

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080818\
 Data File : VN050461.D
 Acq On : 8 Aug 2018 16:04
 Operator : MD\SY
 Sample : PB111846ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111846ZHE#01

Quant Time: Aug 09 00:57:01 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	856089	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1311702	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1136203	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	436453	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	529740	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	
35) Dibromofluoromethane	7.59	113	488711	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
50) Toluene-d8	10.09	98	1814785	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	
62) 4-Bromofluorobenzene	12.40	95	532657	39.49	ug/l	0.00
Spiked Amount			Recovery	=	78.98%	

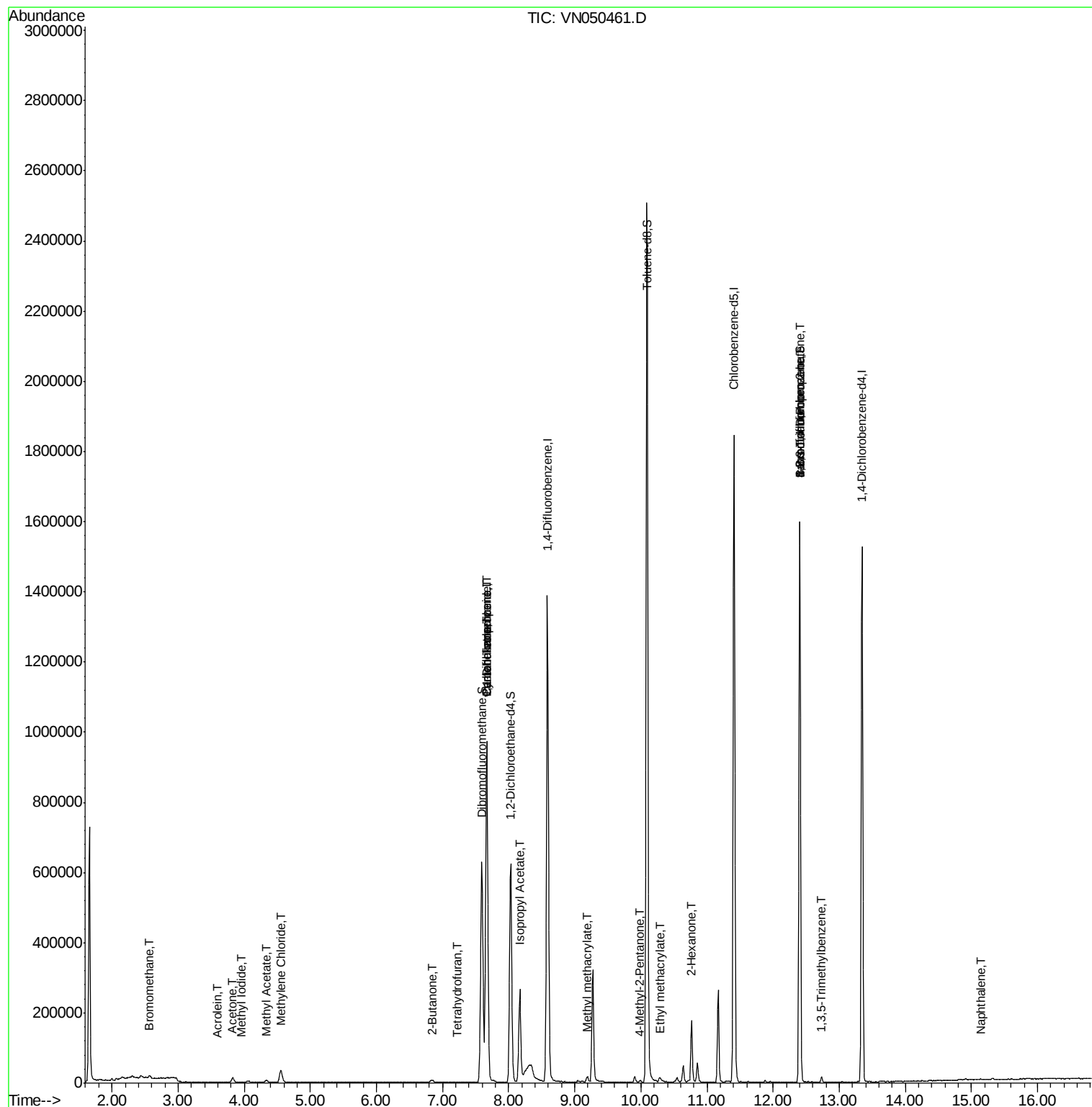
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	4059	Below Cal		94
5) Bromomethane	2.57	94	5025	1.01 ug/l		98
10) Methyl Iodide	3.95	142	2059	0.48 ug/l #		83
13) Acrolein	3.60	56	141	15.14 ug/l #		1
16) Acetone	3.83	43	22326	6.19 ug/l		97
18) Methyl Acetate	4.34	43	11160	1.07 ug/l		99
20) Methylene Chloride	4.55	84	27755	1.15 ug/l		94
25) 2-Butanone	6.85	43	2730	0.48 ug/l		92
29) Tetrahydrofuran	7.23	42	1453	0.48 ug/l #		78
31) Cyclohexane	7.66	56	14404	0.25 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	57033	3.96 ug/l #		48
38) Carbon Tetrachloride	7.67	117	76222	5.07 ug/l #		16
43) Isopropyl Acetate	8.17	43	306889	17.13 ug/l		98
48) Methyl methacrylate	9.18	41	9932	1.11 ug/l #		22
51) 4-Methyl-2-Pentanone	9.99	43	3213	0.25 ug/l		97
56) Ethyl methacrylate	10.29	69	173	1.72 ug/l #		1
59) 2-Hexanone	10.77	43	24712	2.74 ug/l #		56
71) Bromoform	12.40	173	3599	0.47 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	251187	31.80 ug/l #		100
80) 1,3,5-Trimethylbenzene	12.74	105	6688	0.25 ug/l		99
81) trans-1,4-Dichloro-2-buten	12.40	75	251187	111.71 ug/l #		13
94) Hexachlorobutadiene	15.01	225	520	Below Cal #		58
95) Naphthalene	15.14	128	3607	3.78 ug/l #		88

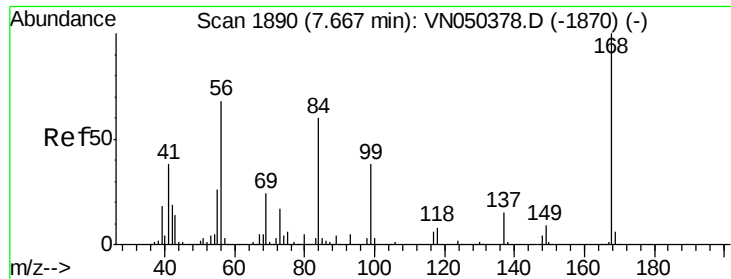
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN080818\
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Acq On : 8 Aug 2018 16:04
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Quant Time: Aug 09 00:57:01 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: VN050461.D

Acq: 8 Aug 2018 16:04

Instrument :

MSVOA_N

ClientSampleId :

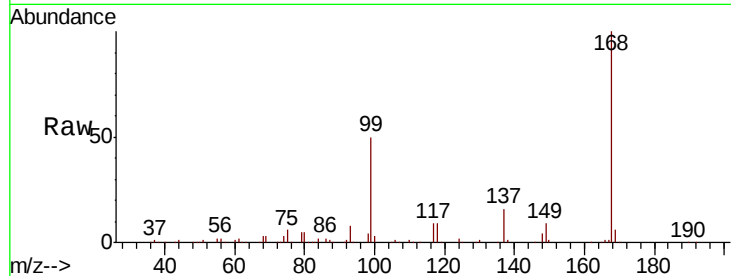
PB111846ZHE#01

Tot Ion:168 Resp: 856089

Ion Ratio Lower Upper

168 100

99 50.1 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

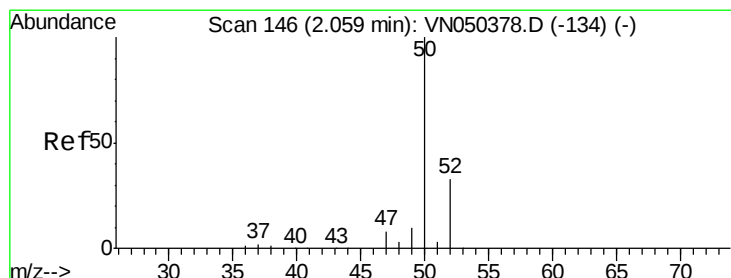
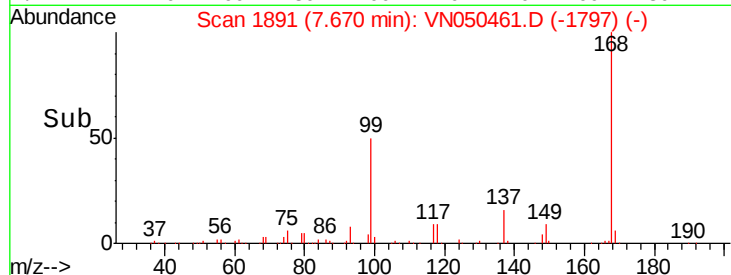
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050461.D

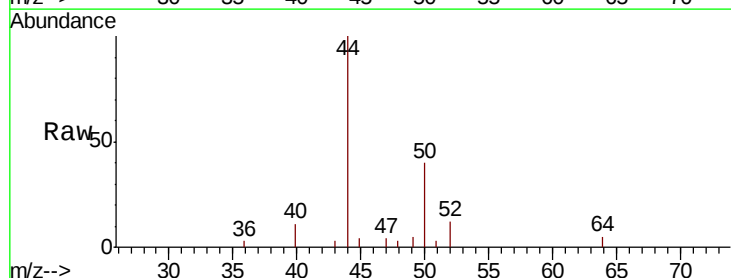
Acq: 8 Aug 2018 16:04

Tgt Ion: 50 Resp: 4059

Ion Ratio Lower Upper

50 100

52 29.0 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

3000

2500

2000

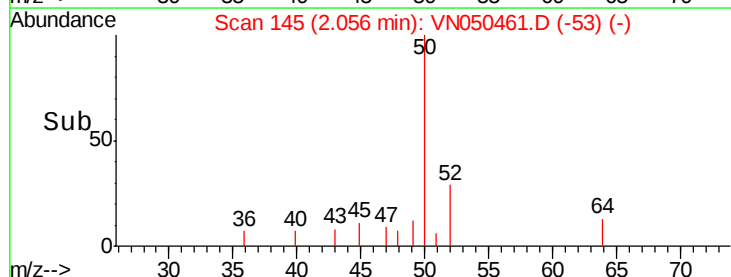
1500

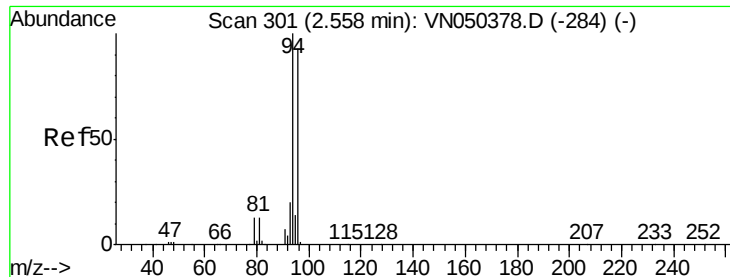
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.01 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

