

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080818\
 Data File : VN050463.D
 Acq On : 8 Aug 2018 16:53
 Operator : MD\SY
 Sample : PB111846ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111846ZHE#03

Quant Time: Aug 09 00:57:33 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	845503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1318525	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1154718	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	464458	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	534028	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
35) Dibromofluoromethane	7.59	113	482962	45.65	ug/l	0.00
Spiked Amount			Recovery	=	91.30%	
50) Toluene-d8	10.09	98	1800872	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	
62) 4-Bromofluorobenzene	12.40	95	545040	40.20	ug/l	0.00
Spiked Amount			Recovery	=	80.40%	

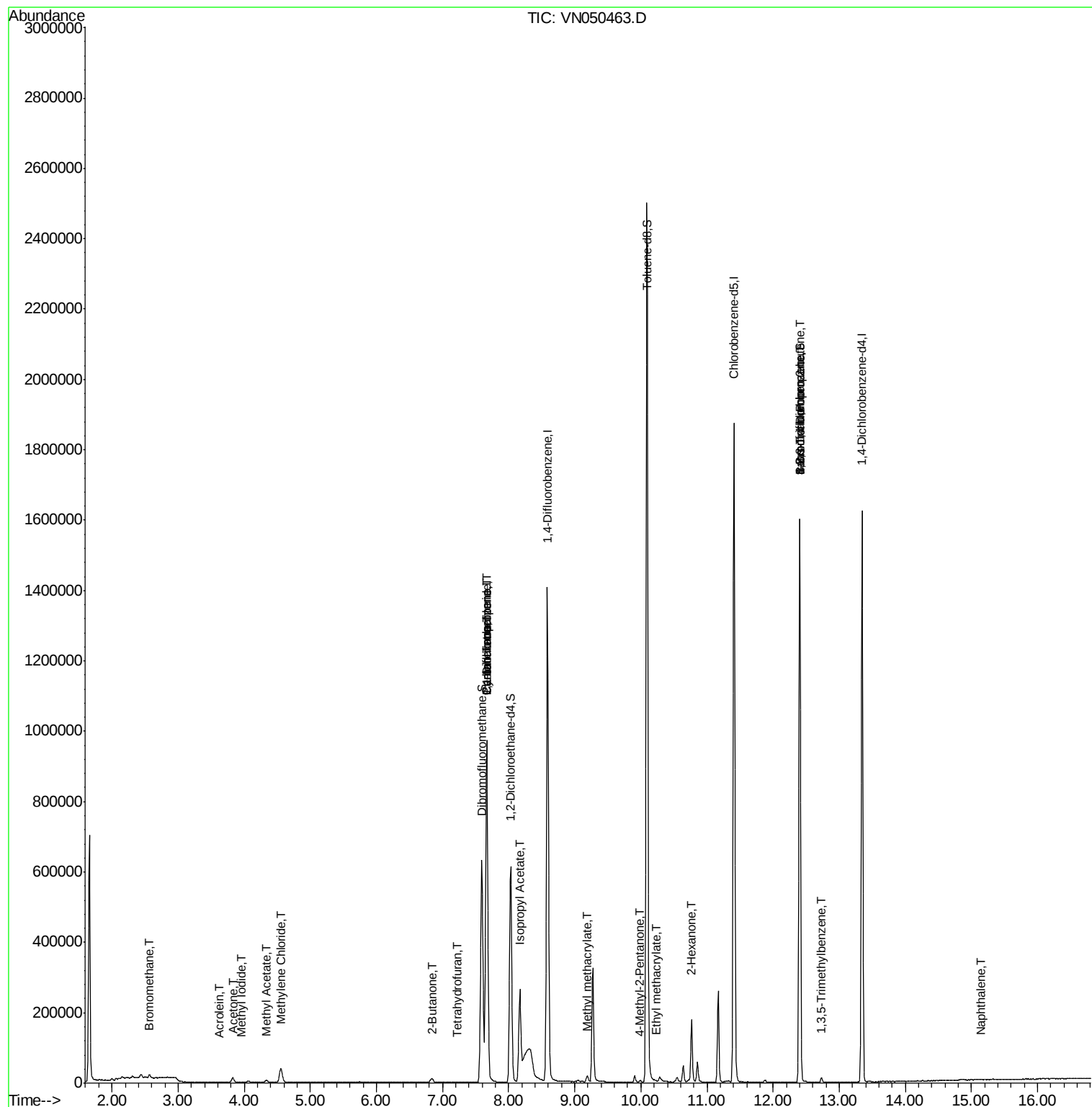
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3716	Below Cal		90
5) Bromomethane	2.56	94	5157	1.04	ug/l	94
10) Methyl Iodide	3.95	142	2019	0.47	ug/l #	46
13) Acrolein	3.63	56	29	15.05	ug/l #	15
16) Acetone	3.83	43	22684	6.38	ug/l	97
18) Methyl Acetate	4.33	43	13287	1.33	ug/l	99
20) Methylene Chloride	4.55	84	32860	1.69	ug/l	94
25) 2-Butanone	6.85	43	3353	0.60	ug/l #	86
29) Tetrahydrofuran	7.22	42	1632	0.54	ug/l #	62
31) Cyclohexane	7.67	56	14448	0.27	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	56347	3.89	ug/l #	48
38) Carbon Tetrachloride	7.67	117	74543	4.93	ug/l #	16
43) Isopropyl Acetate	8.17	43	327224	18.17	ug/l	99
48) Methyl methacrylate	9.18	41	10216	1.13	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	3965	0.31	ug/l	95
56) Ethyl methacrylate	10.23	69	3348	1.93	ug/l #	83
59) 2-Hexanone	10.77	43	23652	2.61	ug/l #	57
71) Bromoform	12.41	173	3814	0.50	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	259721	30.89	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5753	0.20	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	259721	108.54	ug/l #	13
95) Naphthalene	15.13	128	1134	3.67	ug/l #	73

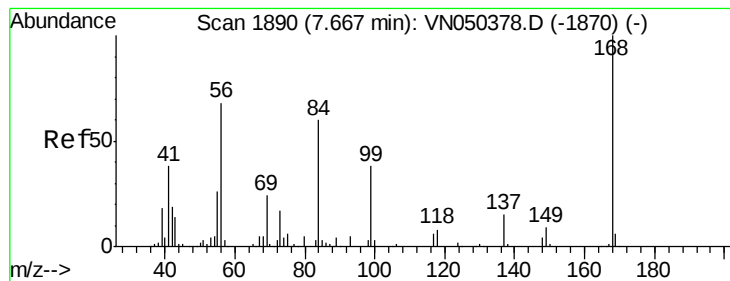
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN080818\
Data File : VN050463.D
Acq On : 8 Aug 2018 16:53
Operator : MD\SY
Sample : PB111846ZHE#03
Misc : 5.00mL/MSVOA N/WATER
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Quant Time: Aug 09 00:57:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

Instrument :

MSVOA_N

ClientSampleId :

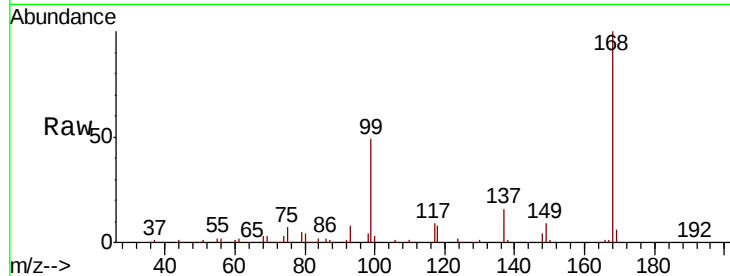
PB111846ZHE#03

Tot Ion:168 Resp: 845503

Ion Ratio Lower Upper

168 100

99 49.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050378.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1870) (-)

7.67

400000

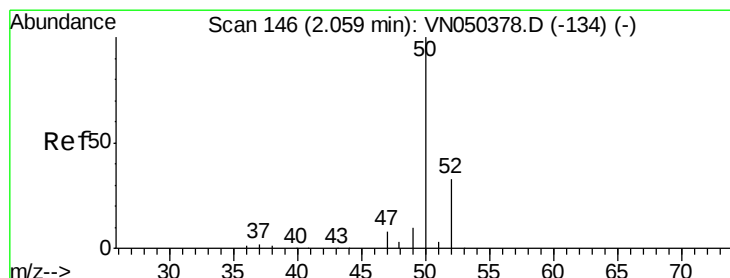
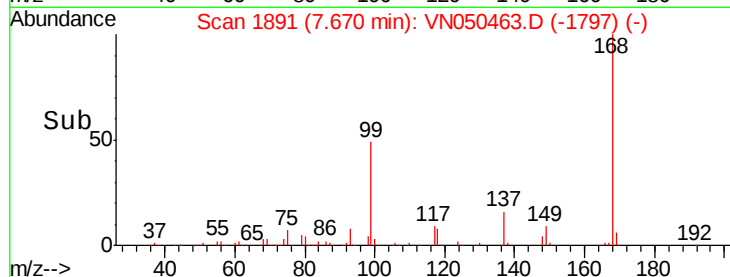
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050463.D

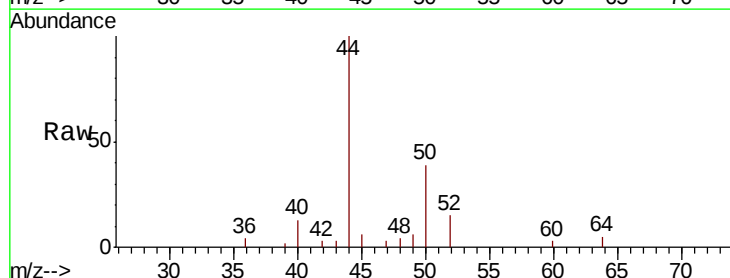
Acq: 8 Aug 2018 16:53

Tgt Ion: 50 Resp: 3716

Ion Ratio Lower Upper

50 100

52 37.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN050378.D (-134) (-)

Ion 51.90 (51.60 to 52.60): VN050378.D (-134) (-)

