

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053064.D
 Acq On : 20 Dec 2018 18:35
 Operator : MD\SY
 Sample : PB115868ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115868ZHE#04

Quant Time: Dec 21 00:19:52 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	1383935	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2144328	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1894954	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	750274	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	710049	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
35) Dibromofluoromethane	7.59	113	545929	55.73	ug/l	0.00
Spiked Amount			Recovery	=	111.46%	
50) Toluene-d8	10.09	98	2587994	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
62) 4-Bromofluorobenzene	12.40	95	839795	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	

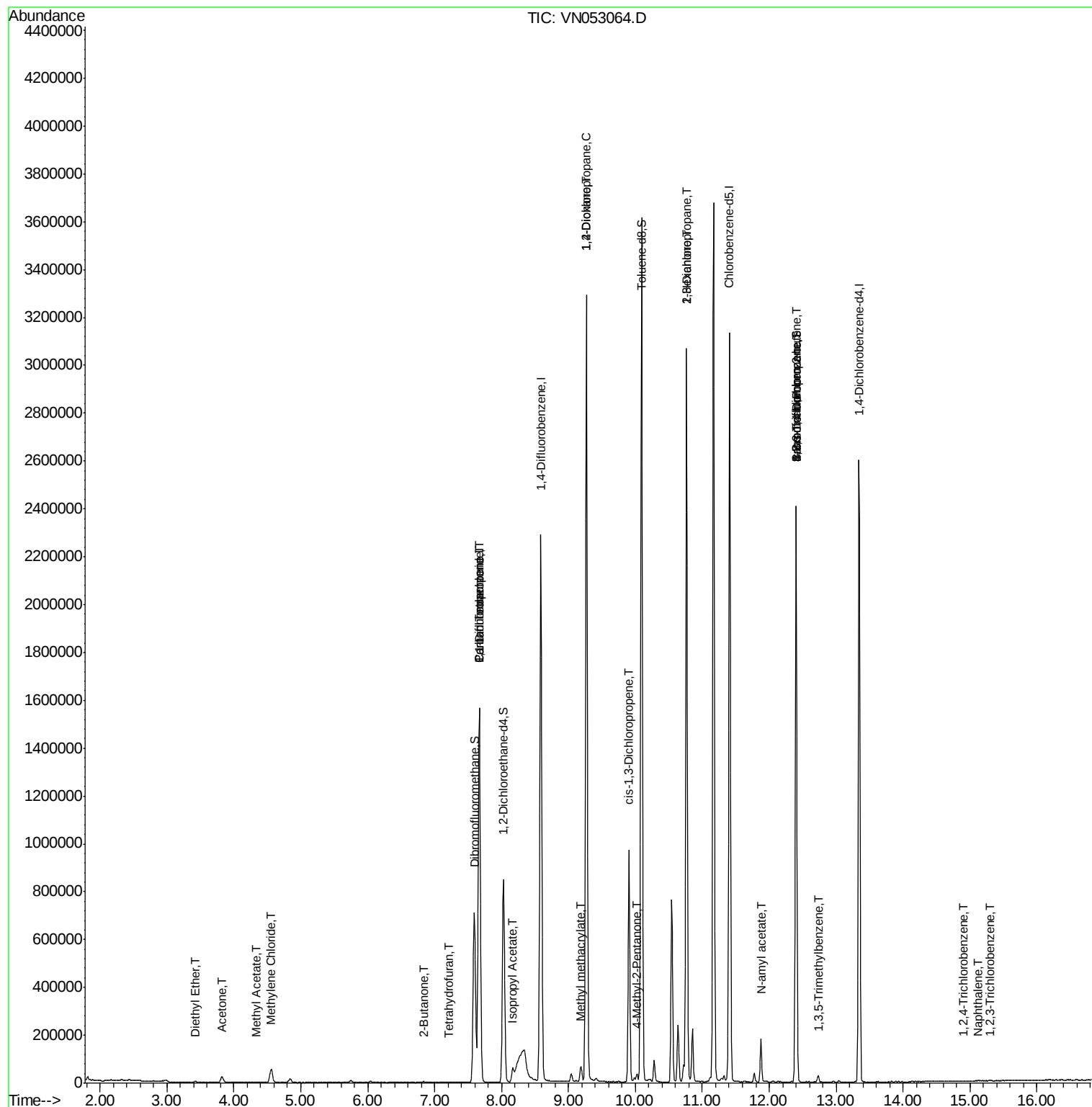
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	2485	0.308	ug/l	70
16) Acetone	3.82	43	41580	15.100	ug/l	94
18) Methyl Acetate	4.33	43	6612	1.510	ug/l	93
20) Methylene Chloride	4.56	84	43466	2.894	ug/l	98
25) 2-Butanone	6.84	43	2773	0.600	ug/l #	88
29) Tetrahydrofuran	7.23	42	1285	0.372	ug/l #	41
31) Cyclohexane	7.67	56	22044	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	89775	4.362	ug/l #	49
38) Carbon Tetrachloride	7.67	117	117273	6.216	ug/l #	15
43) Isopropyl Acetate	8.17	43	78189	2.525	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	3961	0.248	ug/l #	44
48) Methyl methacrylate	9.18	41	22678	2.034	ug/l #	22
49) 1,4-Dioxane	9.27	88	521	3.694	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	28368	2.549	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	186651	7.832	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	31646	1.394	ug/l #	43
59) 2-Hexanone	10.76	43	431191	57.276	ug/l #	50
71) Bromoform	12.40	173	5029	0.477	ug/l #	1
74) N-amyl acetate	11.88	43	53608	3.289	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	392286	31.060	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	12143	0.254	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	392286	100.109	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	278	0.616	ug/l #	78
95) Naphthalene	15.13	128	1033	1.181	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	251	0.528	ug/l #	12

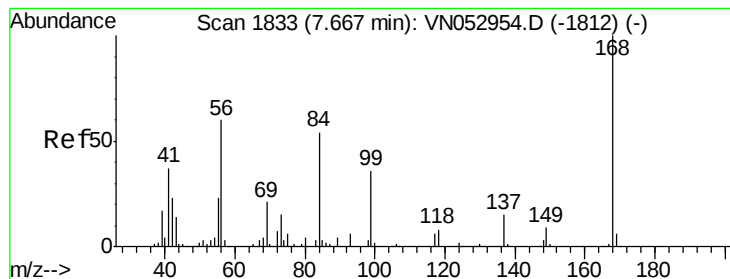
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

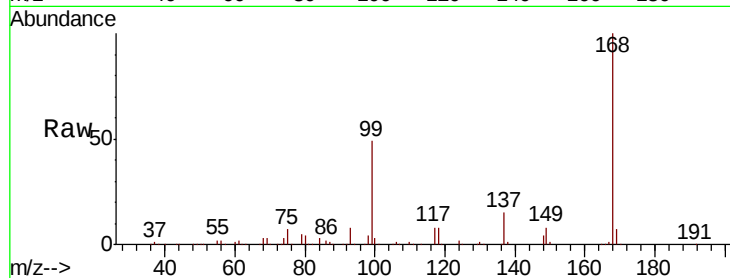
PB115868ZHE#04

Tot Ion:168 Resp: 1383935

Ion Ratio Lower Upper

168 100

99 49.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

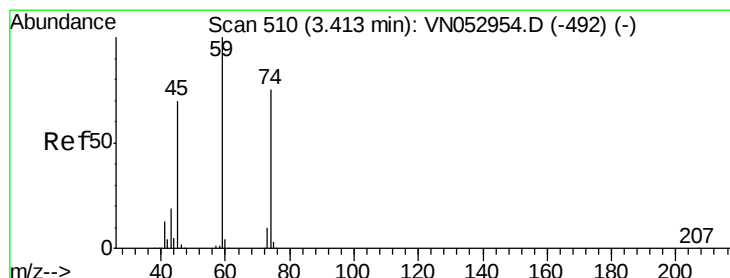
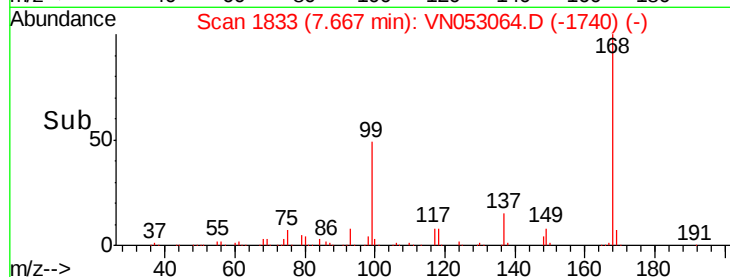
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.308 ug/l