Instrument :

MSVOA_N

ClientSampleId :

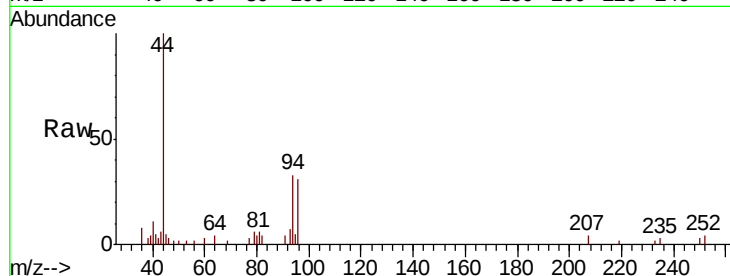
PB111846ZHE#01

Tot Ion: 94 Resp: 5025

Ion Ratio Lower Upper

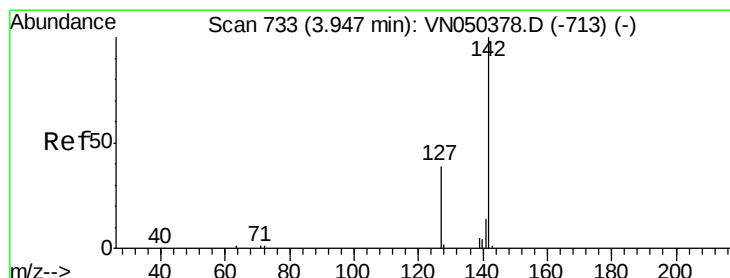
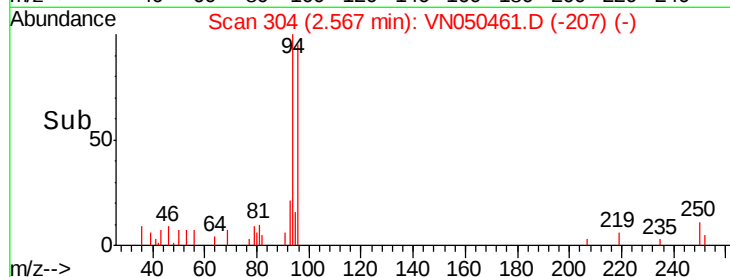
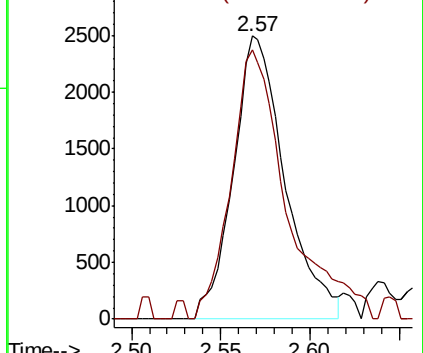
94 100

96 94.9 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 0.48 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.01 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

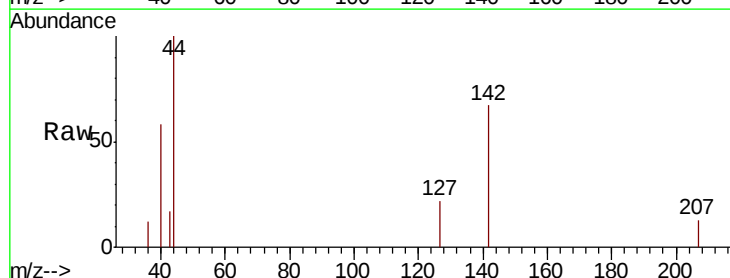
Tgt Ion: 142 Resp: 2059

Ion Ratio Lower Upper

142 100

127 35.0 33.4 50.2

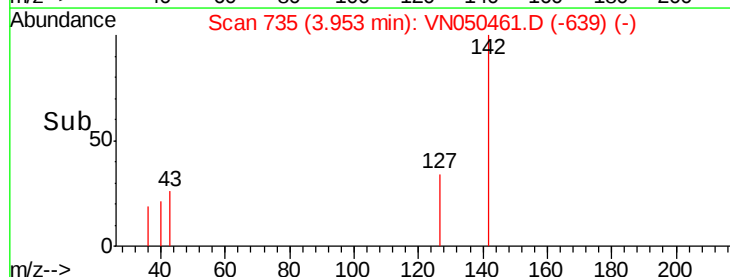
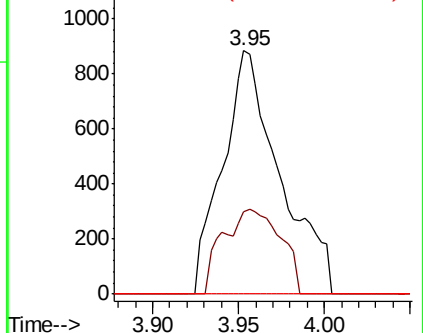
141 0.0 11.6 17.4#

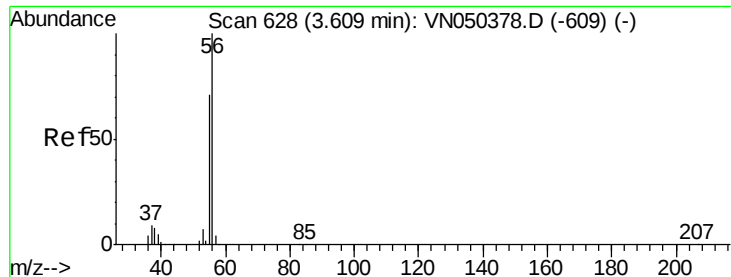


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 15.14 ug/l

RT: 3.60 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

Instrument :

MSVOA_N

ClientSampleId :

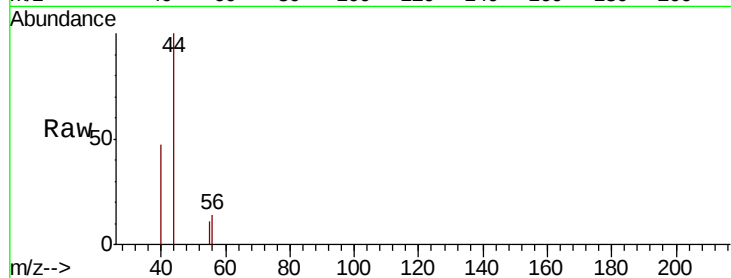
PB111846ZHE#01

Tot Ion: 56 Resp: 141

Ion Ratio Lower Upper

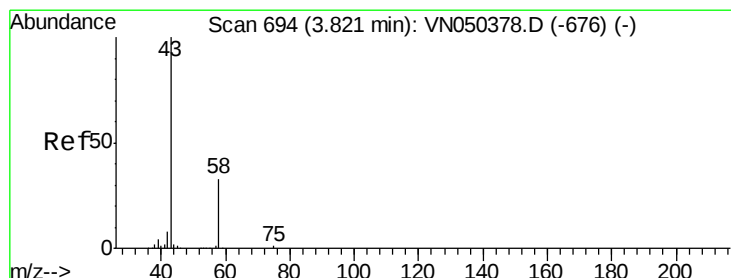
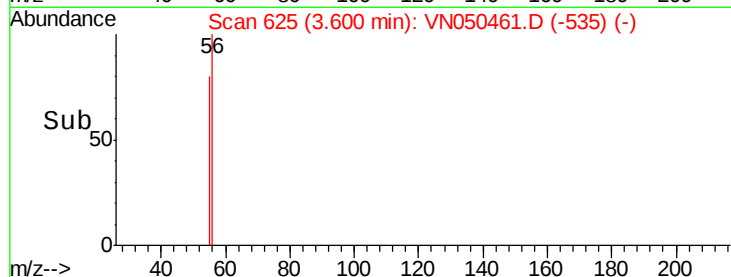
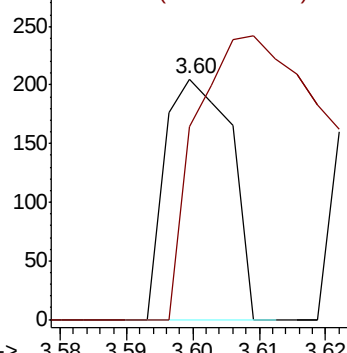
56 100

55 222.0 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: 6.19 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050461.D

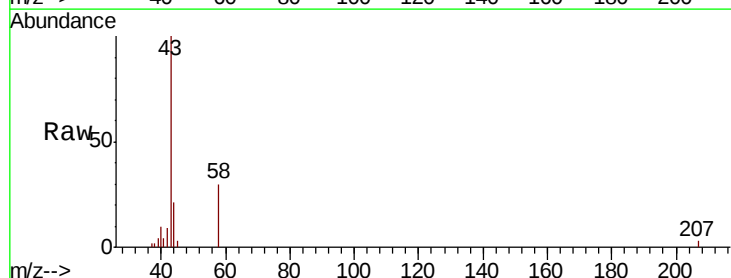
Acq: 8 Aug 2018 16:04

Tgt Ion: 43 Resp: 22326

Ion Ratio Lower Upper

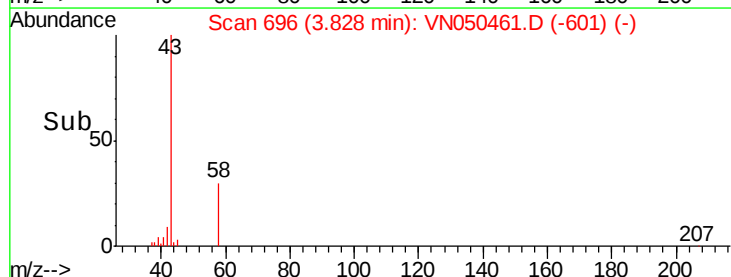
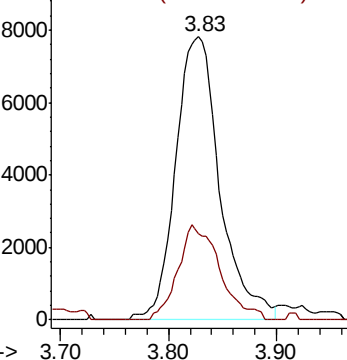
43 100

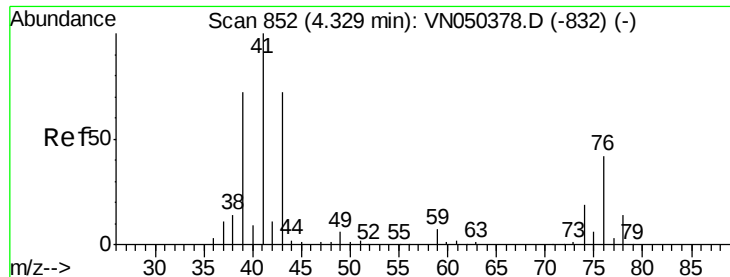
58 30.4 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

