

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053061.D
 Acq On : 20 Dec 2018 17:15
 Operator : MD\SY
 Sample : PB115868ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115868ZHE#01

Quant Time: Dec 21 00:19:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

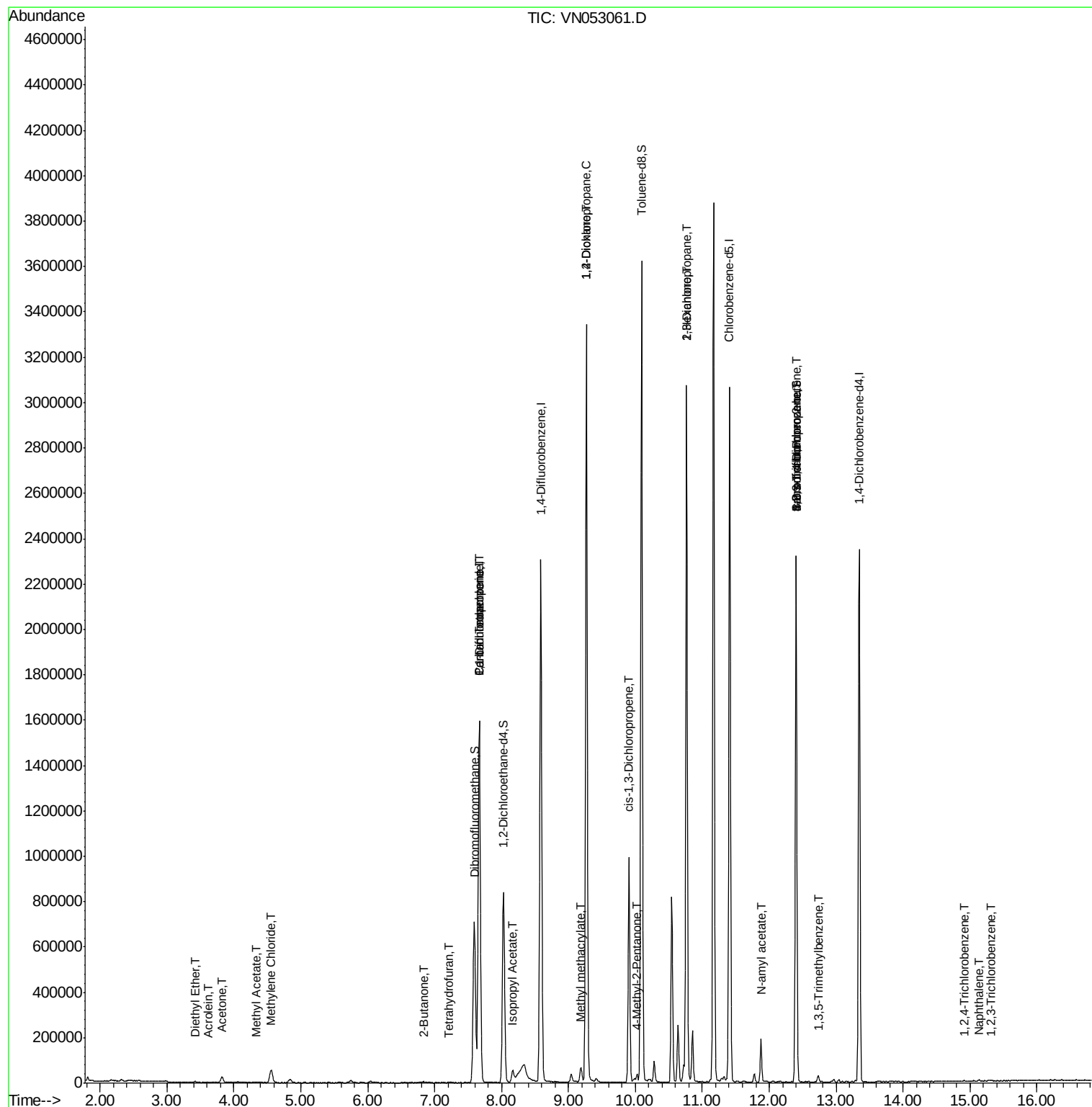
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1418886	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2168451	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1872515	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	677102	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	692840	48.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.24%	
35) Dibromofluoromethane	7.59	113	550680	55.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.18%	
50) Toluene-d8	10.09	98	2625185	49.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.74%	
62) 4-Bromofluorobenzene	12.40	95	812488	43.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.04%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.41	74	2760	0.333	ug/l	80
13) Acrolein	3.61	56	277	0.348	ug/l #	60
16) Acetone	3.82	43	43961	15.571	ug/l	96
18) Methyl Acetate	4.32	43	2716	1.200	ug/l #	82
20) Methylene Chloride	4.56	84	43402	2.818	ug/l	98
25) 2-Butanone	6.84	43	3327	0.702	ug/l	90
29) Tetrahydrofuran	7.21	42	761	0.215	ug/l #	47
31) Cyclohexane	7.67	56	22467	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	91961	4.418	ug/l #	48
38) Carbon Tetrachloride	7.67	117	120981	6.342	ug/l #	16
43) Isopropyl Acetate	8.17	43	70667	2.143	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	4159	0.258	ug/l #	44
48) Methyl methacrylate	9.18	41	22958	2.036	ug/l #	21
49) 1,4-Dioxane	9.27	88	436	3.057	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	28932	2.571	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	190906	7.921	ug/l #	58
57) 1,3-Dichloropropane	10.76	76	33319	1.451	ug/l #	42
59) 2-Hexanone	10.76	43	443646	58.275	ug/l #	50
71) Bromoform	12.40	173	4656	0.447	ug/l #	1
74) N-amyl acetate	11.88	43	57977	3.942	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	374156	32.826	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	13865	0.321	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	374156	105.801	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	1350	0.706	ug/l	95
94) Hexachlorobutadiene	15.01	225	183	Below Cal	#	43
95) Naphthalene	15.13	128	4745	1.321	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	1417	0.636	ug/l	91

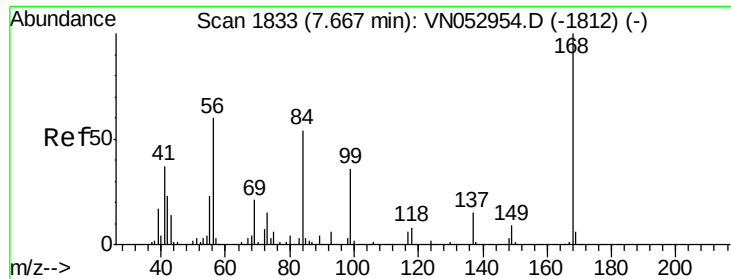
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

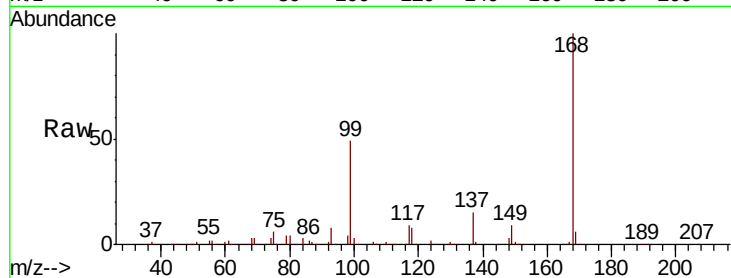
PB115868ZHE#01

Tot Ion:168 Resp: 1418886

Ion Ratio Lower Upper

168 100

99 49.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053061.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053061.D (-1740) (-)

7.67

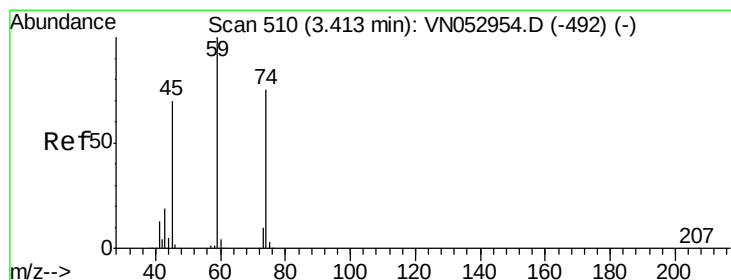
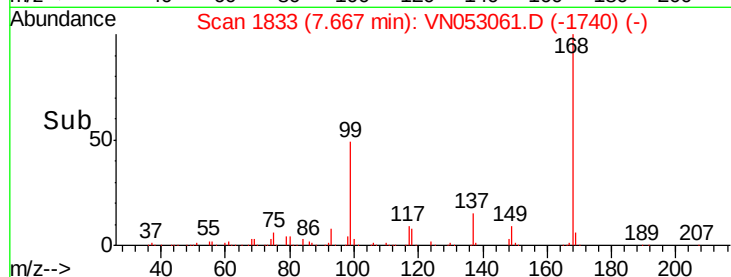
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.333 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN053061.D

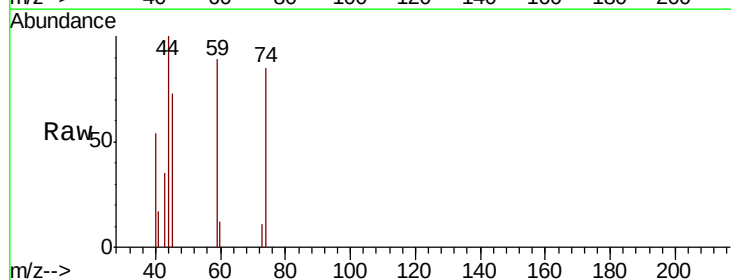
Acq: 20 Dec 2018 17:15

Tgt Ion: 74 Resp: 2760

Ion Ratio Lower Upper

74 100

45 118.4 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VN053061.D (-417) (-)

Ion 45.00 (44.70 to 45.70): VN053061.D (-417) (-)

3.41

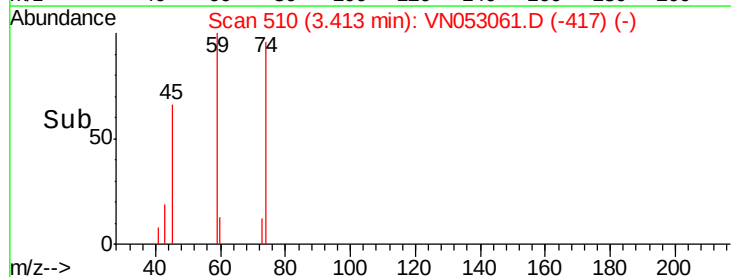
1500

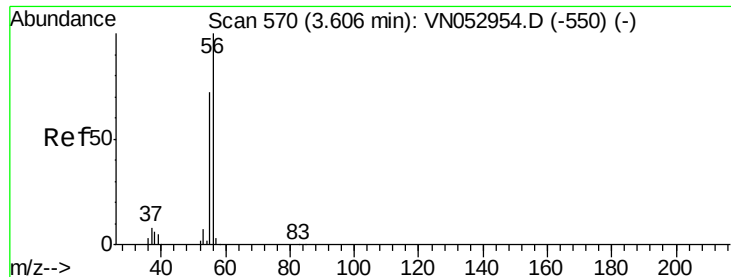
1000

500

0

Time-->





#13

Acrolein

Concen: 0.348 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

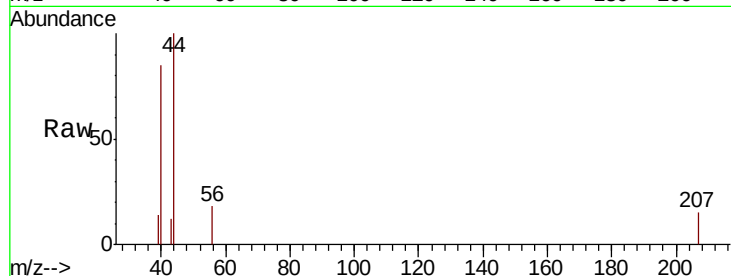
PB115868ZHE#01

Tot Ion: 56 Resp: 277

Ion Ratio Lower Upper

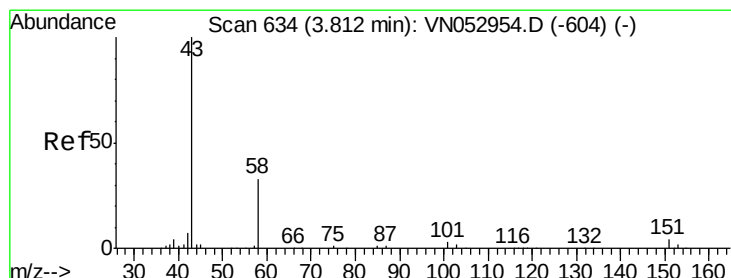
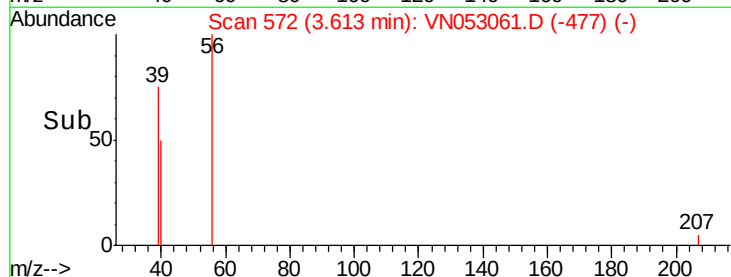
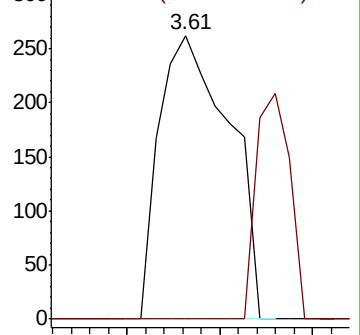
56 100