RT: 3.42 min Scan# 513

Delta R.T. 0.01 min

Lab File: VN053064.D

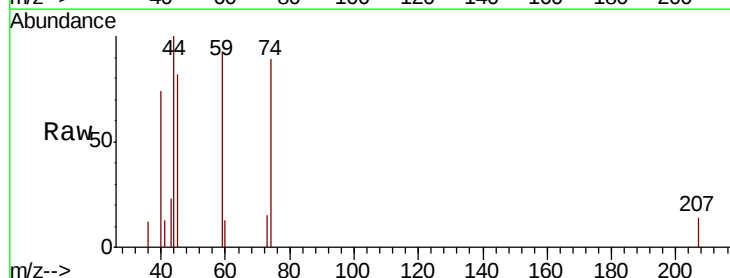
Acq: 20 Dec 2018 18:35

Tgt Ion: 74 Resp: 2485

Ion Ratio Lower Upper

74 100

45 128.7 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.42

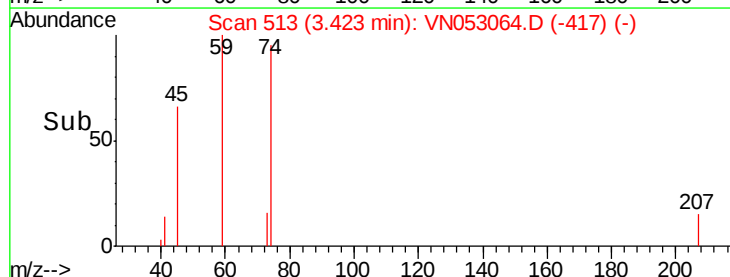
1500

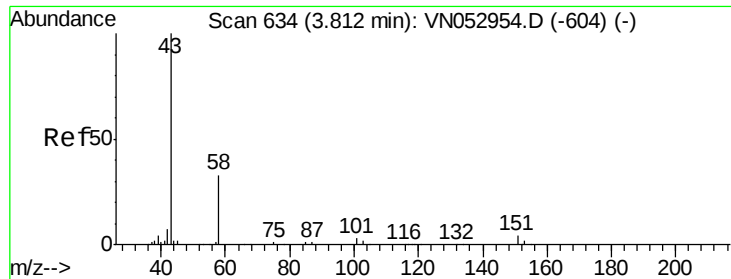
1000

500

0

Time-->





#16

Acetone

Concen: 15.100 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

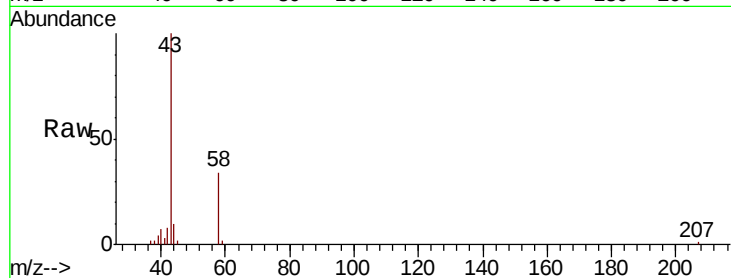
PB115868ZHE#04

Tot Ion: 43 Resp: 41580

Ion Ratio Lower Upper

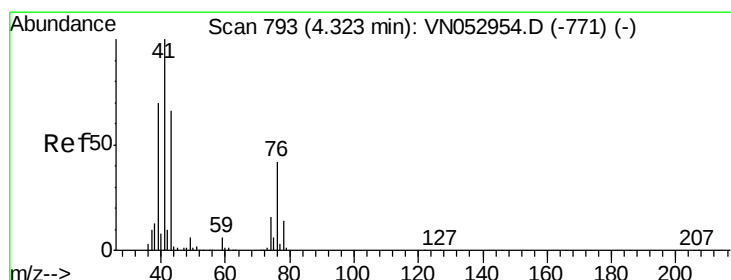
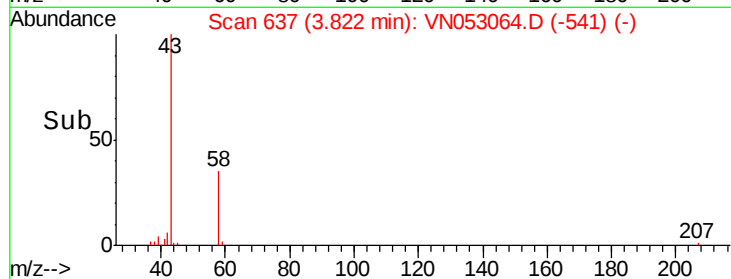
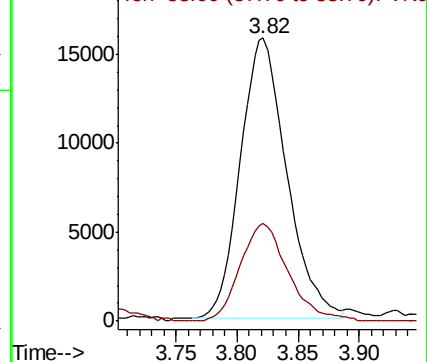
43 100

58 34.8 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: 1.510 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN053064.D

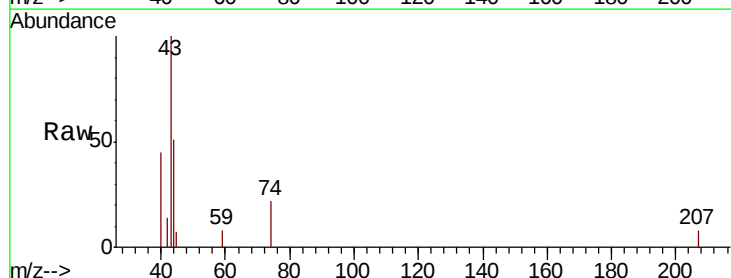
Acq: 20 Dec 2018 18:35

Tgt Ion: 43 Resp: 6612

Ion Ratio Lower Upper

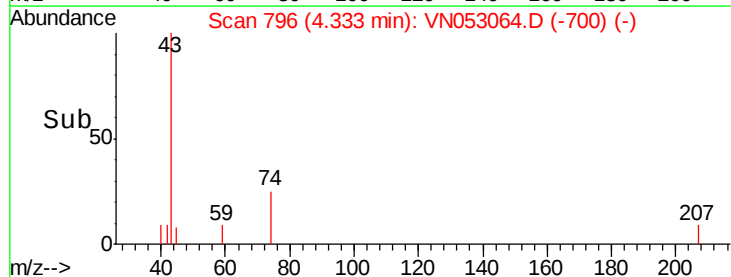
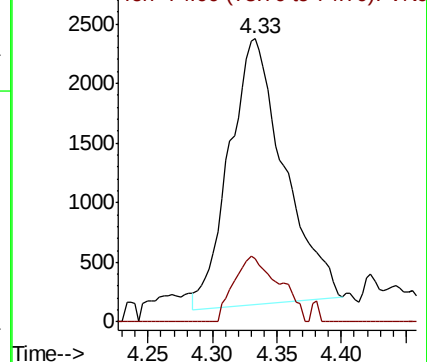
43 100

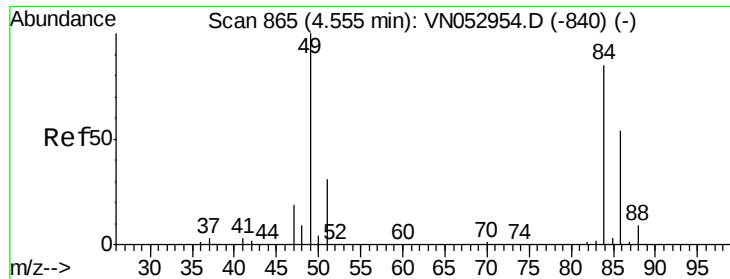
74 20.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

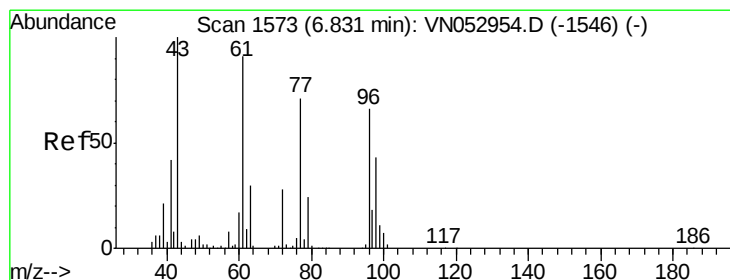
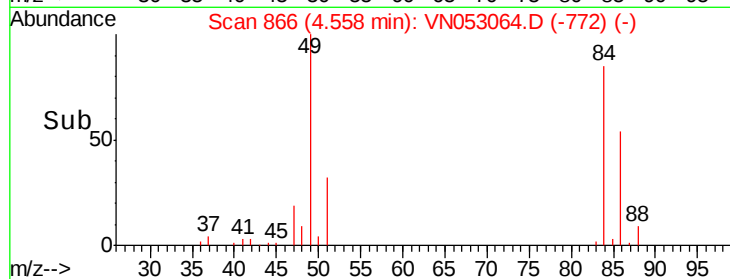
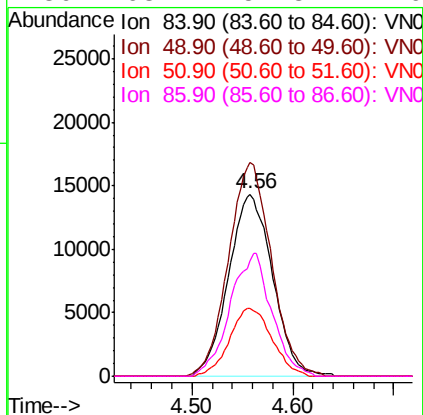
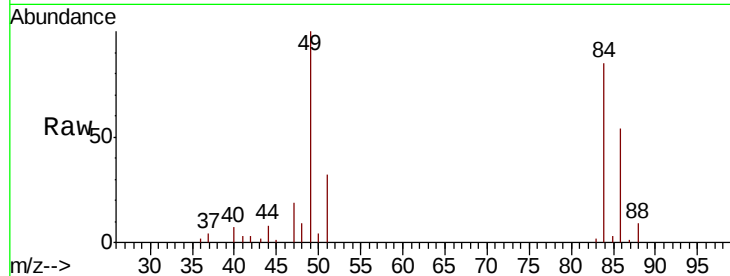




#20
Methvlene Chloride
Concen: 2.894 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

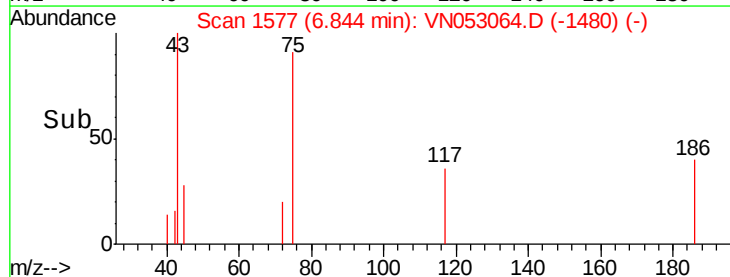
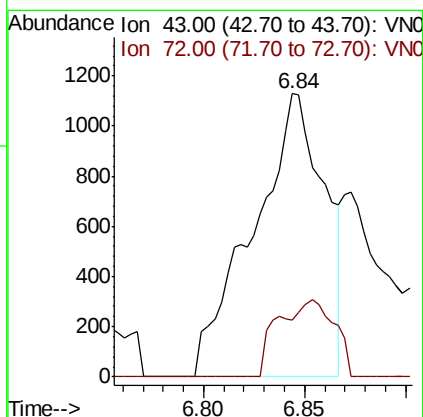
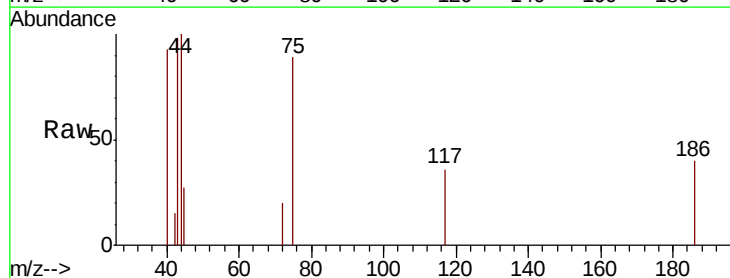
Instrument :
MSVOA_N
ClientSampleId :
PB115868ZHE#04

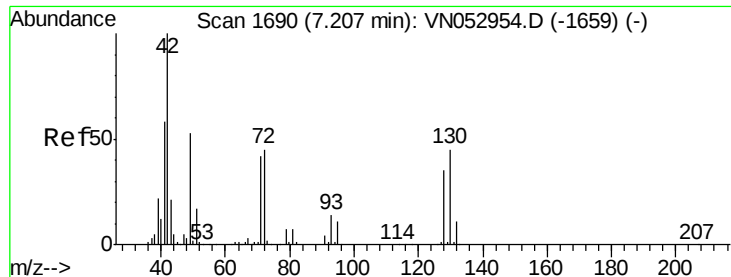
Tot Ion: 84 Resp: 43466
Ion Ratio Lower Upper
84 100
49 117.3 96.8 145.2
51 37.1 29.9 44.9
86 63.4 51.8 77.6



