

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050541.D
 Acq On : 11 Aug 2018 1:41
 Operator : MD\SY
 Sample : PB111921ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#15

Quant Time: Aug 11 05:00:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	643547	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1080815	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	943007	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	353499	50.00	ug/l	0.00

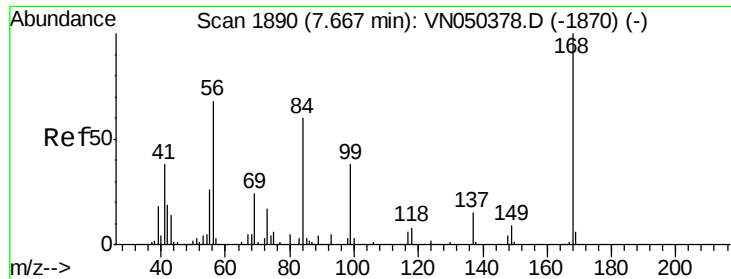
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	449620	52.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.58%	
35) Dibromofluoromethane	7.60	113	413065	47.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.26%	
50) Toluene-d8	10.09	98	1473781	45.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.40%	
62) 4-Bromofluorobenzene	12.40	95	419452	37.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.48%	

Target Compounds

						Qvalue
3) Chloromethane	2.06	50	3278	Below Cal		96
5) Bromomethane	2.57	94	4683	1.21 ug/l		85
16) Acetone	3.83	43	17783	6.58 ug/l		97
18) Methyl Acetate	4.33	43	17070	2.38 ug/l		93
20) Methylene Chloride	4.56	84	19977	1.03 ug/l		97
25) 2-Butanone	6.85	43	3313	0.78 ug/l #		81
29) Tetrahydrofuran	7.22	42	683	0.30 ug/l #		63
31) Cyclohexane	7.67	56	11372	0.30 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	44350	3.73 ug/l #		47
38) Carbon Tetrachloride	7.67	117	56974	4.60 ug/l #		16
43) Isopropyl Acetate	8.17	43	290740	19.69 ug/l		95
48) Methyl methacrylate	9.18	41	8144	1.10 ug/l #		21
51) 4-Methyl-2-Pentanone	9.99	43	2187	0.21 ug/l #		74
56) Ethyl methacrylate	10.30	69	105	1.72 ug/l #		1
59) 2-Hexanone	10.76	43	18994	2.56 ug/l #		61
71) Bromoform	12.40	173	3877	0.62 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	203134	31.75 ug/l #		100
80) 1,3,5-Trimethylbenzene	12.73	105	4354	0.20 ug/l		96
81) trans-1,4-Dichloro-2-buten	12.40	75	203134	111.54 ug/l #		13
95) Naphthalene	15.13	128	428	3.64 ug/l #		69

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050541.D

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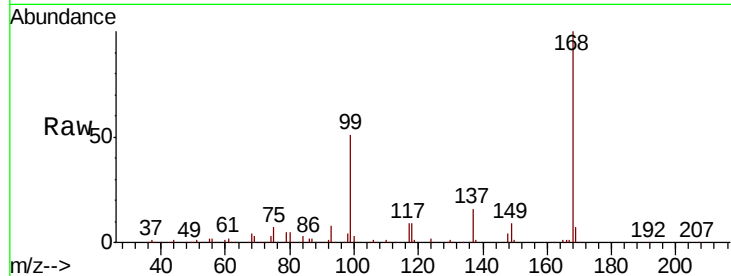
PB111921ZHE#15

Tot Ion:168 Resp: 643547

Ion Ratio Lower Upper

168 100

99 50.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

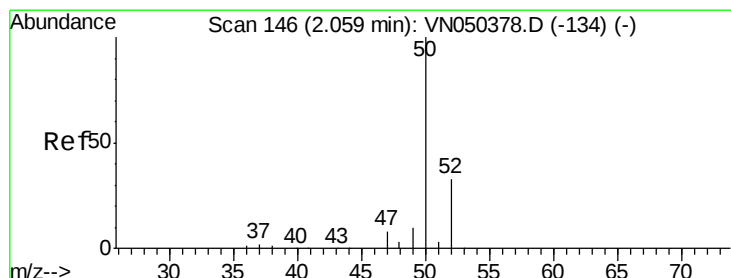
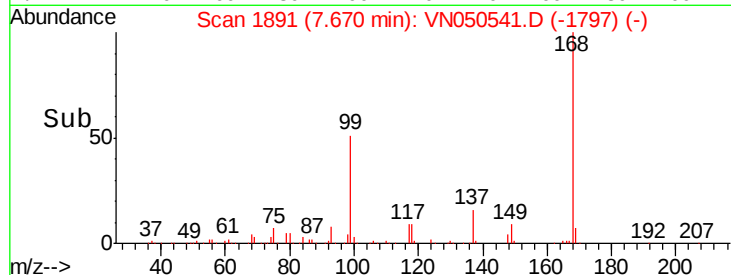
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050541.D

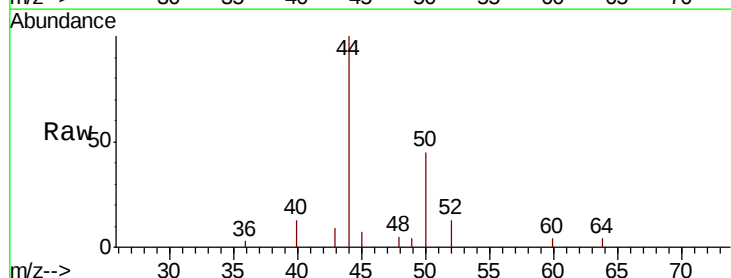
Acq: 11 Aug 2018 1:41

Tgt Ion: 50 Resp: 3278

Ion Ratio Lower Upper

50 100

52 30.2 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

2500

2000

1500

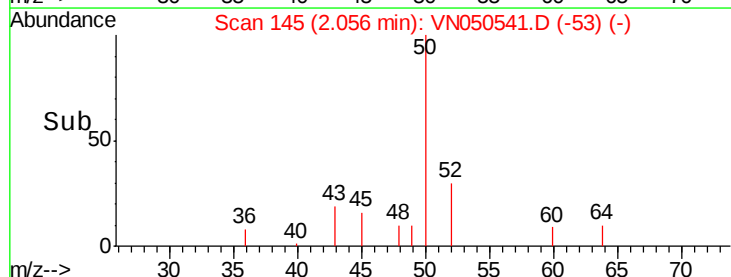
1000

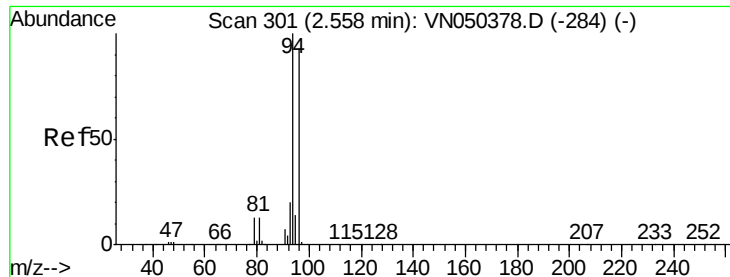
500

0

2.00 2.05 2.10

Time-->





#5

Bromomethane

Concen: 1.21 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

Instrument :

MSVOA_N

ClientSampleId :

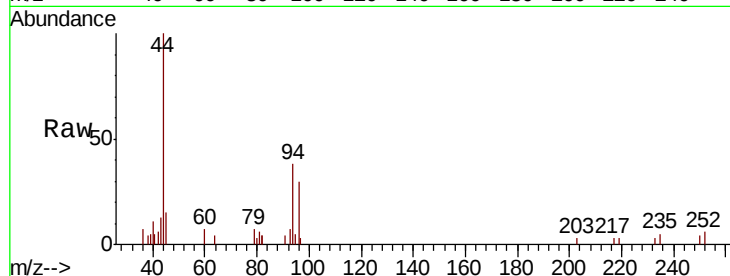
PB111921ZHE#15

Tot Ion: 94 Resp: 4683

Ion Ratio Lower Upper

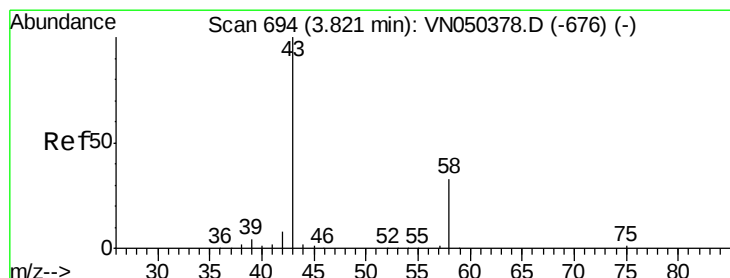
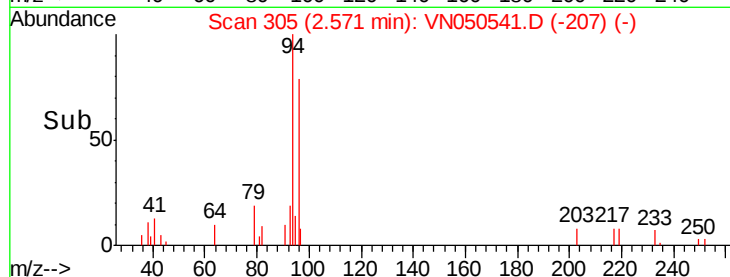
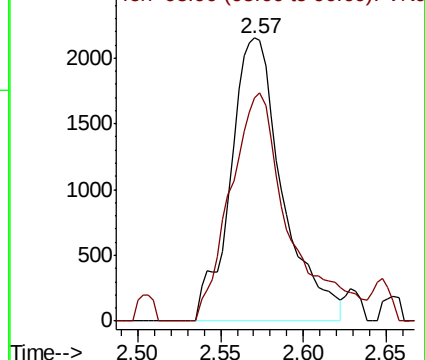
94 100