55 37.9 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 15.571 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053061.D

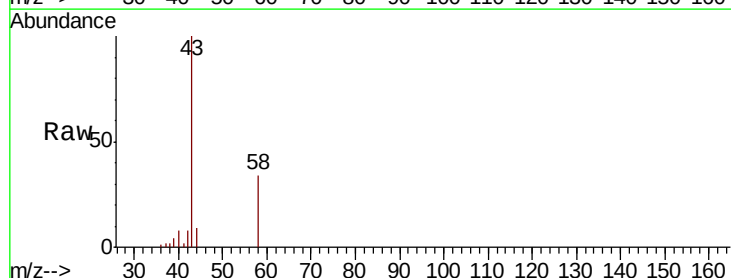
Acq: 20 Dec 2018 17:15

Tgt Ion: 43 Resp: 43961

Ion Ratio Lower Upper

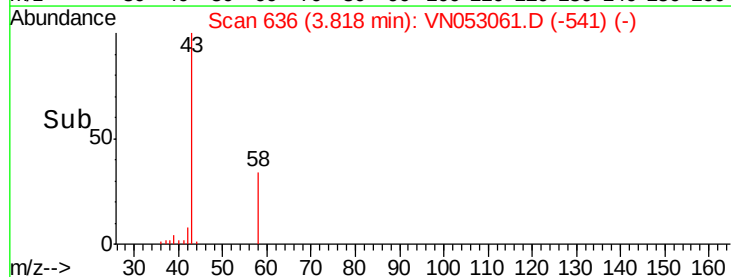
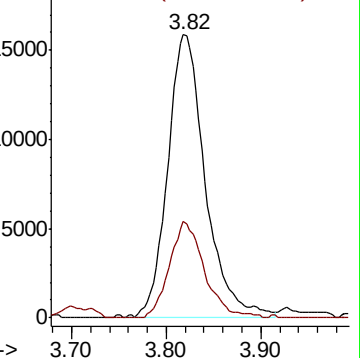
43 100

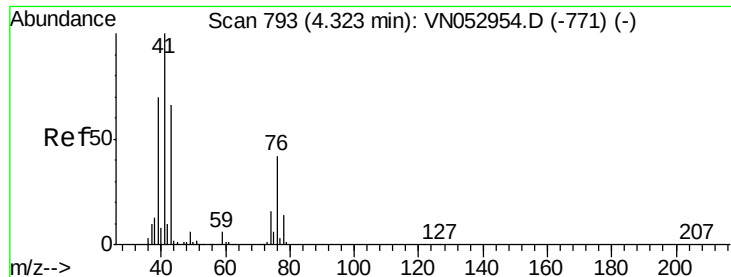
58 34.0 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

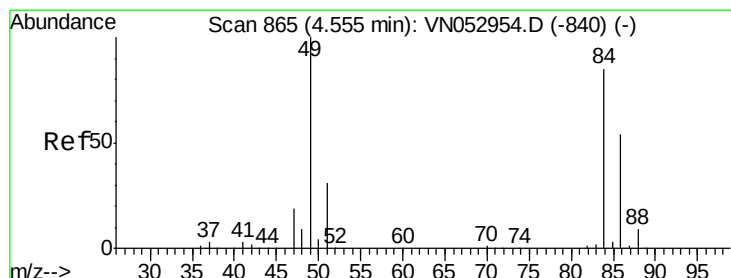
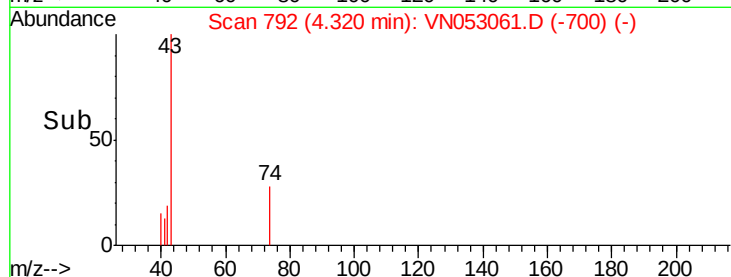
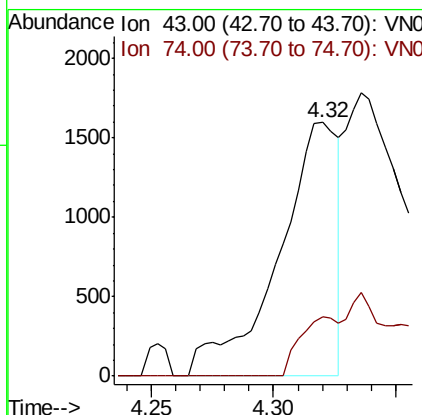
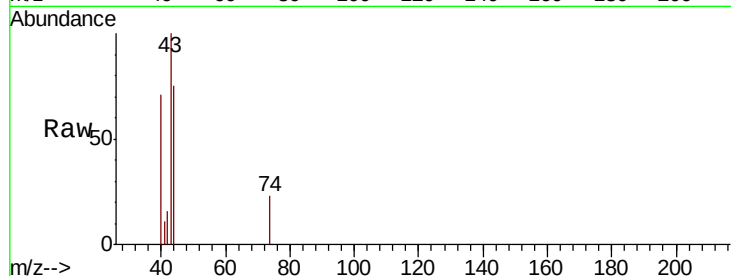




#18
Methyl Acetate
Concen: 1.200 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN053061.D
Acq: 20 Dec 2018 17:15

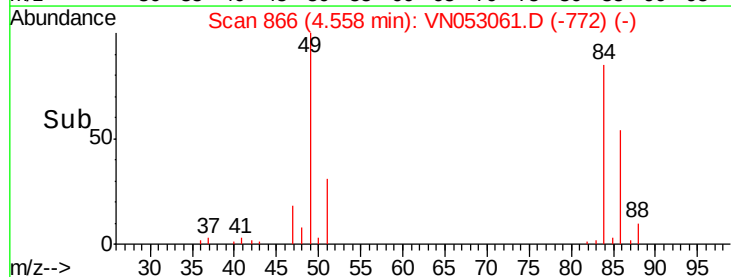
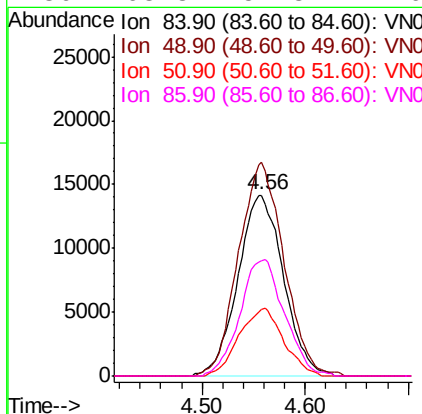
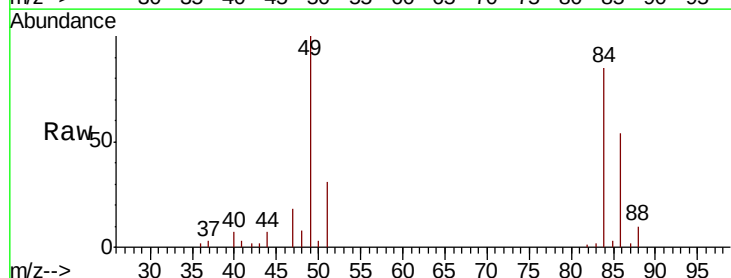
Instrument :
MSVOA_N
ClientSampleId :
PB115868ZHE#01

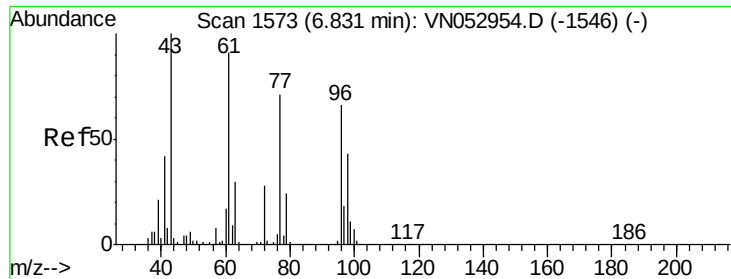
Tot Ion: 43 Resp: 2716
Ion Ratio Lower Upper
43 100
74 14.9 19.2 28.8#



#20
Methylene Chloride
Concen: 2.818 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053061.D
Acq: 20 Dec 2018 17:15

Tgt Ion: 84 Resp: 43402
Ion Ratio Lower Upper
84 100
49 117.9 96.8 145.2
51 37.0 29.9 44.9
86 63.8 51.8 77.6

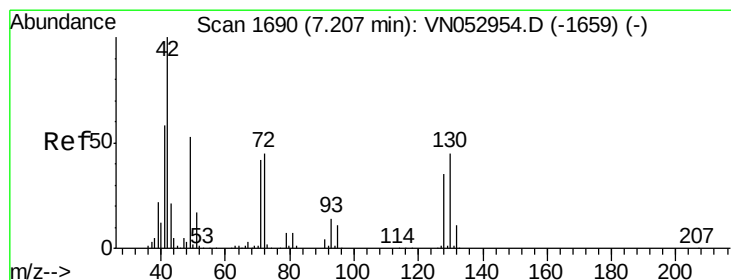
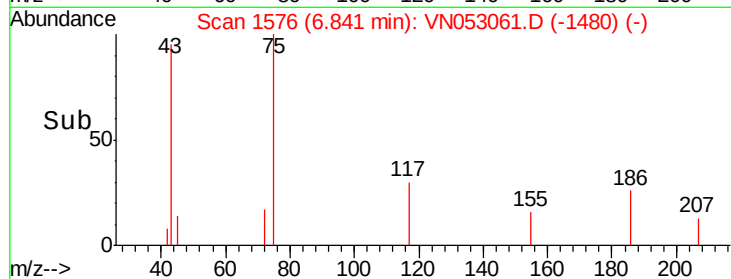
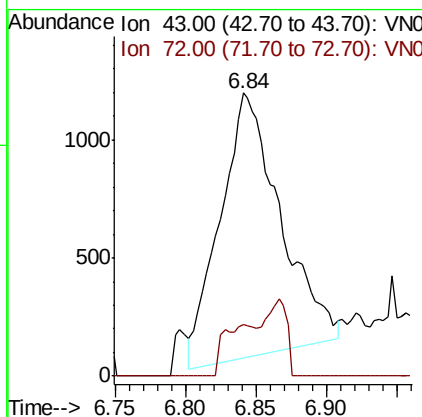
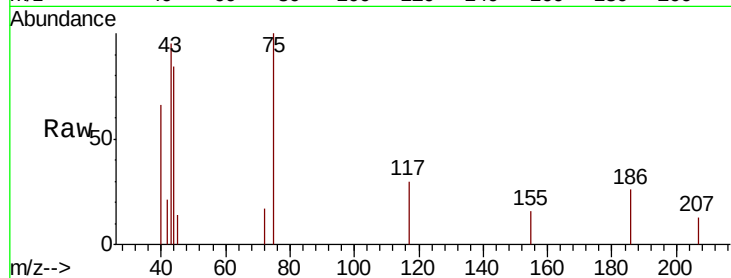