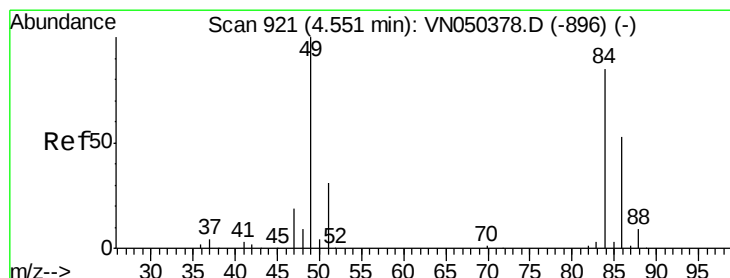
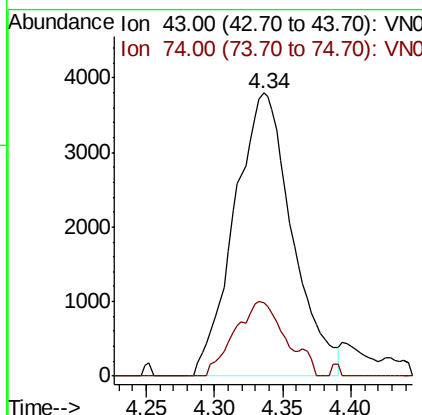
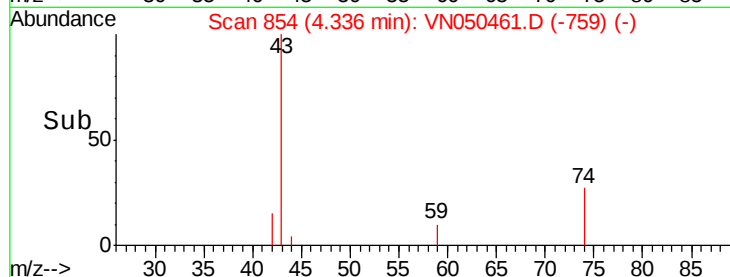
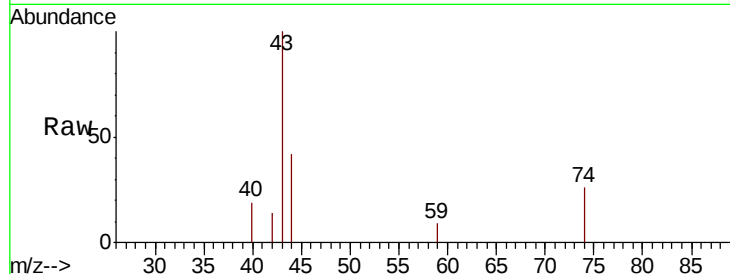




#18
Methyl Acetate
Concen: 1.07 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050461.D
Acq: 8 Aug 2018 16:04

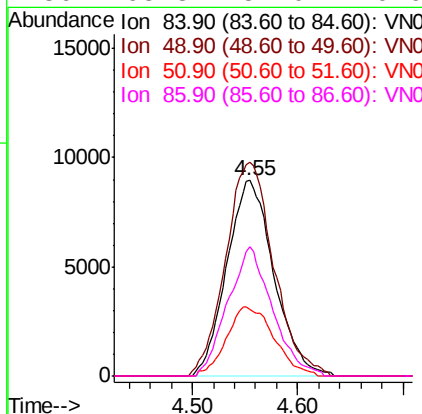
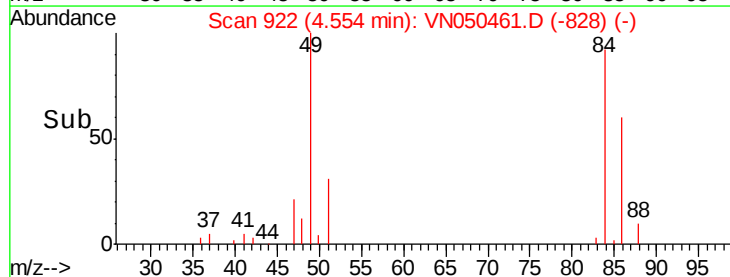
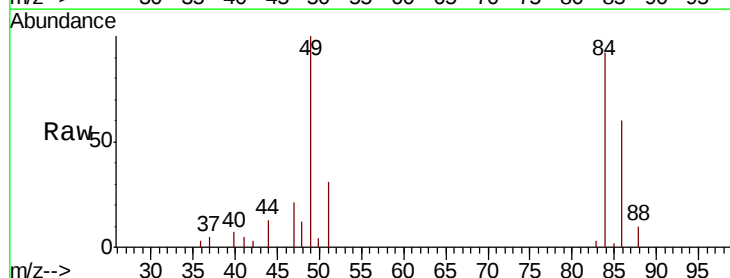
Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#01

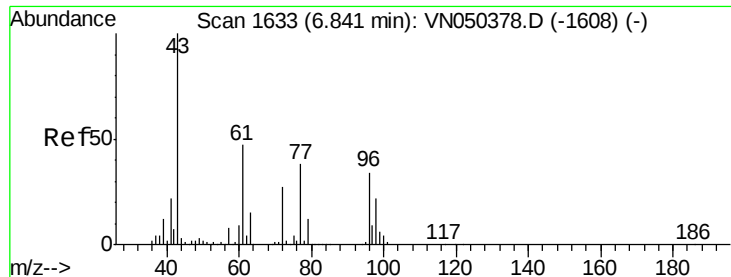
Tot Ion: 43 Resp: 11160
Ion Ratio Lower Upper
43 100
74 23.4 19.2 28.8



#20
Methylene Chloride
Concen: 1.15 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050461.D
Acq: 8 Aug 2018 16:04

Tgt Ion: 84 Resp: 27755
Ion Ratio Lower Upper
84 100
49 109.1 94.8 142.2
51 33.9 28.3 42.5
86 65.8 51.0 76.6





#25

2-Butanone

Concen: 0.48 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

Instrument :

MSVOA_N

ClientSampleId :

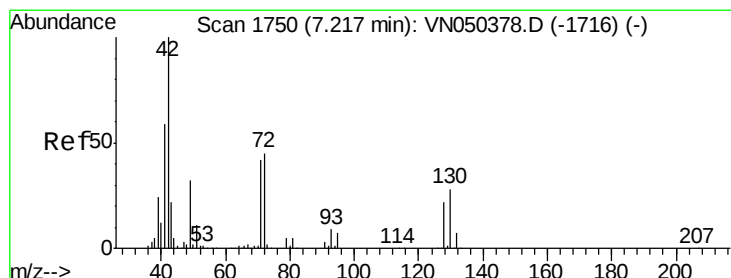
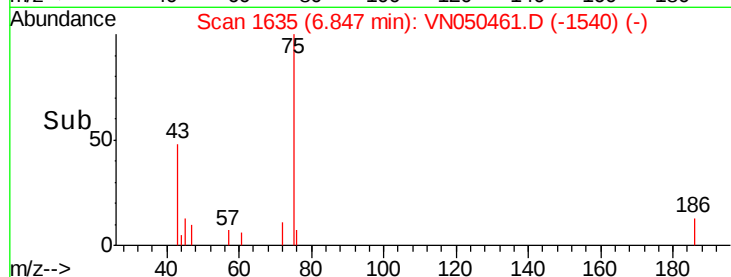
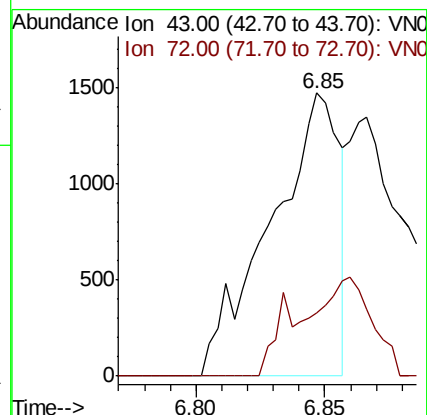
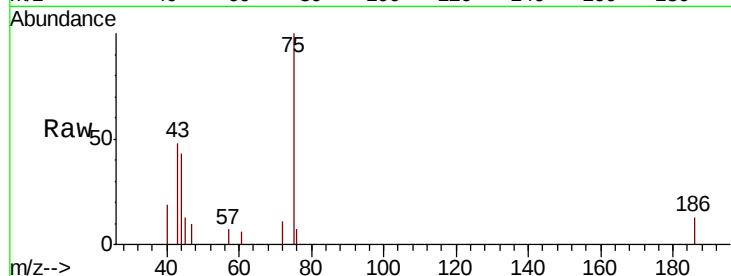
PB111846ZHE#01

Tot Ion: 43 Resp: 2730

Ion Ratio Lower Upper

43 100

72 22.6 21.5 32.3



#29

Tetrahydrofuran

Concen: 0.48 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

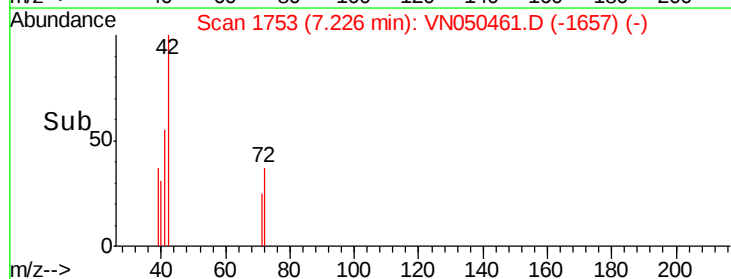
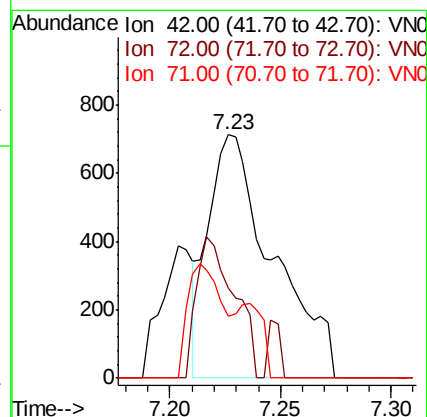
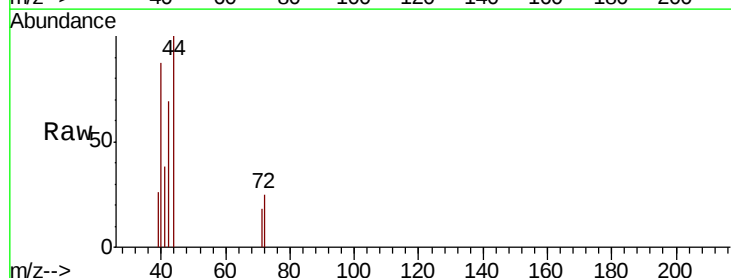
Tgt Ion: 42 Resp: 1453