2.06

2500

2000

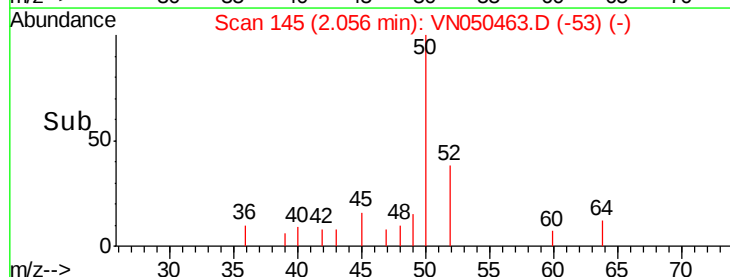
1500

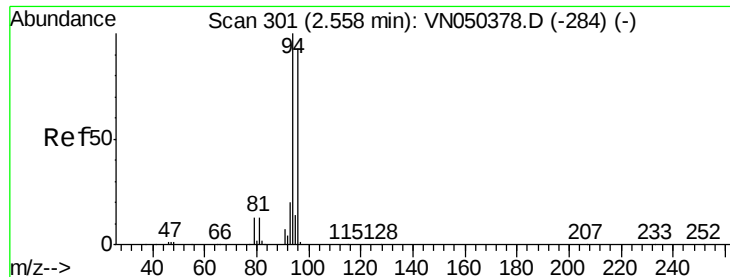
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.04 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

Instrument :

MSVOA_N

ClientSampleId :

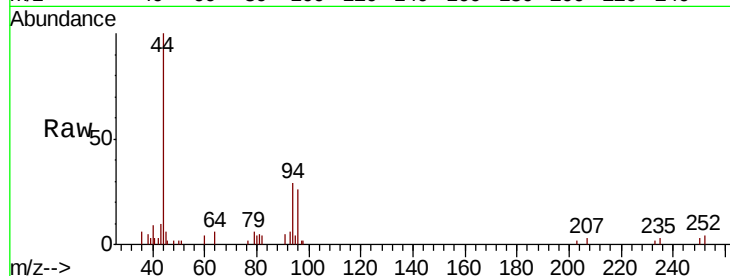
PB111846ZHE#03

Tot Ion: 94 Resp: 5157

Ion Ratio Lower Upper

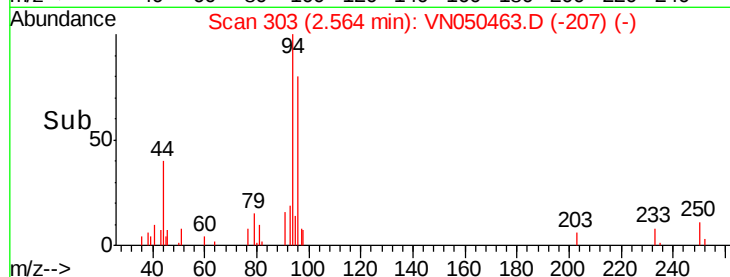
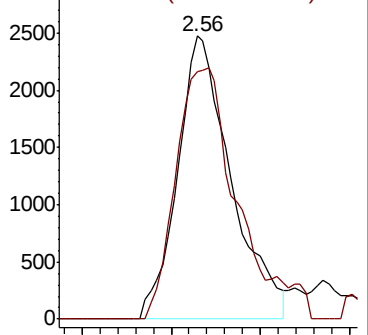
94 100

96 87.4 74.6 112.0

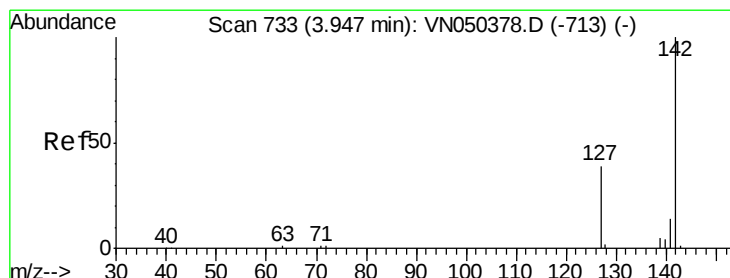


Abundance Ion 93.90 (93.60 to 94.60): VN050463.D (-207) (-)

Ion 95.90 (95.60 to 96.60): VN050463.D (-207) (-)



Time-->



#10

Methyl Iodide

Concen: 0.47 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.01 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

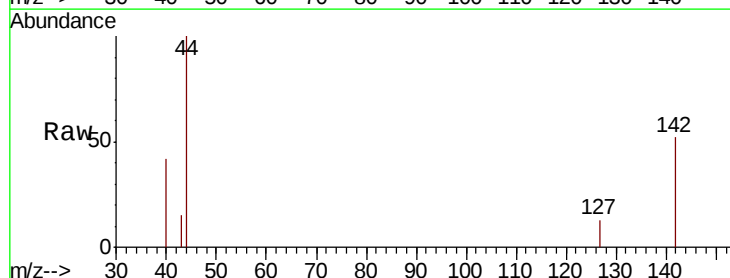
Tgt Ion: 142 Resp: 2019

Ion Ratio Lower Upper

142 100

127 3.2 33.4 50.2#

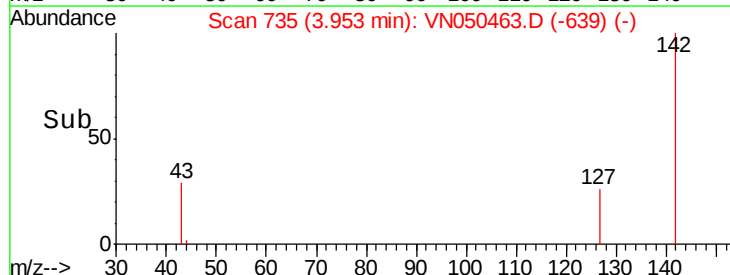
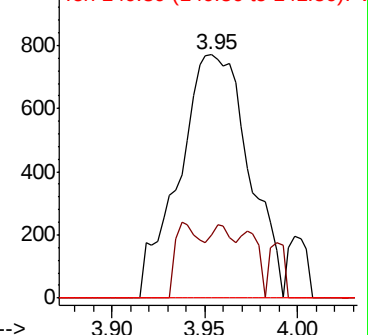
141 0.0 11.6 17.4#



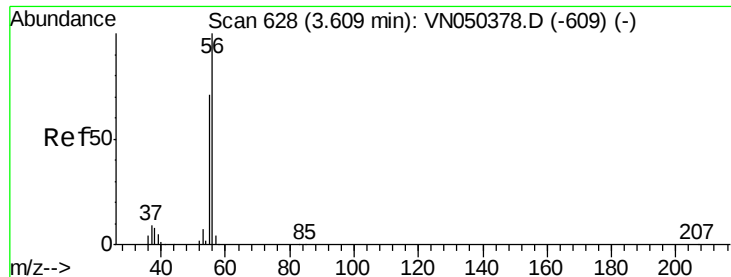
Abundance Ion 141.80 (141.50 to 142.50): VN050463.D (-639) (-)

Ion 126.80 (126.50 to 127.50): VN050463.D (-639) (-)

Ion 140.80 (140.50 to 141.50): VN050463.D (-639) (-)



Time-->



#13

Acrolein

Concen: 15.05 ug/l

RT: 3.63 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

Instrument :

MSVOA_N

ClientSampleId :

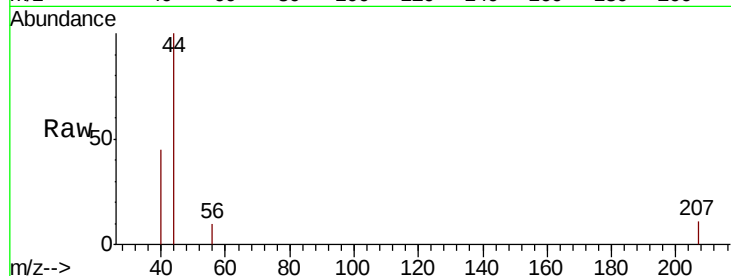
PB111846ZHE#03

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

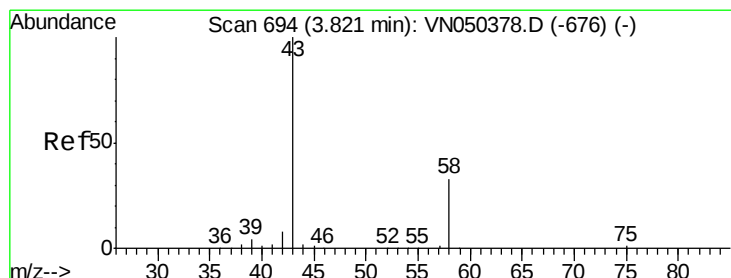
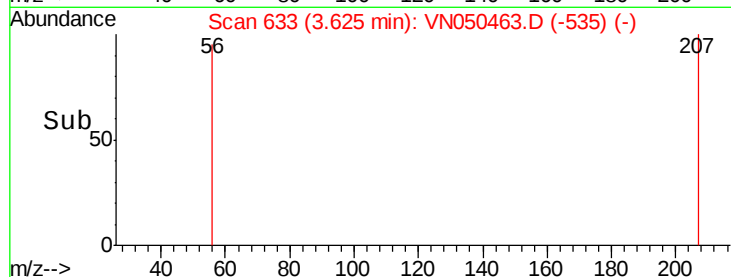
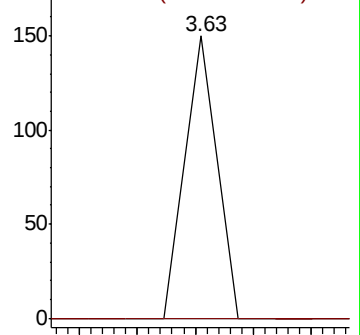
56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 6.38 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050463.D

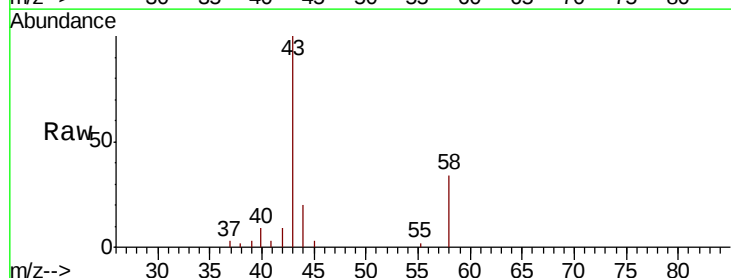
Acq: 8 Aug 2018 16:53

Tgt Ion: 43 Resp: 22684

Ion Ratio Lower Upper

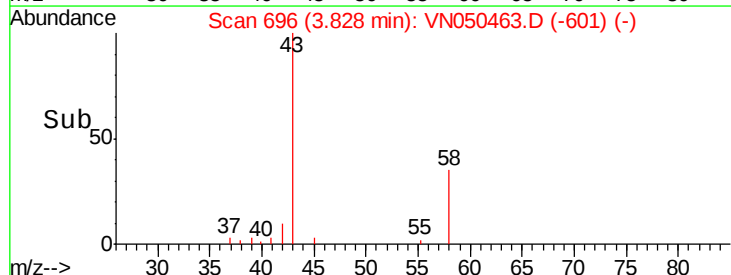
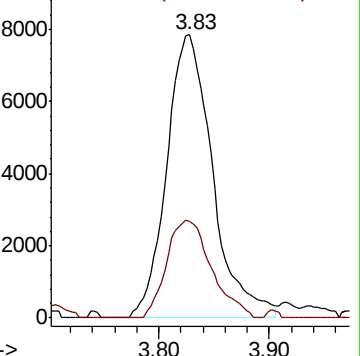
43 100