96 78.6 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#16

Acetone

Concen: 6.58 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050541.D

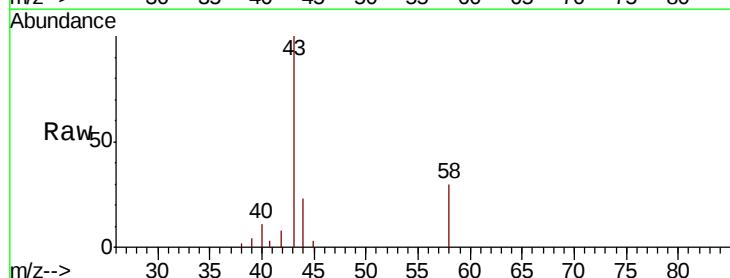
Acq: 11 Aug 2018 1:41

Tgt Ion: 43 Resp: 17783

Ion Ratio Lower Upper

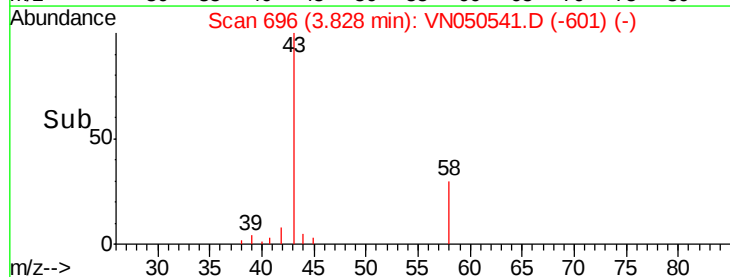
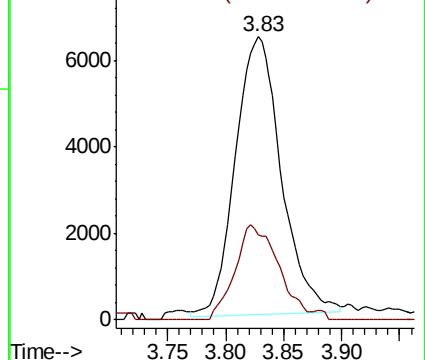
43 100

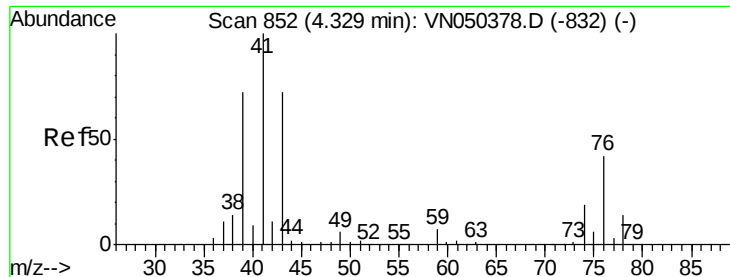
58 30.9 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

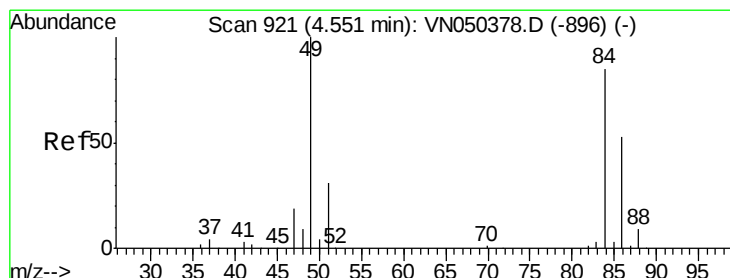
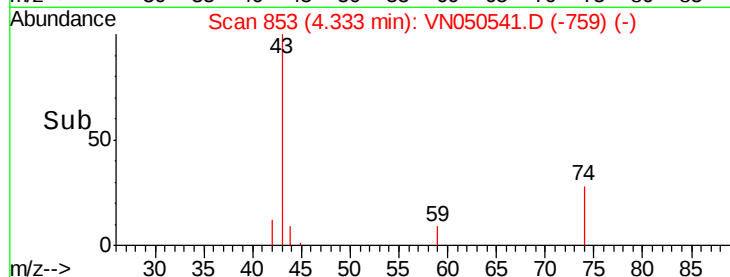
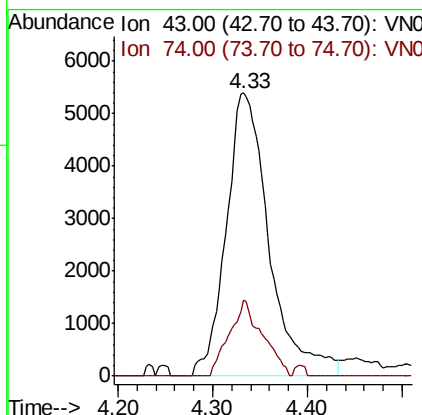
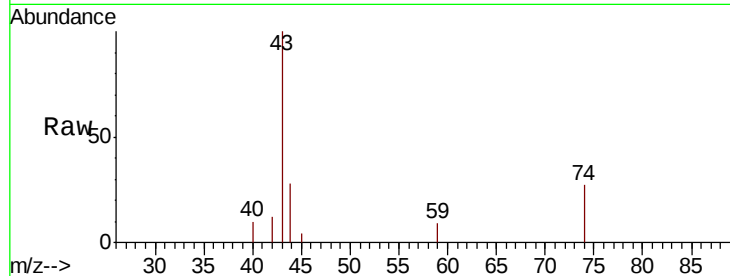




#18
Methyl Acetate
Concen: 2.38 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050541.D
Acq: 11 Aug 2018 1:41

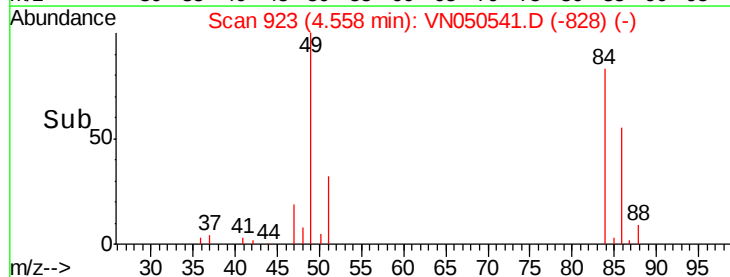
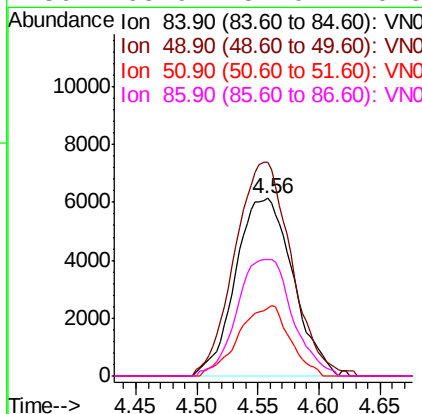
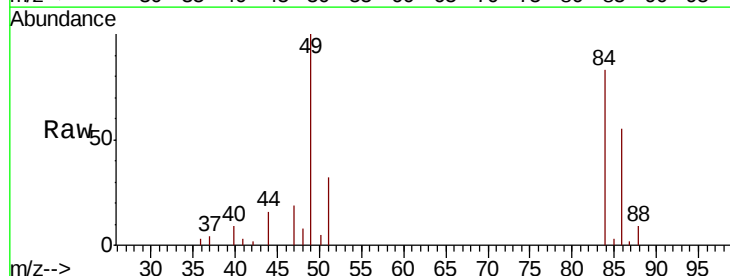
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#15

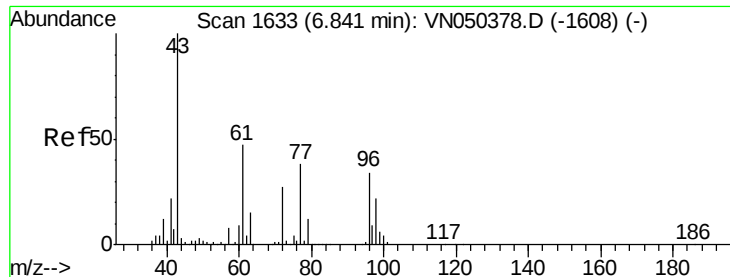
Tot Ion: 43 Resp: 17070
Ion Ratio Lower Upper
43 100
74 20.6 19.2 28.8



#20
Methylene Chloride
Concen: 1.03 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050541.D
Acq: 11 Aug 2018 1:41

Tgt Ion: 84 Resp: 19977
Ion Ratio Lower Upper
84 100
49 120.3 94.8 142.2
51 38.6 28.3 42.5
86 65.9 51.0 76.6





#25

2-Butanone

Concen: 0.78 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

Instrument :

MSVOA_N

ClientSampleId :