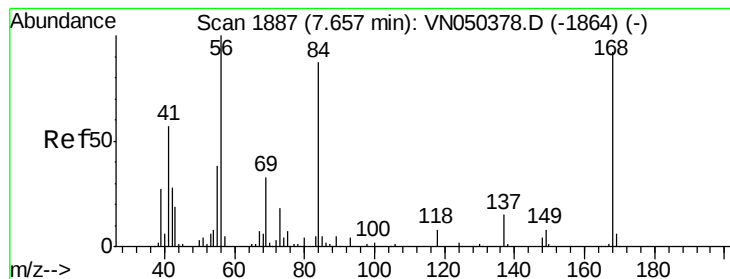
Ion Ratio Lower Upper

42 100

72 33.9 35.9 53.9#

71 24.6 33.7 50.5#





#31

Cyclohexane

Concen: 0.25 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#01

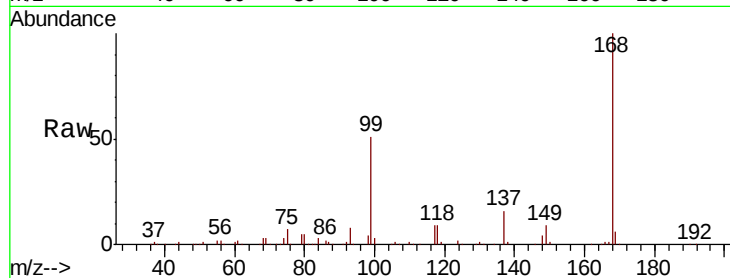
Tot Ion: 56 Resp: 14404

Ion Ratio Lower Upper

56 100

69 176.1 26.2 39.4#

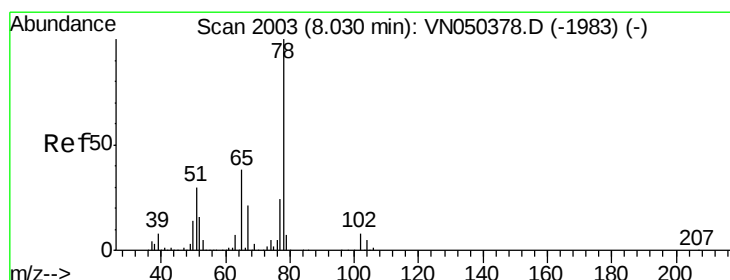
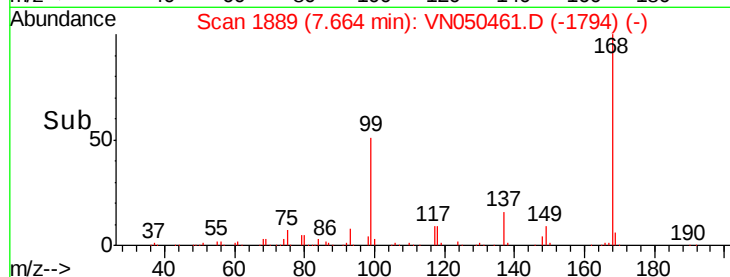
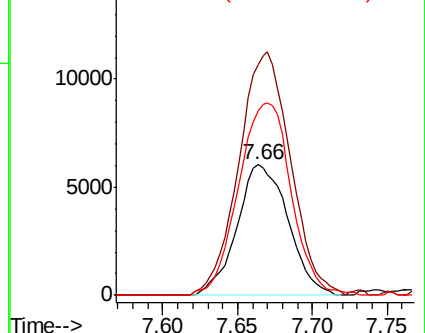
84 141.2 67.4 101.0#



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: 46.31 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050461.D

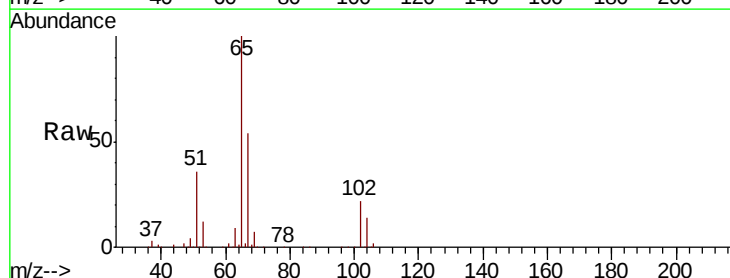
Acq: 8 Aug 2018 16:04

Tgt Ion: 65 Resp: 529740

Ion Ratio Lower Upper

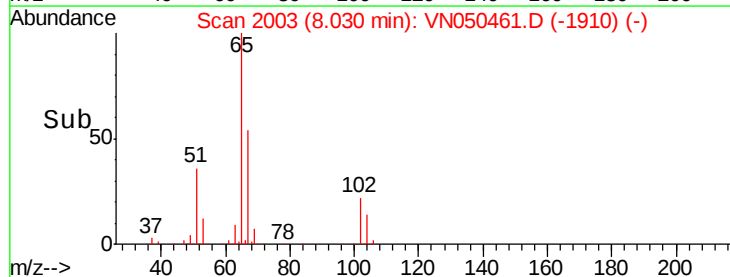
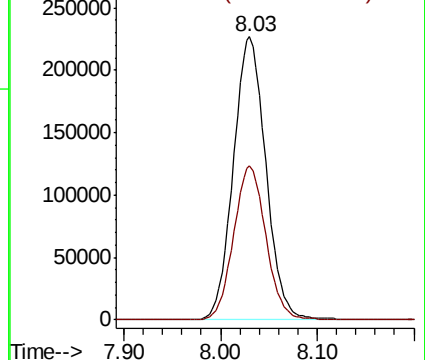
65 100

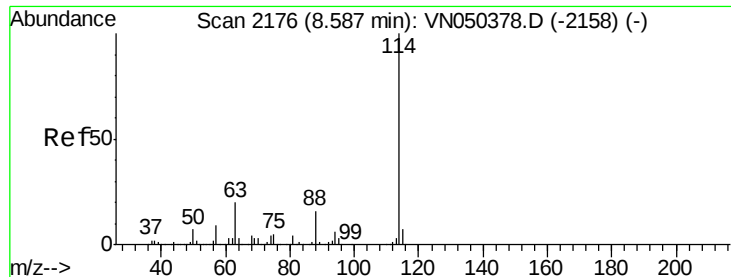
67 54.1 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

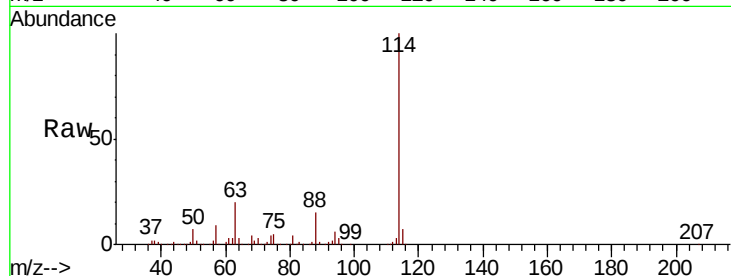




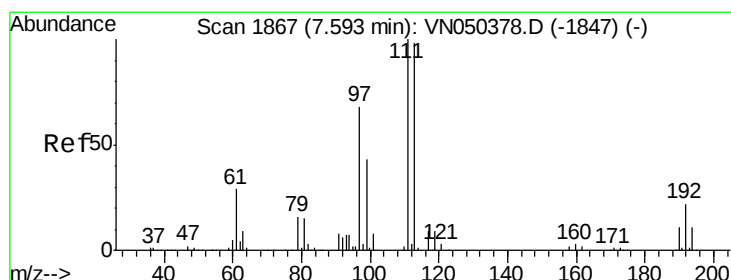
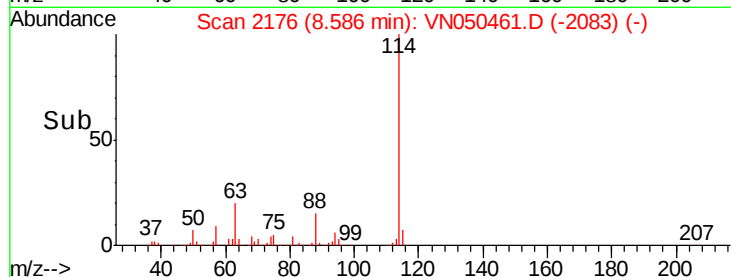
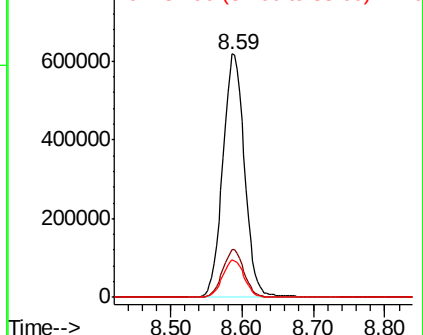
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050461.D
 Acq: 8 Aug 2018 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111846ZHE#01

Tot Ion:114 Resp: 1311702
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.5 0.0 31.2

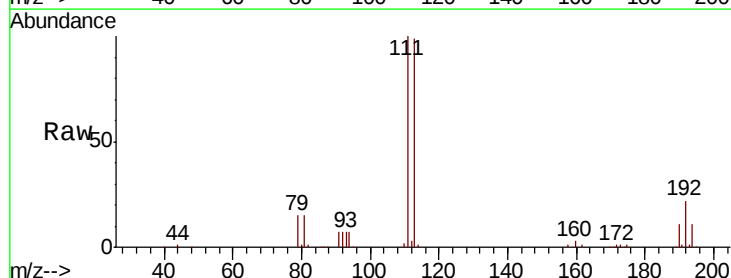


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

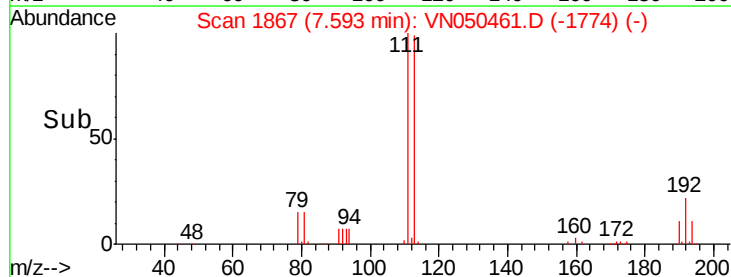
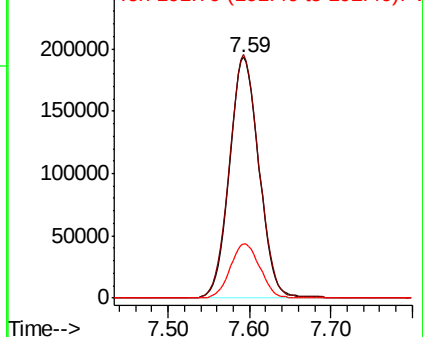


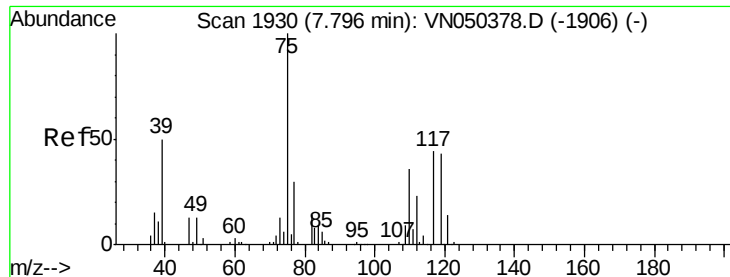
#35
 Dibromofluoromethane
 Concen: 46.43 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050461.D
 Acq: 8 Aug 2018 16:04