#25
2-Butanone
Concen: 0.702 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053061.D
Acq: 20 Dec 2018 17:15

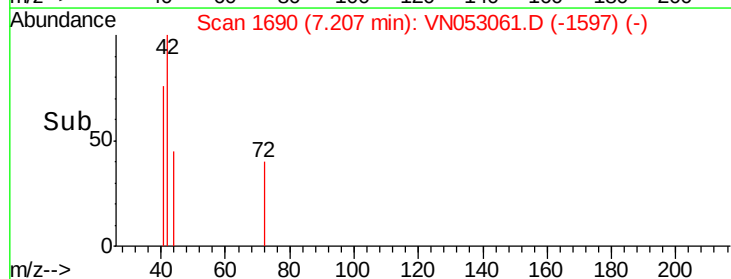
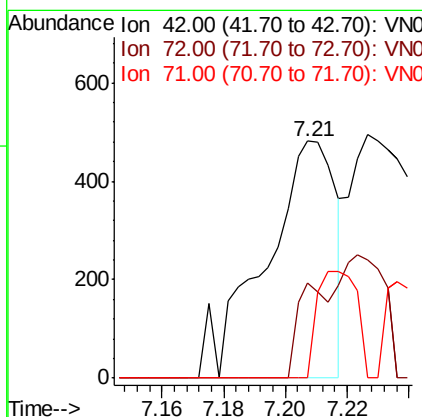
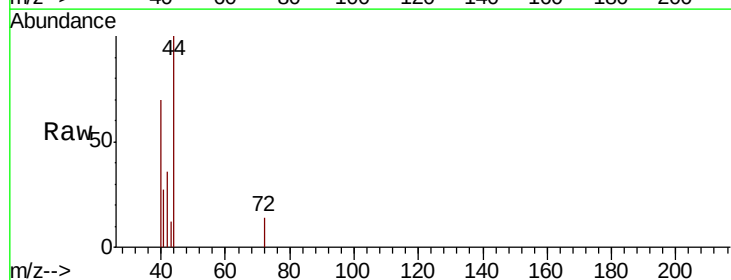
Instrument :
MSVOA_N
ClientSampleId :
PB115868ZHE#01

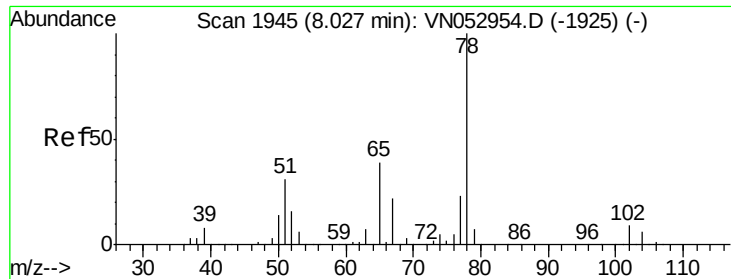
Tot Ion: 43 Resp: 3327
Ion Ratio Lower Upper
43 100
72 21.1 21.0 31.6



#29
Tetrahydrofuran
Concen: 0.215 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VN053061.D
Acq: 20 Dec 2018 17:15

Tgt Ion: 42 Resp: 761
Ion Ratio Lower Upper
42 100
72 17.1 34.7 52.1#
71 0.0 32.3 48.5#

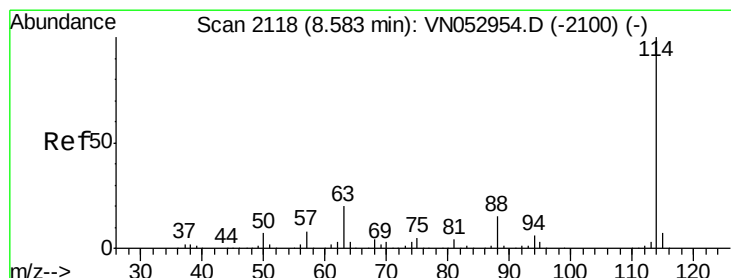
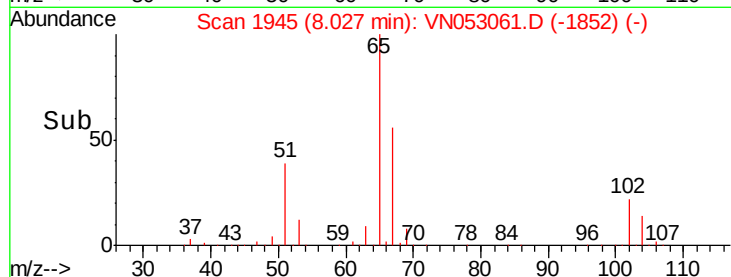
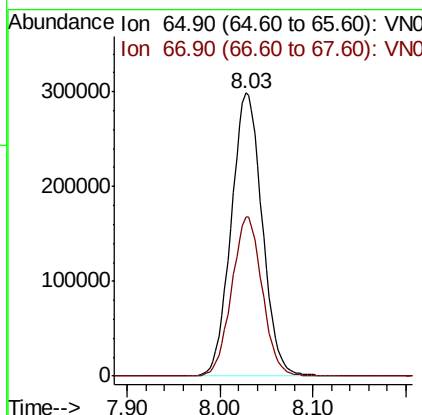
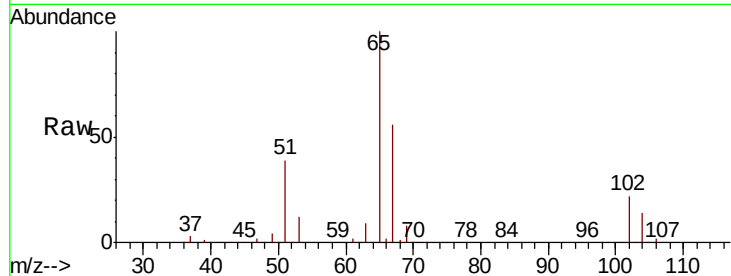




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

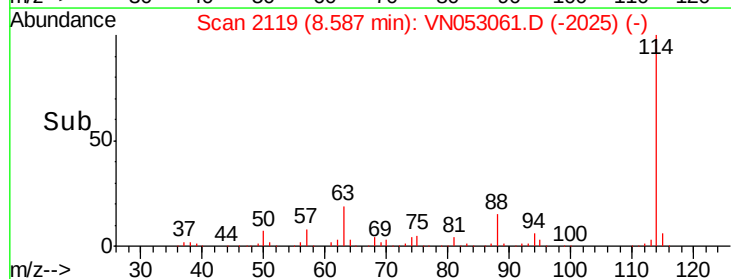
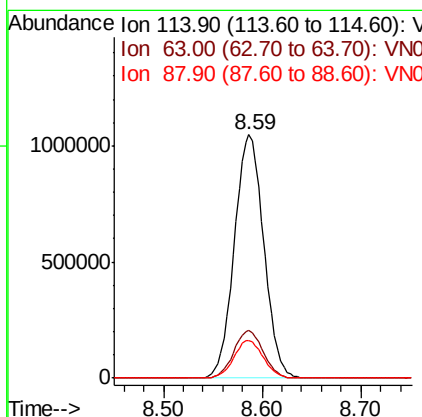
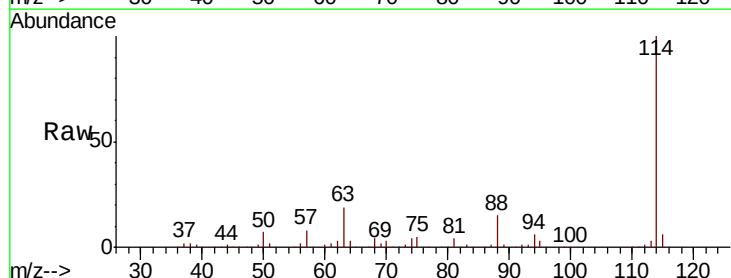
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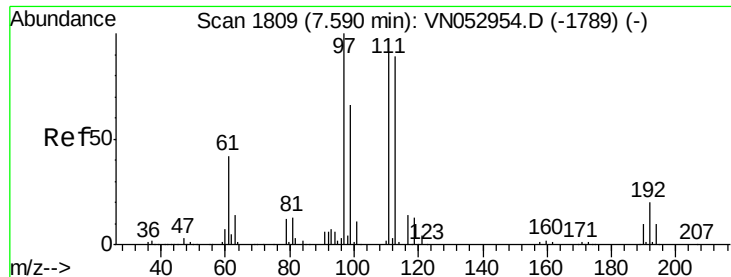
Tot Ion: 65 Resp: 692840
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

Tgt Ion: 114 Resp: 2168451
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.8
 88 15.4 0.0 31.0

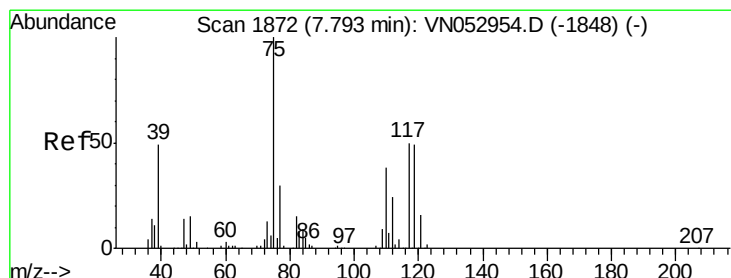
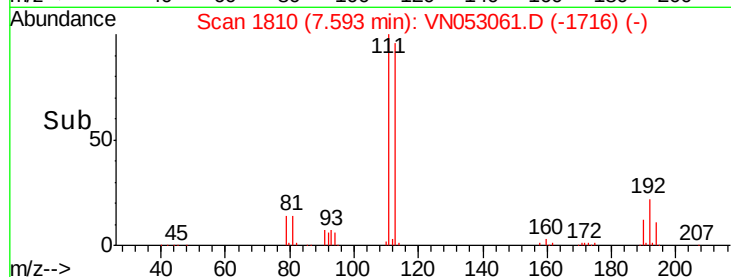
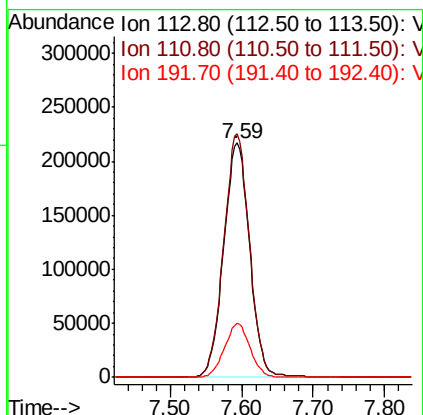
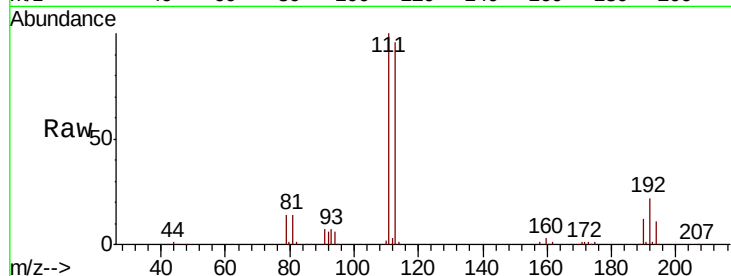