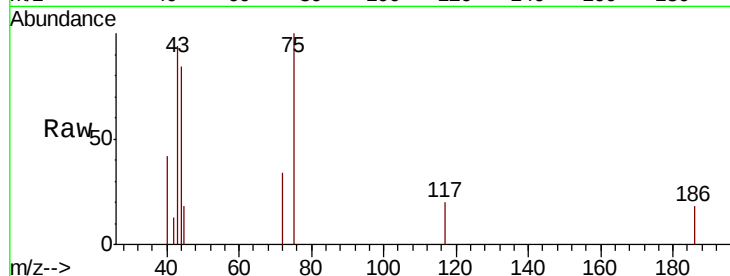
PB111921ZHE#15

Tot Ion: 43 Resp: 3313

Ion Ratio Lower Upper

43 100

72 36.5 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

1200

1000

800

600

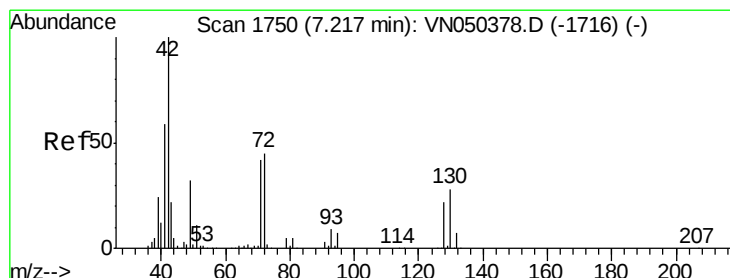
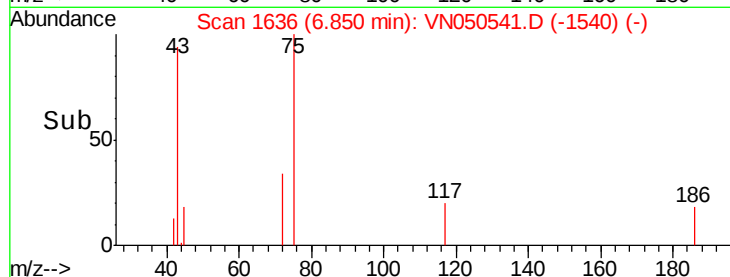
400

200

0

6.80 6.85 6.90

Time-->



#29

Tetrahydrofuran

Concen: 0.30 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

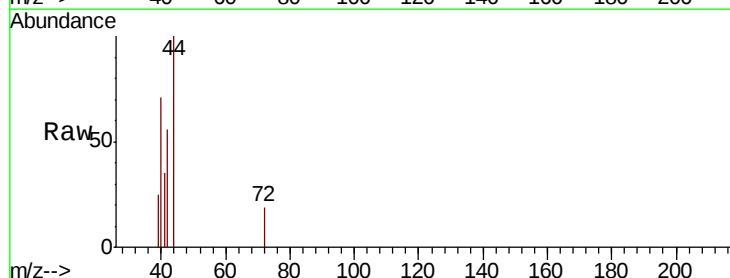
Tgt Ion: 42 Resp: 683

Ion Ratio Lower Upper

42 100

72 39.2 35.9 53.9

71 0.0 33.7 50.5#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

800

600

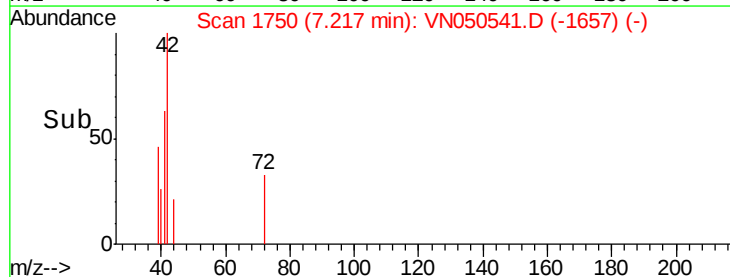
400

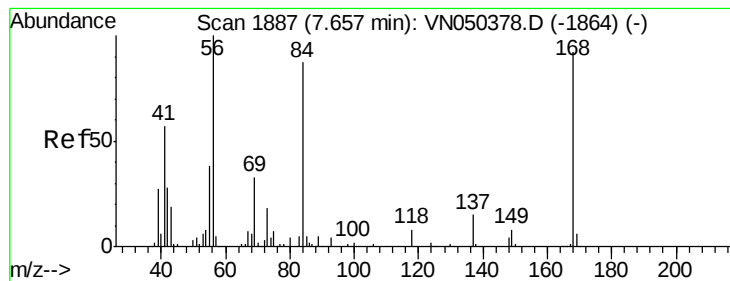
200

0

7.18 7.20 7.22

Time-->





#31

Cvclohexane

Concen: 0.30 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#15

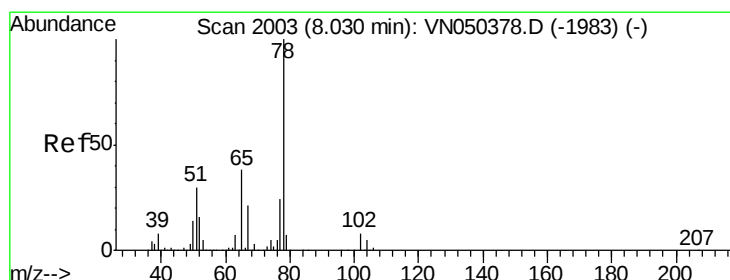
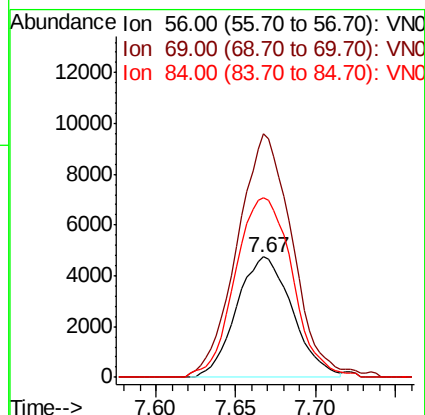
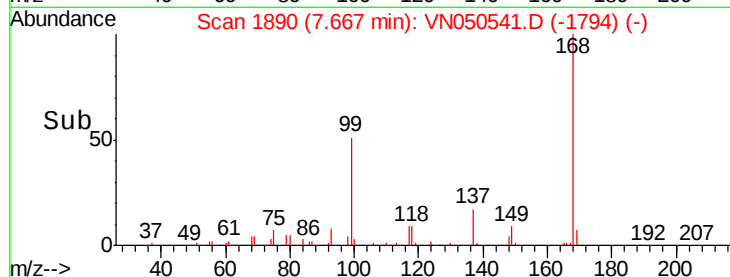
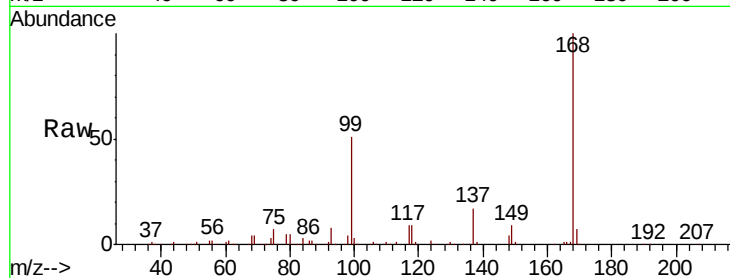
Tot Ion: 56 Resp: 11372

Ion Ratio Lower Upper

56 100

69 198.1 26.2 39.4#

84 145.9 67.4 101.0#



#33

1,2-Dichloroethane-d4

Concen: 52.29 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050541.D

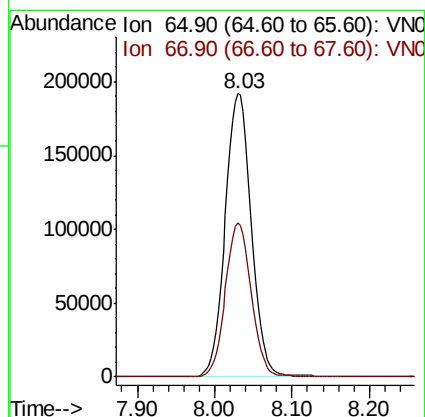
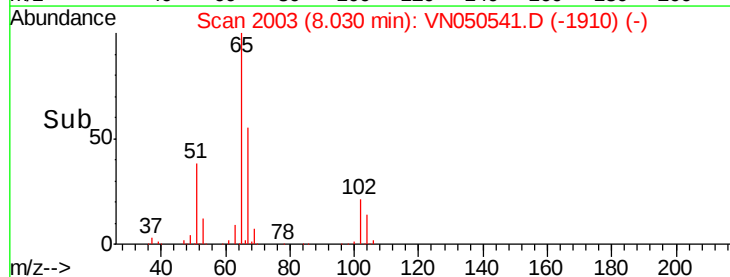
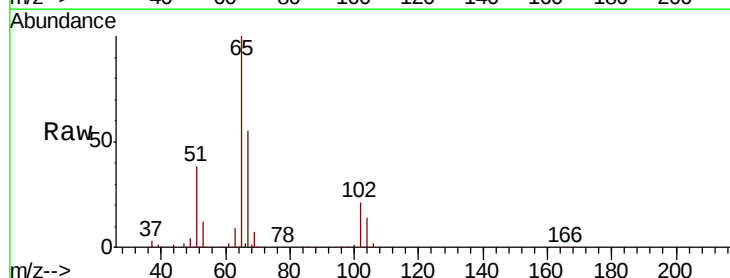
Acq: 11 Aug 2018 1:41