Tgt Ion:113 Resp: 488711
 Ion Ratio Lower Upper
 113 100
 111 101.2 80.7 121.1
 192 22.6 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

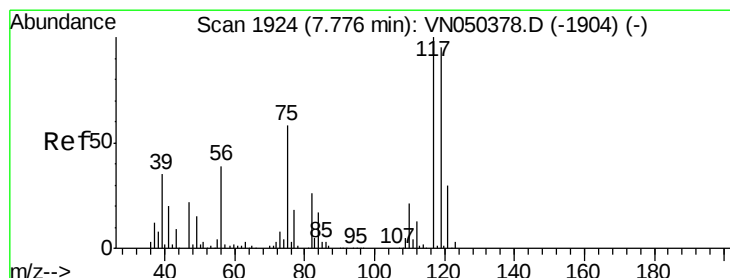
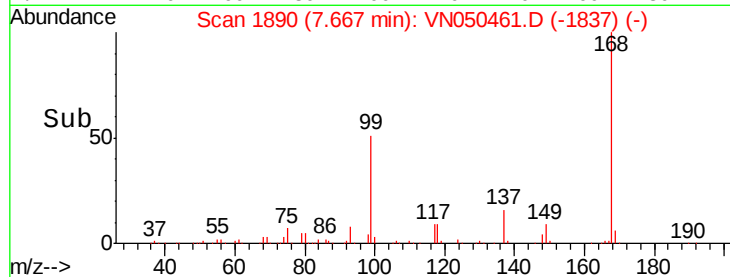
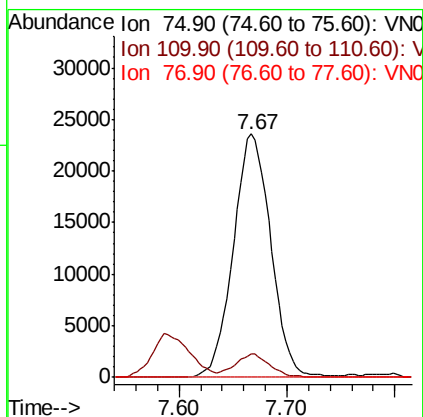
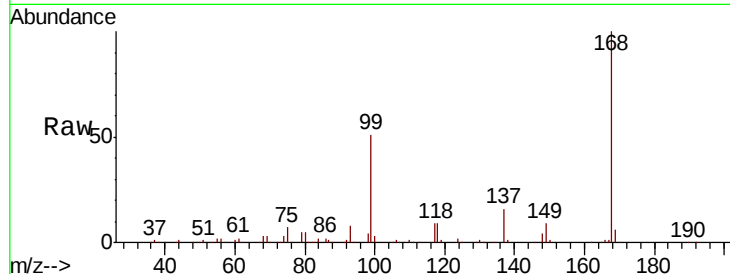




#36
 1,1-Dichloropropene
 Concen: 3.96 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050461.D
 Acq: 8 Aug 2018 16:04

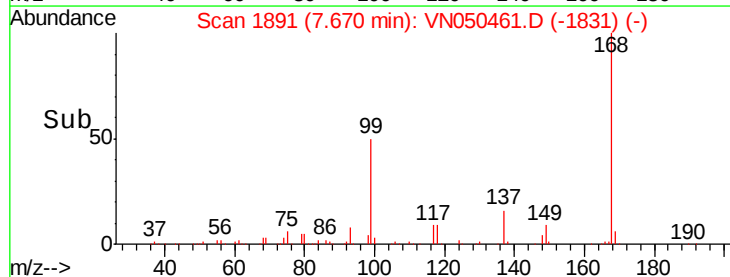
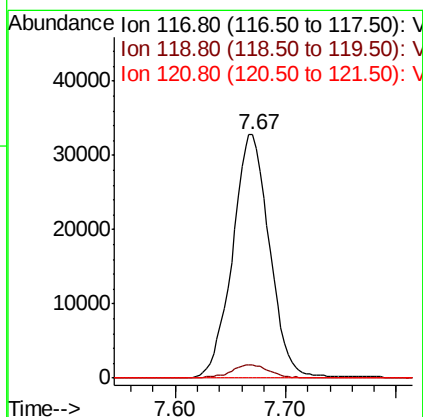
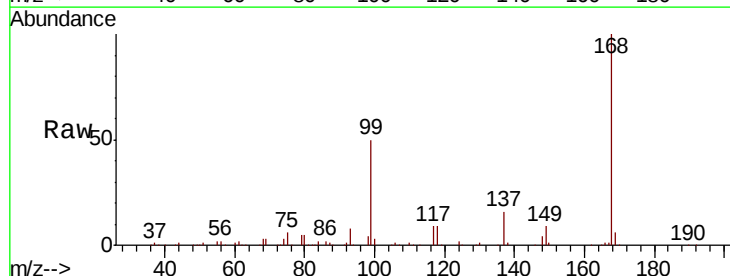
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111846ZHE#01

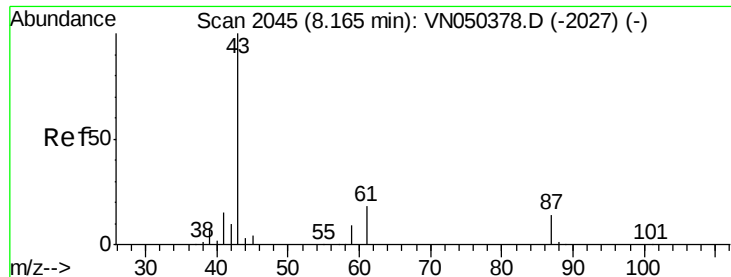
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 5.07 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050461.D
 Acq: 8 Aug 2018 16:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	77.4	116.0#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 17.13 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#01

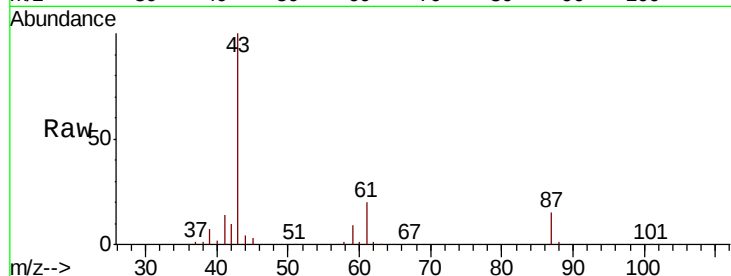
Tot Ion: 43 Resp: 306889

Ion Ratio Lower Upper

43 100

61 20.5 15.8 23.6

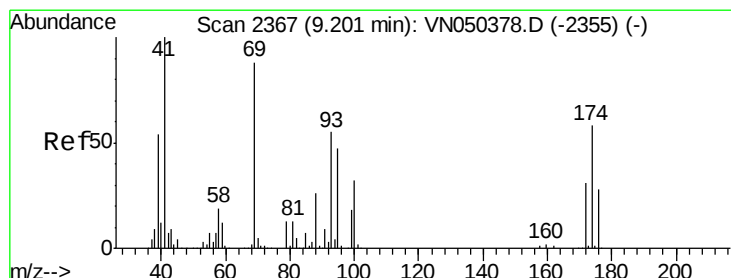
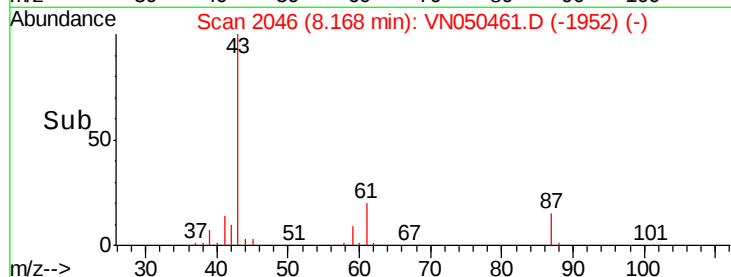
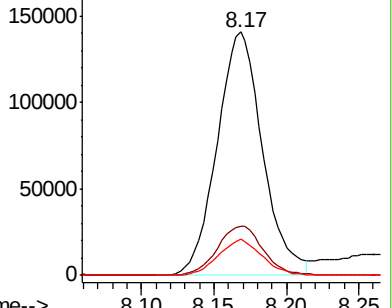
87 14.3 10.3 15.5



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: 1.11 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

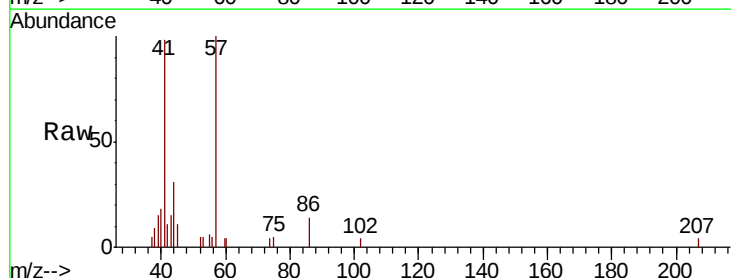
Tgt Ion: 41 Resp: 9932

Ion Ratio Lower Upper

41 100

69 0.0 70.6 105.8#

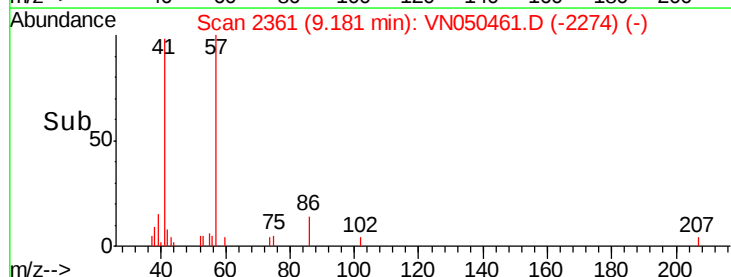
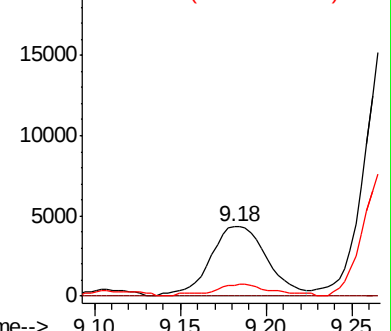
39 17.3 43.9 65.9#