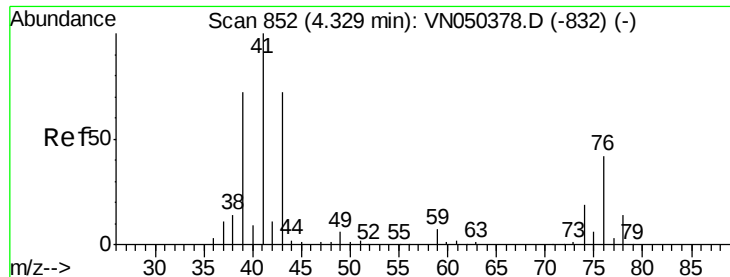
58 34.1 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

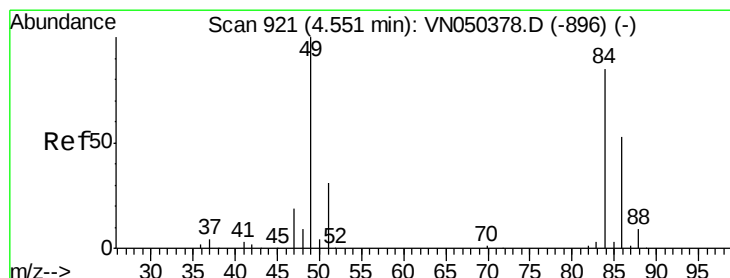
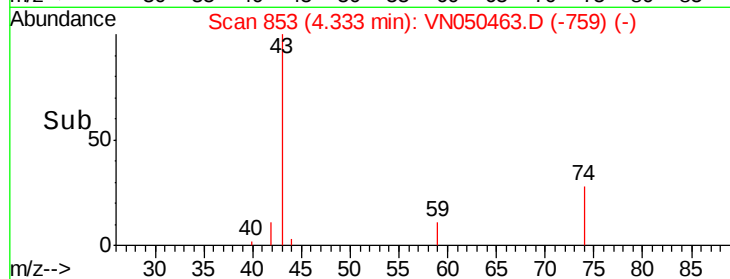
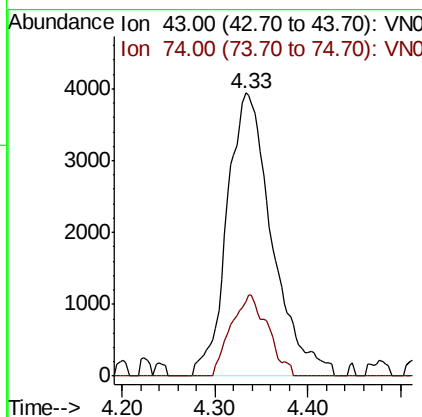
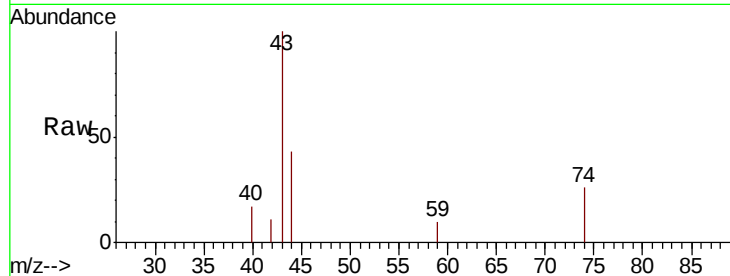




#18
Methyl Acetate
Concen: 1.33 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050463.D
Acq: 8 Aug 2018 16:53

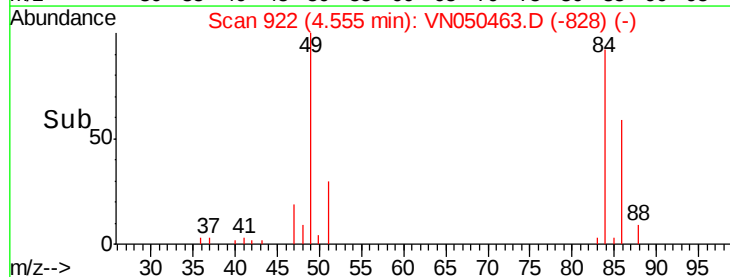
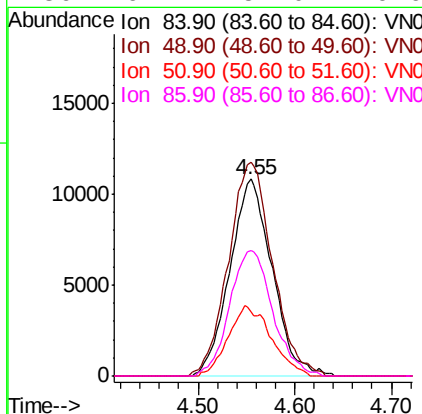
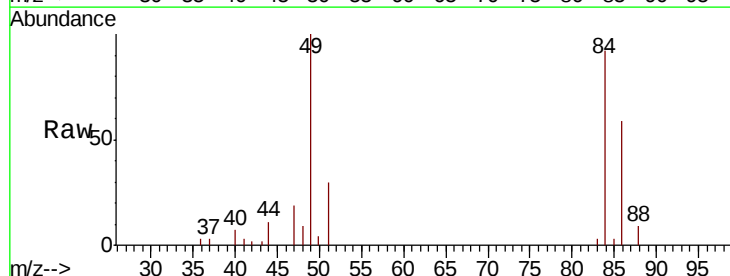
Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#03

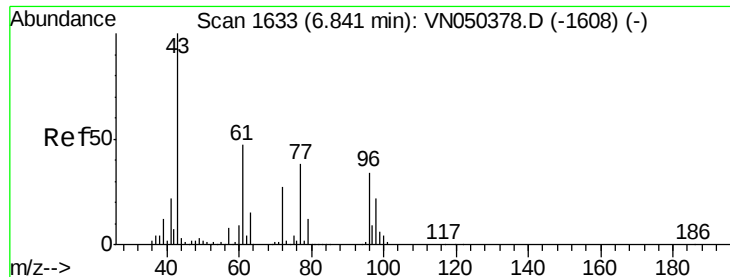
Tot Ion: 43 Resp: 13287
Ion Ratio Lower Upper
43 100
74 23.5 19.2 28.8



#20
Methylene Chloride
Concen: 1.69 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050463.D
Acq: 8 Aug 2018 16:53

Tgt Ion: 84 Resp: 32860
Ion Ratio Lower Upper
84 100
49 108.6 94.8 142.2
51 32.6 28.3 42.5
86 64.1 51.0 76.6





#25

2-Butanone

Concen: 0.60 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

Instrument :

MSVOA_N

ClientSampleId :

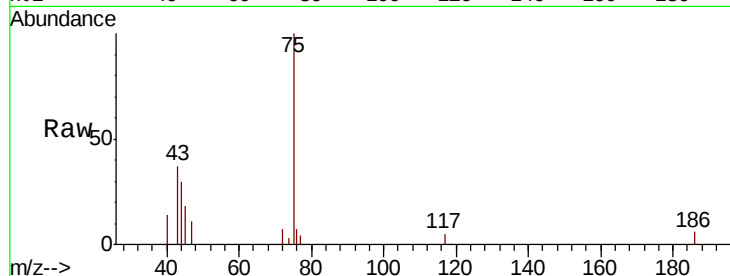
PB111846ZHE#03

Tot Ion: 43 Resp: 3353

Ion Ratio Lower Upper

43 100

72 19.9 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

2000

1500

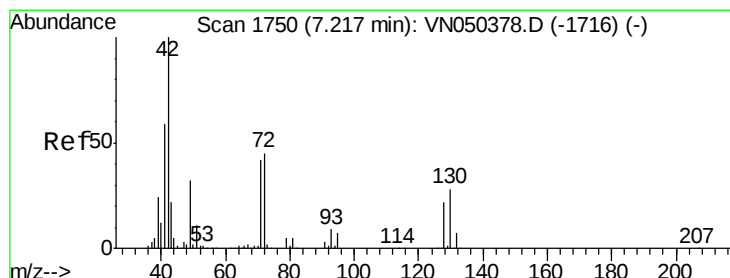
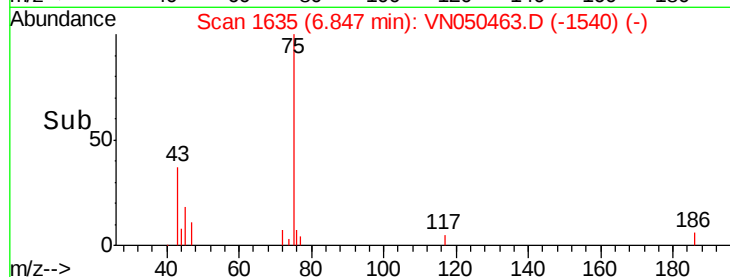
1000