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

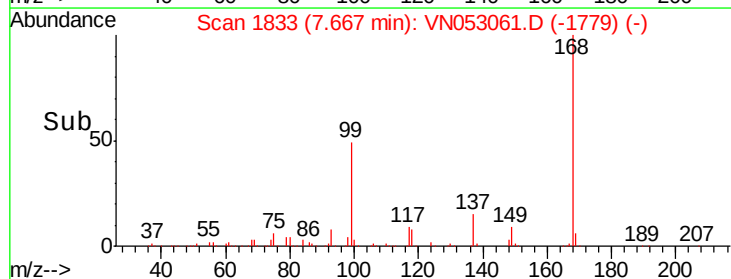
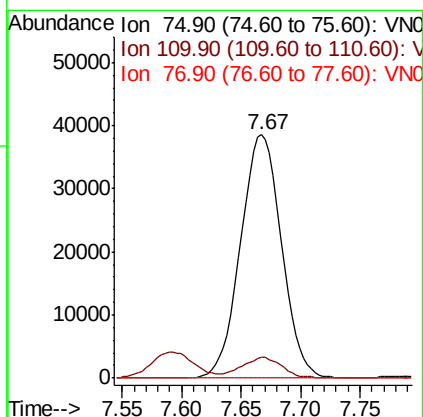
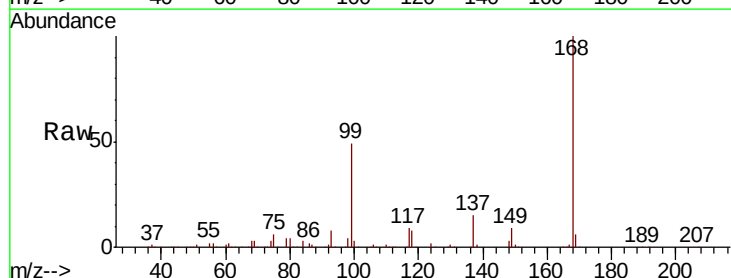
Instrument :
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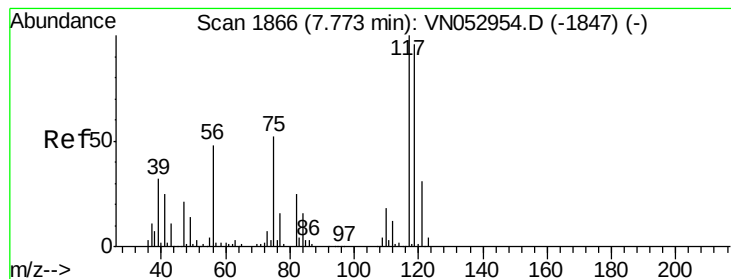
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.0	124.4
192	22.4	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 4.418 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.2	54.6#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.342 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#01

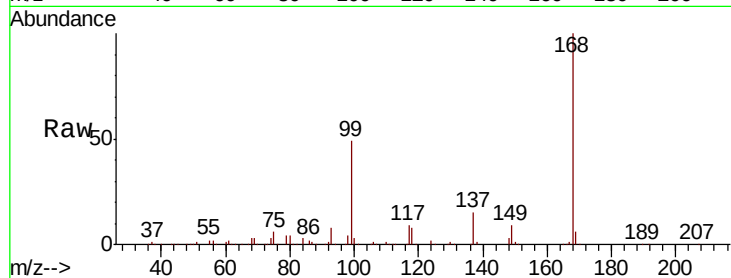
Tot Ion:117 Resp: 120981

Ion Ratio Lower Upper

117 100

119 4.9 77.1 115.7#

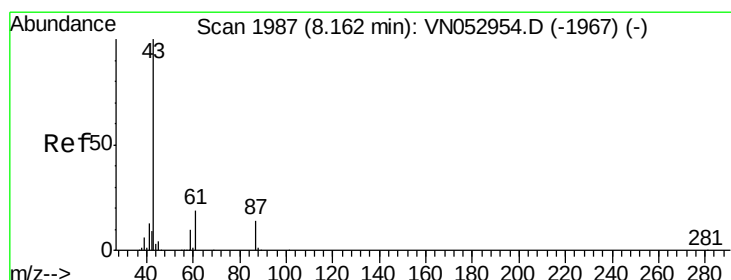
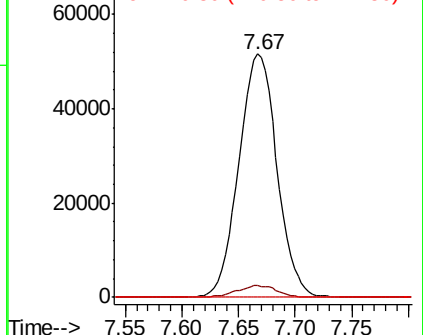
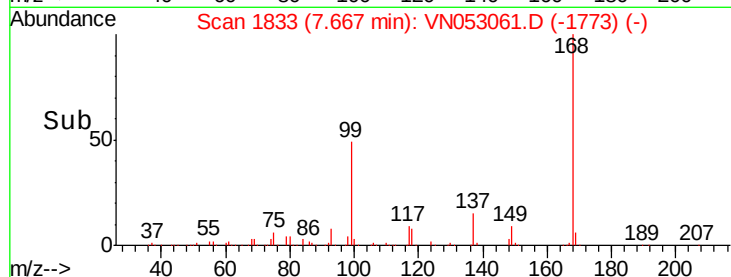
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.143 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

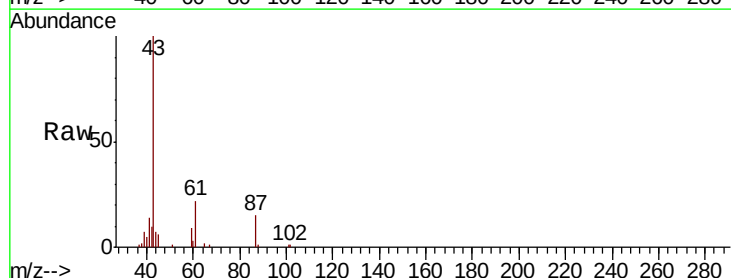
Tgt Ion: 43 Resp: 70667

Ion Ratio Lower Upper

43 100

61 19.6 22.9 34.3#

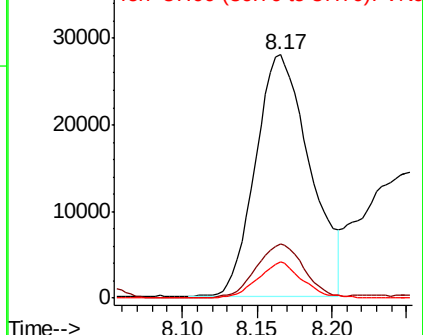
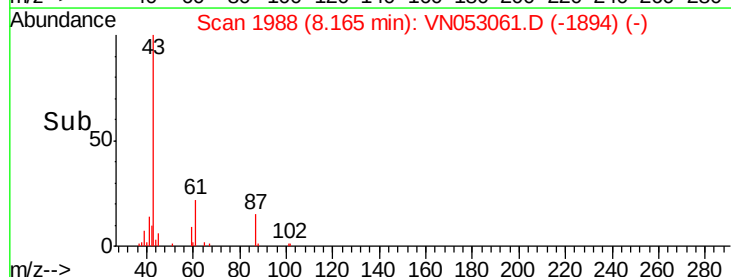
87 12.0 10.6 15.8

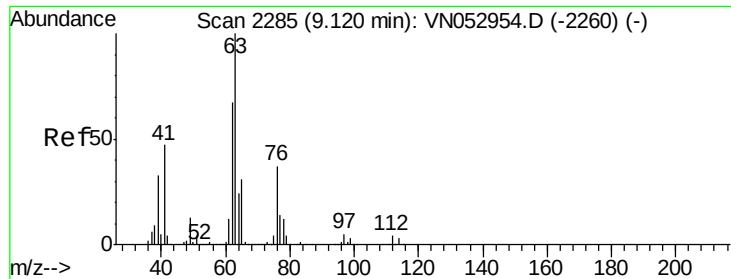


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

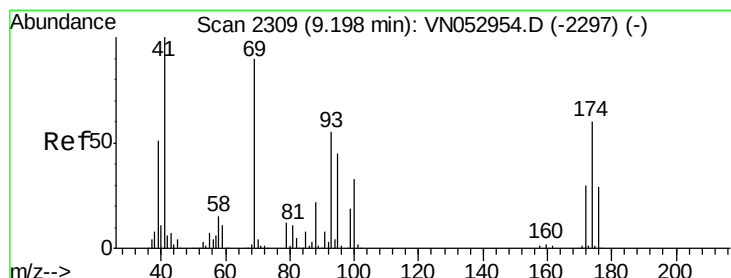
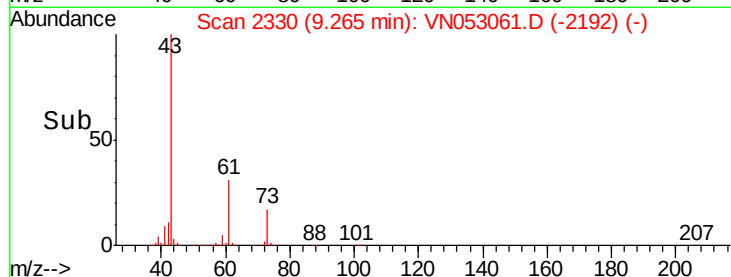
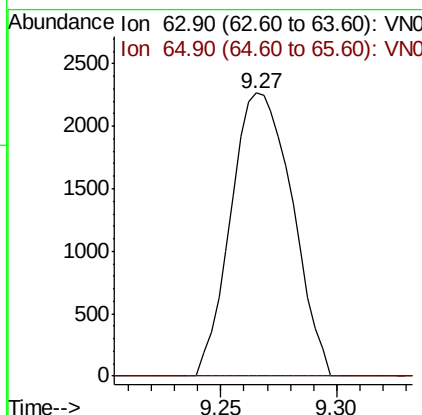
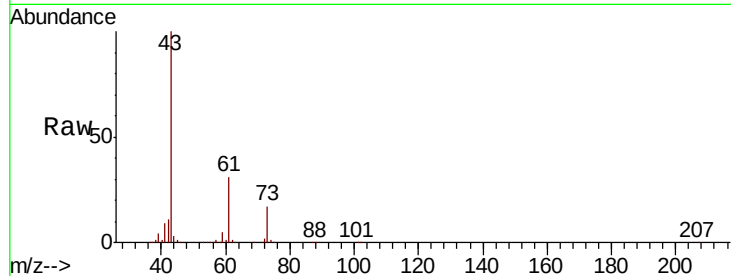




#45
 1,2-Dichloropropane
 Concen: 0.258 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

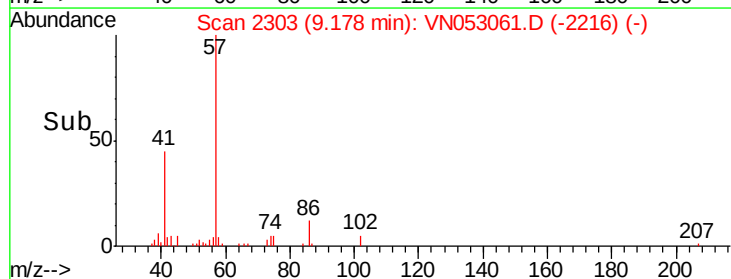
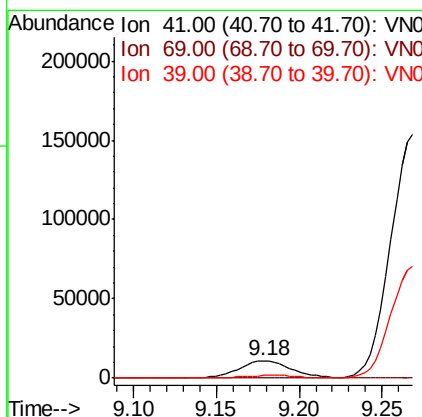
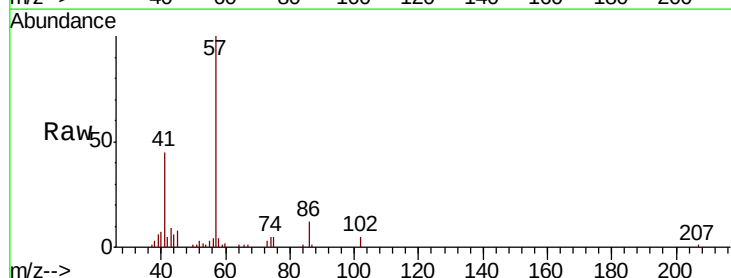
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115868ZHE#01