#25
2-Butanone
Concen: 0.600 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

Tgt Ion: 43 Resp: 2773
Ion Ratio Lower Upper
43 100
72 20.1 21.0 31.6#

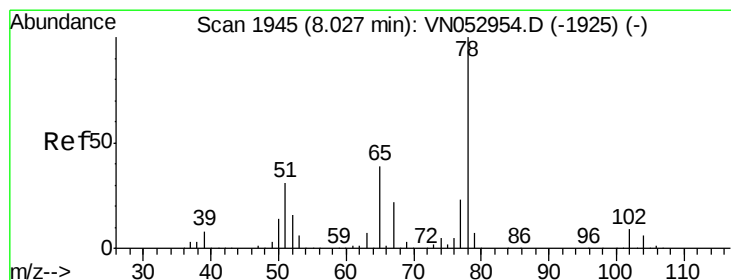
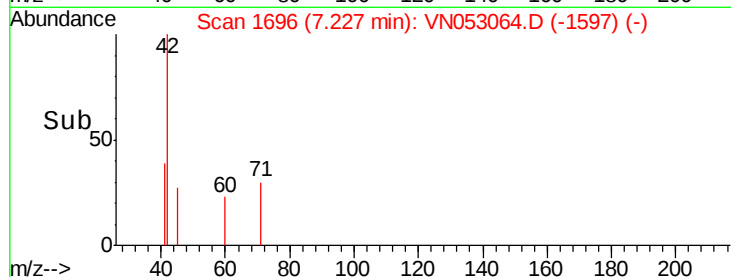
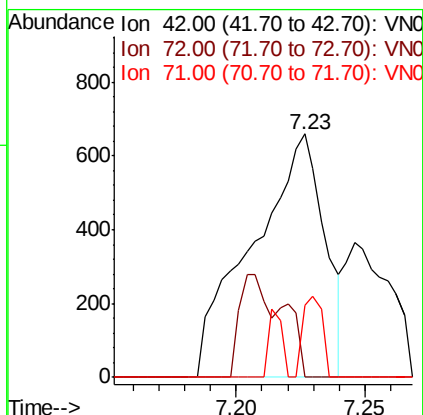
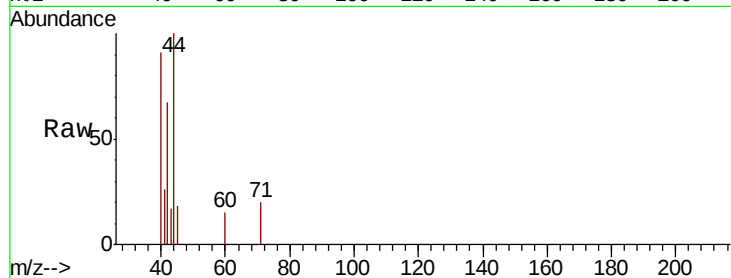




#29
Tetrahydrofuran
Concen: 0.372 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

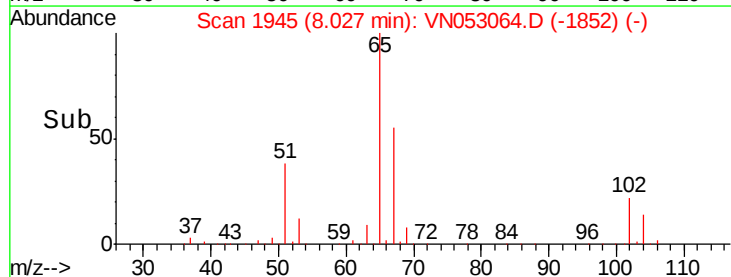
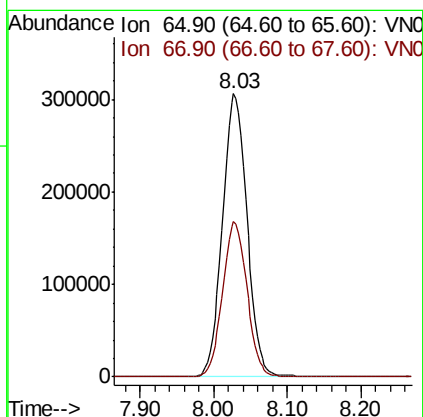
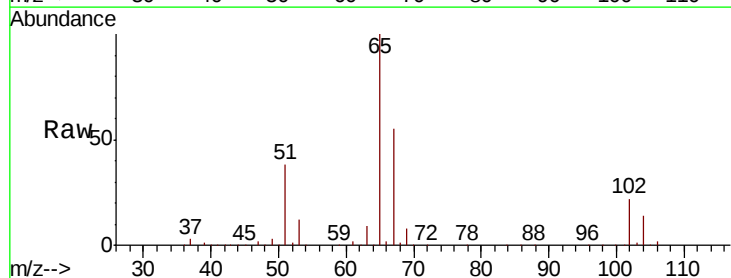
Instrument :
MSVOA_N
ClientSampleId :
PB115868ZHE#04

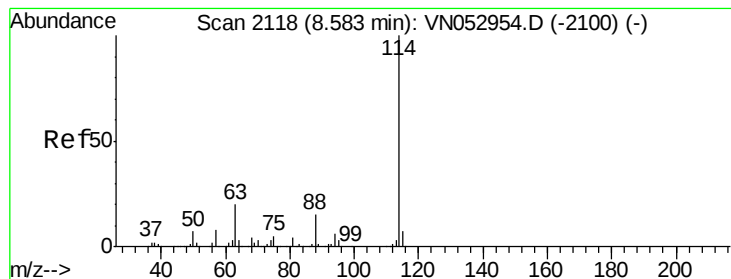
Tot Ion: 42 Resp: 1285
Ion Ratio Lower Upper
42 100
72 0.0 34.7 52.1#
71 8.9 32.3 48.5#



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

Tgt Ion: 65 Resp: 710049
Ion Ratio Lower Upper
65 100
67 54.4 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: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#04

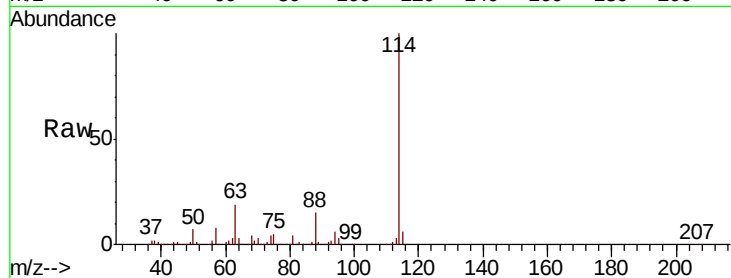
Tot Ion:114 Resp: 2144328

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.8

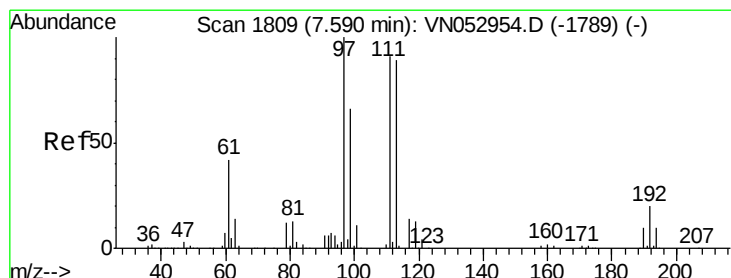
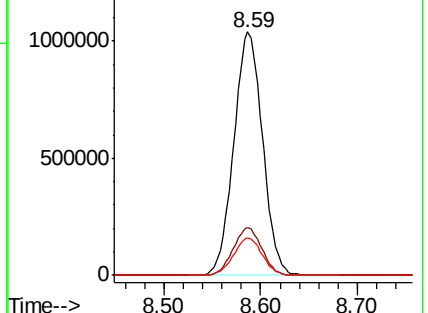
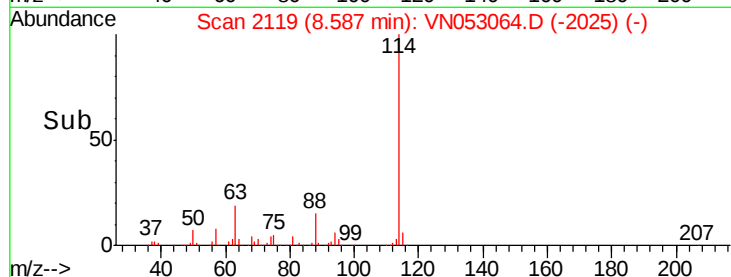
88 15.5 0.0 31.0



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: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

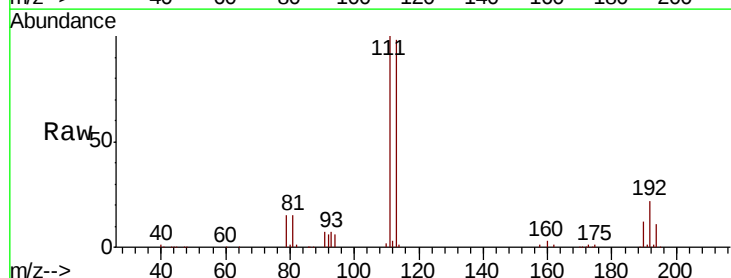
Tgt Ion:113 Resp: 545929

Ion Ratio Lower Upper

113 100

111 103.7 83.0 124.4

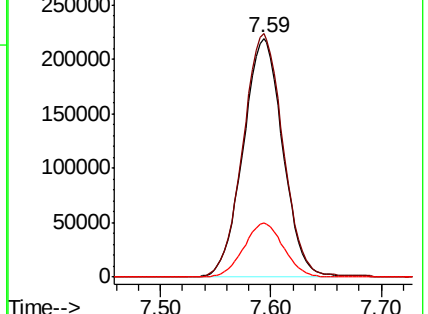
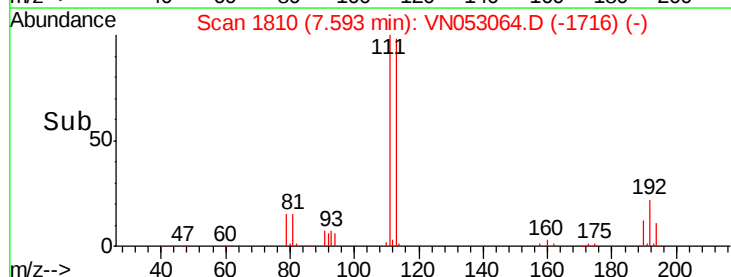
192 22.8 17.5 26.3

