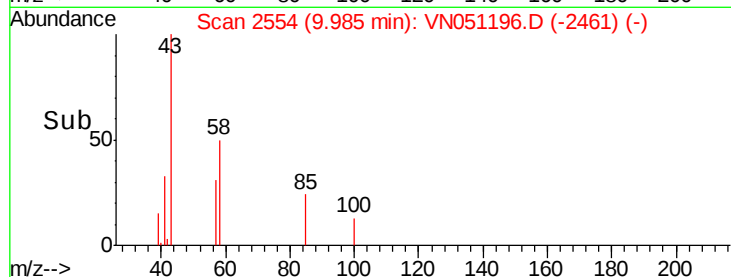
500

0

9.95

10.00

Time-->



#56

Ethyl methacrylate

Concen: 2.63 ug/l

RT: 10.23 min Scan# 2629

Delta R.T. -0.20 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

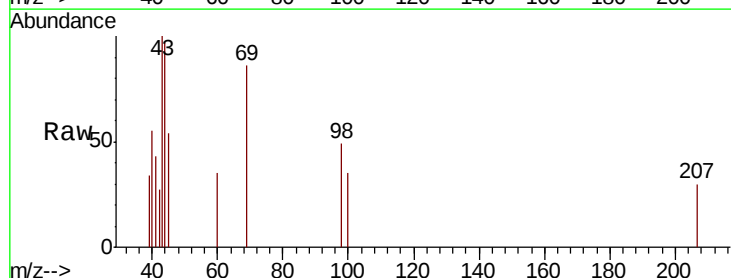
Tgt Ion: 69 Resp: 1599

Ion Ratio Lower Upper

69 100

41 17.3 47.8 71.8#

39 24.9 23.0 34.4



Abundance Ion 69.00 (68.70 to 69.70): VN051157.D (-2678) (-)

Ion 41.00 (40.70 to 41.70): VN051157.D (-2678) (-)

Ion 39.00 (38.70 to 39.70): VN051157.D (-2678) (-)