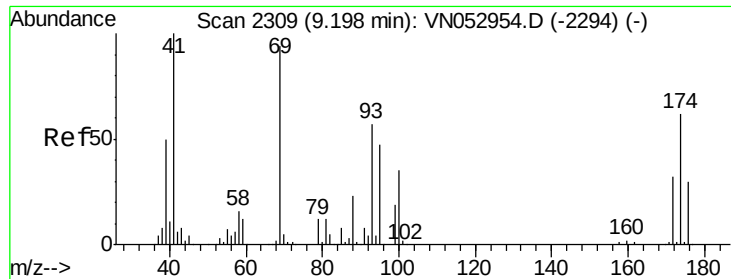
Tot Ion: 63 Resp: 4159
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.6 37.0#



#48
 Methyl methacrylate
 Concen: 2.036 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

Tgt Ion: 41 Resp: 22958
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.2 108.2#
 39 17.0 41.9 62.9#





#49

1,4-Dioxane

Concen: 3.057 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#01

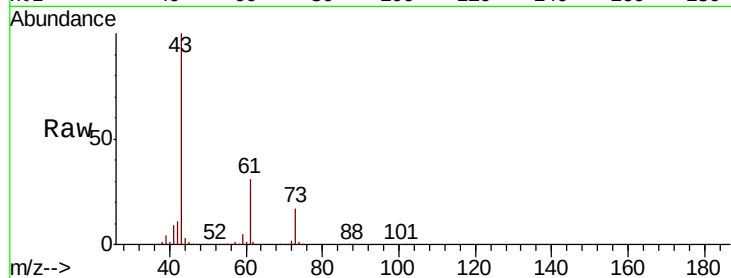
Tot Ion: 88 Resp: 436

Ion Ratio Lower Upper

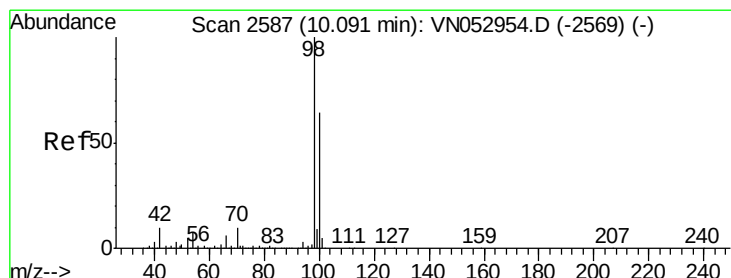
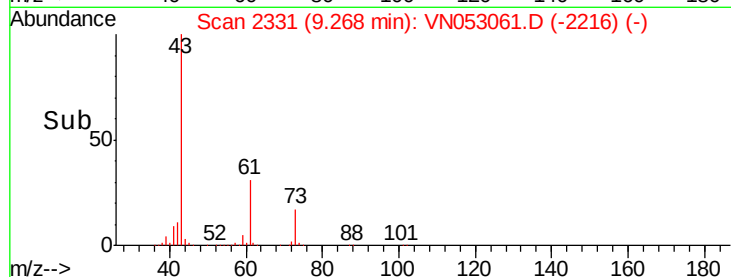
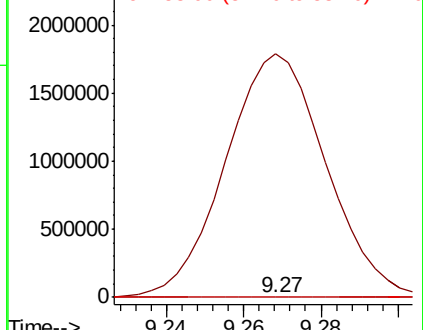
88 100

43 746884.4 26.6 40.0#

58 2925.9 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 3.057 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053061.D

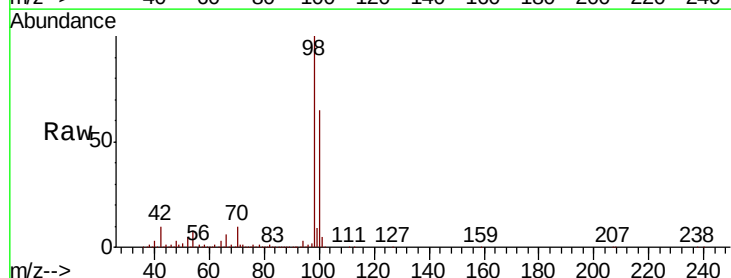
Acq: 20 Dec 2018 17:15

Tgt Ion: 98 Resp: 2625185

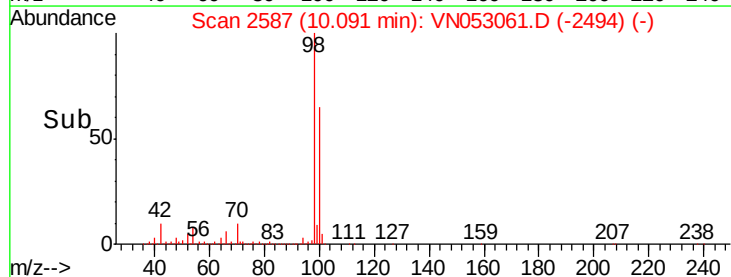
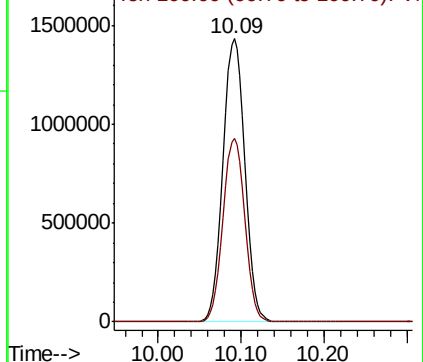
Ion Ratio Lower Upper

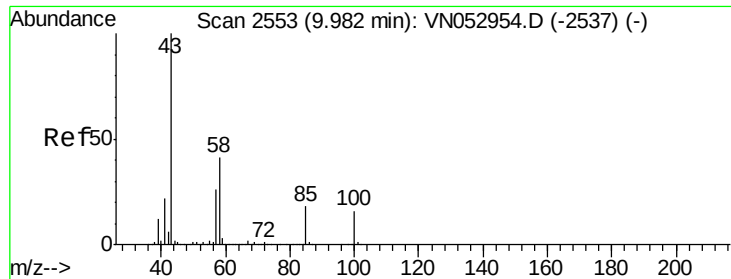
98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.571 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

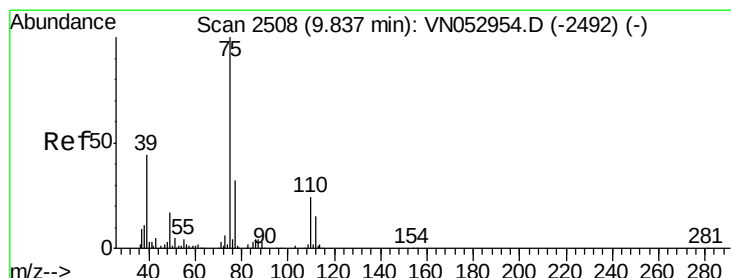
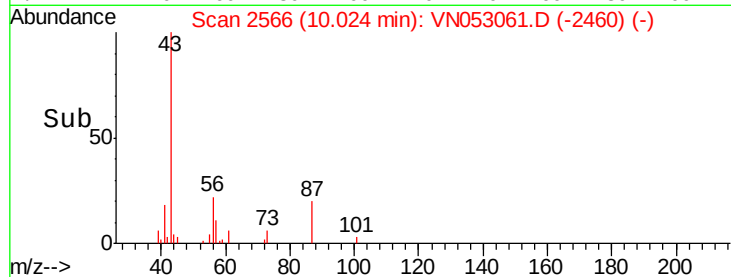
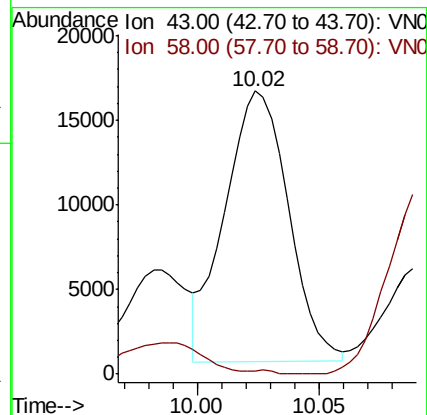
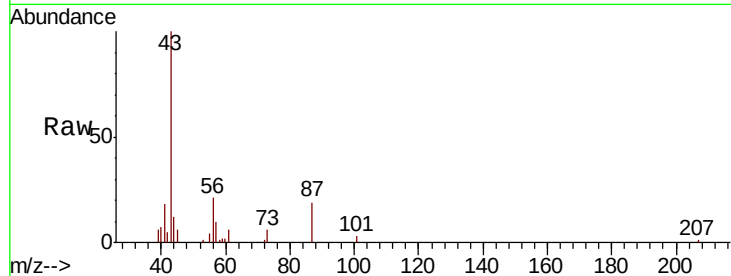
PB115868ZHE#01

Tot Ion: 43 Resp: 28932

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 7.921 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

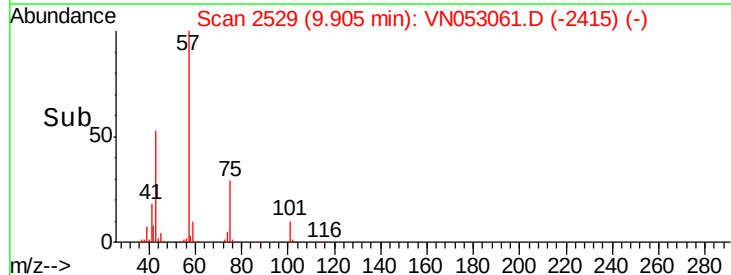
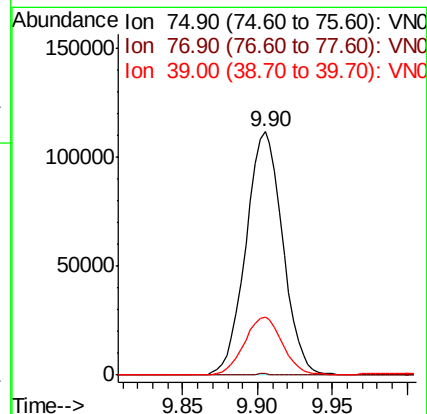
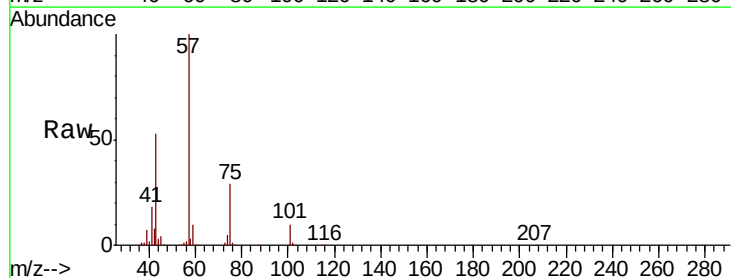
Tgt Ion: 75 Resp: 190906

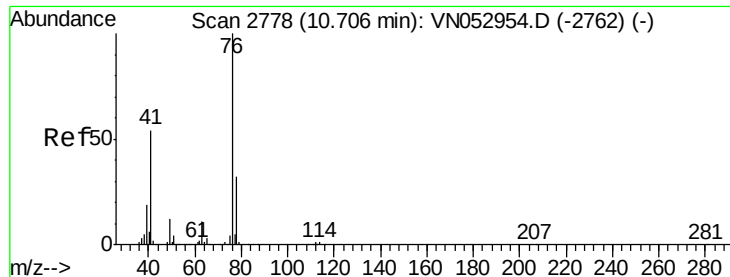
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