500

0

6.80 6.85

Time-->



#29

Tetrahydrofuran

Concen: 0.54 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

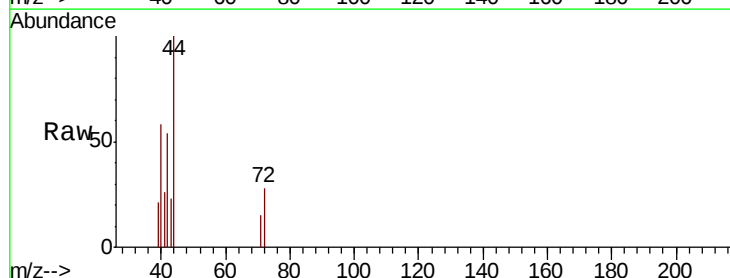
Tgt Ion: 42 Resp: 1632

Ion Ratio Lower Upper

42 100

72 27.7 35.9 53.9#

71 10.7 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

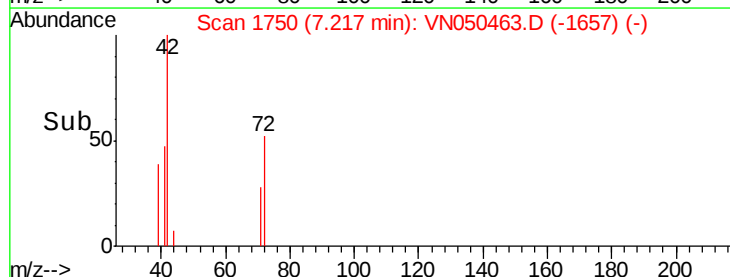
400

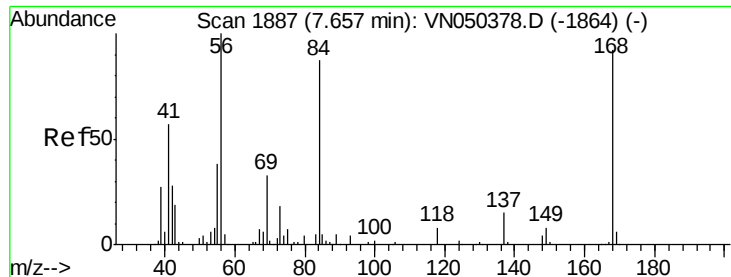
200

0

7.15 7.20 7.25

Time-->

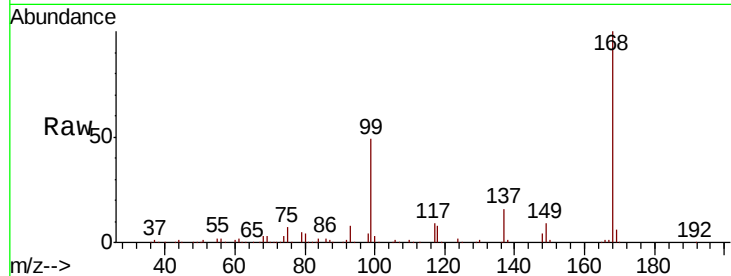




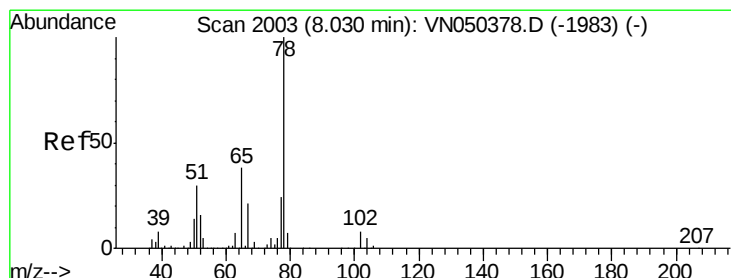
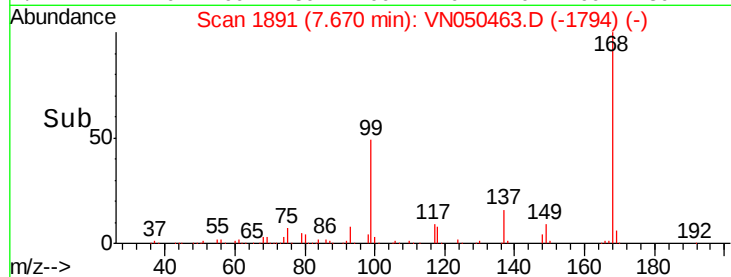
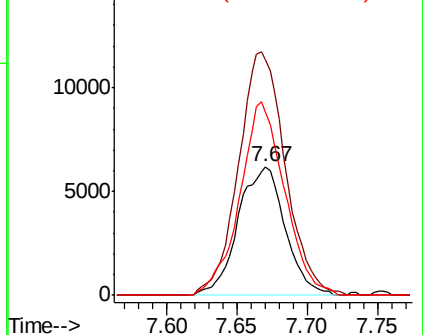
#31
Cyclohexane
Concen: 0.27 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050463.D
Acq: 8 Aug 2018 16:53

Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#03

Tot Ion: 56 Resp: 14448
Ion Ratio Lower Upper
56 100
69 183.6 26.2 39.4#
84 142.6 67.4 101.0#

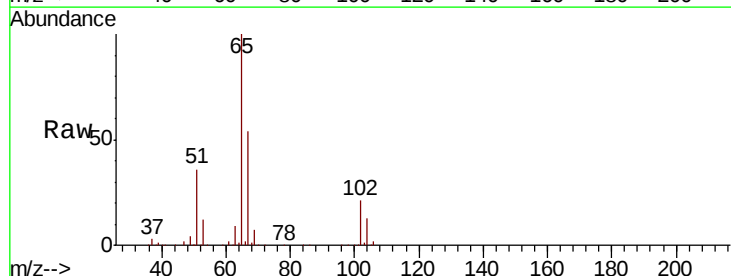


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

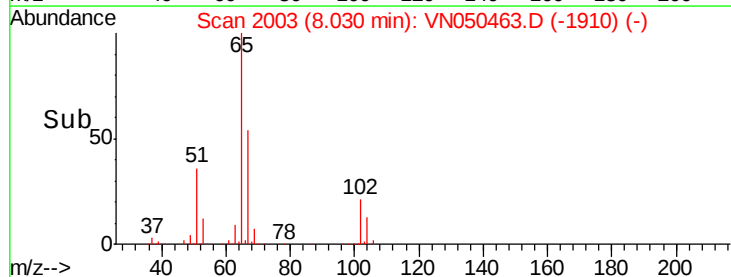
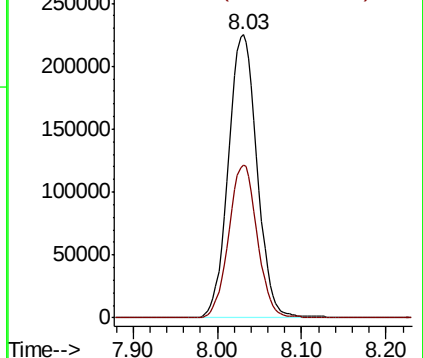


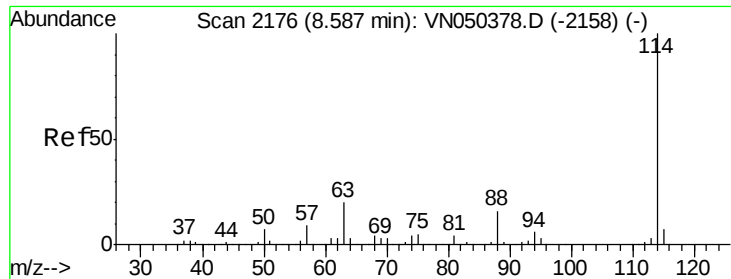
#33
1,2-Dichloroethane-d4
Concen: 47.27 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050463.D
Acq: 8 Aug 2018 16:53

Tgt Ion: 65 Resp: 534028
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.4



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

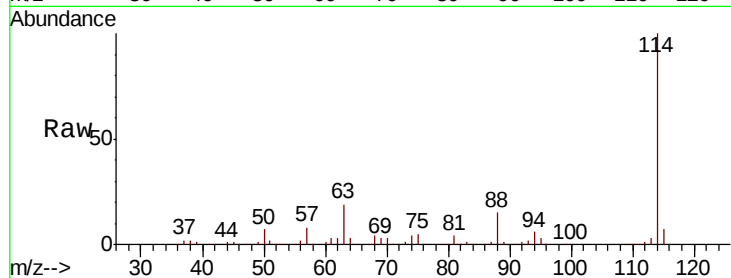




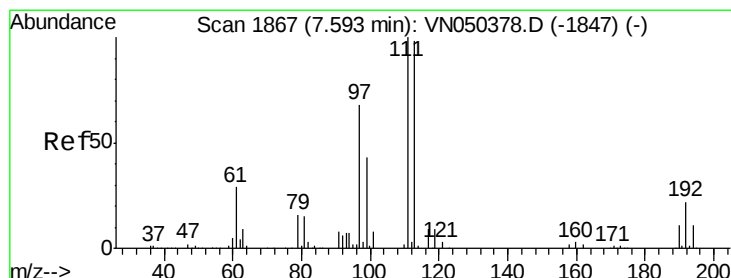
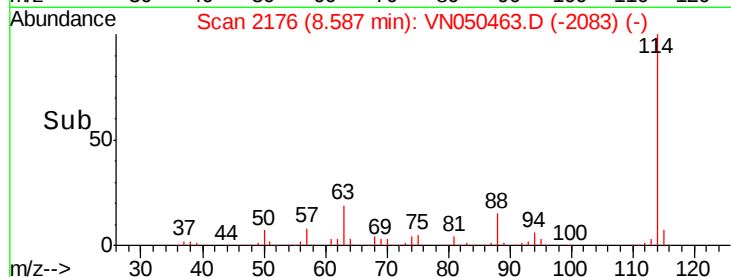
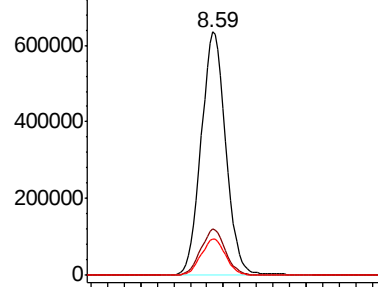
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050463.D
 Acq: 8 Aug 2018 16:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111846ZHE#03

Tot Ion:114 Resp: 1318525
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.0
 88 15.1 0.0 31.2

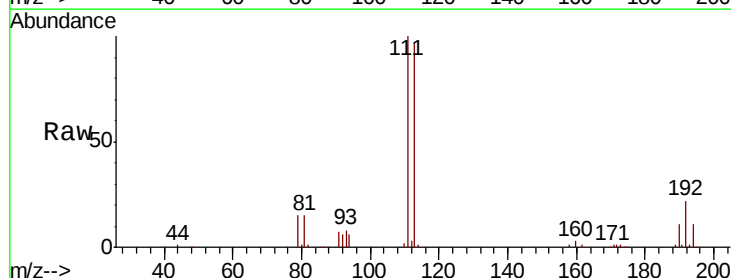


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

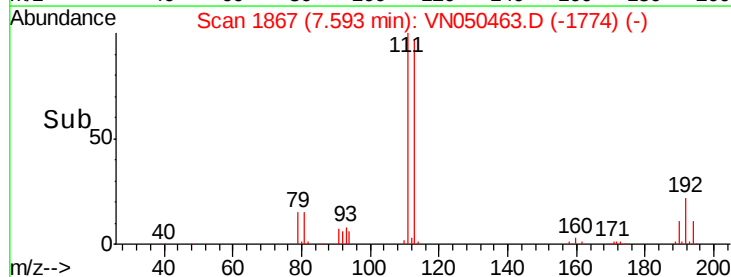
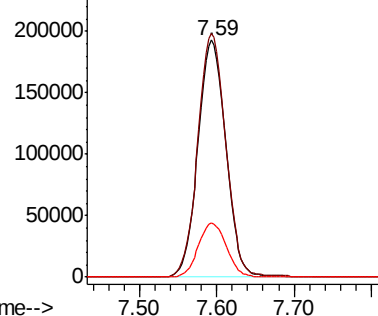