1000

800

600

400

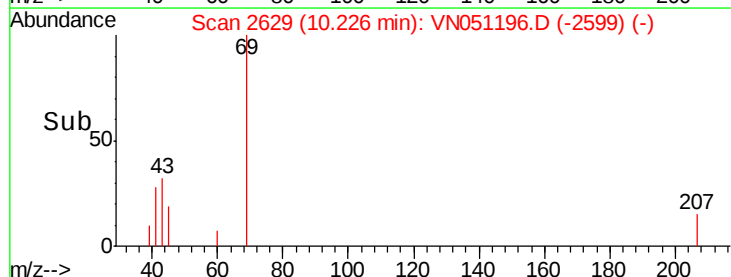
200

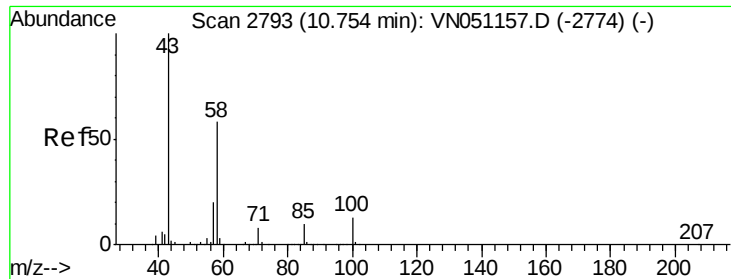
0

10.20

10.25

Time-->

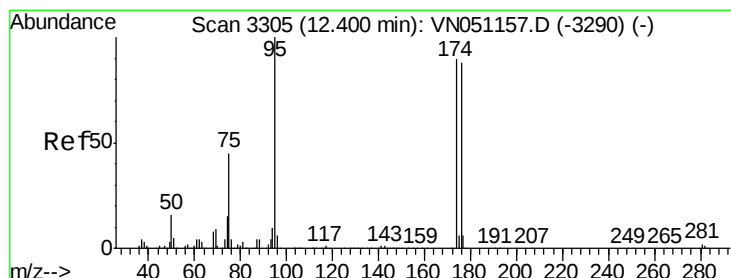
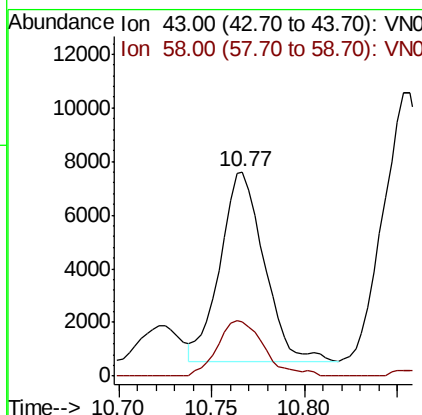
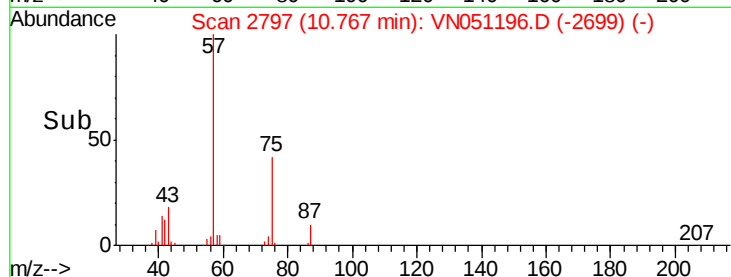
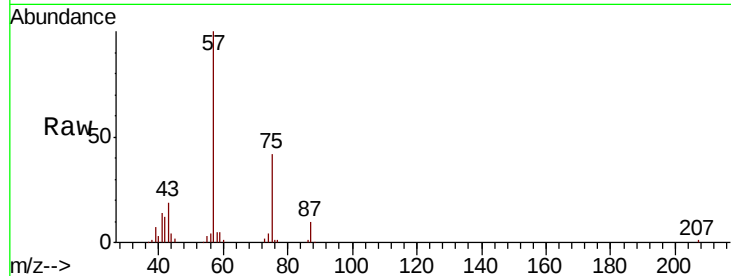




#59
2-Hexanone
Concen: 3.06 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

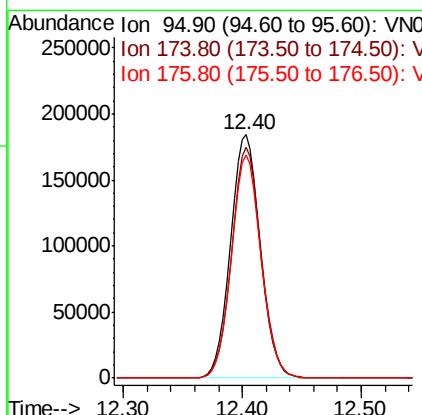
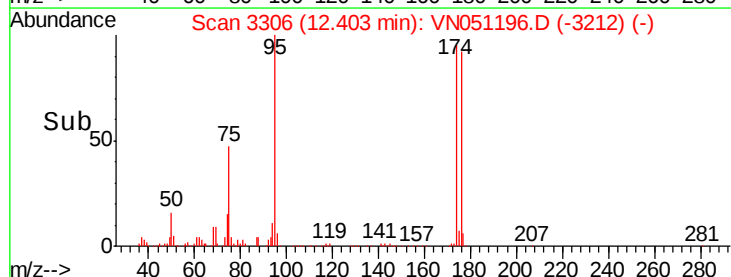
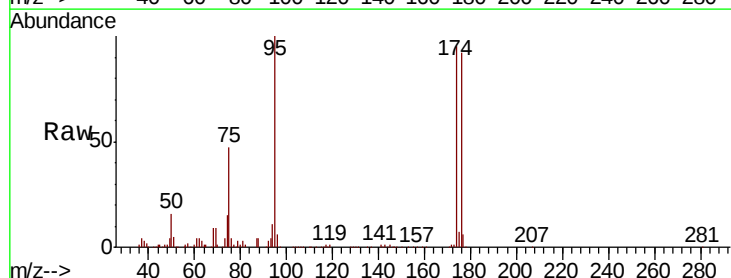
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#06