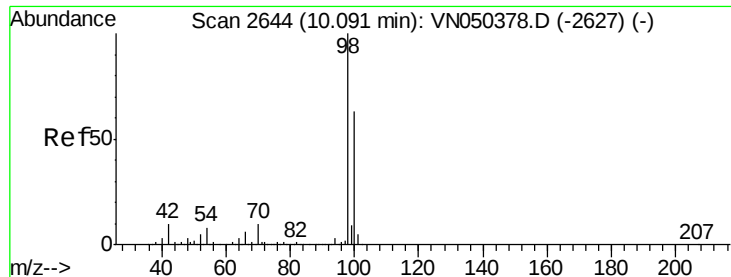


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

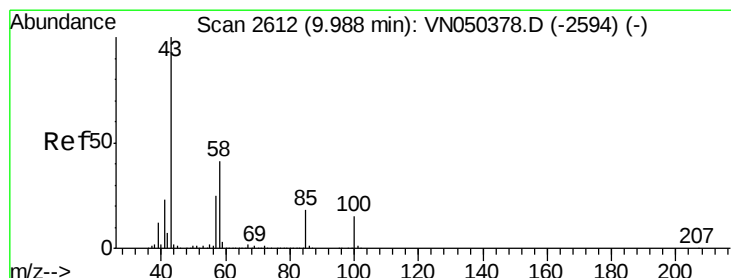
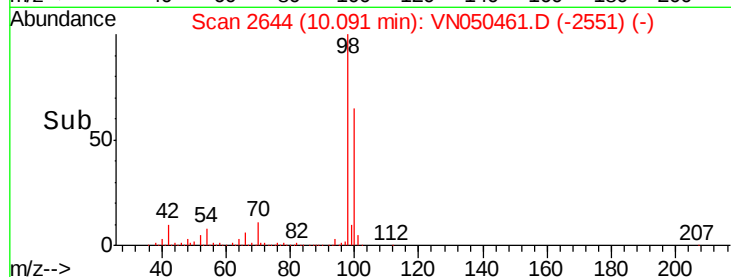
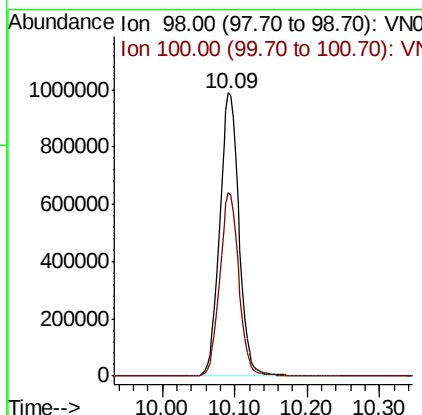
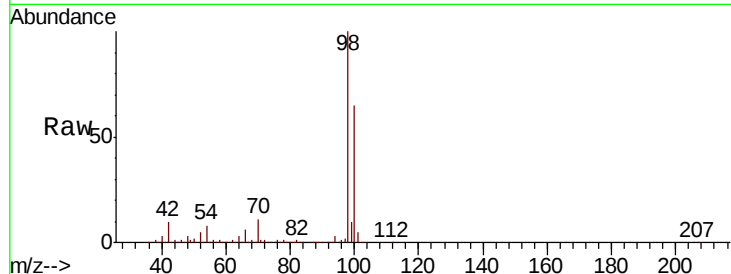




#50
Toluene-d8
Concen: 45.86 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050461.D
Acq: 8 Aug 2018 16:04

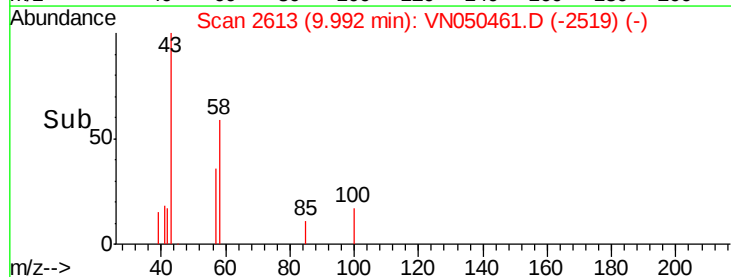
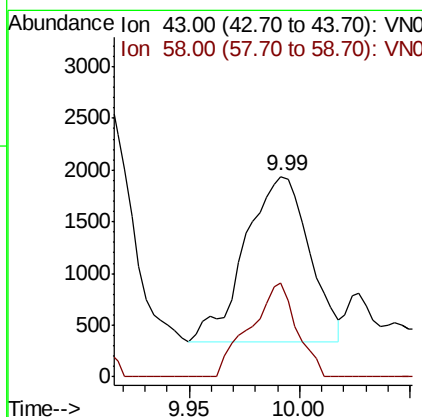
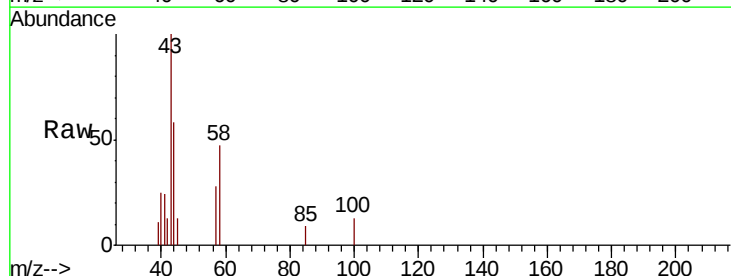
Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#01

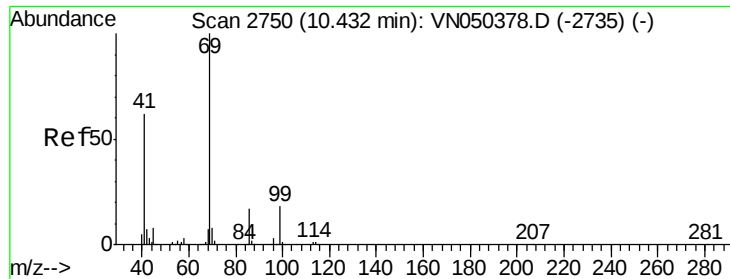
Tot Ion: 98 Resp: 1814785
Ion Ratio Lower Upper
98 100
100 64.2 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.25 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.00 min
Lab File: VN050461.D
Acq: 8 Aug 2018 16:04

Tgt Ion: 43 Resp: 3213
Ion Ratio Lower Upper
43 100
58 41.5 31.9 47.9





#56

Ethyl methacrylate

Concen: 1.72 ug/l

RT: 10.29 min Scan# 2705

Delta R.T. -0.14 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#01

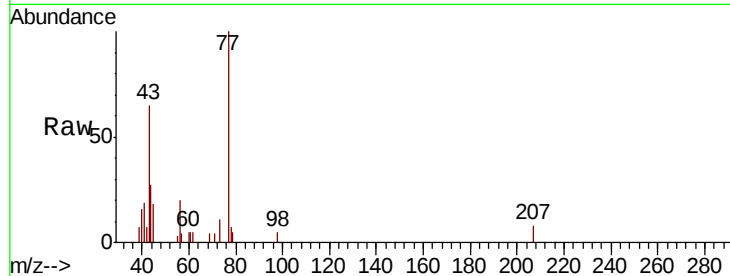
Tot Ion: 69 Resp: 173

Ion Ratio Lower Upper

69 100

41 1013.9 51.0 76.4#

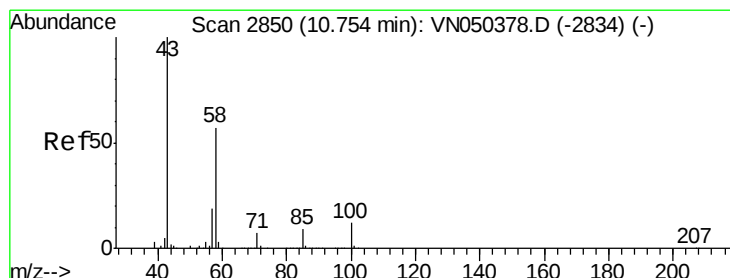
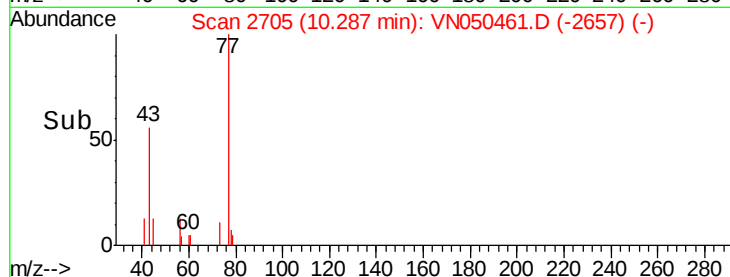
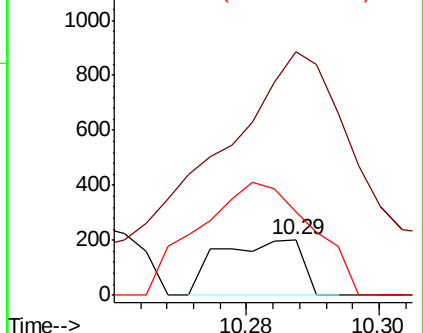
39 282.1 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN050378.D (-2735) (-)

Ion 41.00 (40.70 to 41.70): VN050378.D (-2735) (-)

Ion 39.00 (38.70 to 39.70): VN050378.D (-2735) (-)



#59

2-Hexanone

Concen: 2.74 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050461.D

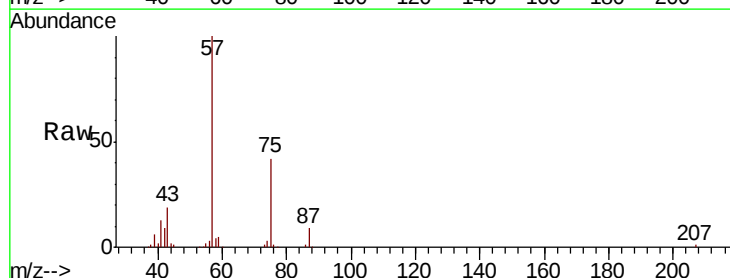
Acq: 8 Aug 2018 16:04

Tgt Ion: 43 Resp: 24712

Ion Ratio Lower Upper

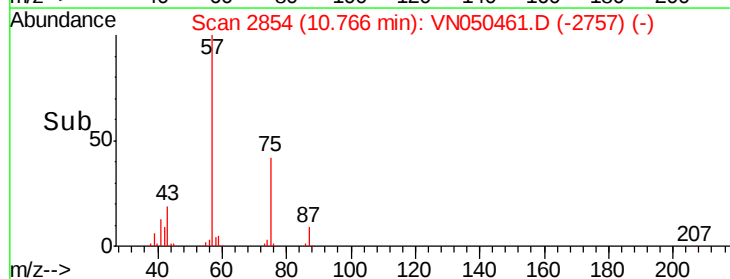
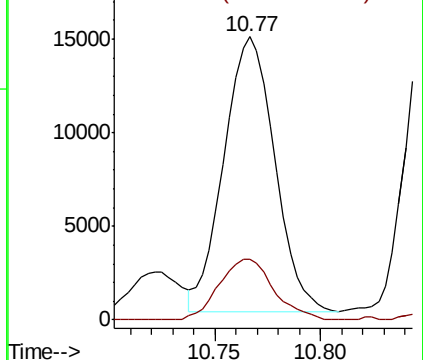
43 100

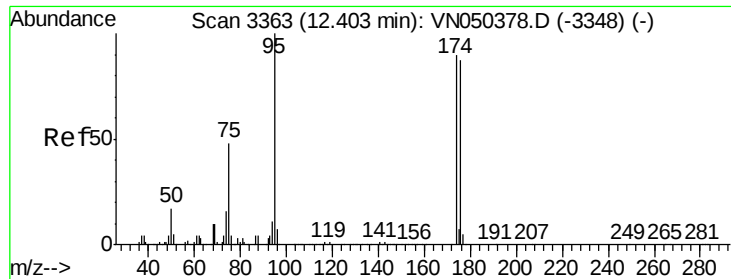
58 23.6 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-2834) (-)