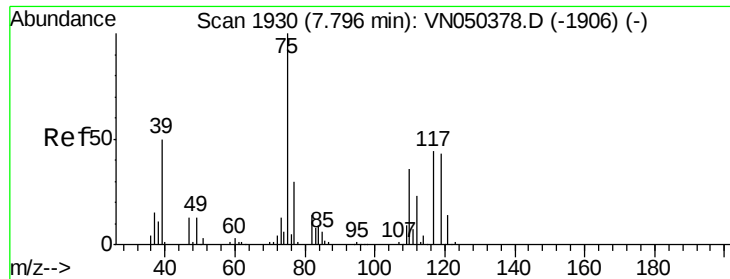
#35
 Dibromofluoromethane
 Concen: 45.65 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050463.D
 Acq: 8 Aug 2018 16:53

Tgt Ion:113 Resp: 482962
 Ion Ratio Lower Upper
 113 100
 111 102.2 80.7 121.1
 192 22.9 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

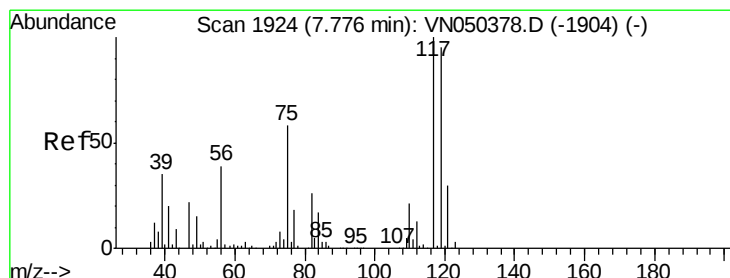
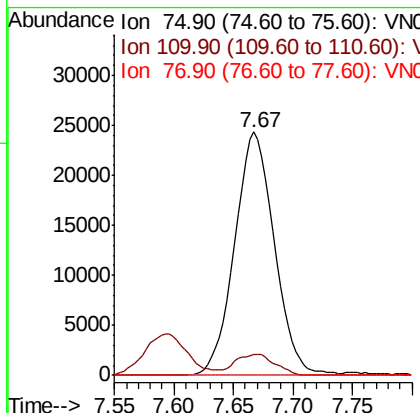
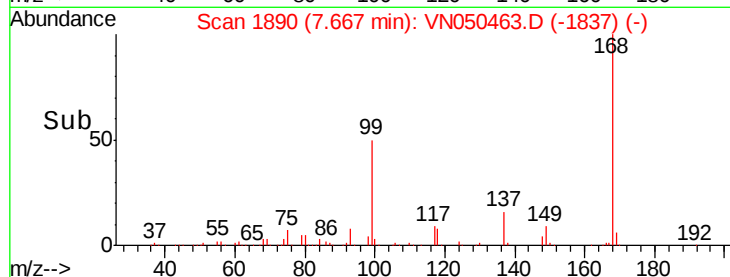
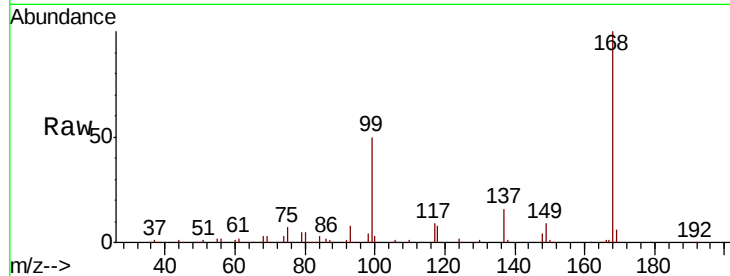




#36
 1,1-Dichloropropene
 Concen: 3.89 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050463.D
 Acq: 8 Aug 2018 16:53

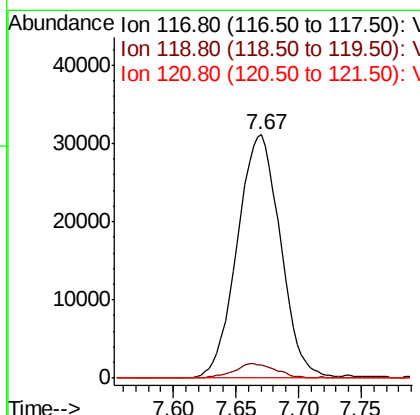
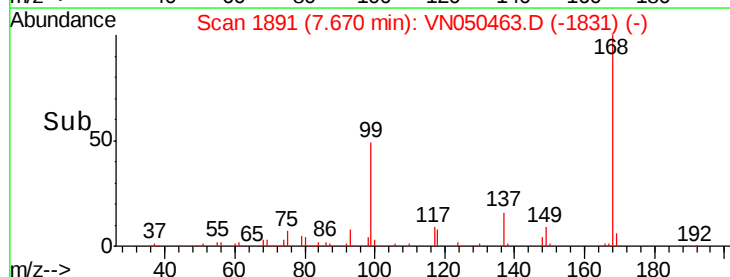
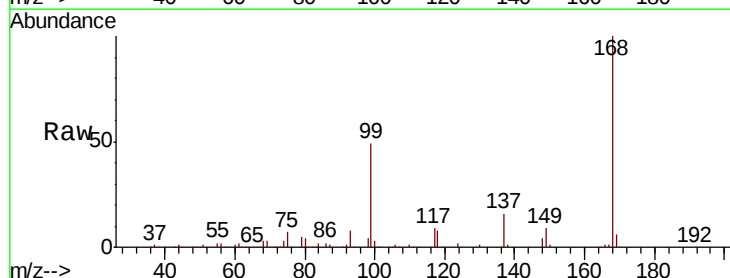
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111846ZHE#03

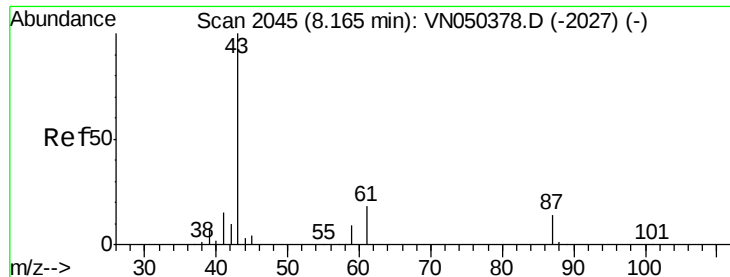
Tot Ion: 75 Resp: 56347
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.93 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050463.D
 Acq: 8 Aug 2018 16:53

Tgt Ion: 117 Resp: 74543
 Ion Ratio Lower Upper
 117 100
 119 5.3 77.4 116.0#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 18.17 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#03

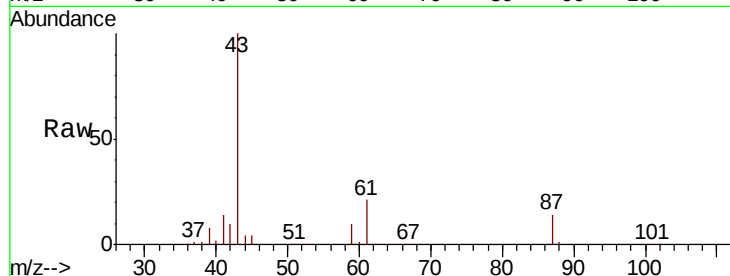
Tot Ion: 43 Resp: 327224

Ion Ratio Lower Upper

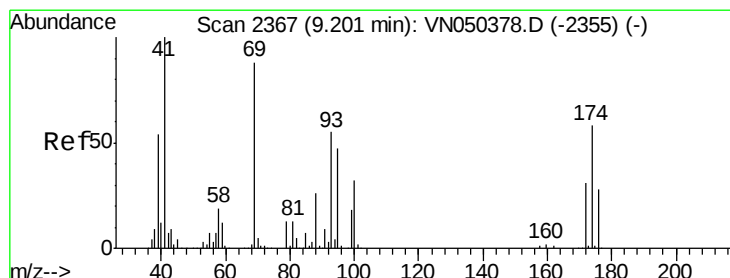
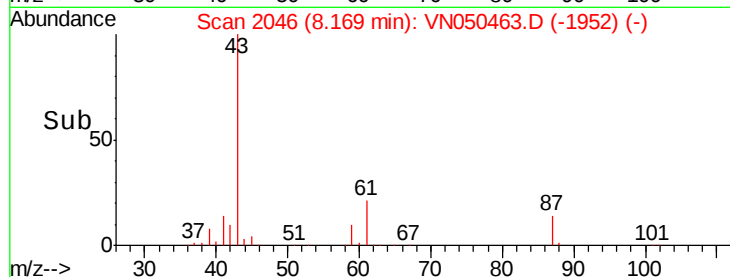
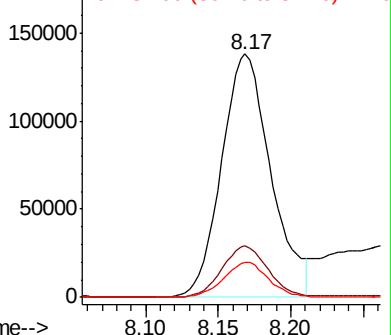
43 100

61 19.8 15.8 23.6

87 13.3 10.3 15.5



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



#48

Methyl methacrylate

Concen: 1.13 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

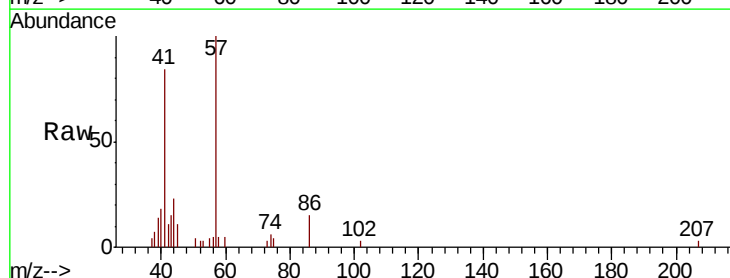
Tgt Ion: 41 Resp: 10216

Ion Ratio Lower Upper

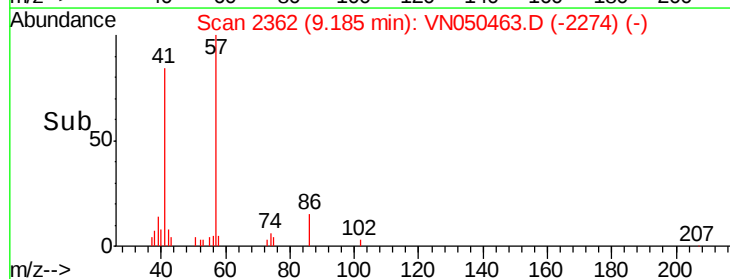
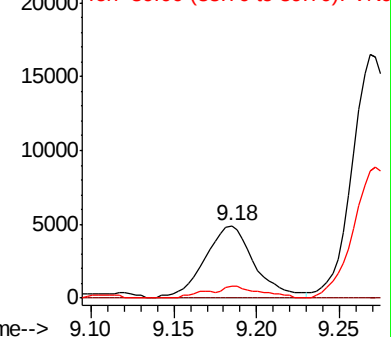
41 100