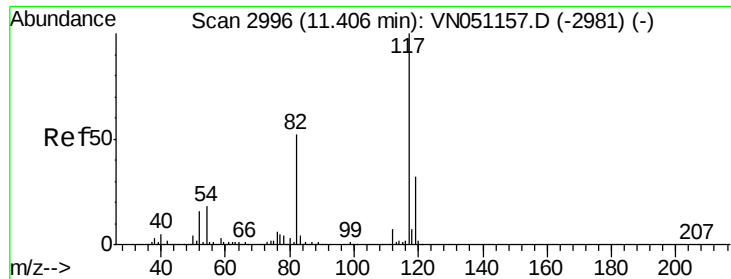
Tot Ion: 43 Resp: 11575
Ion Ratio Lower Upper
43 100
58 31.2 29.3 88.0



#62
4-Bromofluorobenzene
Concen: 37.50 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

Tgt Ion: 95 Resp: 318258
Ion Ratio Lower Upper
95 100
174 94.1 0.0 184.8
176 90.9 0.0 178.6

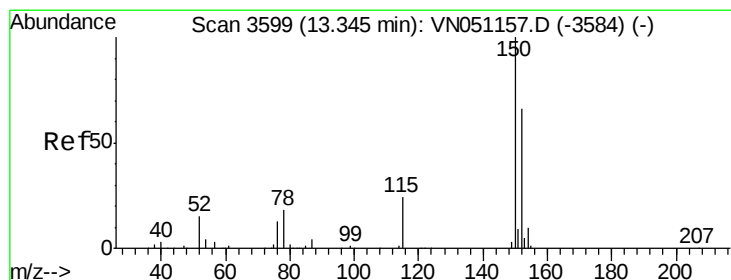
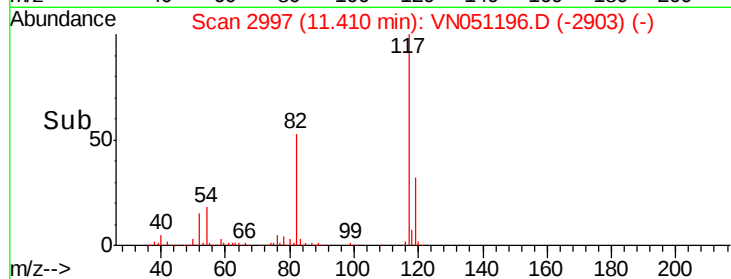
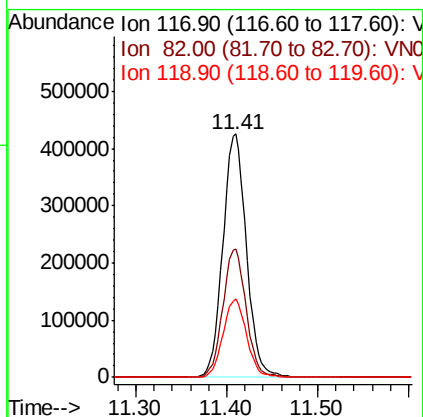
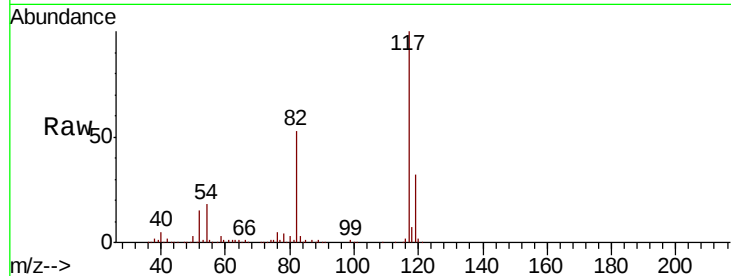