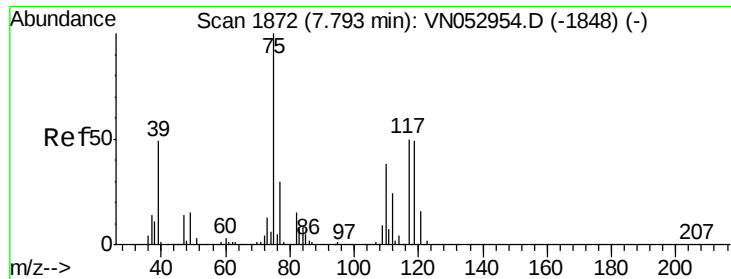


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

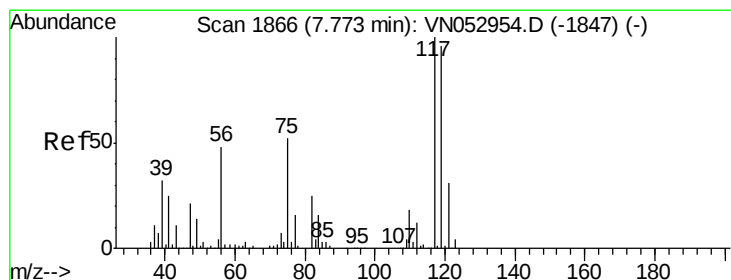
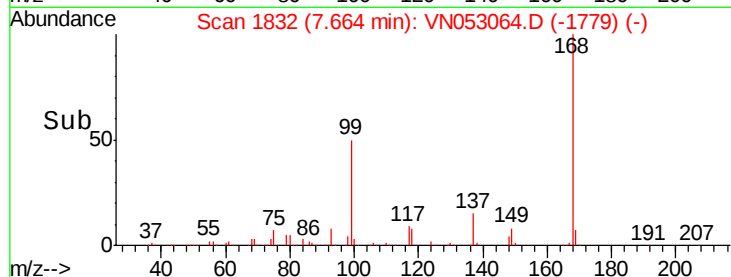
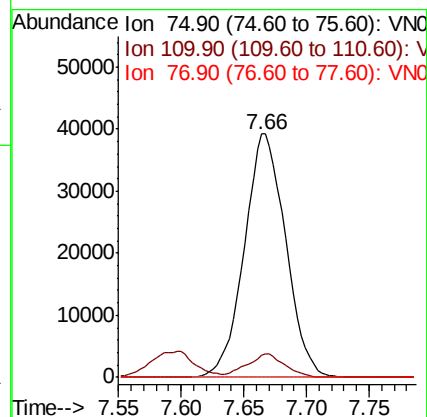
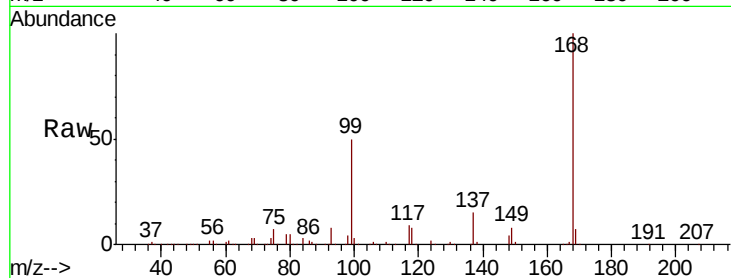




#36
 1,1-Dichloropropene
 Concen: 4.362 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053064.D
 Acq: 20 Dec 2018 18:35

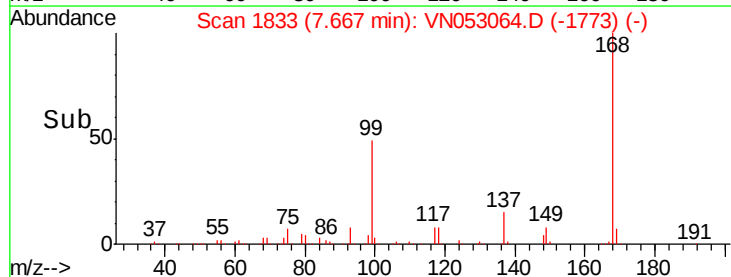
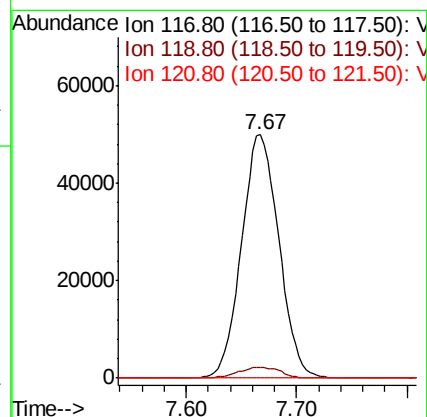
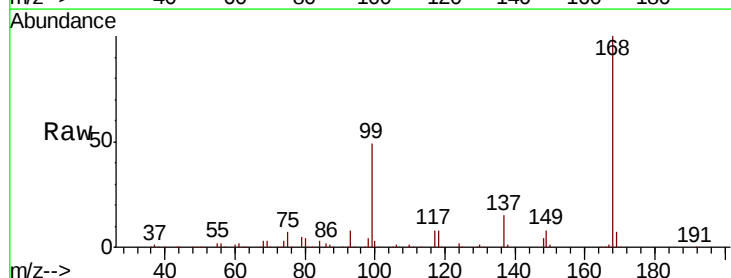
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115868ZHE#04

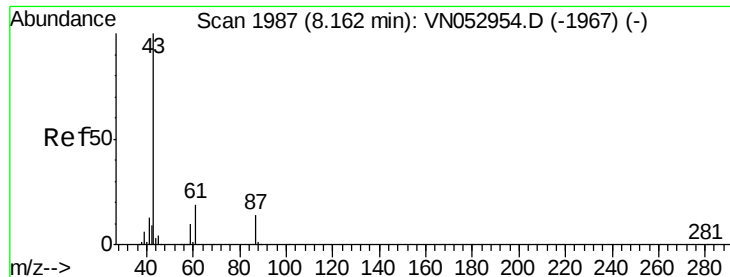
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.2	54.6#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.216 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053064.D
 Acq: 20 Dec 2018 18:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	77.1	115.7#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 2.525 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#04

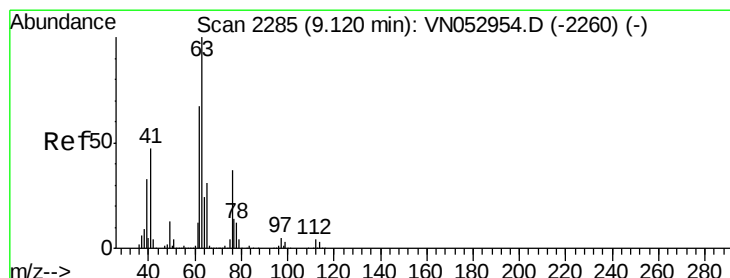
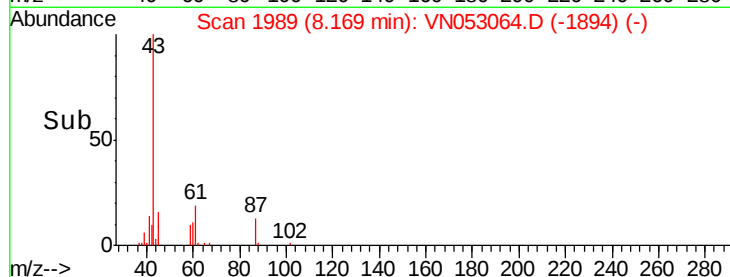
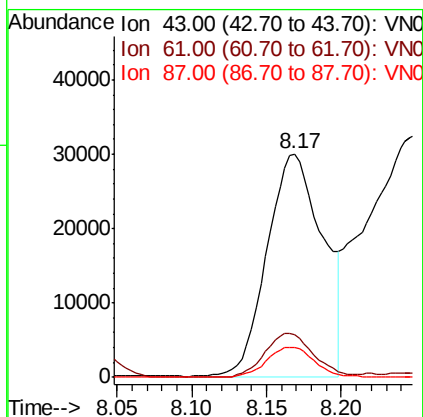
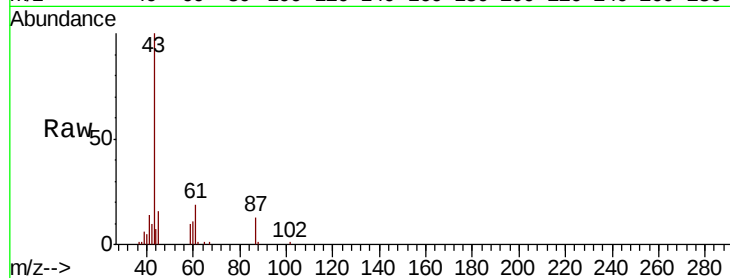
Tot Ion: 43 Resp: 78189

Ion Ratio Lower Upper

43 100

61 17.0 22.9 34.3#

87 11.3 10.6 15.8



#45

1,2-Dichloropropane

Concen: 0.248 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053064.D

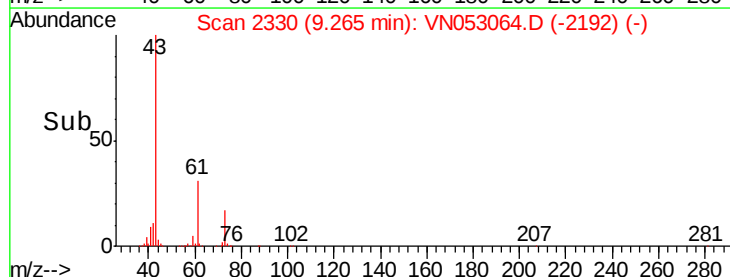
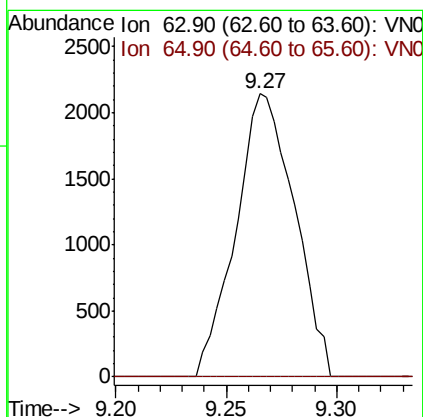
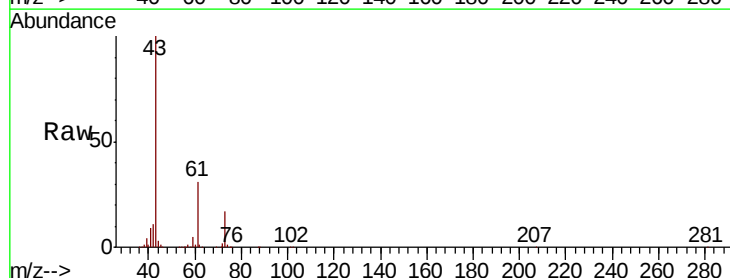
Acq: 20 Dec 2018 18:35