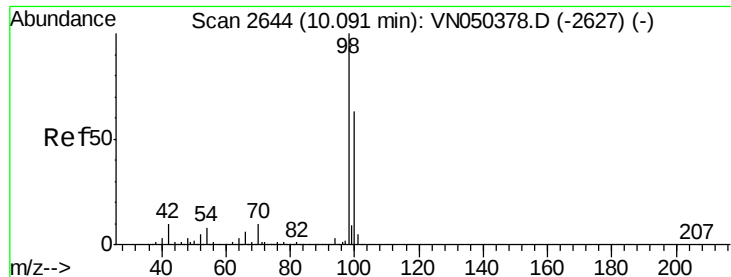
69 0.0 70.6 105.8#

39 12.5 43.9 65.9#



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

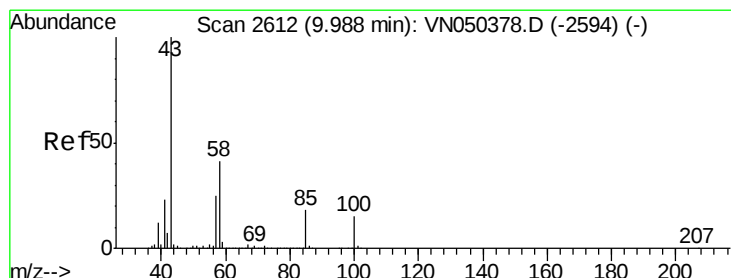
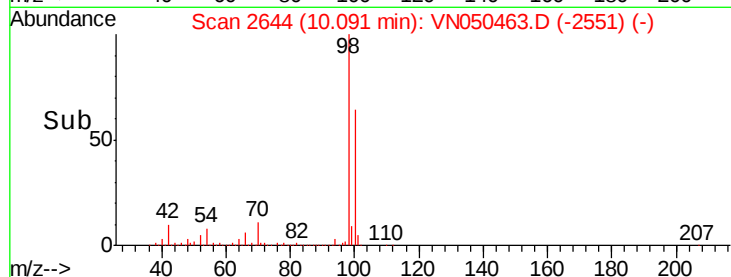
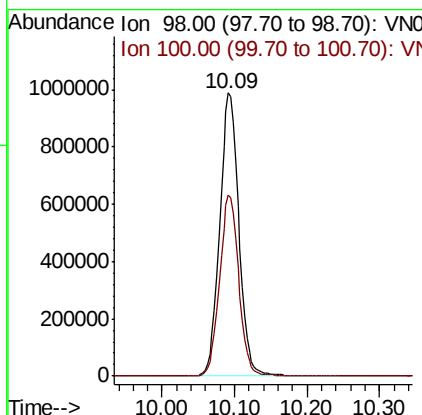
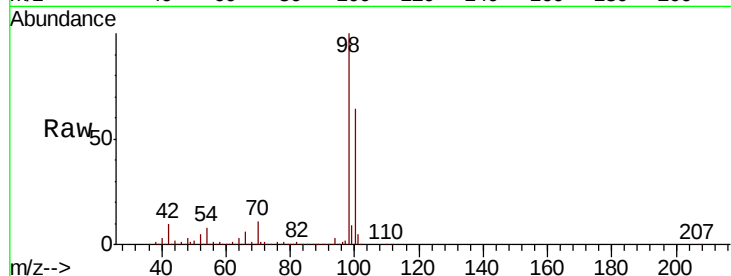




#50
Toluene-d8
Concen: 45.27 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050463.D
Acq: 8 Aug 2018 16:53

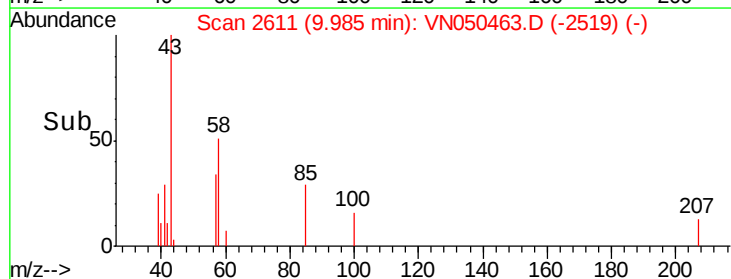
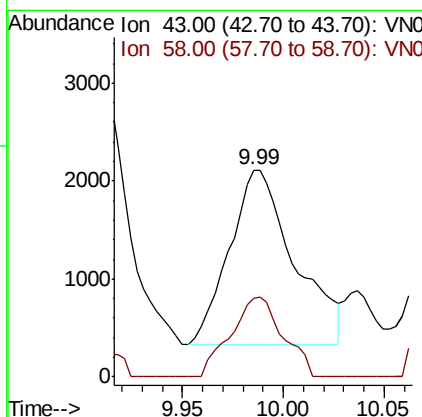
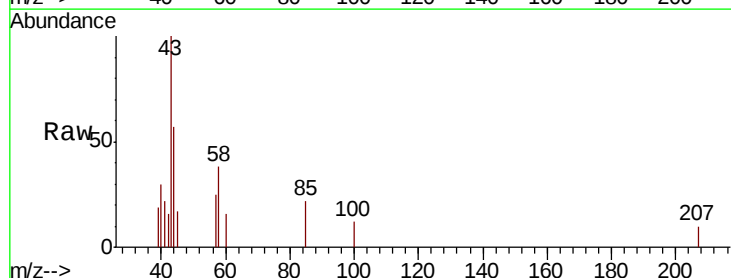
Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#03

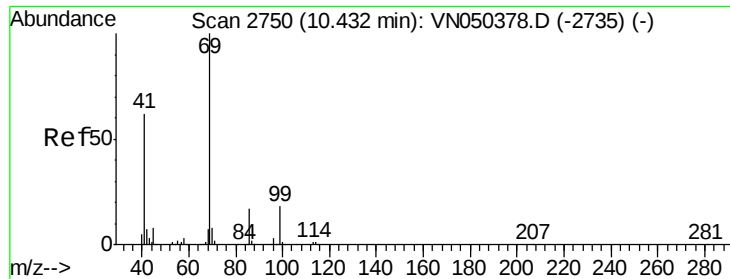
Tot Ion: 98 Resp: 1800872
Ion Ratio Lower Upper
98 100
100 63.9 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.31 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050463.D
Acq: 8 Aug 2018 16:53

Tgt Ion: 43 Resp: 3965
Ion Ratio Lower Upper
43 100
58 37.0 31.9 47.9





#56

Ethyl methacrylate

Concen: 1.93 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#03

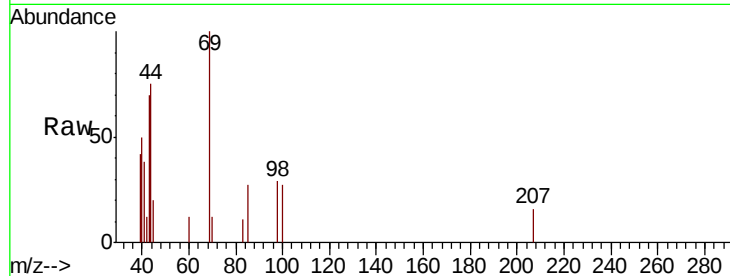
Tot Ion: 69 Resp: 3348

Ion Ratio Lower Upper

69 100

41 54.5 51.0 76.4

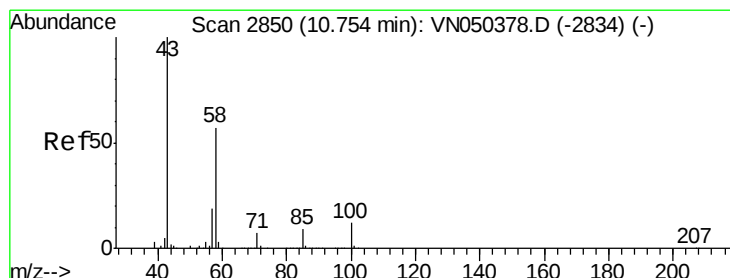
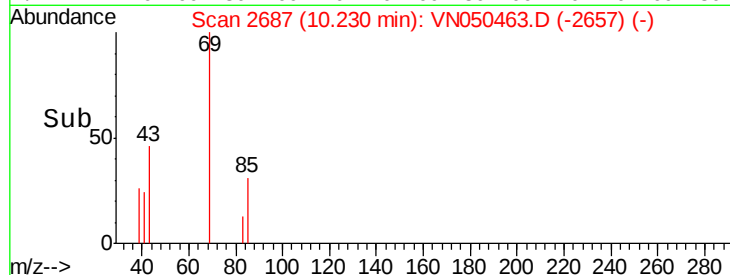
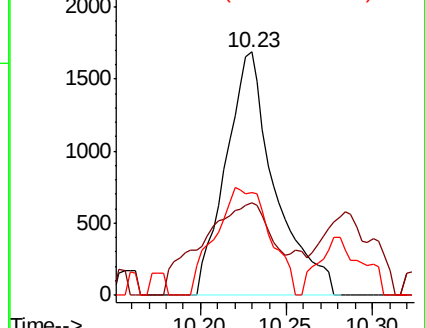
39 49.4 26.6 40.0#



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: 2.61 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050463.D