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

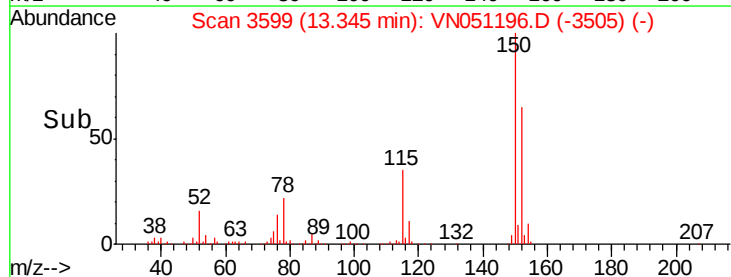
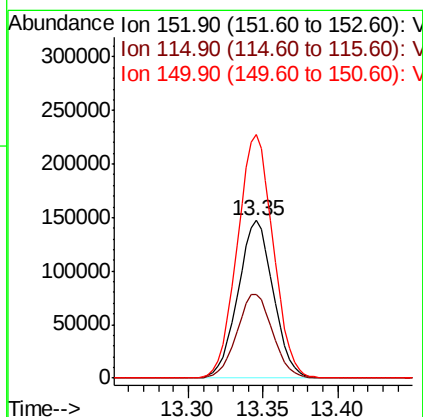
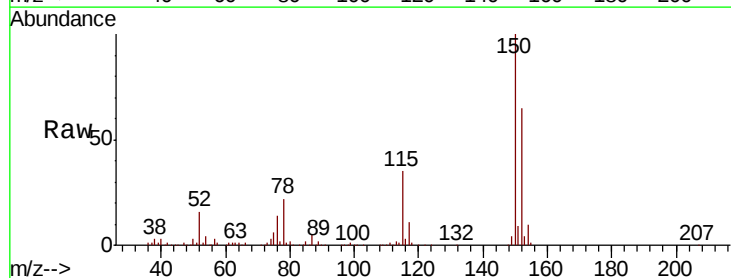
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#06

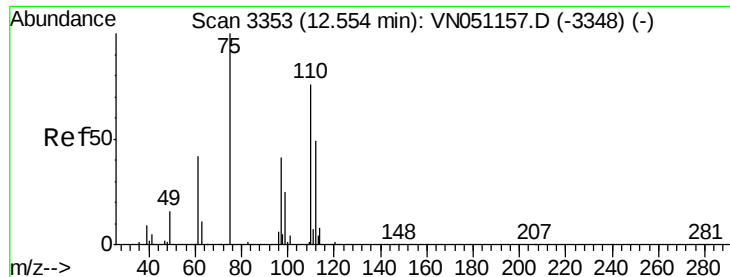
Tot Ion:117 Resp: 762838
Ion Ratio Lower Upper
117 100
82 52.5 41.8 62.6
119 32.0 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051196.D
Acq: 14 Sep 2018 17:39

Tgt Ion:152 Resp: 241420
Ion Ratio Lower Upper
152 100
115 54.0 28.2 84.7
150 157.1 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 39.03 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