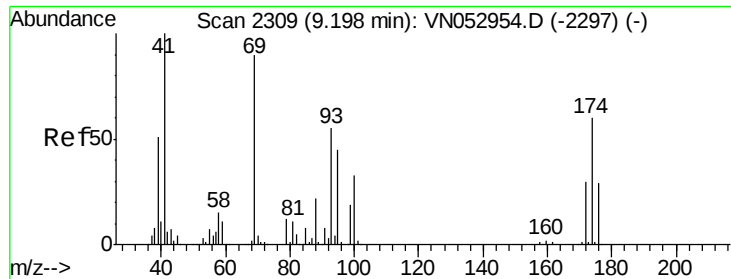
Tgt Ion: 63 Resp: 3961

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#

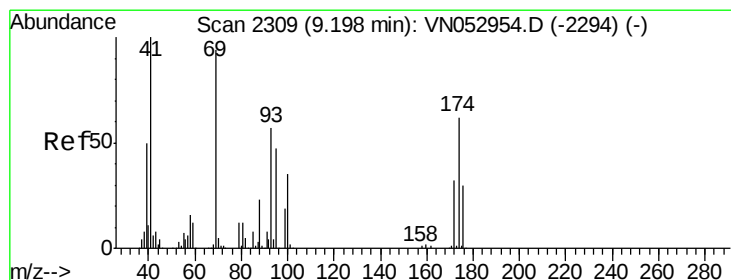
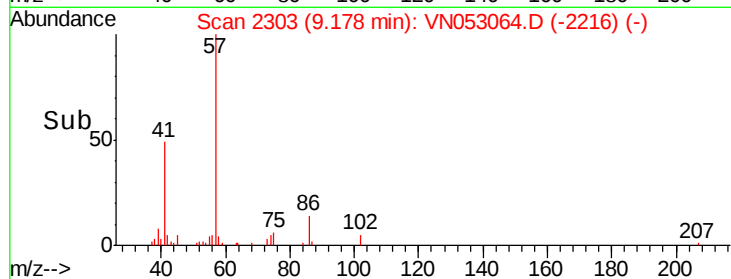
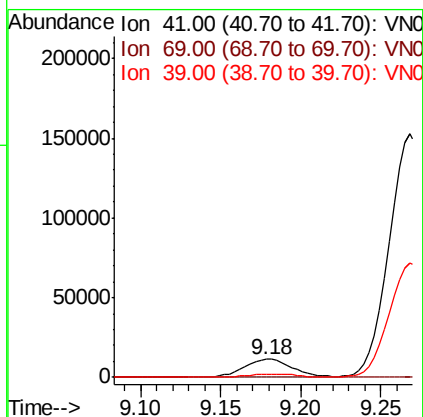
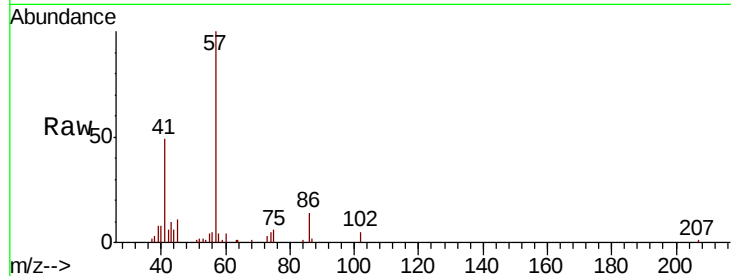




#48
Methvl methacrylate
Concen: 2.034 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

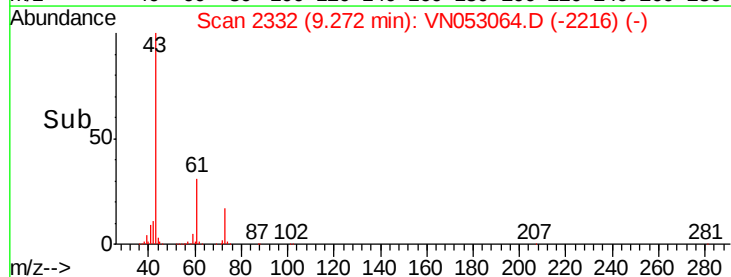
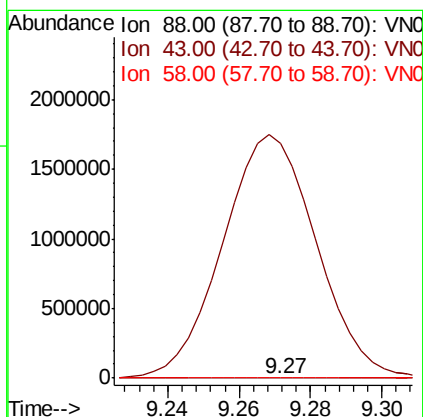
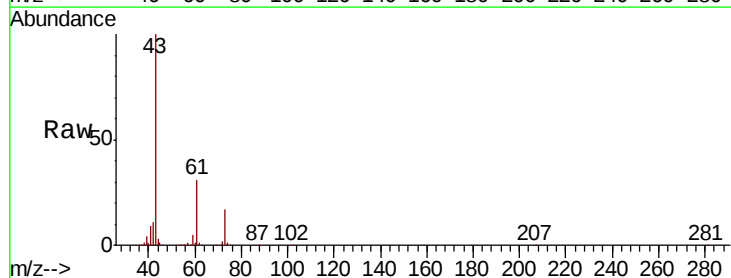
Instrument :
MSVOA_N
ClientSampleId :
PB115868ZHE#04

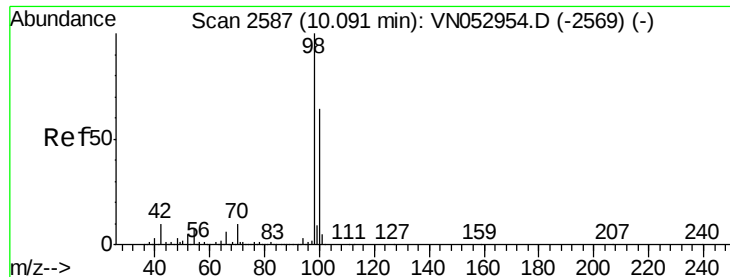
Tot Ion: 41 Resp: 22678
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 18.9 41.9 62.9#



#49
1,4-Dioxane
Concen: 3.694 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

Tgt Ion: 88 Resp: 521
Ion Ratio Lower Upper
88 100
43 613175.2 26.6 40.0#
58 2493.9 58.4 87.6#





#50

Toluene-d8

Concen: 3.694 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

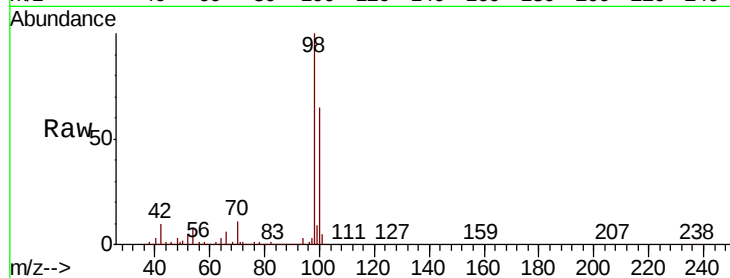
PB115868ZHE#04

Tot Ion: 98 Resp: 2587994

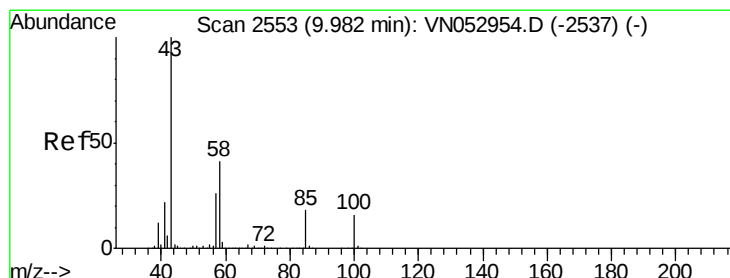
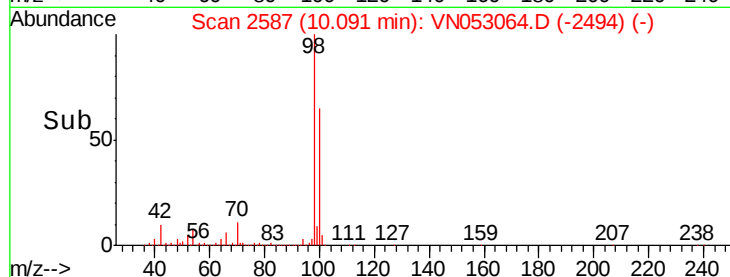
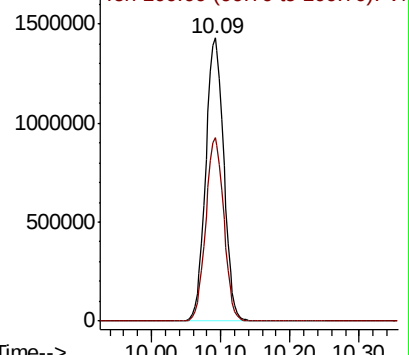
Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052954.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.549 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053064.D

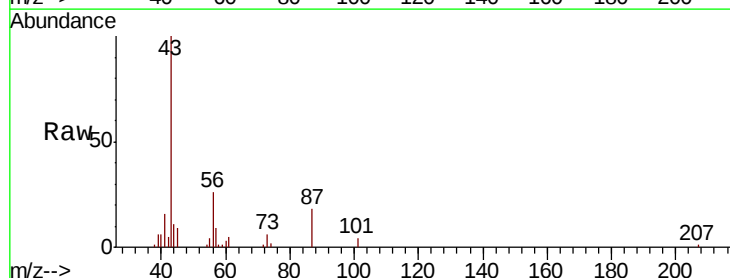
Acq: 20 Dec 2018 18:35

Tgt Ion: 43 Resp: 28368

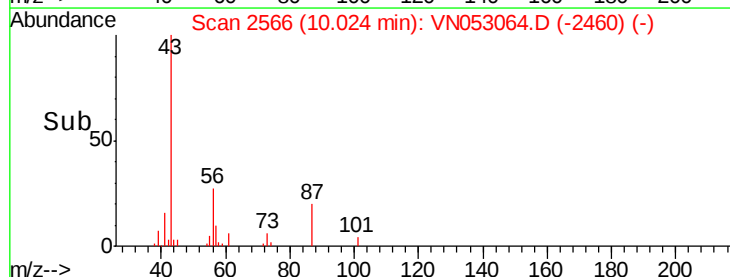
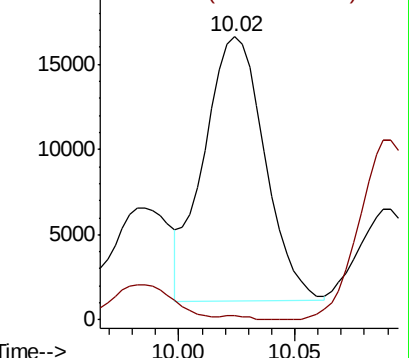
Ion Ratio Lower Upper