39 23.8 34.8 52.2#





#57

1,3-Dichloropropane

Concen: 1.451 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

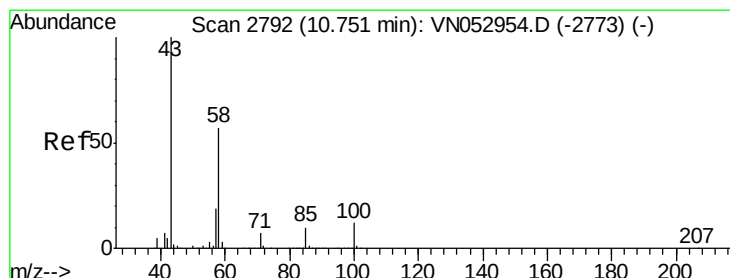
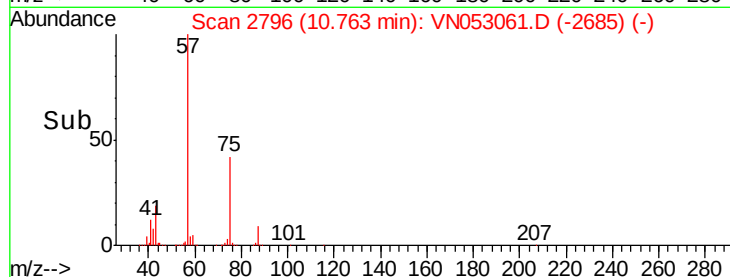
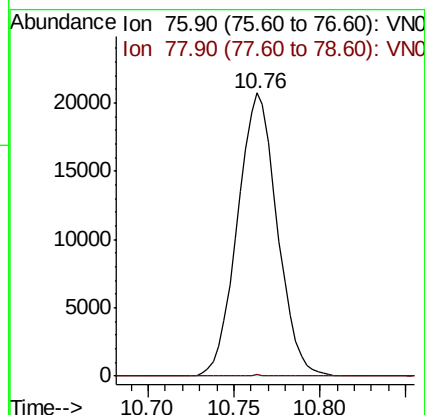
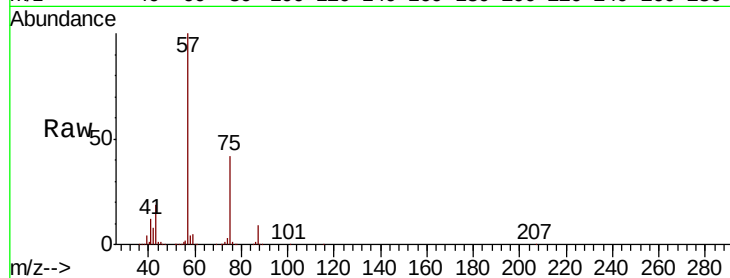
PB115868ZHE#01

Tot Ion: 76 Resp: 33319

Ion Ratio Lower Upper

76 100

78 0.1 25.8 38.8#



#59

2-Hexanone

Concen: 58.275 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053061.D

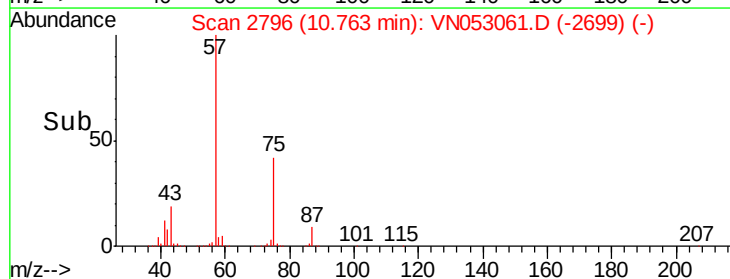
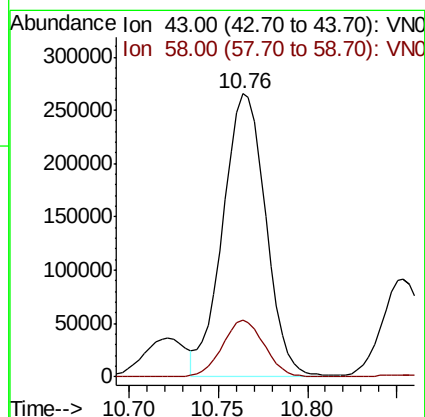
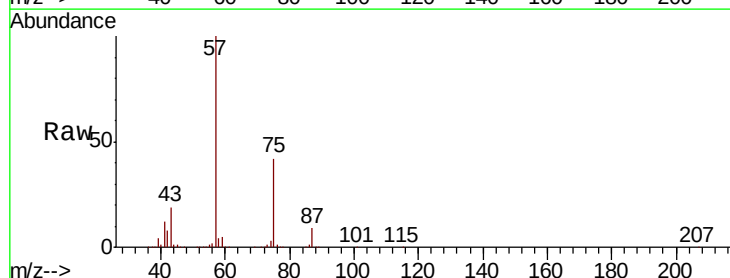
Acq: 20 Dec 2018 17:15

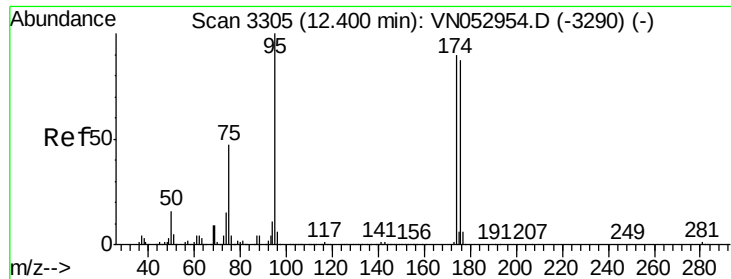
Tgt Ion: 43 Resp: 443646

Ion Ratio Lower Upper

43 100

58 19.7 28.1 84.3#

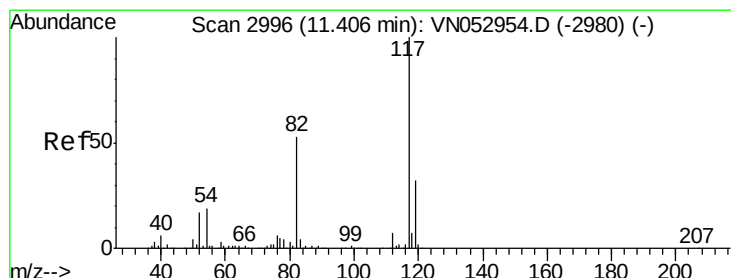
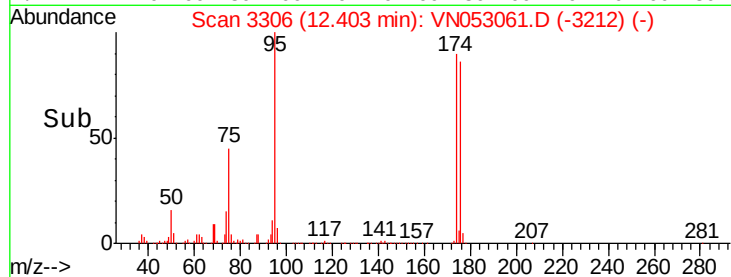
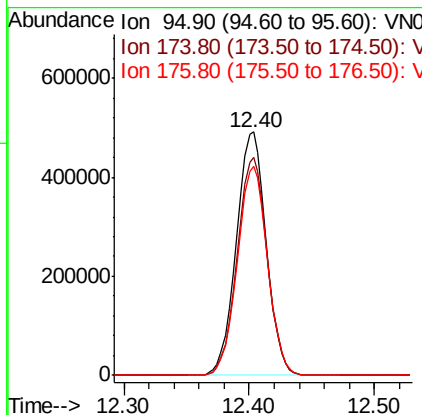
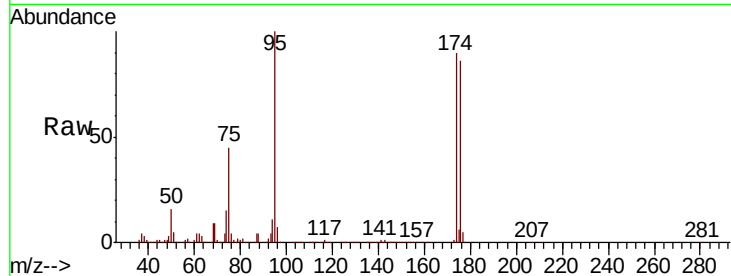




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053061.D
Acq: 20 Dec 2018 17:15

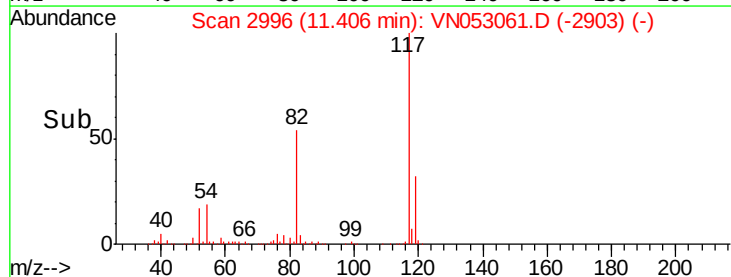
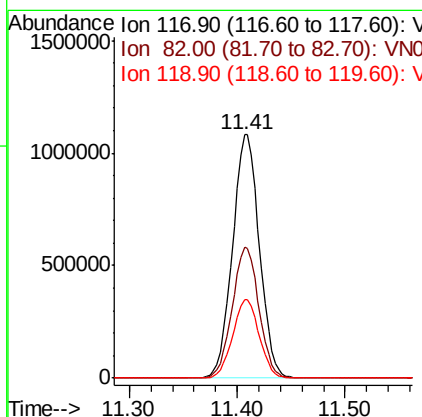
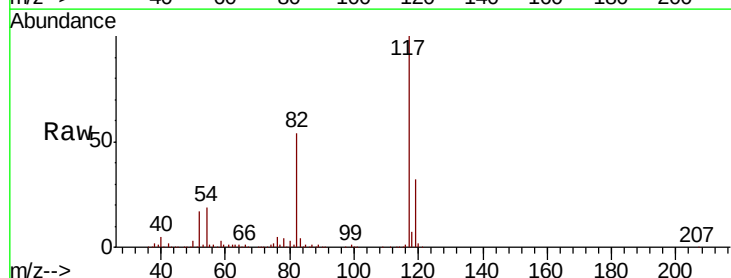
Instrument :
MSVOA_N
ClientSampleId :
PB115868ZHE#01

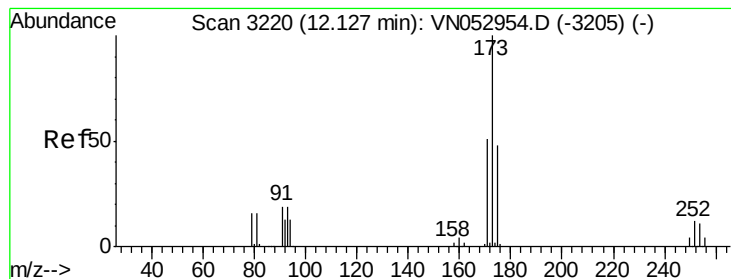
Tot Ion: 95 Resp: 812488
Ion Ratio Lower Upper
95 100
174 89.7 0.0 178.8
176 86.5 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053061.D
Acq: 20 Dec 2018 17:15

Tgt Ion: 117 Resp: 1872515
Ion Ratio Lower Upper
117 100
82 53.6 42.8 64.2
119 32.1 25.5 38.3





#71

Bromoform

Concen: 0.447 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#01

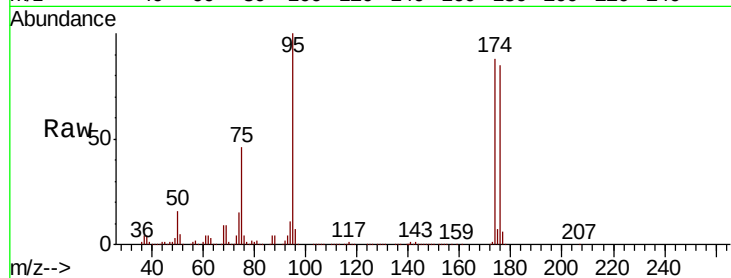
Tot Ion:173 Resp: 4656

Ion Ratio Lower Upper

173 100

175 991.7 24.3 72.9#

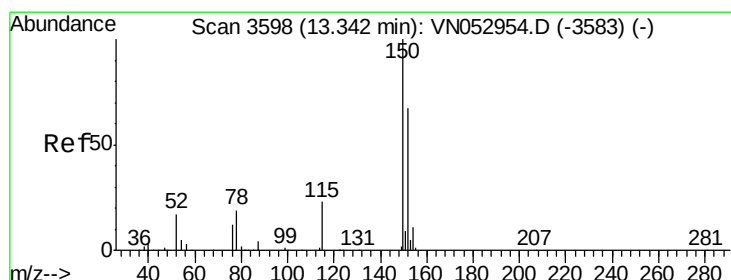
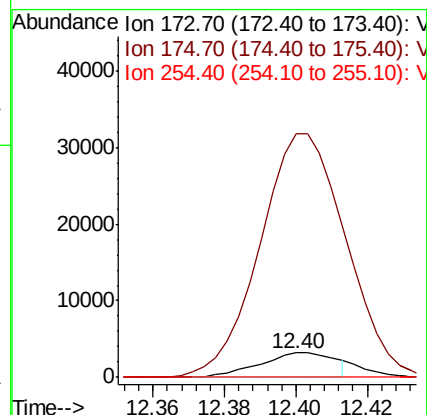
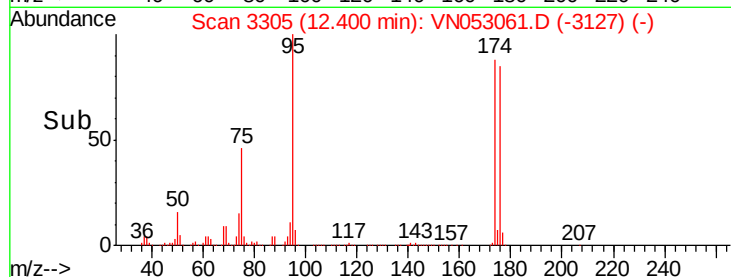
254 0.0 0.1 0.1#