Ion 58.00 (57.70 to 58.70): VN050378.D (-2834) (-)

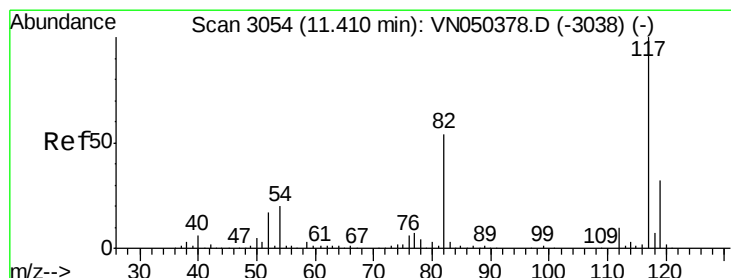
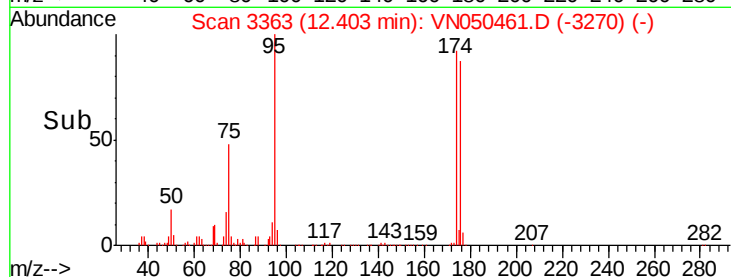
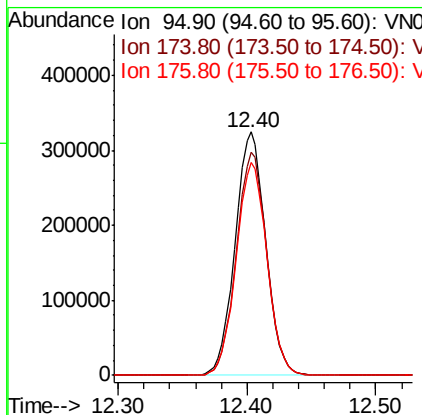
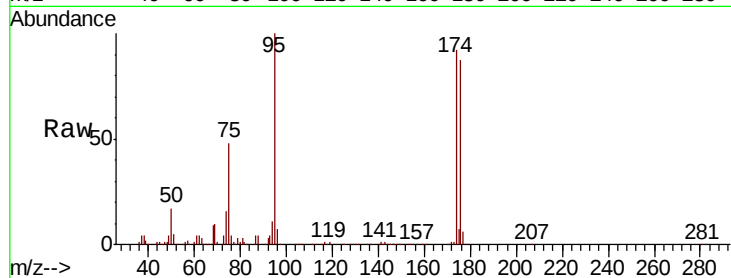




#62
4-Bromofluorobenzene
Concen: 39.49 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050461.D
Acq: 8 Aug 2018 16:04

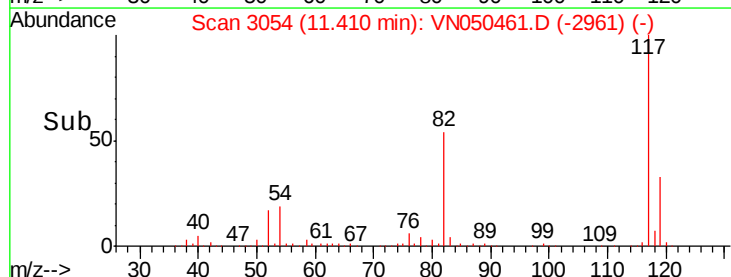
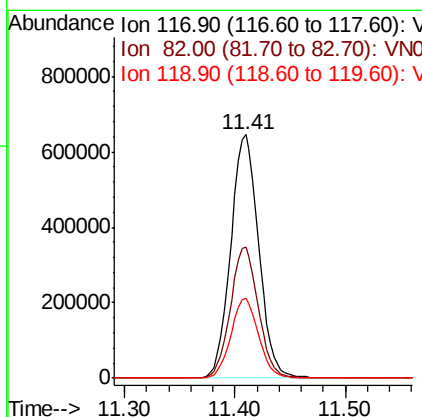
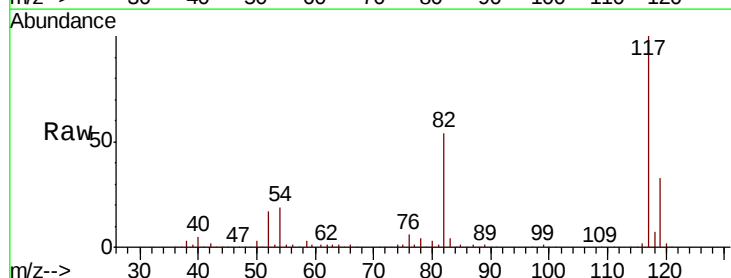
Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#01

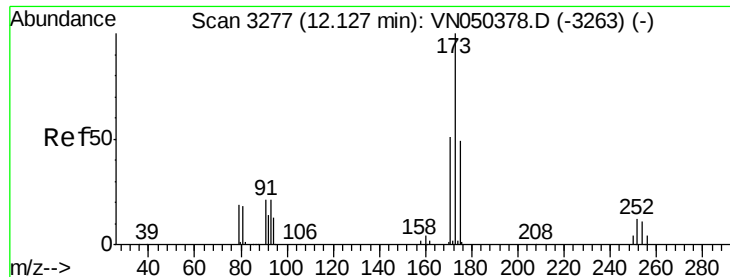
Tot Ion: 95 Resp: 532657
Ion Ratio Lower Upper
95 100
174 91.7 0.0 178.2
176 88.3 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050461.D
Acq: 8 Aug 2018 16:04

Tgt Ion: 117 Resp: 1136203
Ion Ratio Lower Upper
117 100
82 53.6 43.7 65.5
119 32.5 26.1 39.1





#71

Bromoform

Concen: 0.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#01

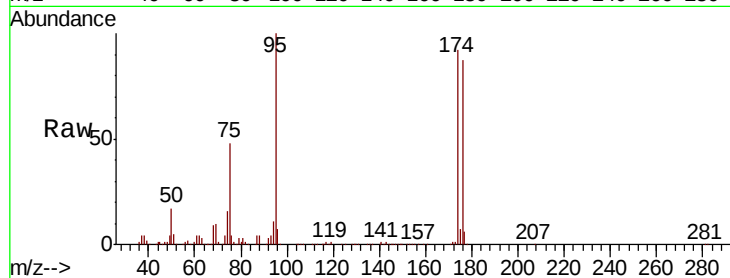
Tot Ion:173 Resp: 3599

Ion Ratio Lower Upper

173 100

175 827.2 24.1 72.2#

254 0.0 0.2 0.2#

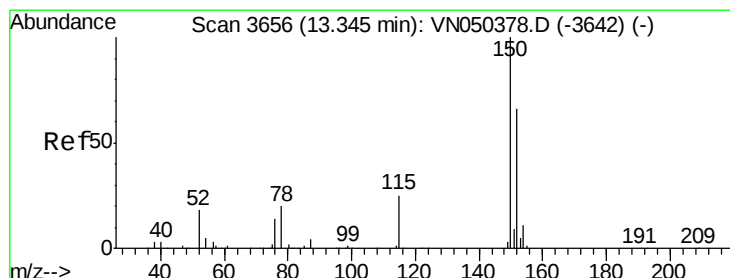
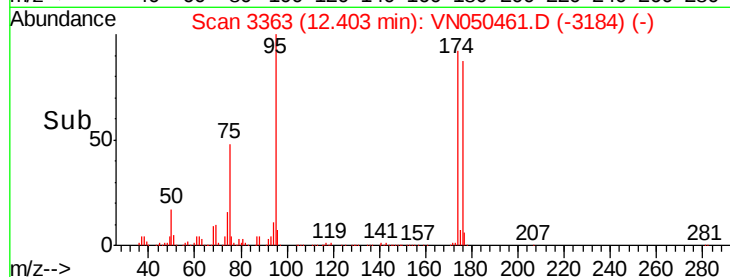
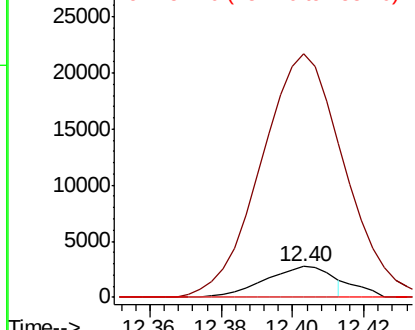


Abundance

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: VN050461.D

Acq: 8 Aug 2018 16:04

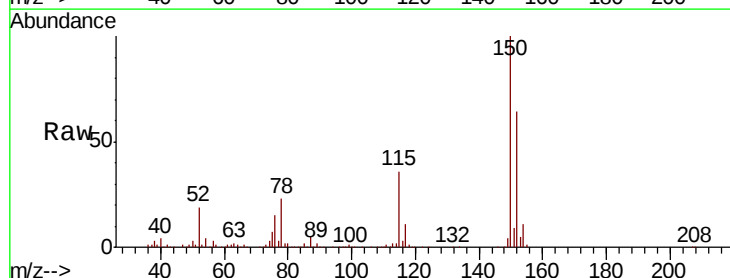
Tgt Ion:152 Resp: 436453

Ion Ratio Lower Upper

152 100

115 56.9 27.8 83.3

150 156.4 0.0 348.6

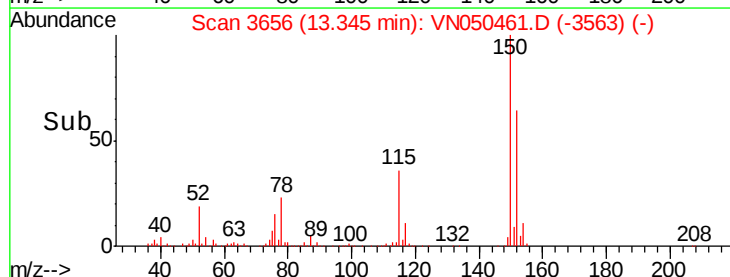
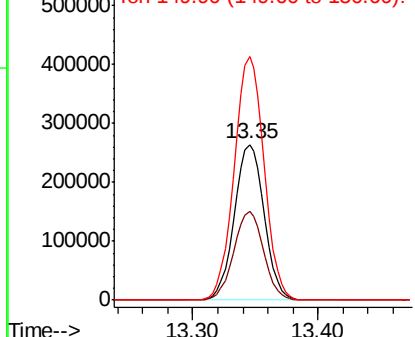