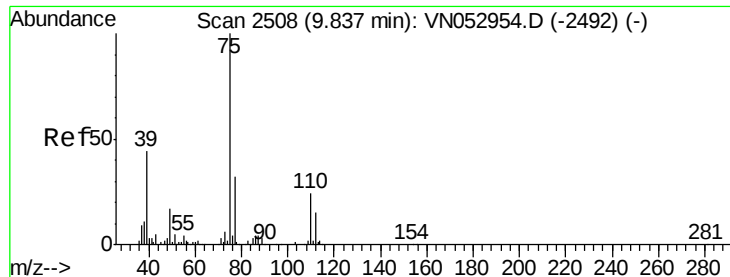
43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-2537) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.832 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#04

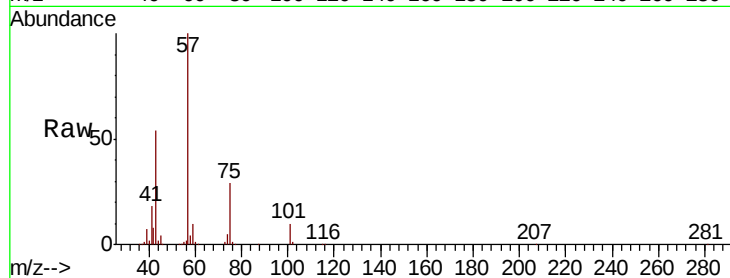
Tot Ion: 75 Resp: 186651

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

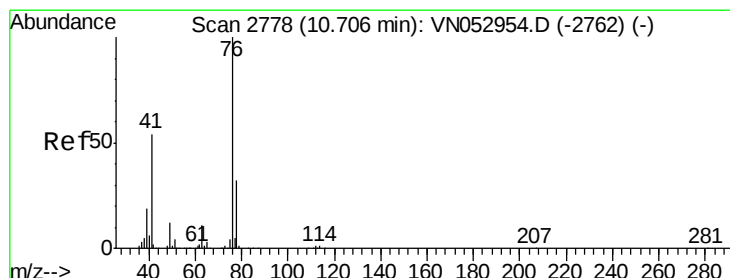
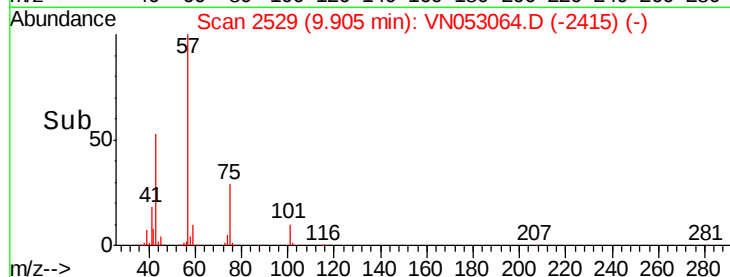
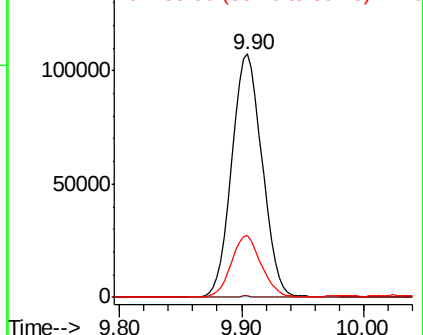
39 25.2 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 76.90 (76.60 to 77.60): VNC

Ion 39.00 (38.70 to 39.70): VNC



#57

1,3-Dichloropropane

Concen: 1.394 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053064.D

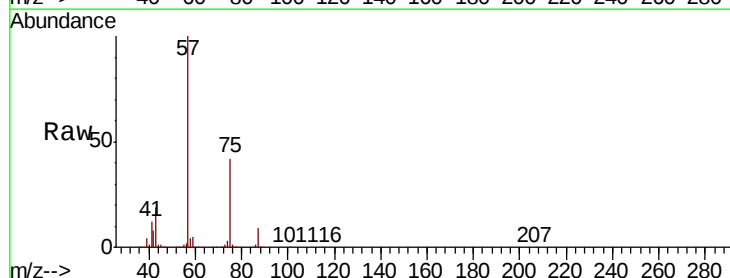
Acq: 20 Dec 2018 18:35

Tgt Ion: 76 Resp: 31646

Ion Ratio Lower Upper

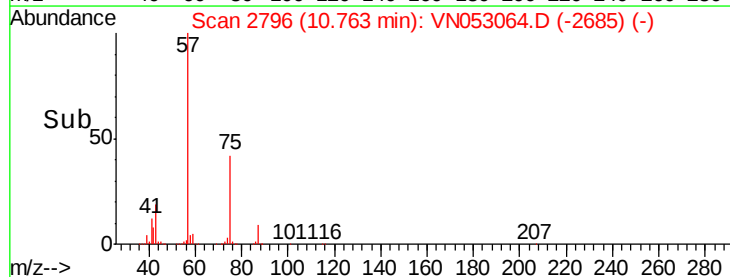
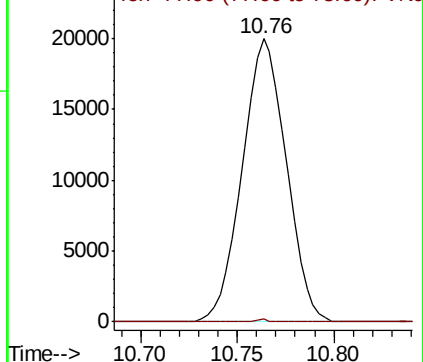
76 100

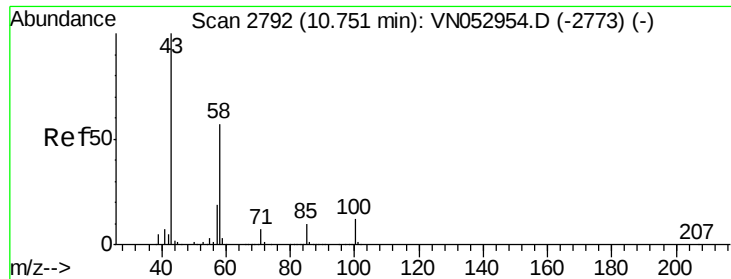
78 0.2 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

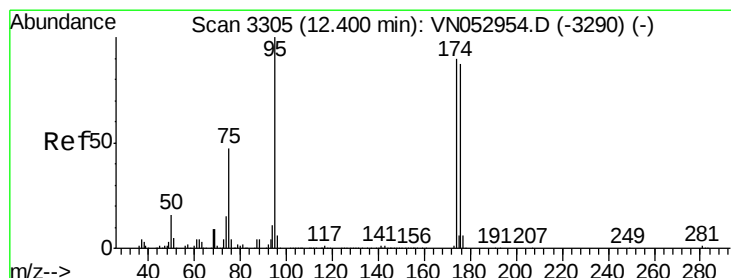
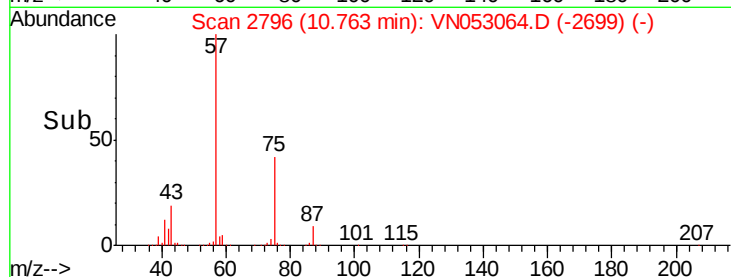
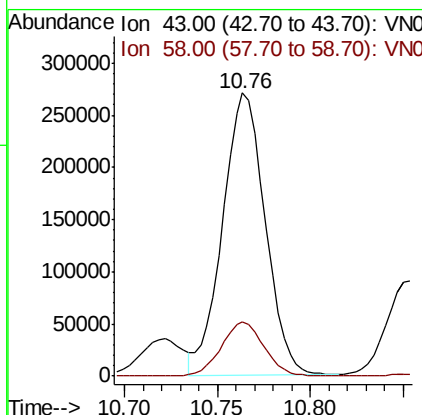
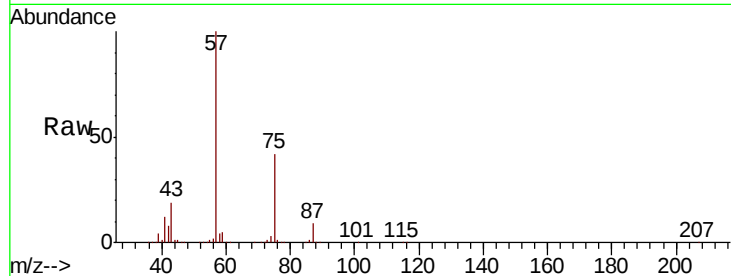




#59
2-Hexanone
Concen: 57.276 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

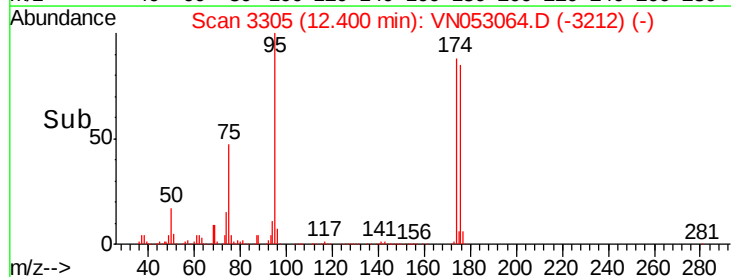
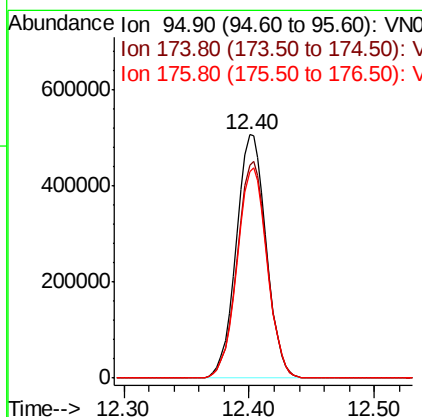
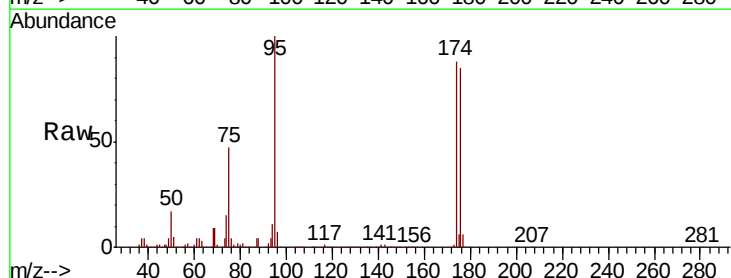
Instrument :
MSVOA_N
ClientSampleId :
PB115868ZHE#04