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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

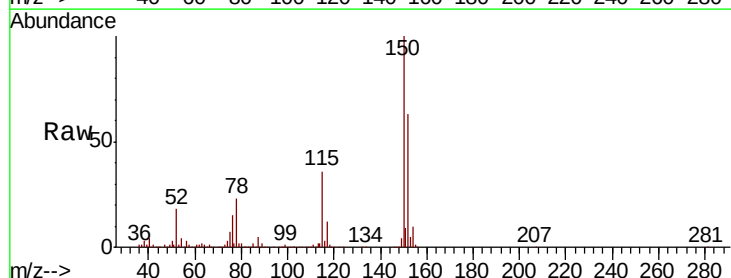
Tgt Ion:152 Resp: 677102

Ion Ratio Lower Upper

152 100

115 56.3 28.3 85.0

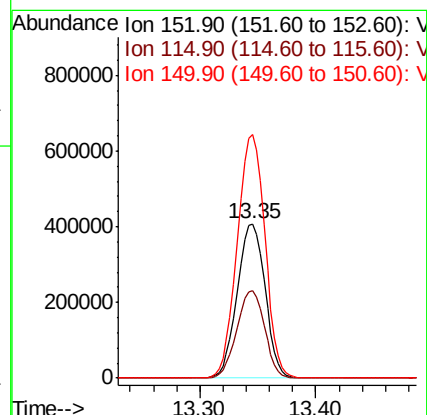
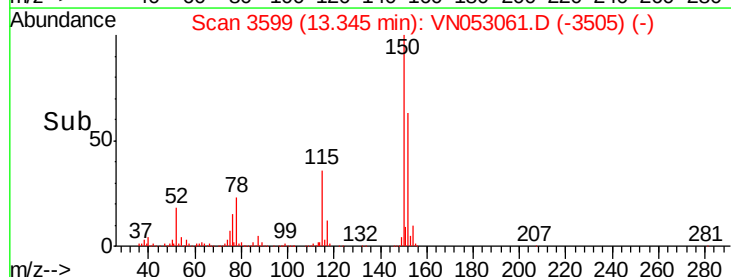
150 156.9 0.0 347.8

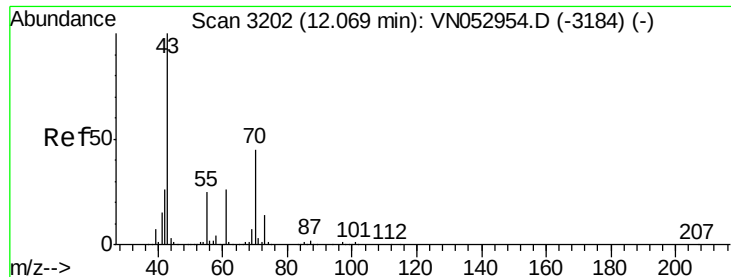


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 3.942 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

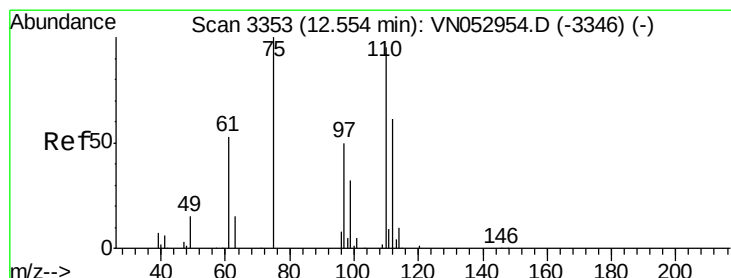
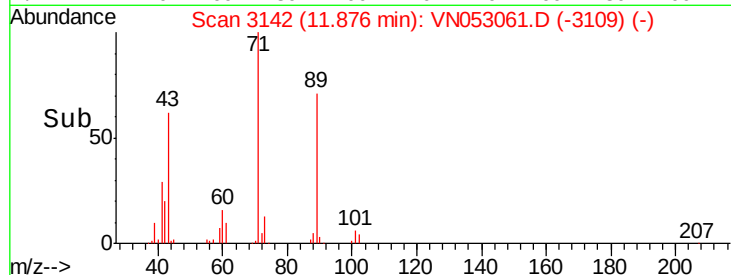
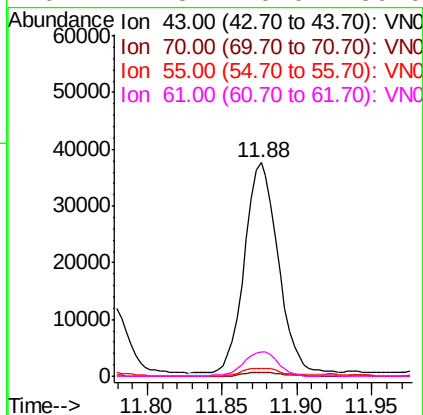
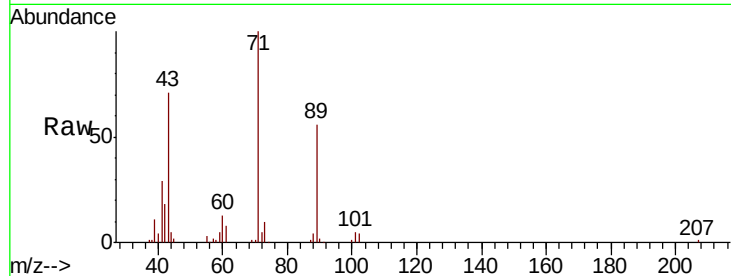
Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#01

Tot Ion:	43	Resp:	57977
Ion	Ratio	Lower	Upper
43	100		
70	2.0	34.2	51.4#
55	4.2	20.3	30.5#
61	11.8	20.0	30.0#



#76

1,2,3-Trichloropropane

Concen: 32.826 ug/l

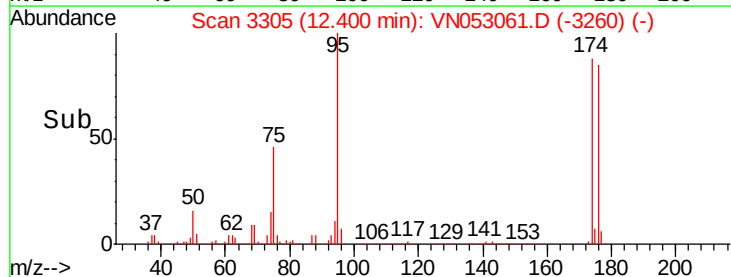
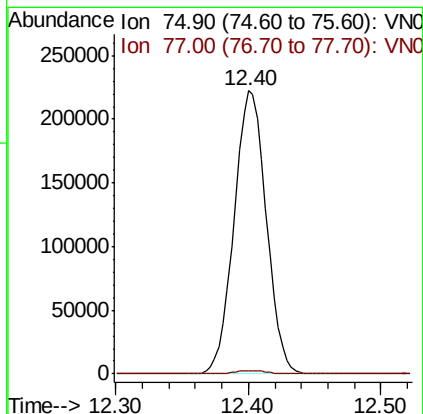
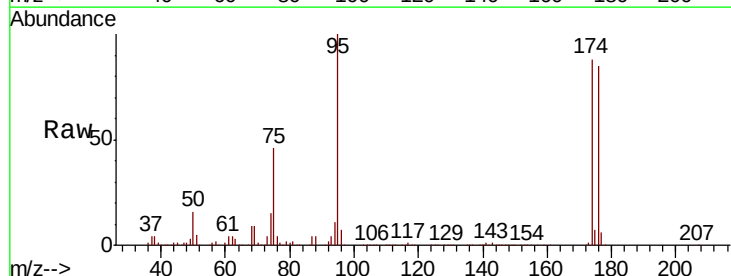
RT: 12.40 min Scan# 3305

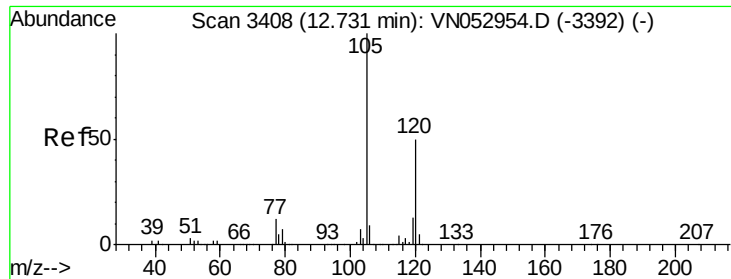
Delta R.T. -0.15 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

Tgt Ion:	75	Resp:	374156
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#

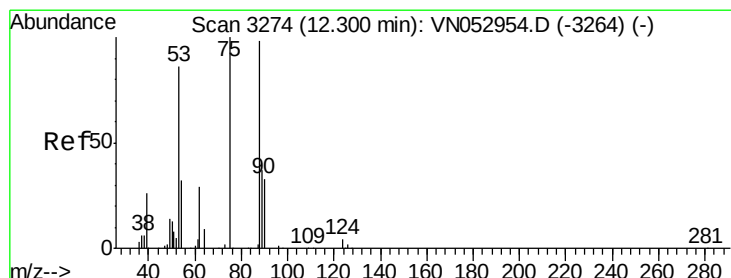
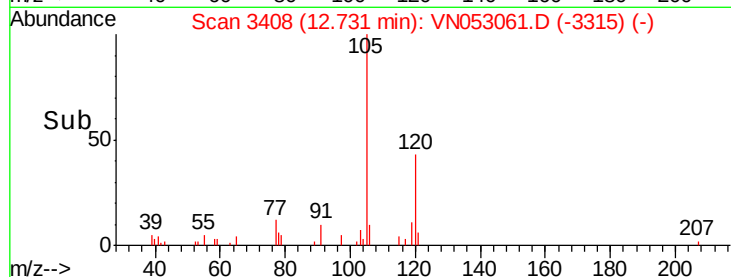
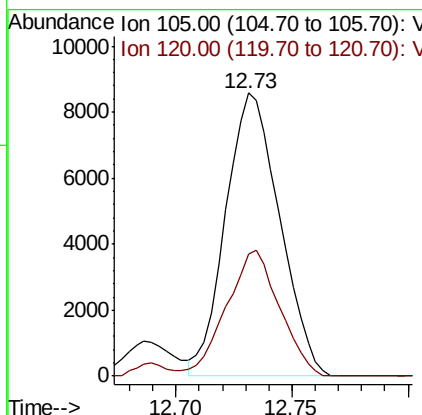
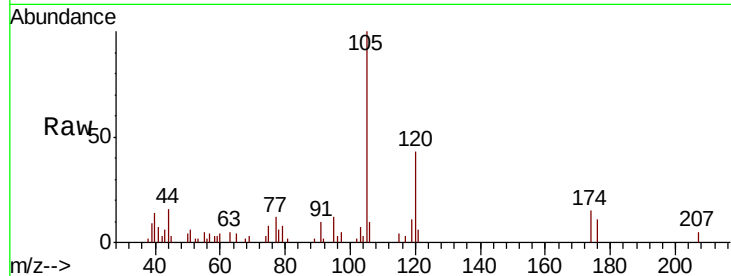