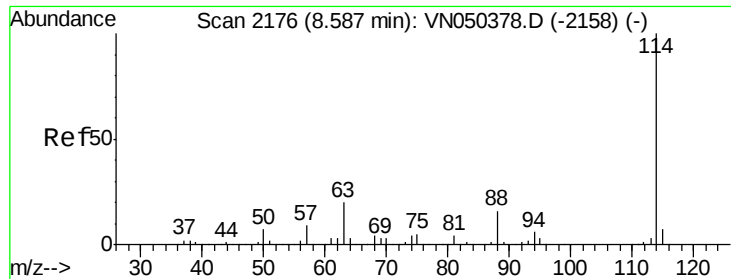
Tgt Ion: 65 Resp: 449620

Ion Ratio Lower Upper

65 100

67 53.9 0.0 108.4

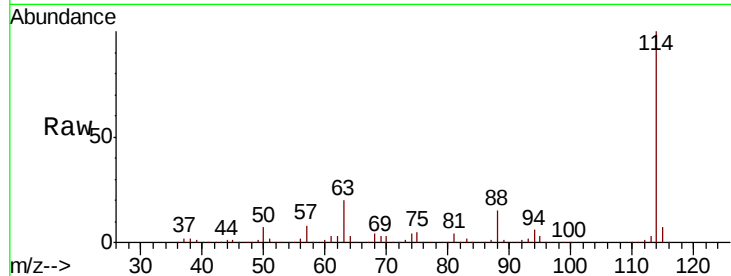




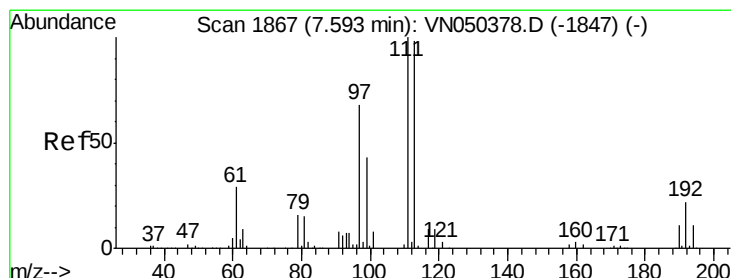
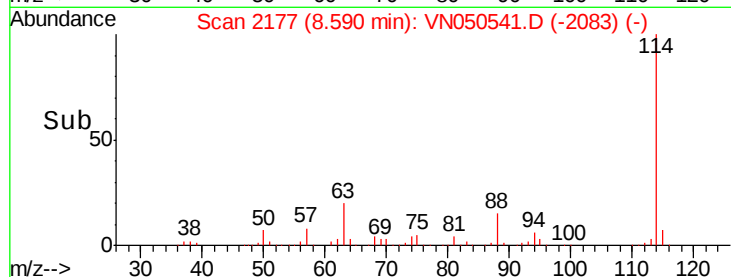
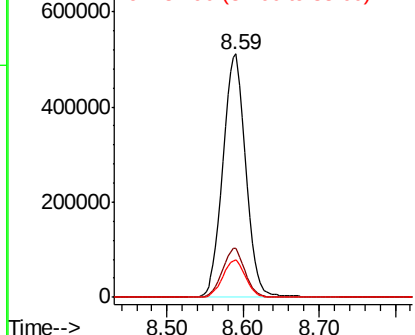
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050541.D
 Acq: 11 Aug 2018 1:41

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#15

Tot Ion:114 Resp: 1080815
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.0
 88 15.4 0.0 31.2

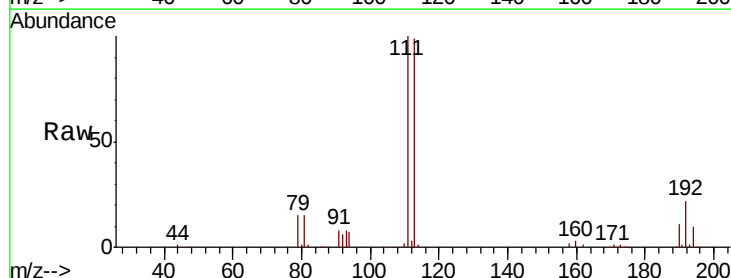


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

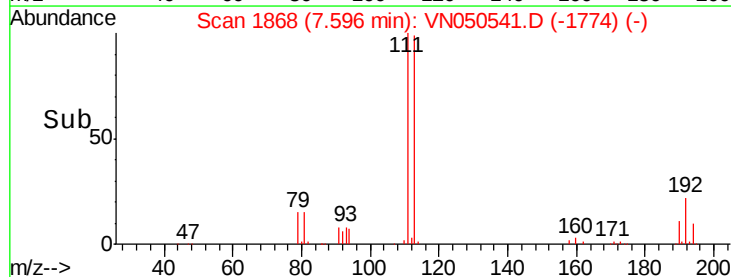
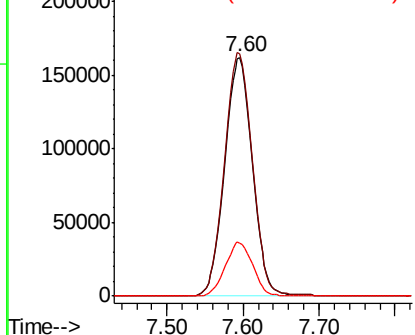


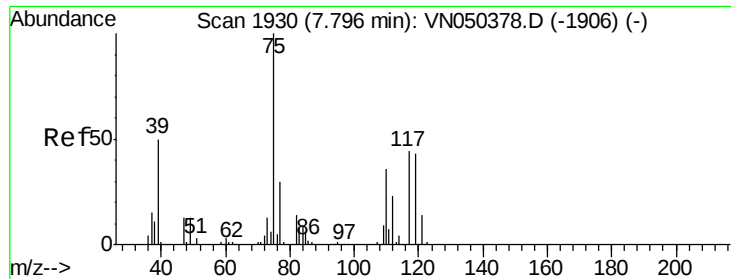
#35
 Dibromofluoromethane
 Concen: 47.63 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050541.D
 Acq: 11 Aug 2018 1:41

Tgt Ion:113 Resp: 413065
 Ion Ratio Lower Upper
 113 100
 111 102.5 80.7 121.1
 192 22.3 17.8 26.6



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

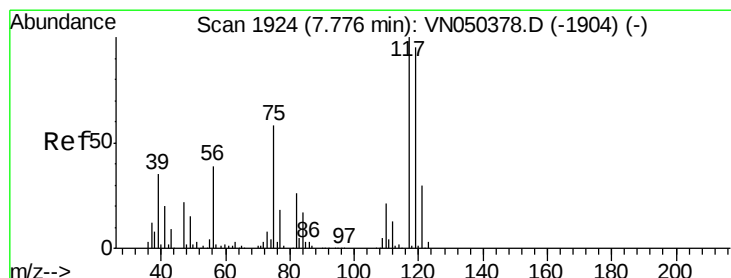
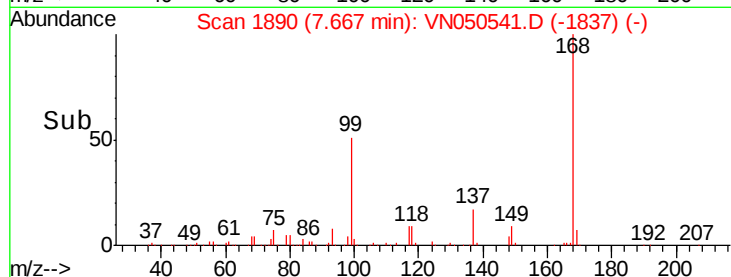
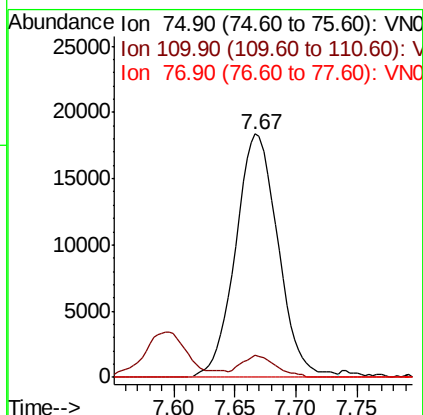
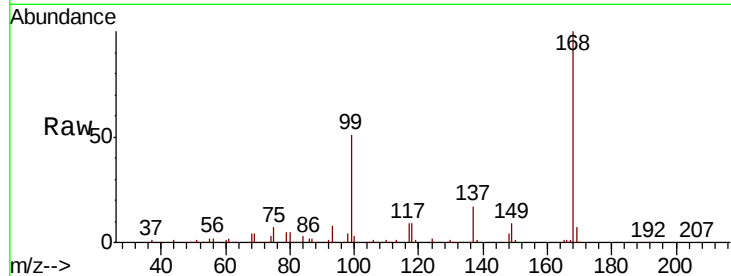




#36
 1,1-Dichloropropene
 Concen: 3.73 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050541.D
 Acq: 11 Aug 2018 1:41

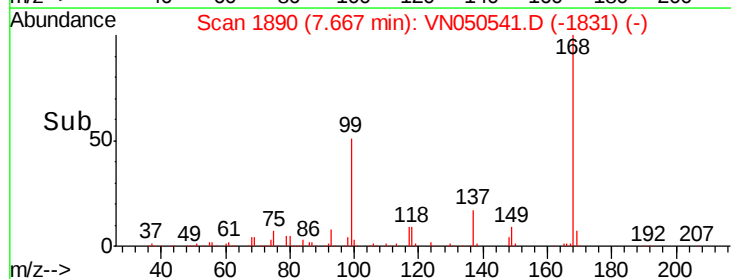
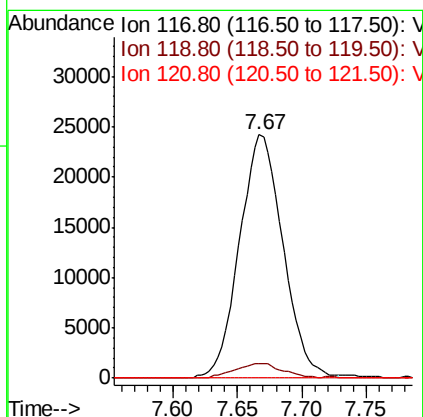
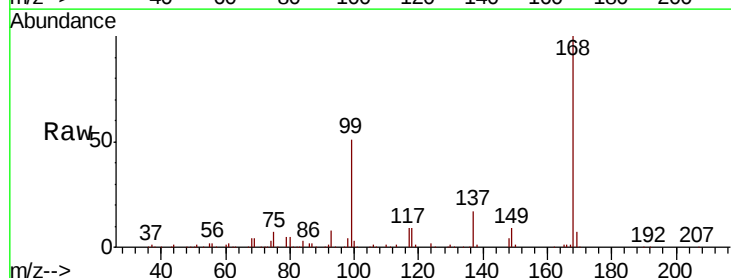
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#15