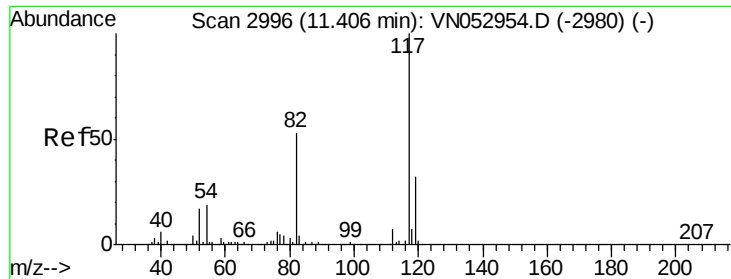
Tot Ion: 43 Resp: 431191
Ion Ratio Lower Upper
43 100
58 19.3 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

Tgt Ion: 95 Resp: 839795
Ion Ratio Lower Upper
95 100
174 89.2 0.0 178.8
176 86.5 0.0 173.8

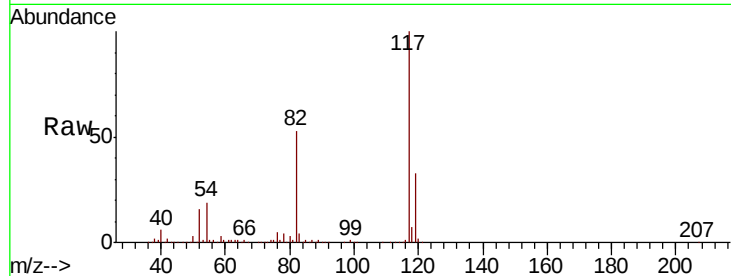




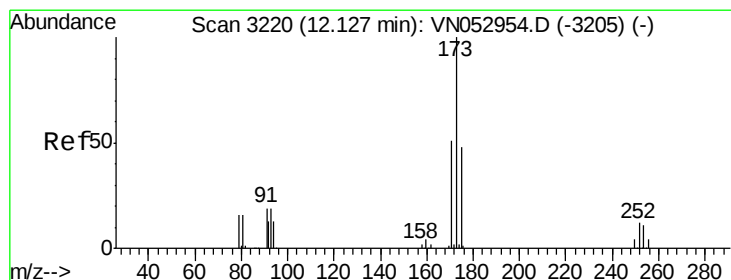
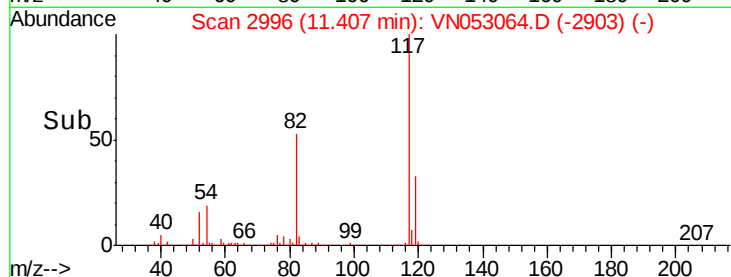
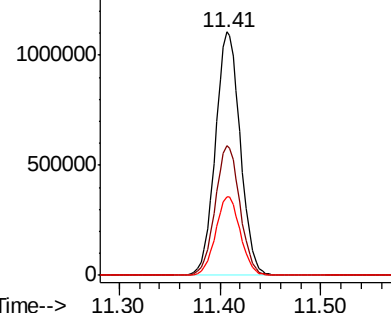
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

Instrument :
MSVOA_N
ClientSampleId :
PB115868ZHE#04

Tot Ion:117 Resp: 1894954
Ion Ratio Lower Upper
117 100
82 53.4 42.8 64.2
119 32.5 25.5 38.3

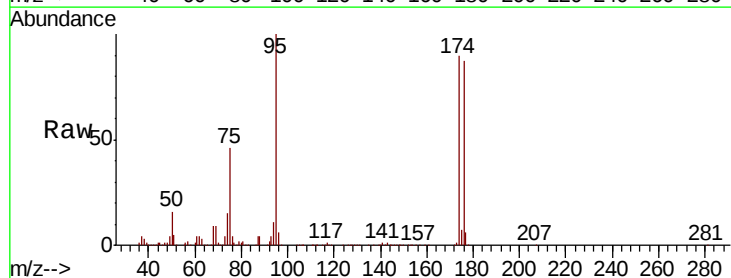


Abundance Ion 116.90 (116.60 to 117.60): V
1500000 Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

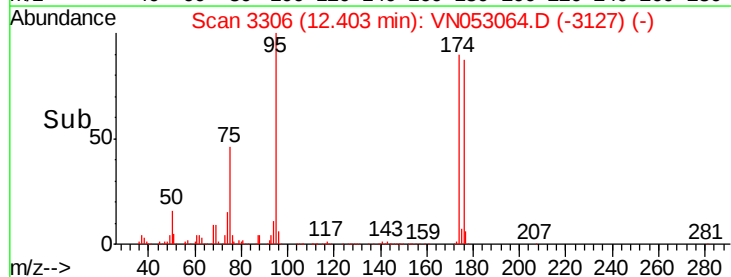
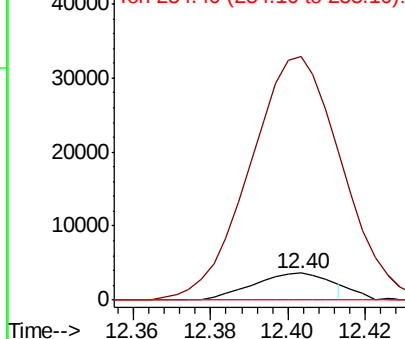


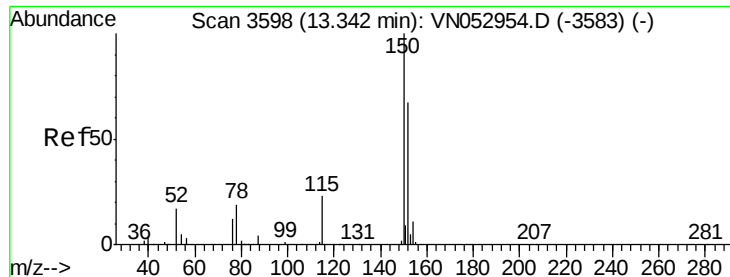
#71
Bromoform
Concen: 0.477 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053064.D
Acq: 20 Dec 2018 18:35

Tgt Ion:173 Resp: 5029
Ion Ratio Lower Upper
173 100
175 942.8 24.3 72.9#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
40000 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: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#04

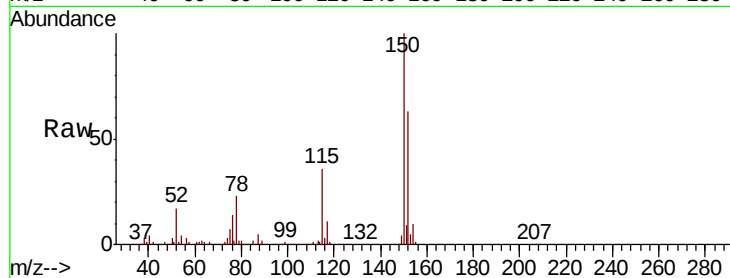
Tot Ion:152 Resp: 750274

Ion Ratio Lower Upper

152 100

115 56.9 28.3 85.0

150 157.5 0.0 347.8

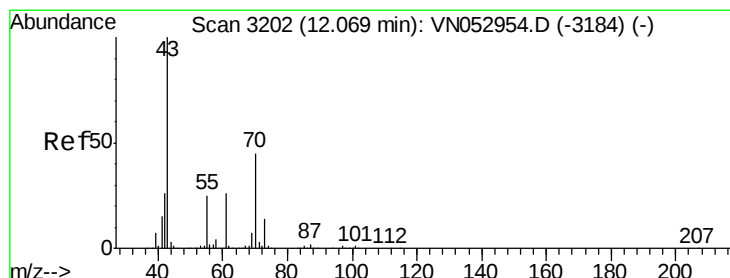
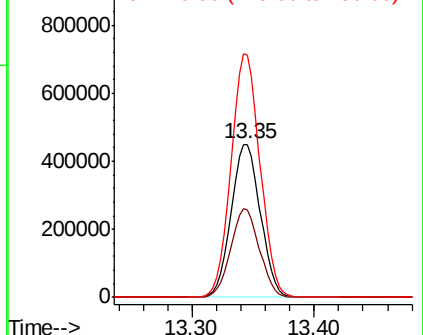
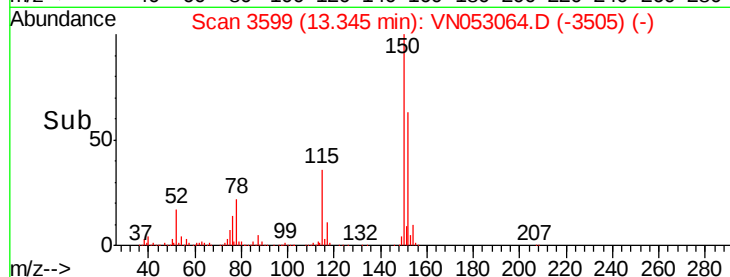