#80
 1,3,5-Trimethylbenzene
 Concen: 0.321 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

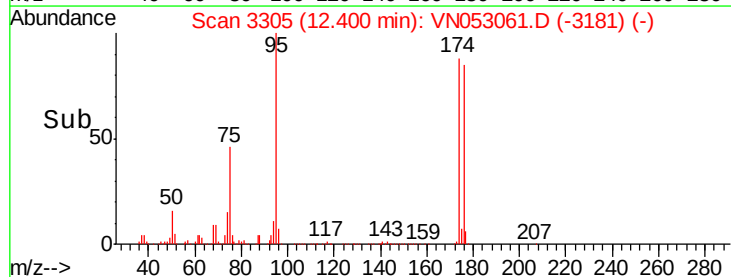
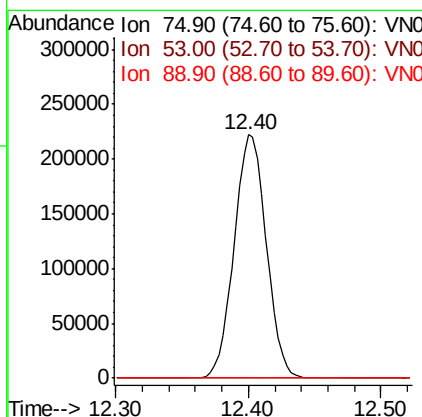
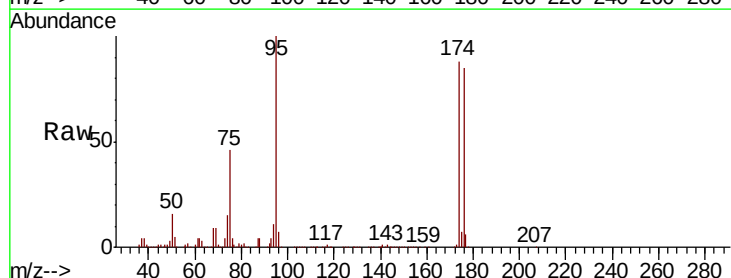
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115868ZHE#01

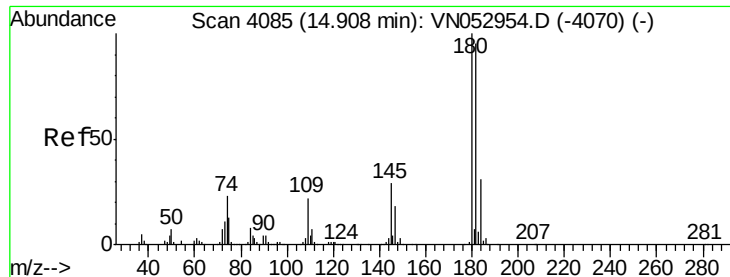
Tot Ion:105 Resp: 13865
 Ion Ratio Lower Upper
 105 100
 120 43.8 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 105.801 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

Tgt Ion: 75 Resp: 374156
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 36.1 54.1#

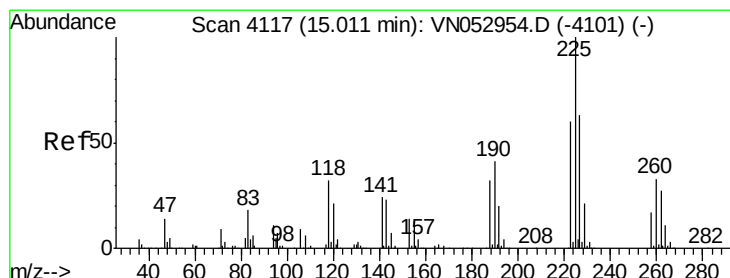
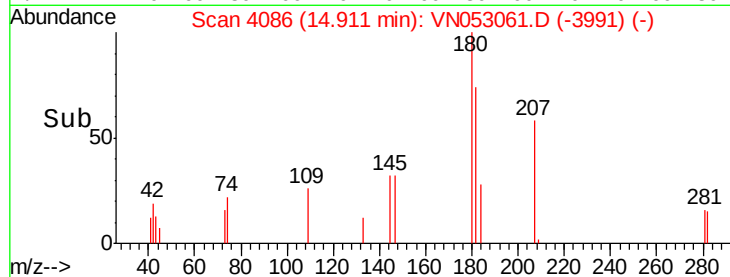
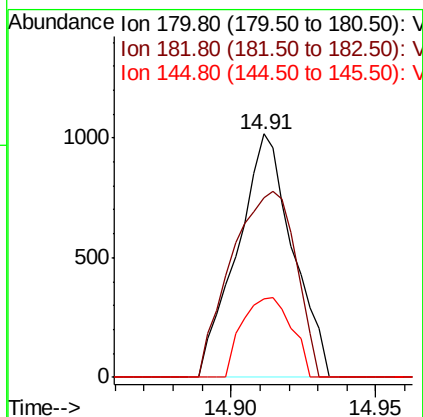
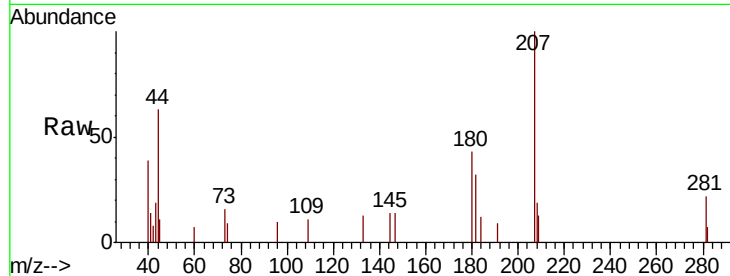




#93
 1,2,4-Trichlorobenzene
 Concen: 0.706 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

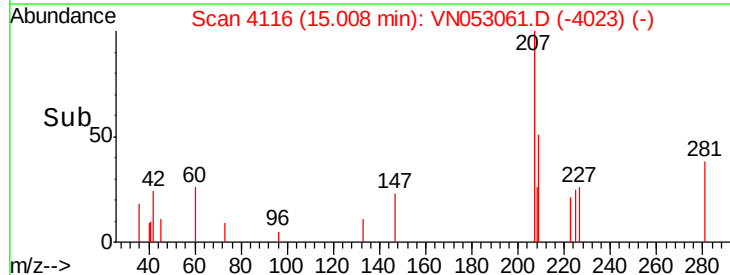
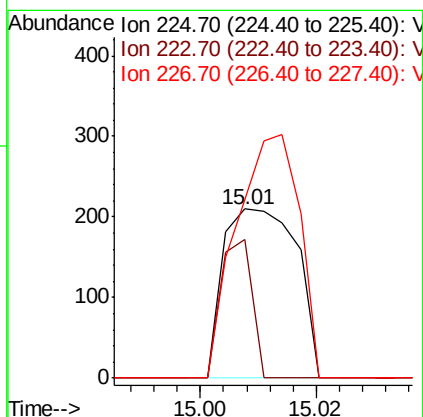
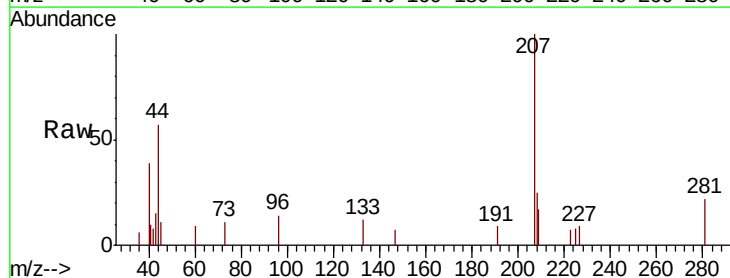
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115868ZHE#01

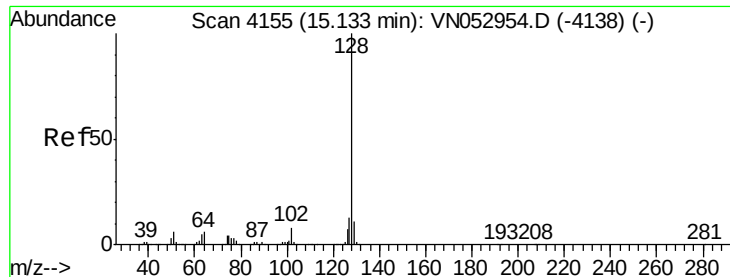
Tot Ion:180 Resp: 1350
 Ion Ratio Lower Upper
 180 100
 182 89.0 47.8 143.3
 145 29.3 14.2 42.6



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN053061.D
 Acq: 20 Dec 2018 17:15

Tgt Ion:225 Resp: 183
 Ion Ratio Lower Upper
 225 100
 223 34.4 31.5 94.5
 227 123.5 31.9 95.7#





#95

Naphthalene

Concen: 1.321 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#01

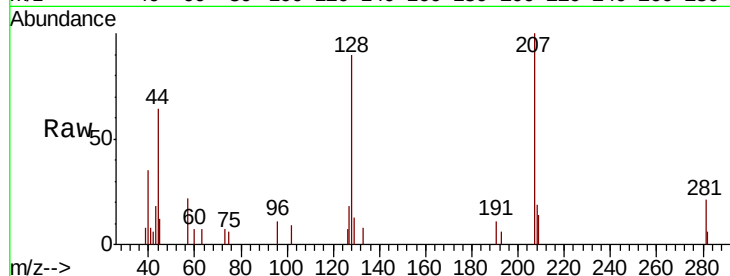
Tot Ion:128 Resp: 4745

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.4

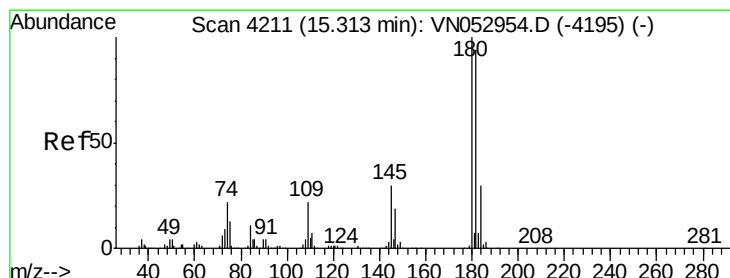
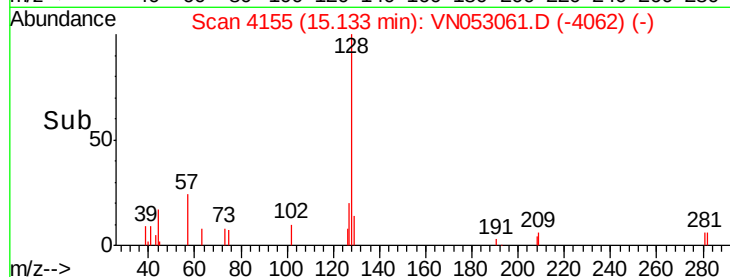
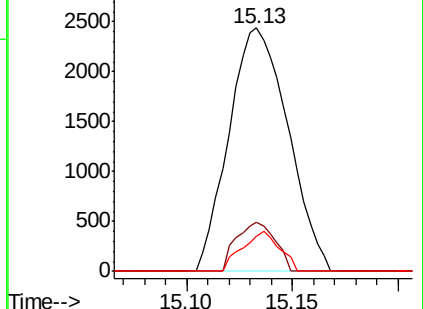
129 10.3 8.6 13.0



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



#96

1,2,3-Trichlorobenzene

Concen: 0.636 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN053061.D

Acq: 20 Dec 2018 17:15

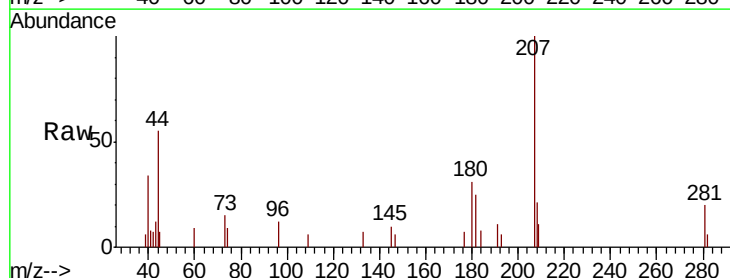
Tgt Ion:180 Resp: 1417

Ion Ratio Lower Upper

180 100

182 101.3 47.9 143.7

145 19.3 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