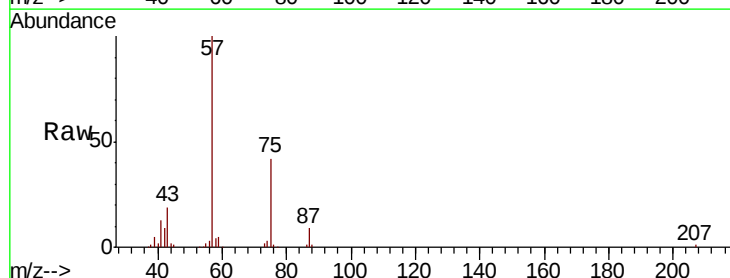
Acq: 8 Aug 2018 16:53

Tgt Ion: 43 Resp: 23652

Ion Ratio Lower Upper

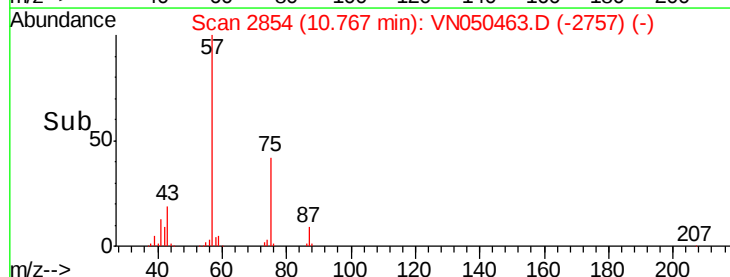
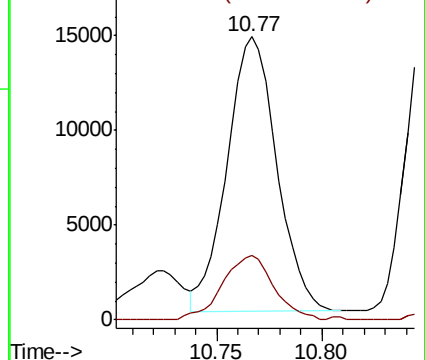
43 100

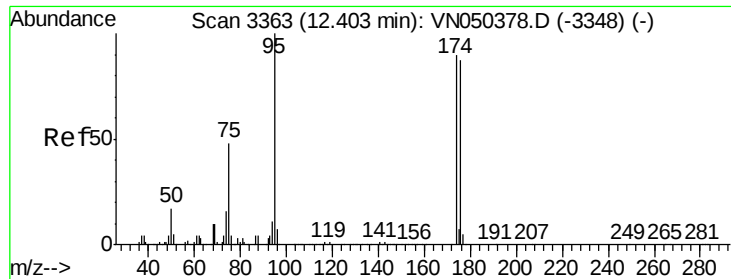
58 24.2 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

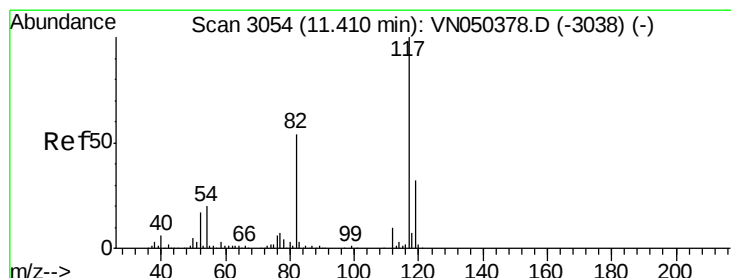
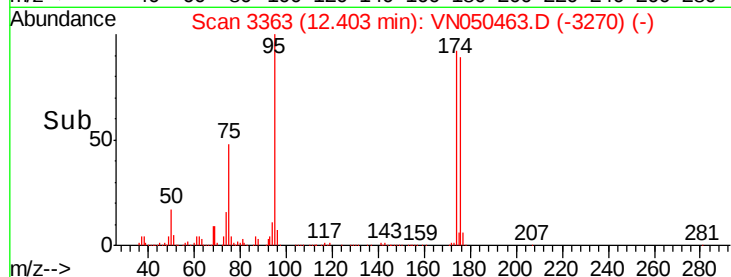
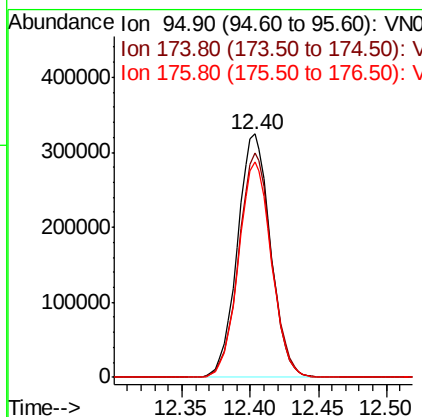
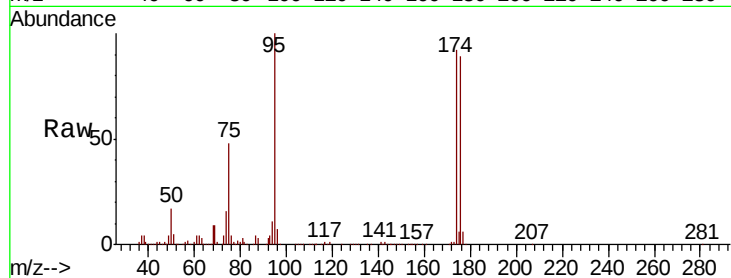




#62
4-Bromofluorobenzene
Concen: 40.20 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050463.D
Acq: 8 Aug 2018 16:53

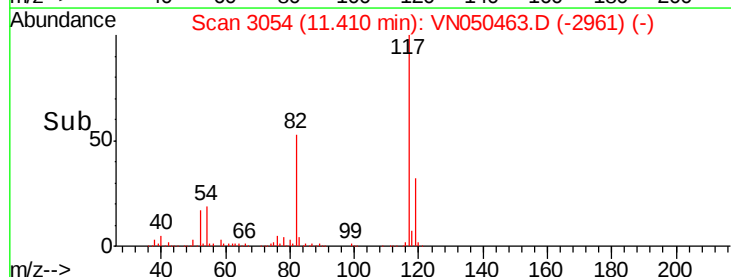
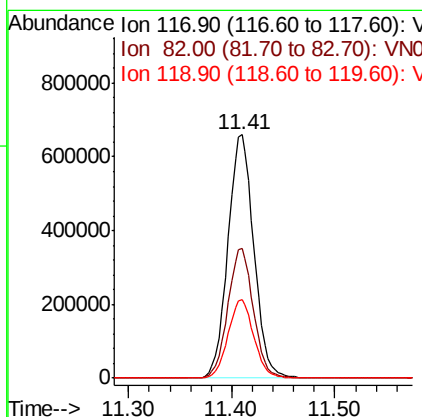
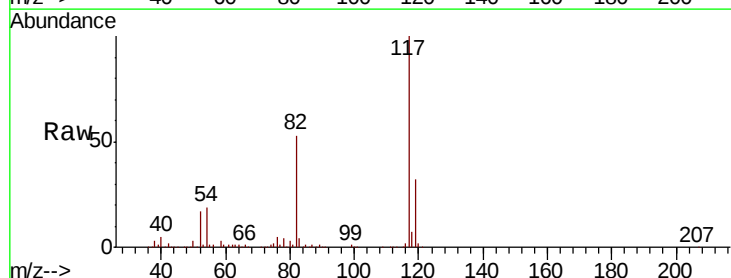
Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#03

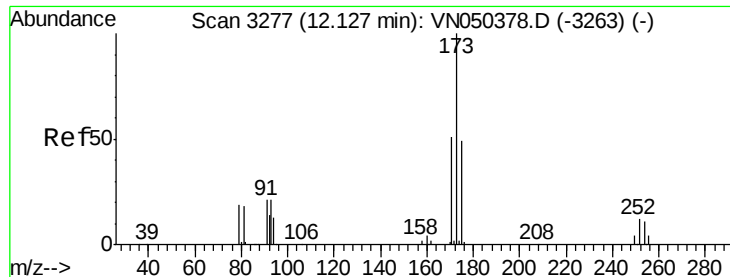
Tot Ion: 95 Resp: 545040
Ion Ratio Lower Upper
95 100
174 91.9 0.0 178.2
176 88.0 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050463.D
Acq: 8 Aug 2018 16:53

Tgt Ion: 117 Resp: 1154718
Ion Ratio Lower Upper
117 100
82 53.0 43.7 65.5
119 32.3 26.1 39.1





#71

Bromoform

Concen: 0.50 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#03

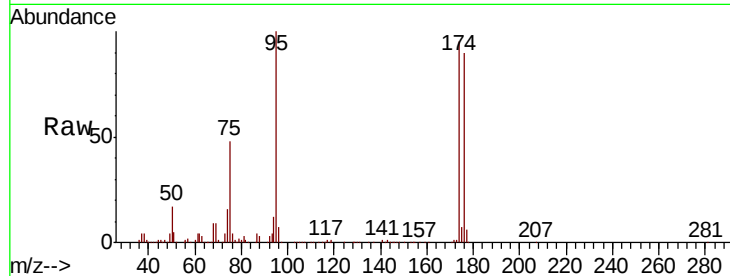
Tot Ion:173 Resp: 3814

Ion Ratio Lower Upper

173 100

175 781.8 24.1 72.2#

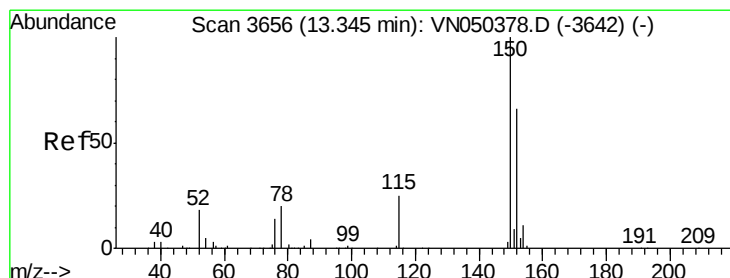
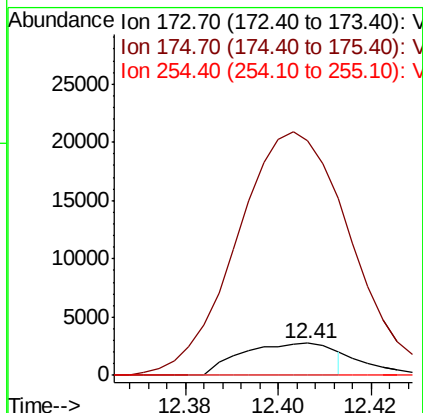
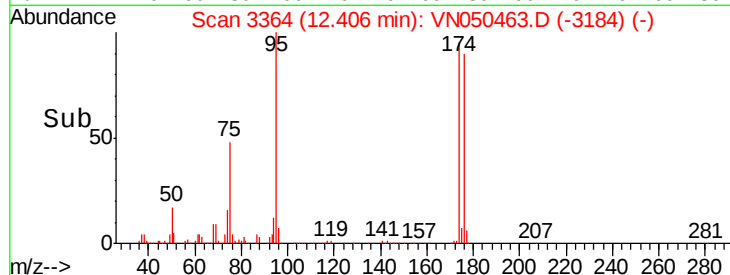
254 0.0 0.2 0.2#