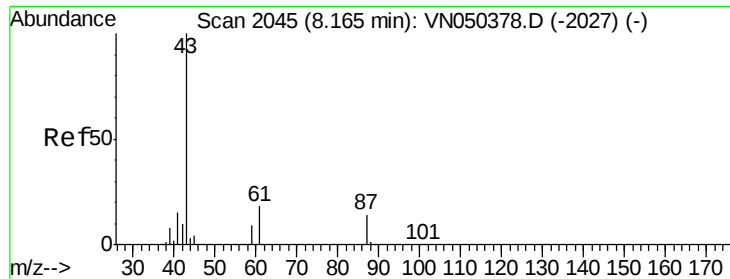
Tot Ion	75	Resp	44350
Ion Ratio	Lower	Upper	
75	100		
110	7.3	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.60 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050541.D
 Acq: 11 Aug 2018 1:41

Tgt Ion	117	Resp	56974
Ion Ratio	Lower	Upper	
117	100		
119	5.9	77.4	116.0#
121	0.0	23.9	35.9#



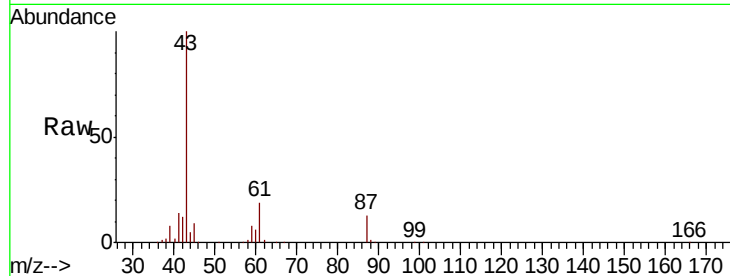


#43

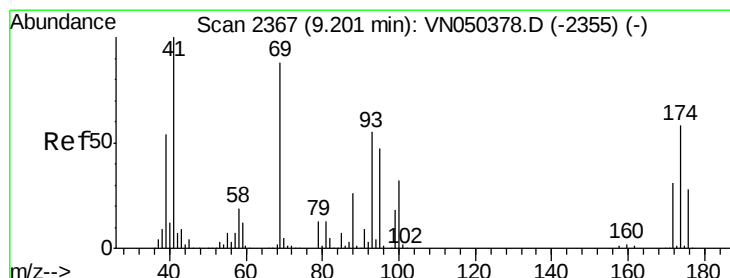
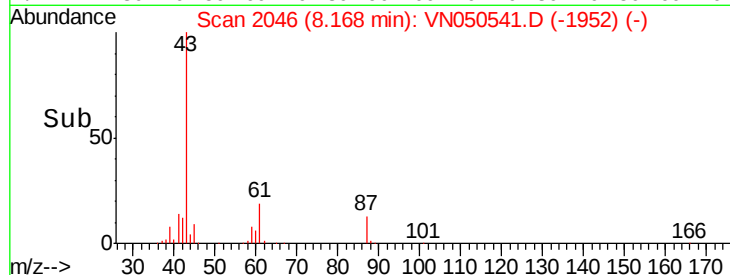
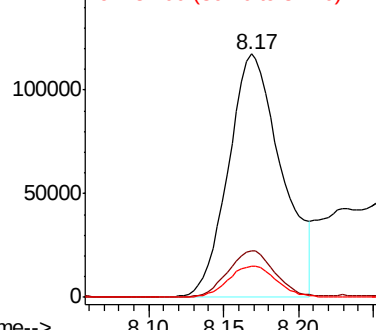
Isopropyl Acetate
 Concen: 19.69 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050541.D
 Acq: 11 Aug 2018 1:41

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#15

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.0	15.8	23.6
87	11.6	10.3	15.5



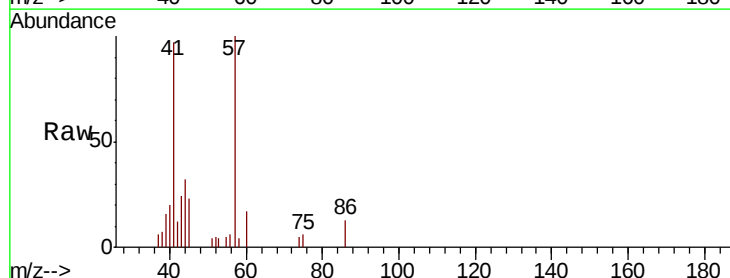
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



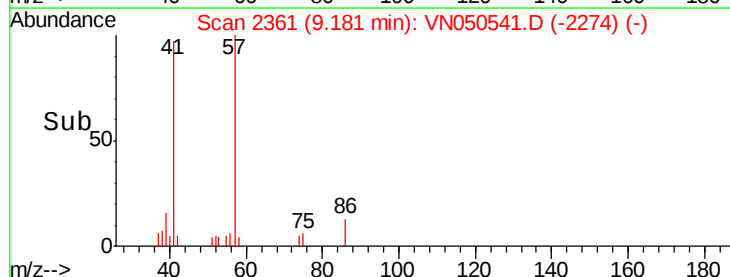
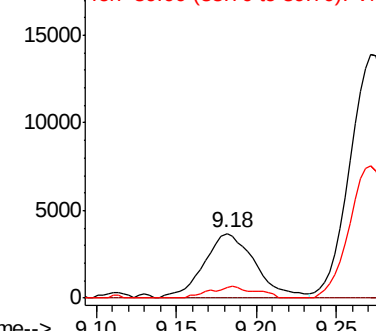
#48

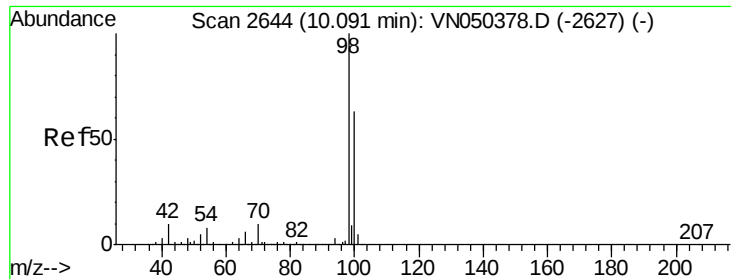
Methyl methacrylate
 Concen: 1.10 ug/l
 RT: 9.18 min Scan# 2361
 Delta R.T. -0.02 min
 Lab File: VN050541.D
 Acq: 11 Aug 2018 1:41

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	70.6	105.8#
39	15.9	43.9	65.9#



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

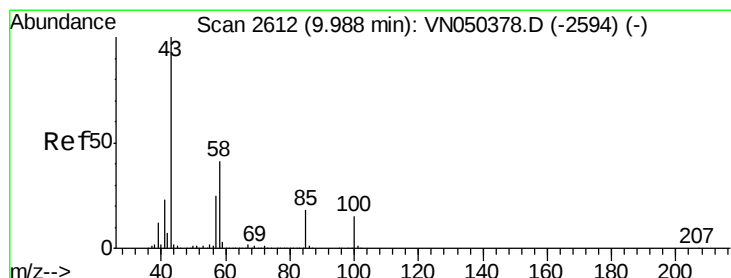
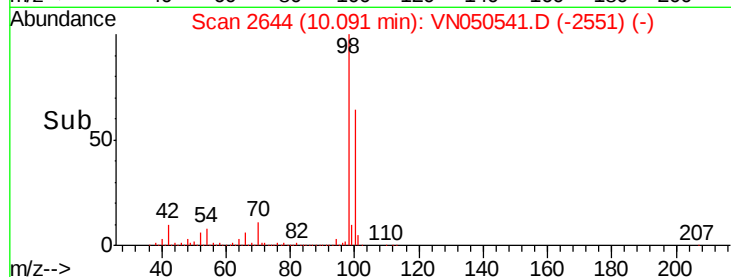
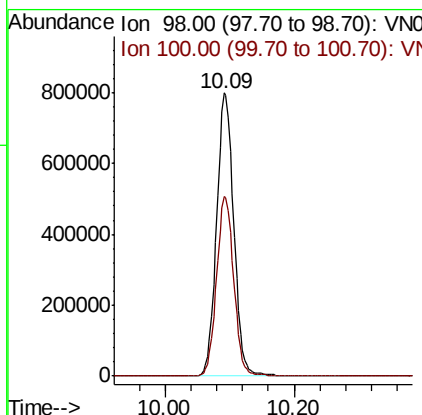
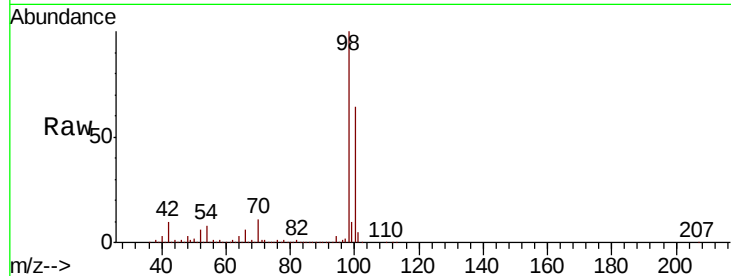