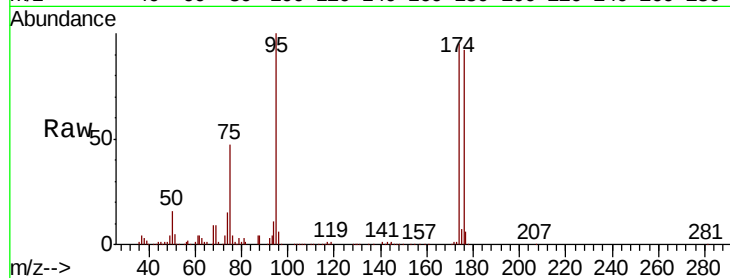
PB112829ZHE#06

Tot Ion: 75 Resp: 147298

Ion Ratio Lower Upper

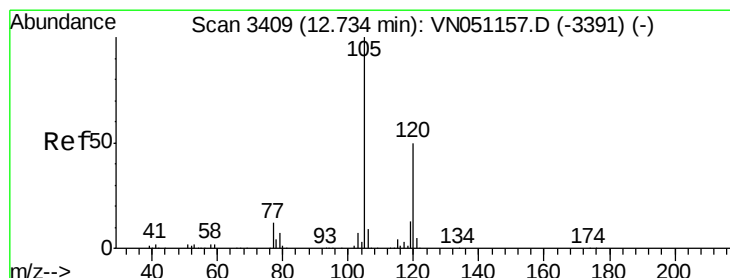
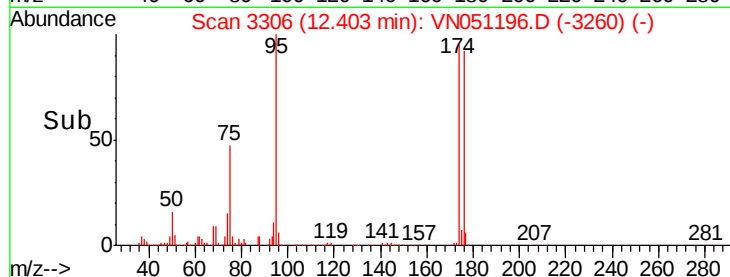
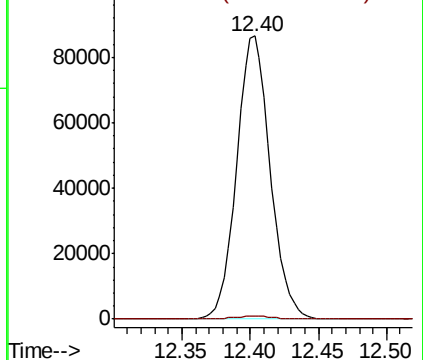
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051157.D (-3348) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.24 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051196.D

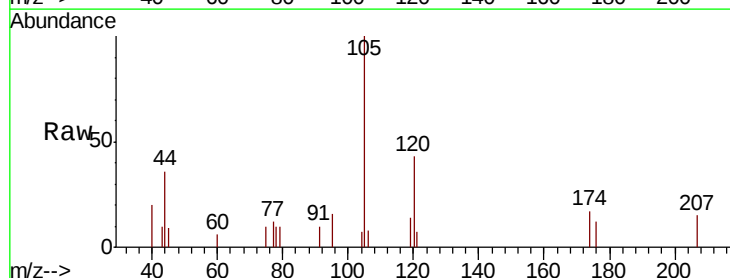
Acq: 14 Sep 2018 17:39

Tgt Ion: 105 Resp: 3956

Ion Ratio Lower Upper

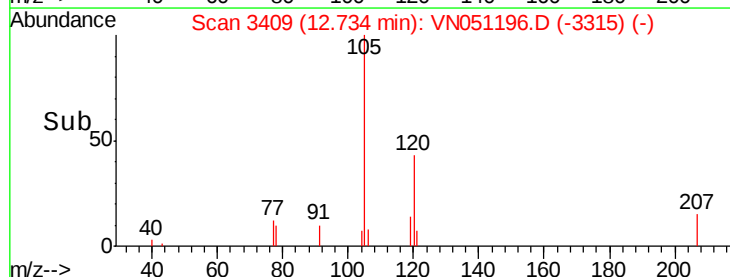
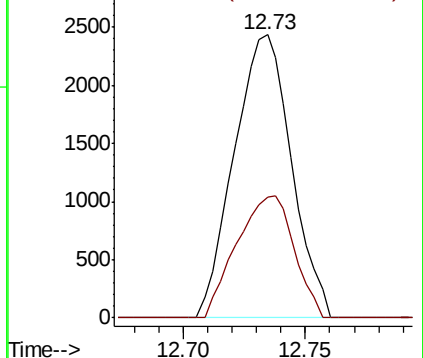
105 100

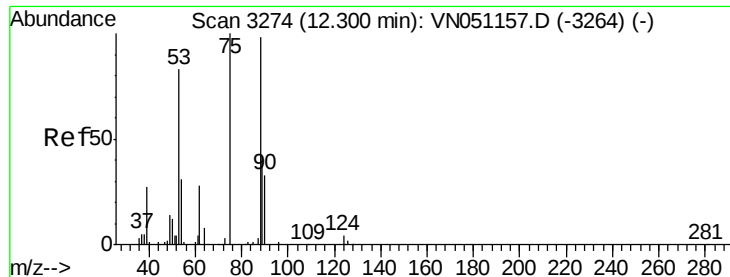
120 43.3 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN051157.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN051157.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 115.87 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#06