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: VN050463.D

Acq: 8 Aug 2018 16:53

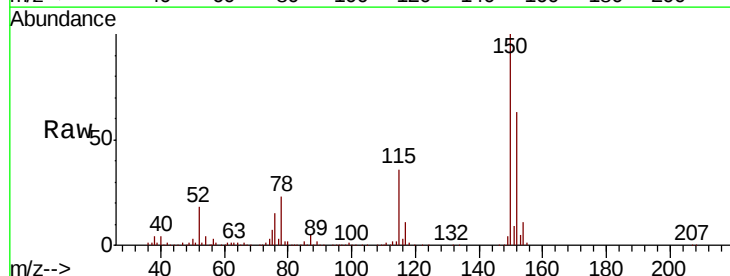
Tgt Ion:152 Resp: 464458

Ion Ratio Lower Upper

152 100

115 56.6 27.8 83.3

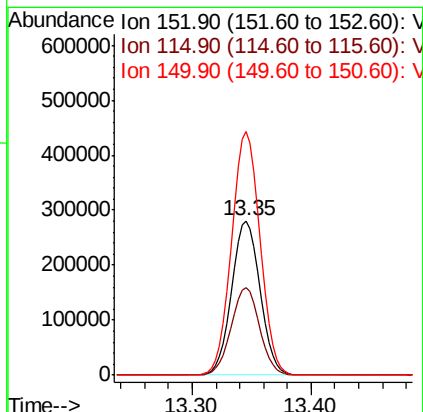
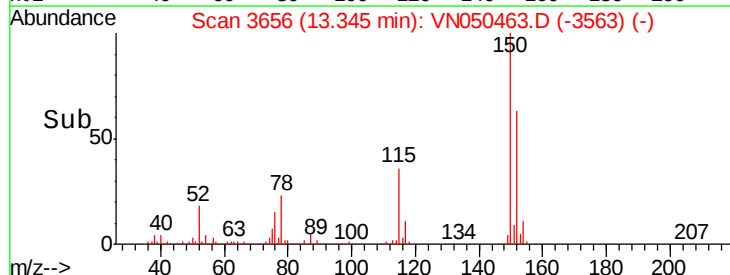
150 157.7 0.0 348.6

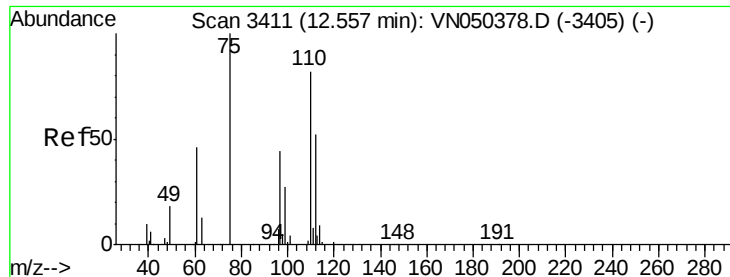


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 30.89 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

Instrument :

MSVOA_N

ClientSampleId :

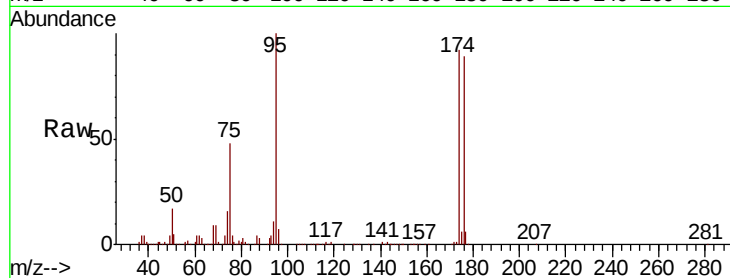
PB111846ZHE#03

Tot Ion: 75 Resp: 259721

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

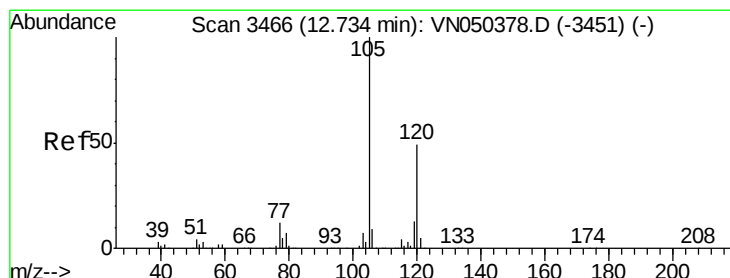
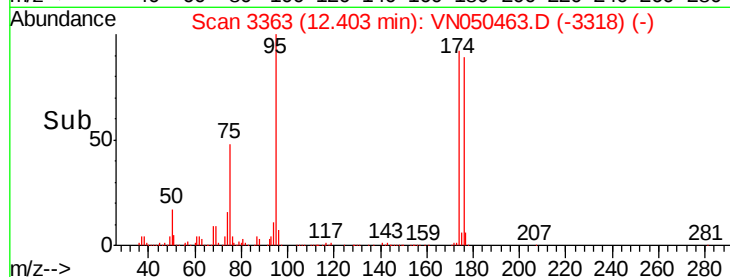
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.20 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050463.D

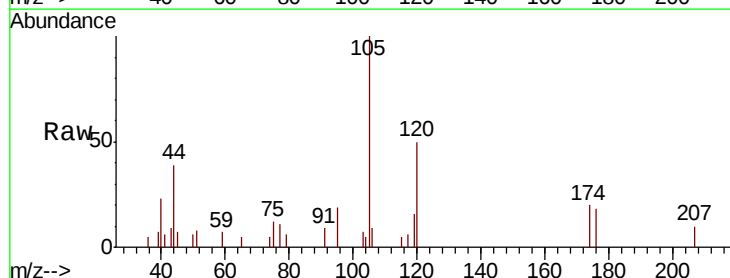
Acq: 8 Aug 2018 16:53

Tgt Ion: 105 Resp: 5753

Ion Ratio Lower Upper

105 100

120 55.0 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

4000

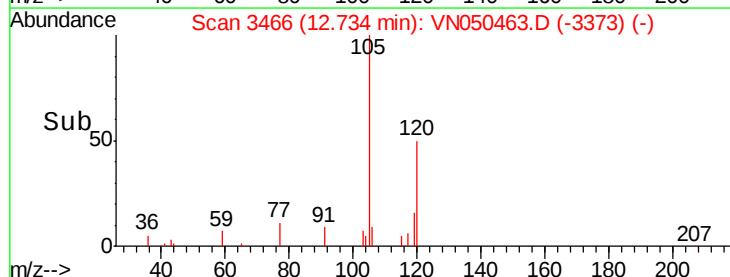
3000

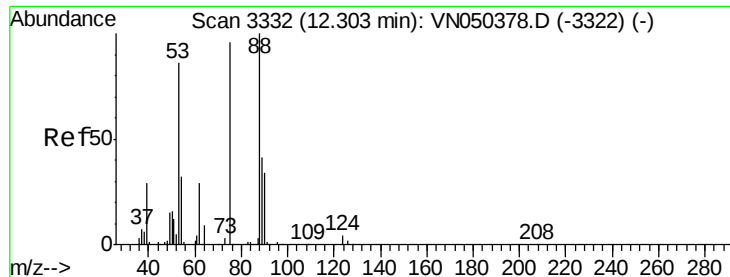
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 108.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#03

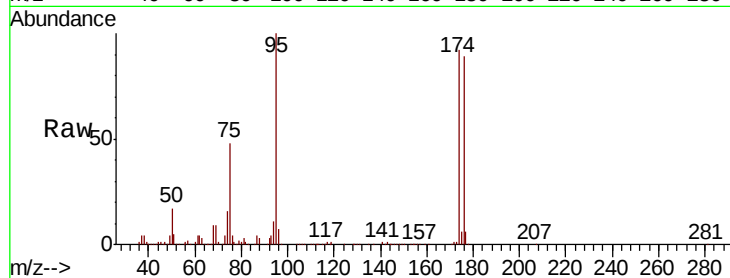
Tot Ion: 75 Resp: 259721

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

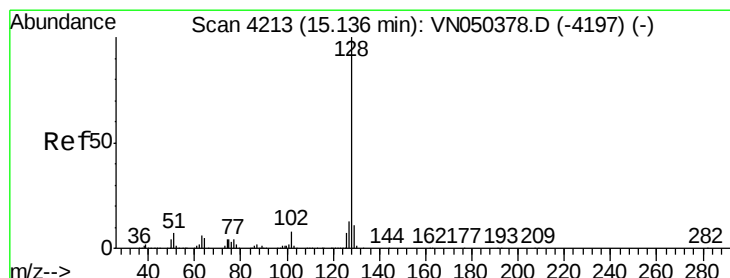
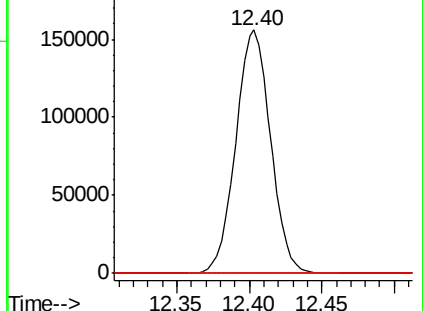
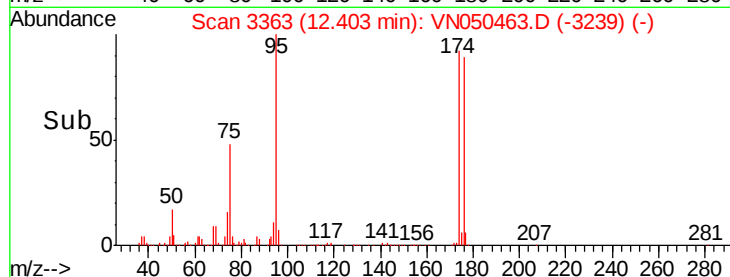
89 0.0 36.0 54.0#



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



#95

Naphthalene

Concen: 3.67 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050463.D

Acq: 8 Aug 2018 16:53

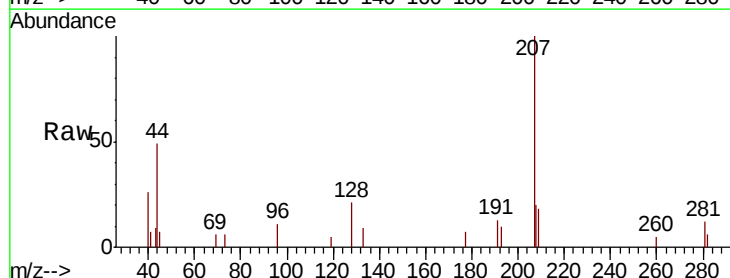
Tgt Ion: 128 Resp: 1134

Ion Ratio Lower Upper

128 100

127 2.8 10.4 15.6#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