#50
Toluene-d8
Concen: 45.20 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050541.D
Acq: 11 Aug 2018 1:41

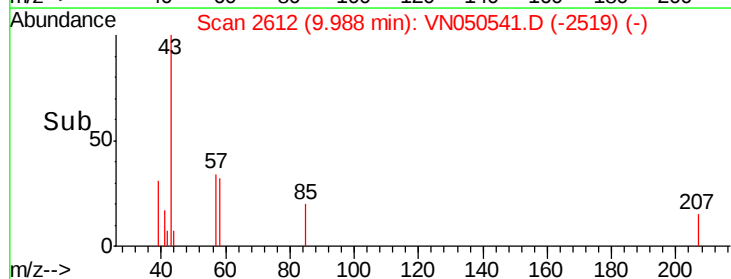
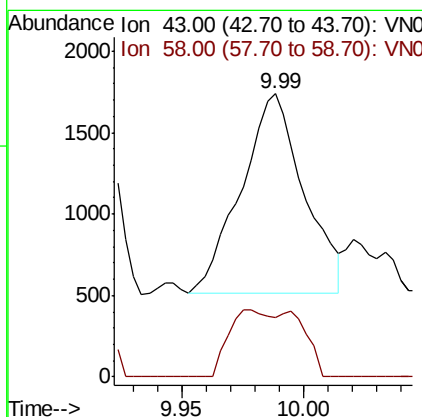
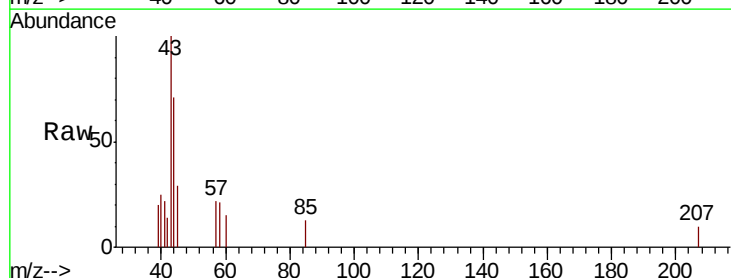
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#15

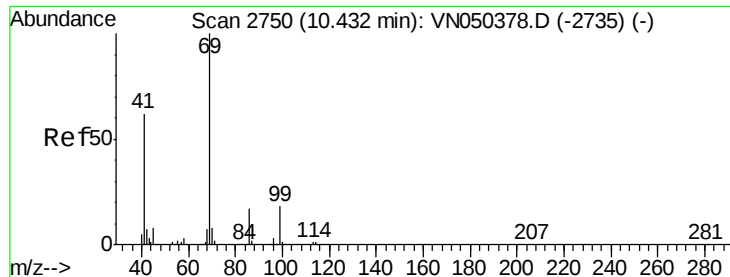
Tot Ion: 98 Resp: 1473781
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.21 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. -0.00 min
Lab File: VN050541.D
Acq: 11 Aug 2018 1:41

Tgt Ion: 43 Resp: 2187
Ion Ratio Lower Upper
43 100
58 23.8 31.9 47.9#





#56

Ethyl methacrylate

Concen: 1.72 ug/l

RT: 10.30 min Scan# 2708

Delta R.T. -0.14 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#15

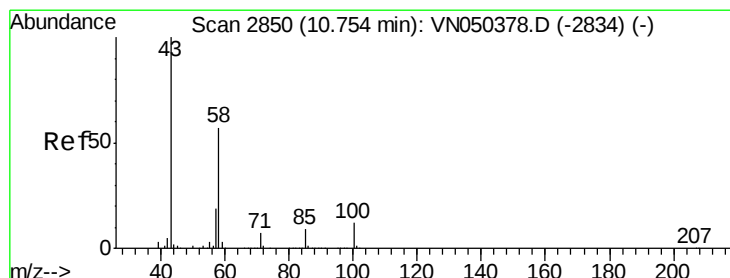
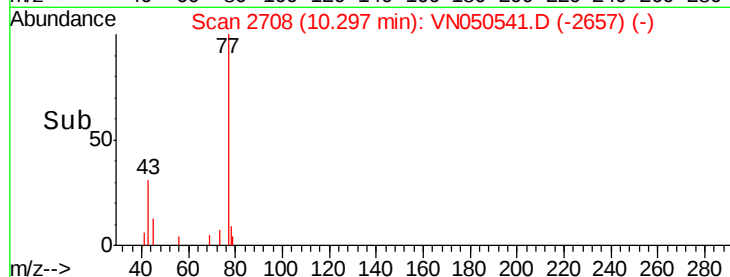
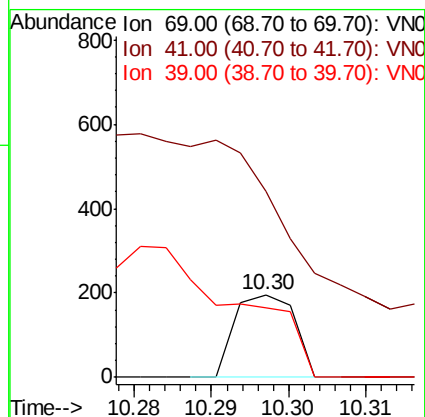
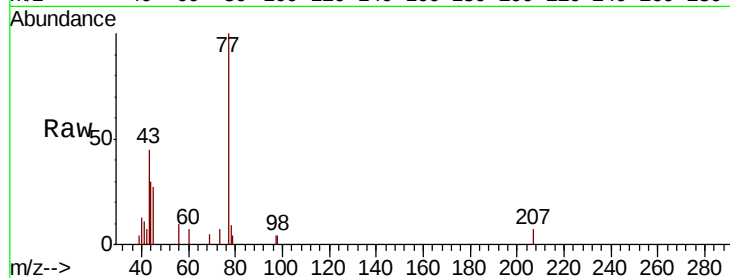
Tot Ion: 69 Resp: 105

Ion Ratio Lower Upper

69 100

41 1232.4 51.0 76.4#

39 365.7 26.6 40.0#



#59

2-Hexanone

Concen: 2.56 ug/l

RT: 10.76 min Scan# 2853

Delta R.T. 0.01 min

Lab File: VN050541.D

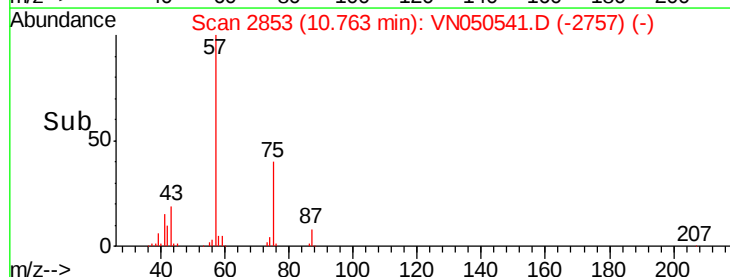
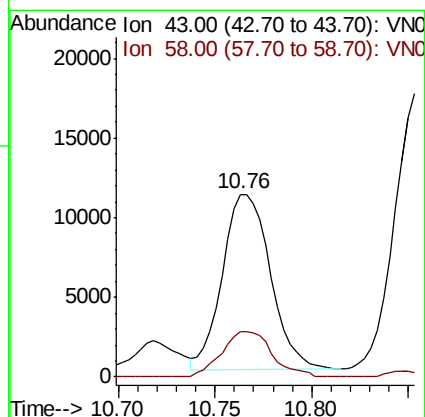
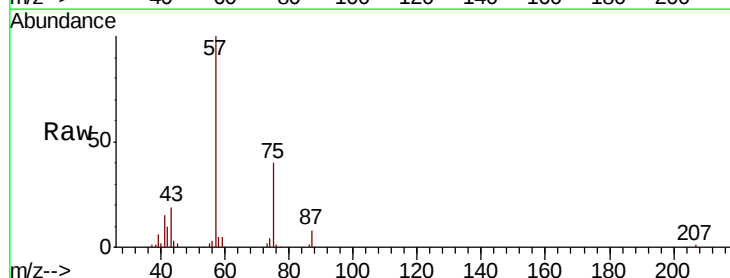
Acq: 11 Aug 2018 1:41