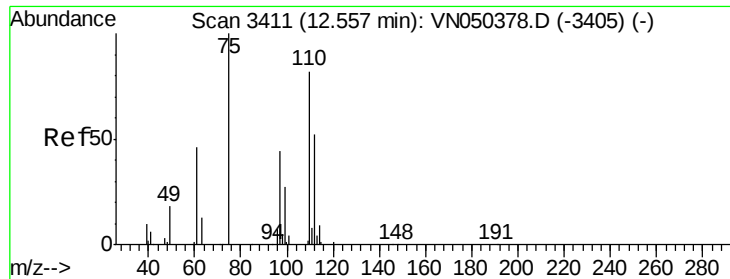
Abundance

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

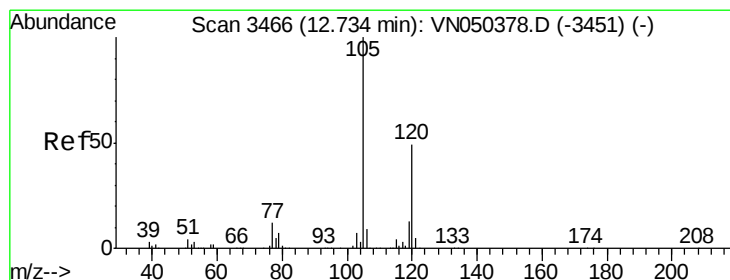
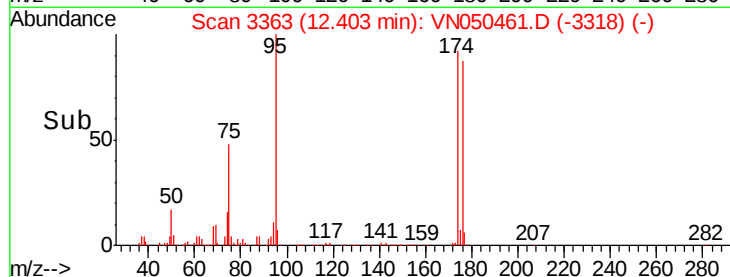
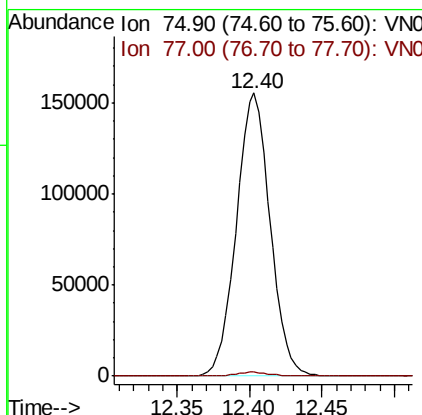
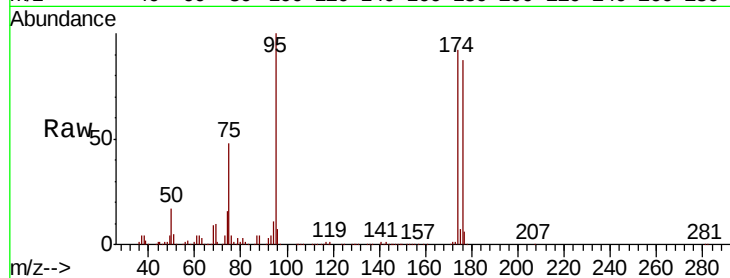




#76
 1,2,3-Trichloropropane
 Concen: 31.80 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN050461.D
 Acq: 8 Aug 2018 16:04

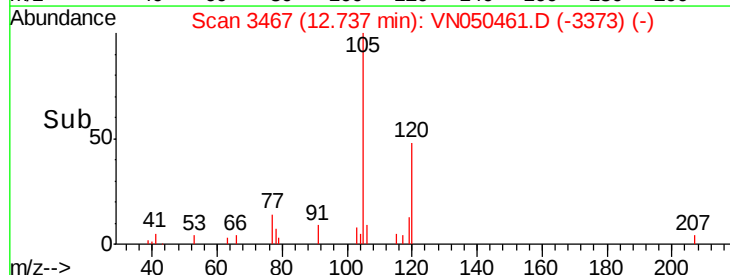
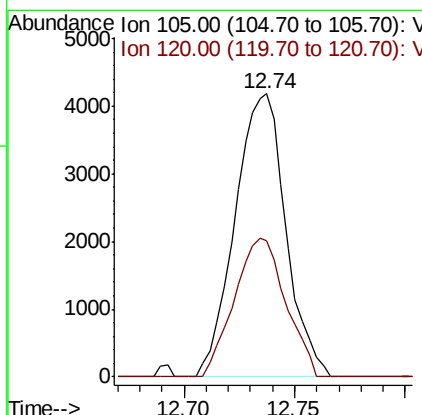
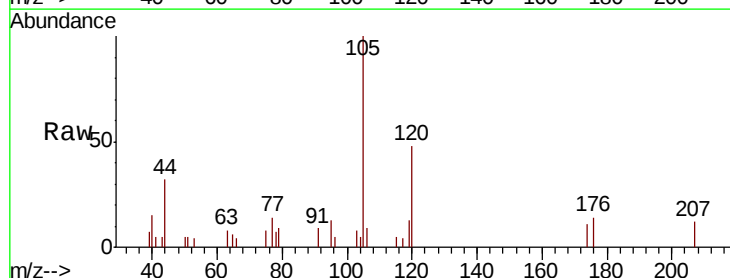
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111846ZHE#01

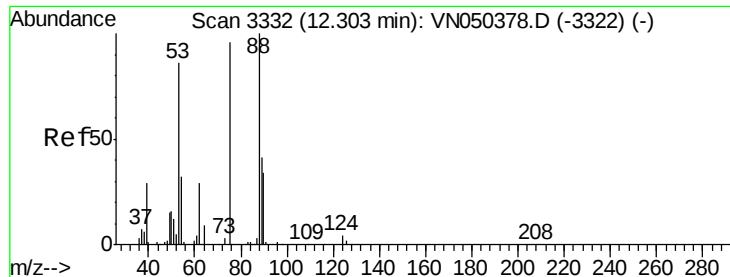
Tot Ion: 75 Resp: 251187
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 12.74 min Scan# 3467
 Delta R.T. 0.00 min
 Lab File: VN050461.D
 Acq: 8 Aug 2018 16:04

Tgt Ion: 105 Resp: 6688
 Ion Ratio Lower Upper
 105 100
 120 49.5 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 111.71 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#01

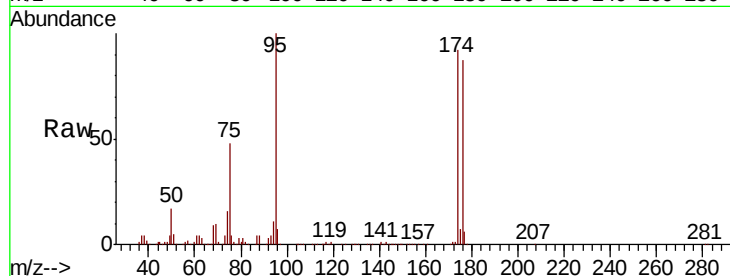
Tot Ion: 75 Resp: 251187

Ion Ratio Lower Upper

75 100

53 0.0 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

12.40

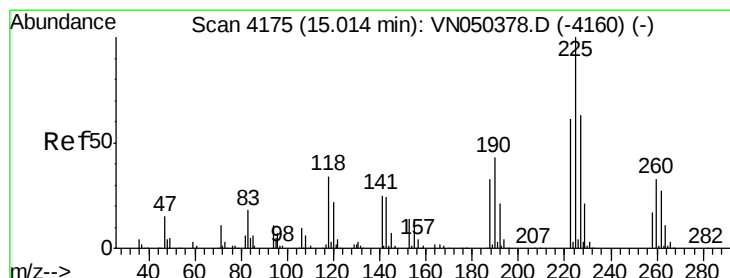
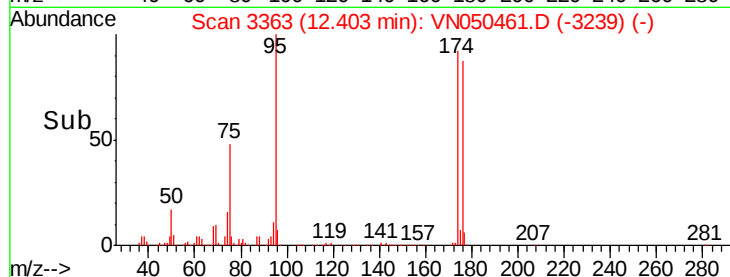
150000

100000

50000

0

Time-->



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4175

Delta R.T. 0.00 min

Lab File: VN050461.D

Acq: 8 Aug 2018 16:04

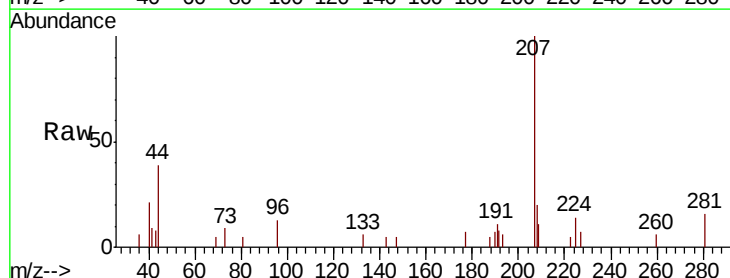
Tgt Ion: 225 Resp: 520

Ion Ratio Lower Upper

225 100

223 37.3 31.4 94.2

227 23.7 32.1 96.5#



Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

15.01

600

500

400

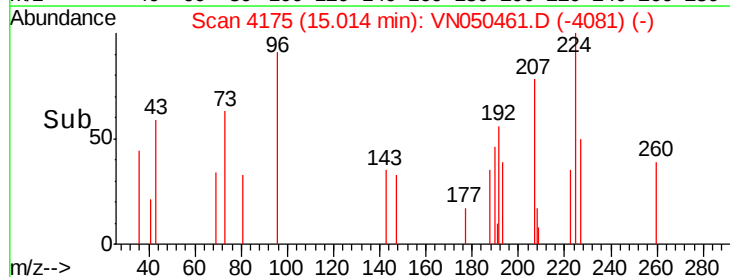
300

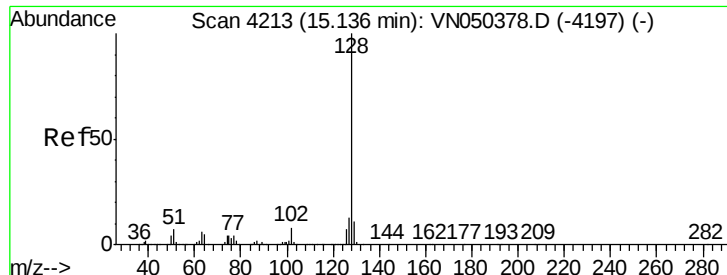
200

100

0

Time-->





#95
Naphthalene
Concen: 3.78 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN050461.D
Acq: 8 Aug 2018 16:04

Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#01

Tot Ion:128 Resp: 3607
Ion Ratio Lower Upper
128 100
127 7.5 10.4 15.6#
129 7.3 8.8 13.2#