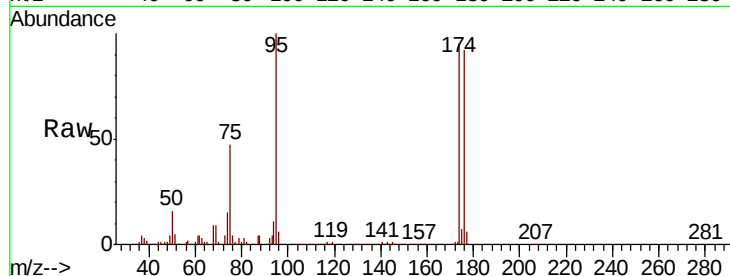
Tot Ion: 75 Resp: 147298

Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

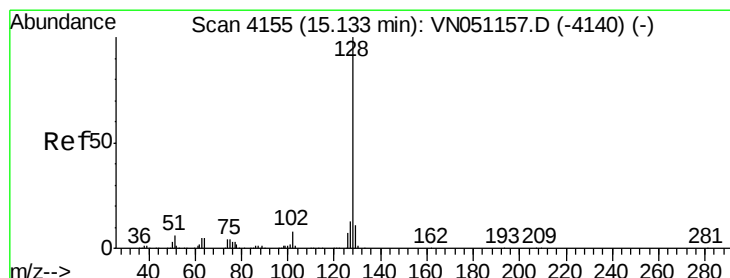
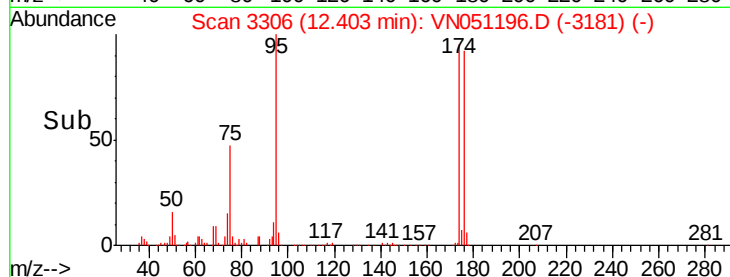
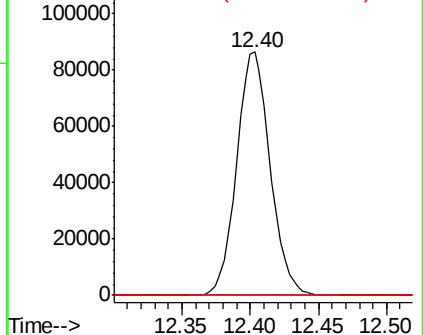
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN051157.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN051157.D (-3264) (-)



#95

Naphthalene

Concen: 5.34 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051196.D

Acq: 14 Sep 2018 17:39

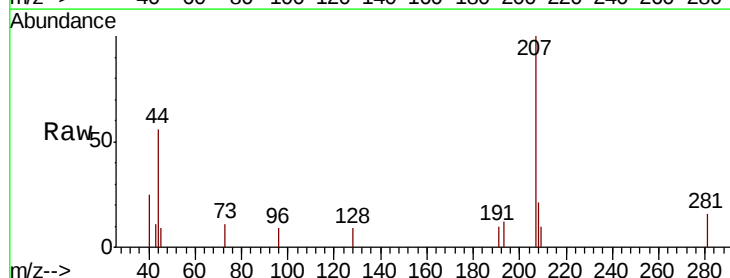
Tgt Ion: 128 Resp: 30

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN051157.D (-4140) (-)

Ion 127.00 (126.70 to 127.70): VN051157.D (-4140) (-)

Ion 129.00 (128.70 to 129.70): VN051157.D (-4140) (-)