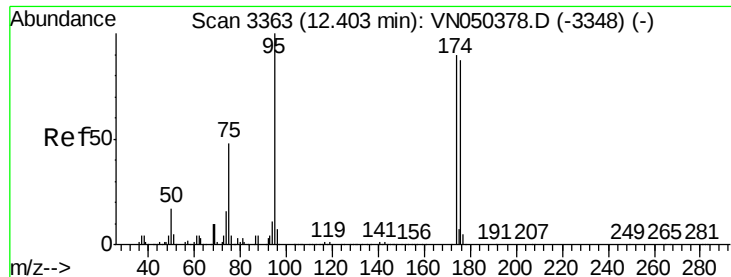
Tgt Ion: 43 Resp: 18994

Ion Ratio Lower Upper

43 100

58 27.2 27.6 82.7#





#62

4-Bromofluorobenzene

Concen: 37.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#15

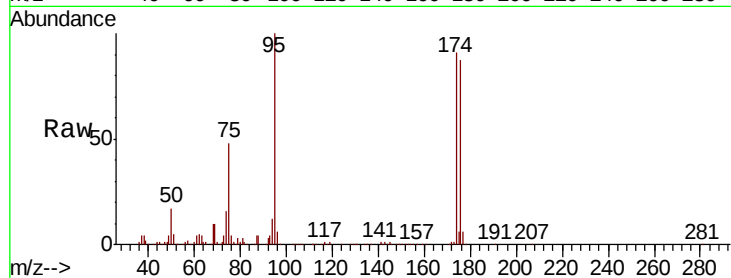
Tot Ion: 95 Resp: 419452

Ion Ratio Lower Upper

95 100

174 91.4 0.0 178.2

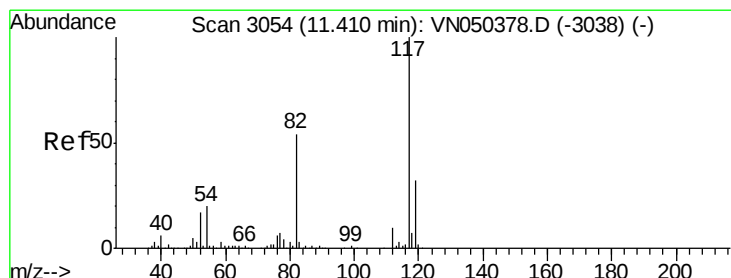
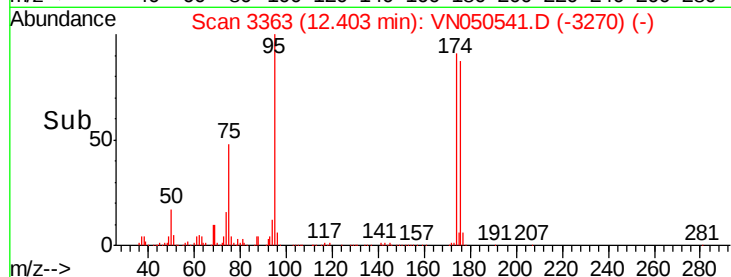
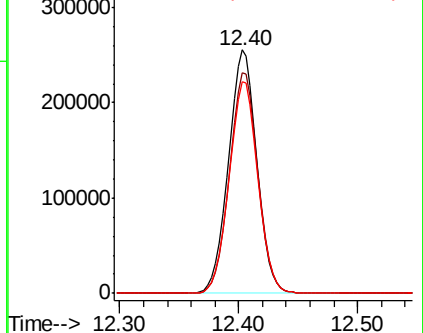
176 88.1 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

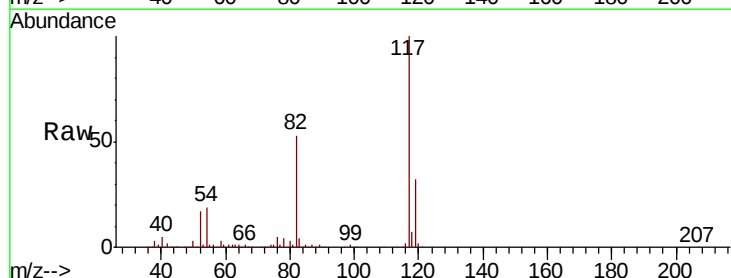
Tgt Ion: 117 Resp: 943007

Ion Ratio Lower Upper

117 100

82 52.8 43.7 65.5

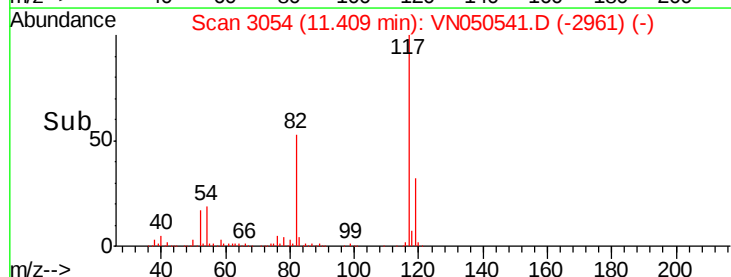
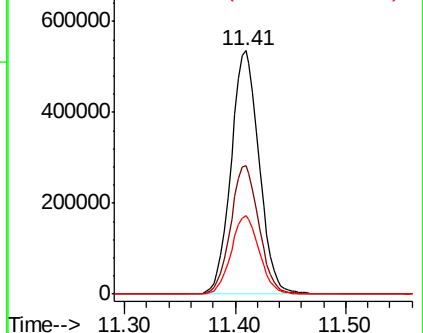
119 32.0 26.1 39.1

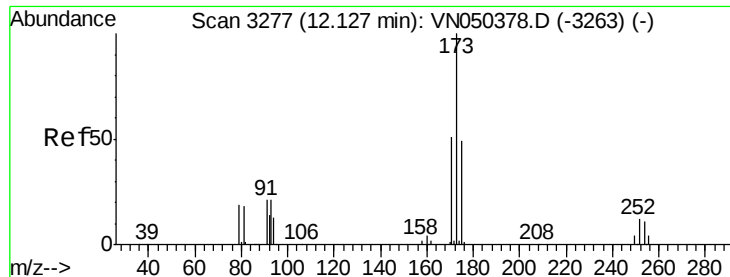


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.62 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#15

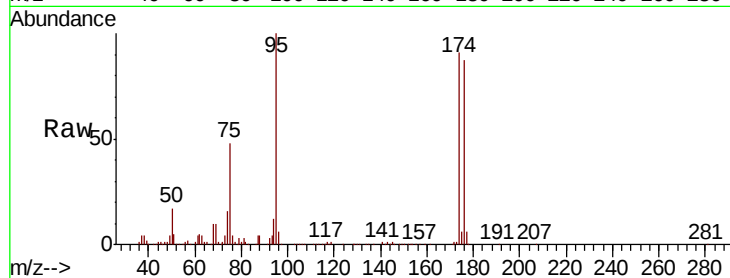
Tot Ion:173 Resp: 3877

Ion Ratio Lower Upper

173 100

175 582.5 24.1 72.2#

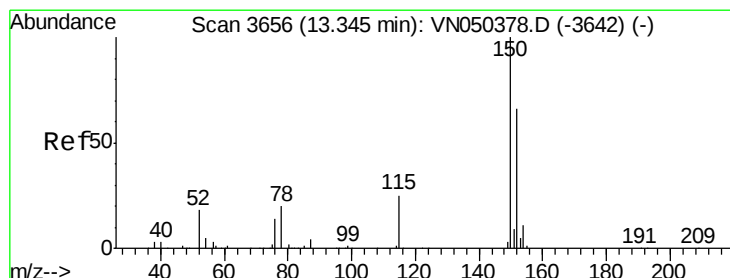
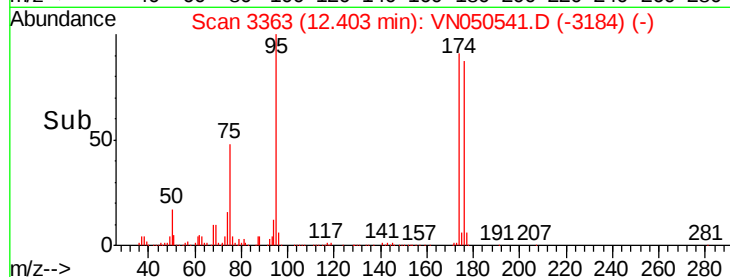
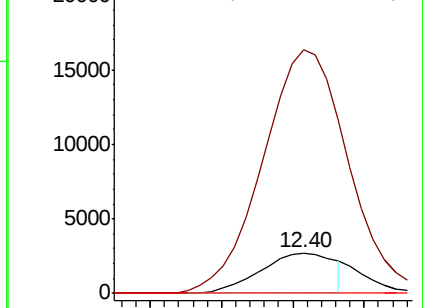
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

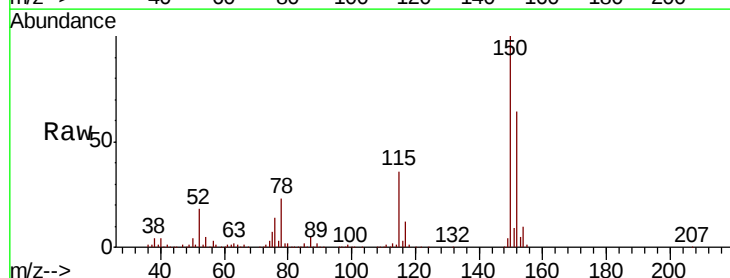
Tgt Ion:152 Resp: 353499

Ion Ratio Lower Upper

152 100

115 57.3 27.8 83.3

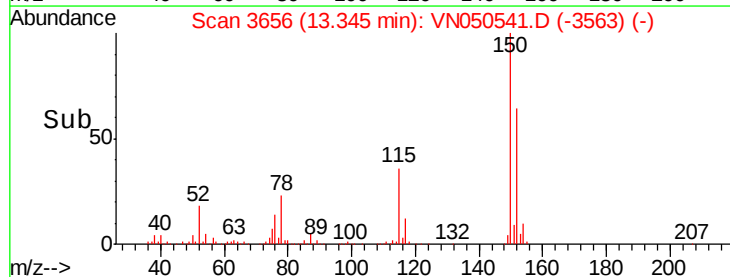
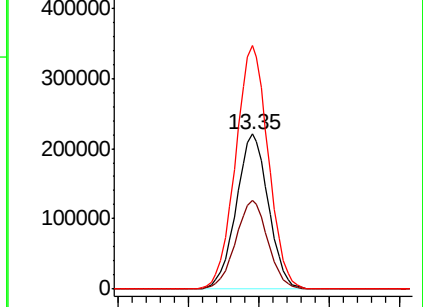
150 159.2 0.0 348.6

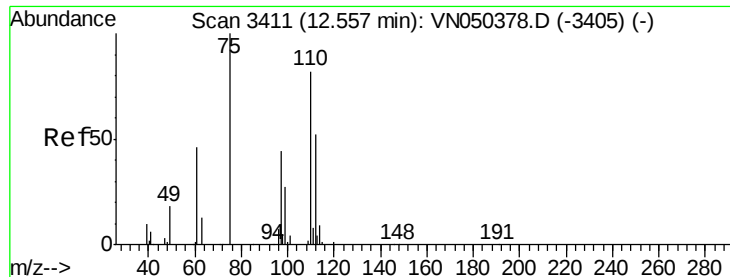


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 31.75 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050541.D

Acq: 11 Aug 2018 1:41

Instrument :

MSVOA_N

ClientSampleId :

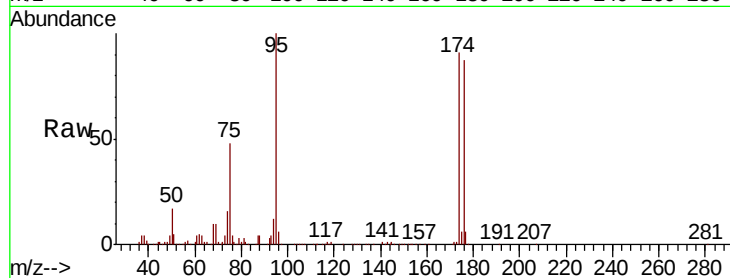
PB111921ZHE#15

Tot Ion: 75 Resp: 203134

Ion Ratio Lower Upper

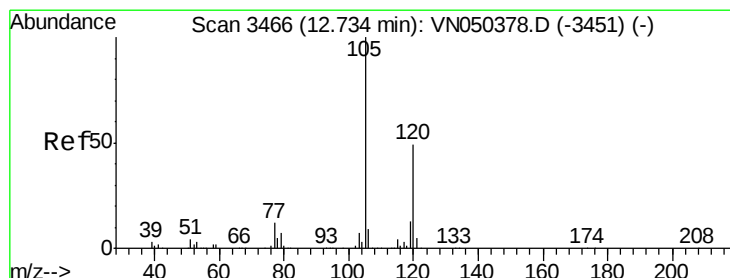
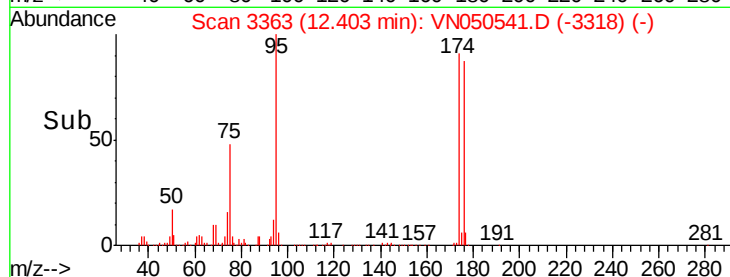
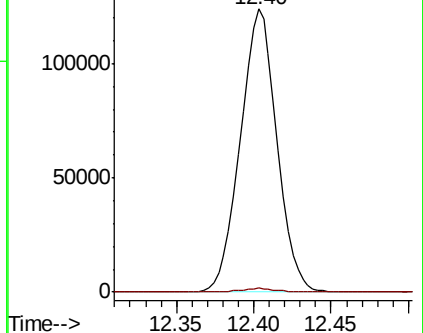
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.20 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN050541.D

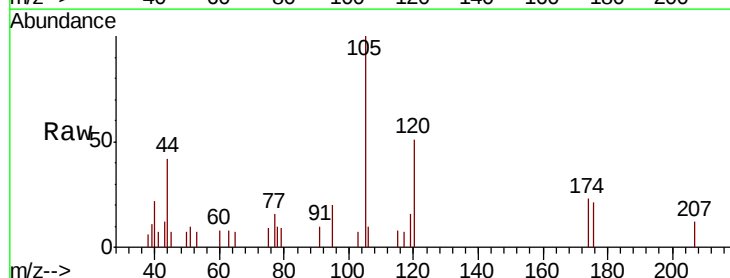
Acq: 11 Aug 2018 1:41

Tgt Ion: 105 Resp: 4354

Ion Ratio Lower Upper

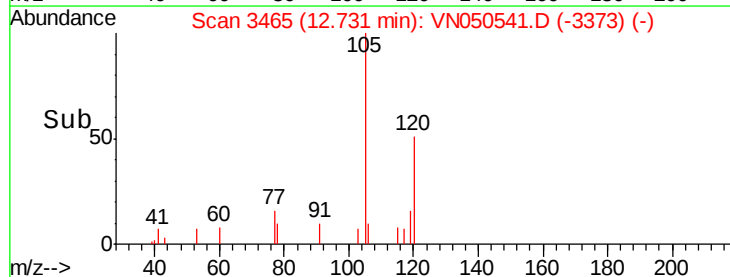
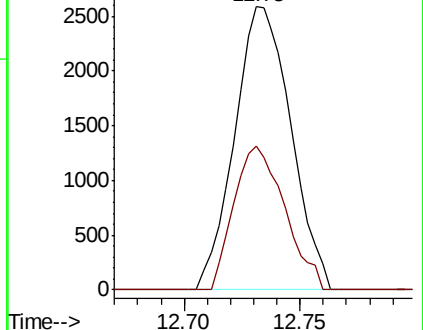
105 100

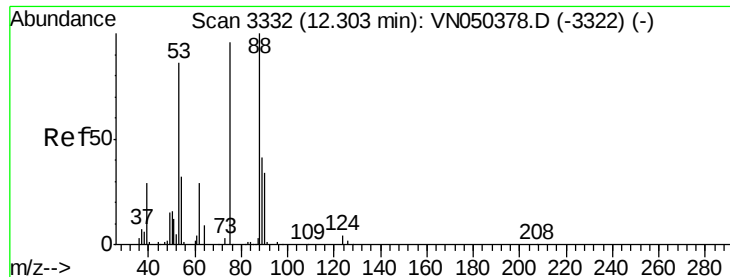
120 45.9 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

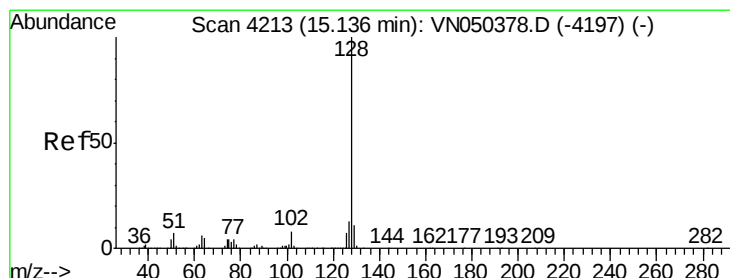
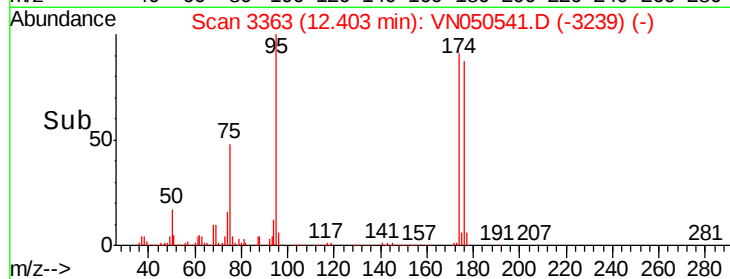
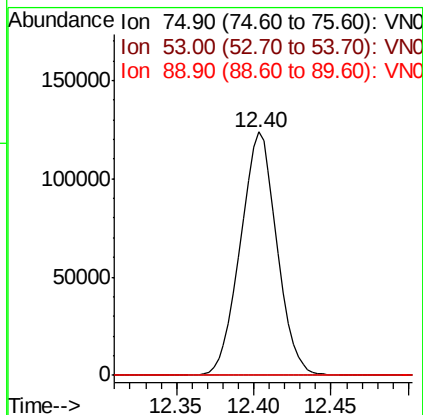
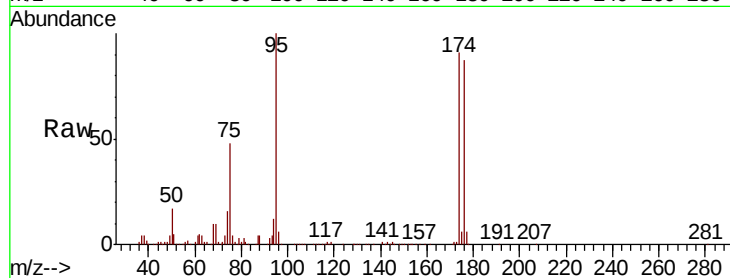




#81
trans-1,4-Dichloro-2-butene
Concen: 111.54 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050541.D
Acq: 11 Aug 2018 1:41

Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#15

Tot Ion: 75 Resp: 203134
Ion Ratio Lower Upper
75 100
53 0.2 73.5 110.3#
89 0.0 36.0 54.0#



#95
Naphthalene
Concen: 3.64 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN050541.D
Acq: 11 Aug 2018 1:41

Tgt Ion: 128 Resp: 428
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.8 13.2#