Abundance

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-ethyl acetate

Concen: 3.289 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

Tgt Ion: 43 Resp: 53608

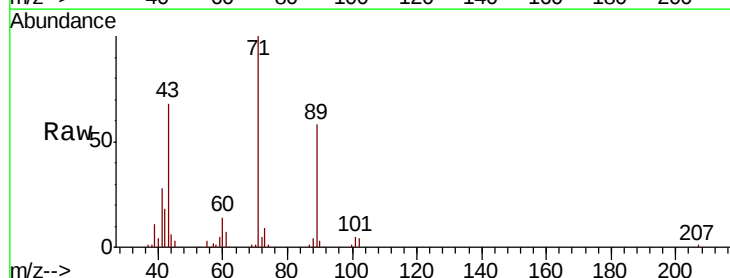
Ion Ratio Lower Upper

43 100

70 1.5 34.2 51.4#

55 4.5 20.3 30.5#

61 11.4 20.0 30.0#



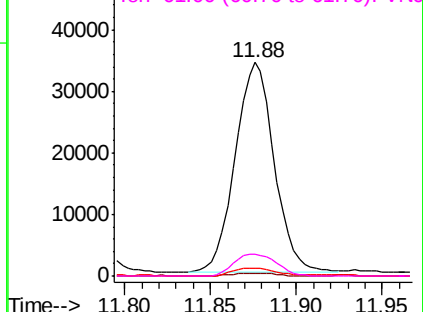
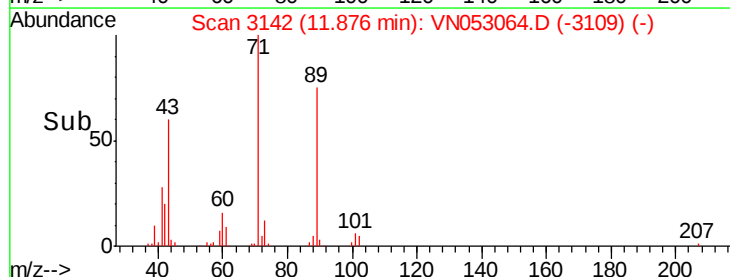
Abundance

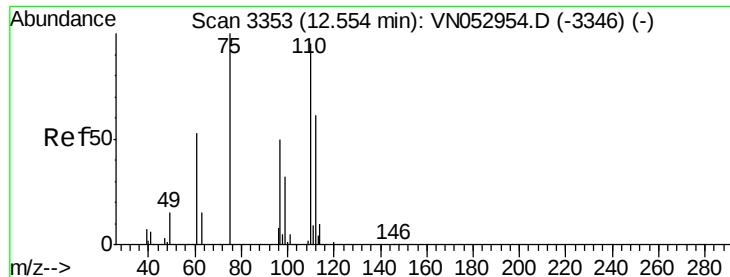
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.060 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

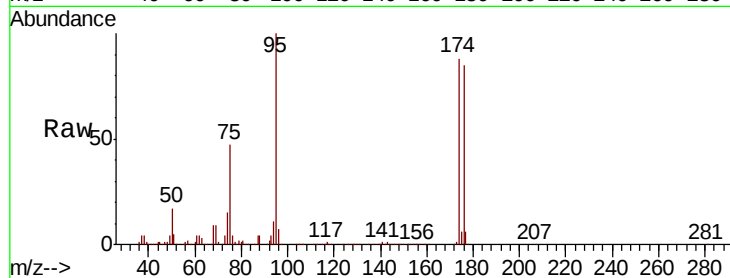
PB115868ZHE#04

Tot Ion: 75 Resp: 392286

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN052954.D (-3346) (-)

12.40

250000

200000

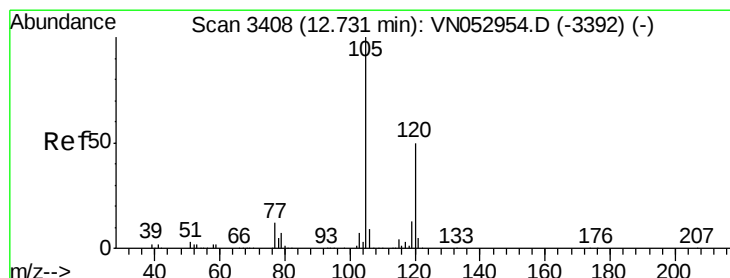
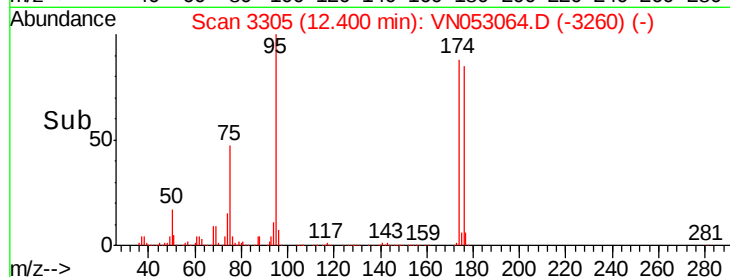
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.254 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053064.D

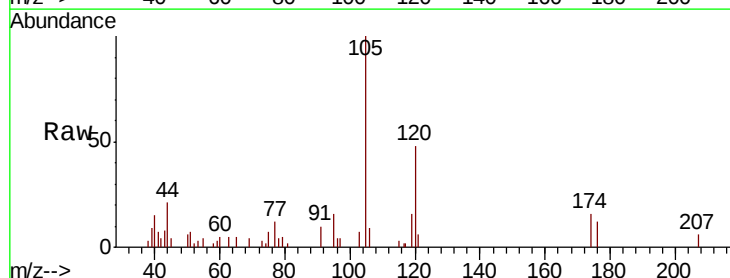
Acq: 20 Dec 2018 18:35

Tgt Ion: 105 Resp: 12143

Ion Ratio Lower Upper

105 100

120 45.7 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3392) (-)

12.73

8000

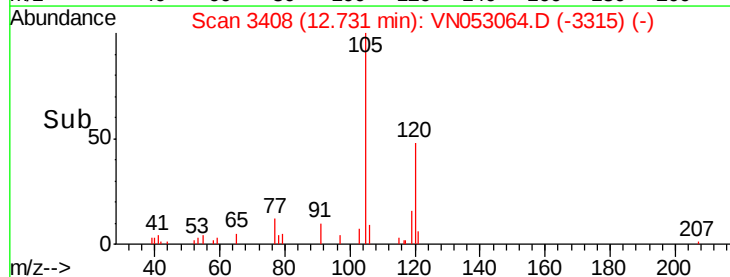
6000

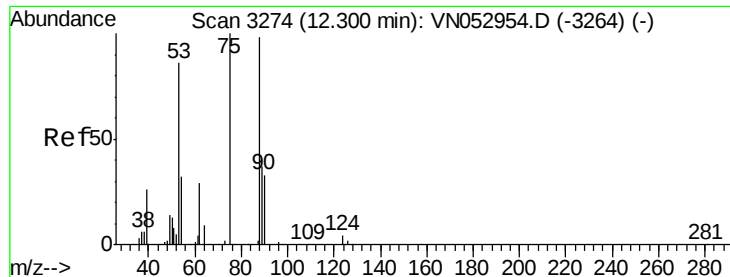
4000

2000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 100.109 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#04

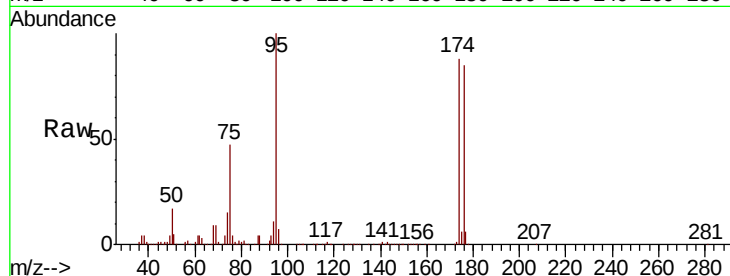
Tot Ion: 75 Resp: 392286

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

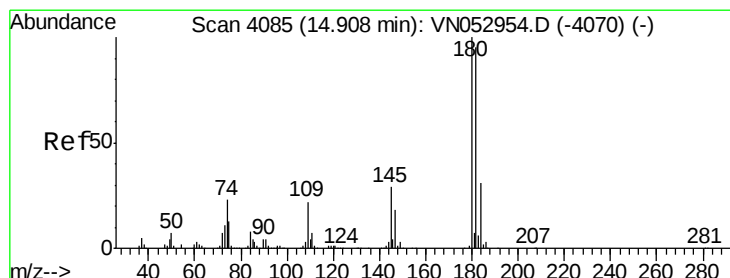
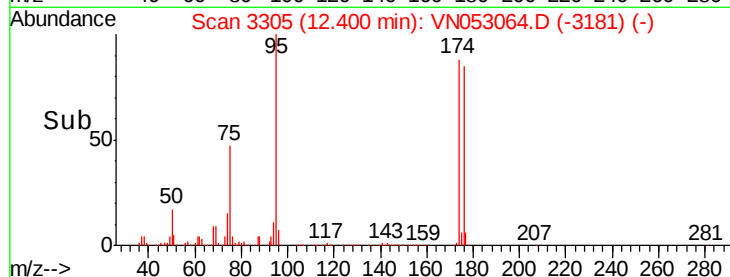
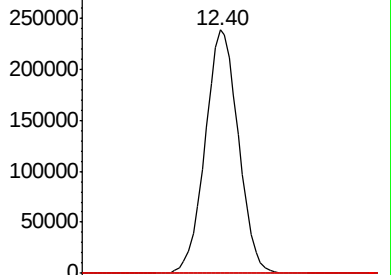
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052954.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052954.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.616 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

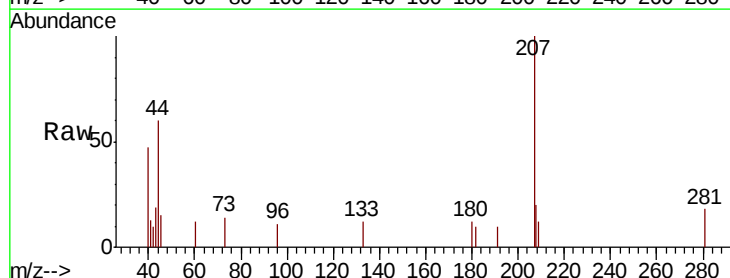
Tgt Ion: 180 Resp: 278

Ion Ratio Lower Upper

180 100

182 82.7 47.8 143.3

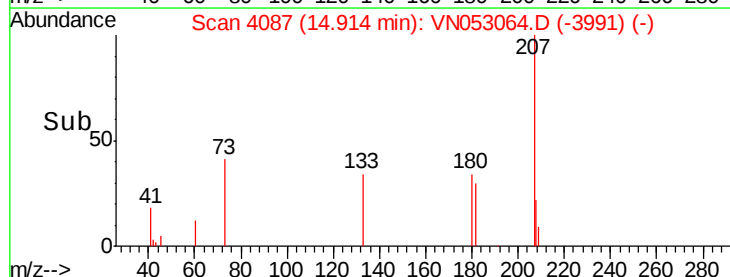
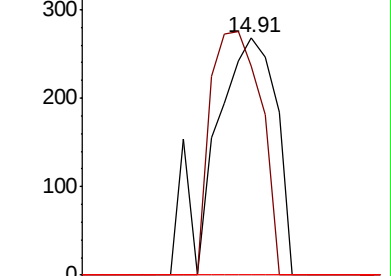
145 0.0 14.2 42.6#

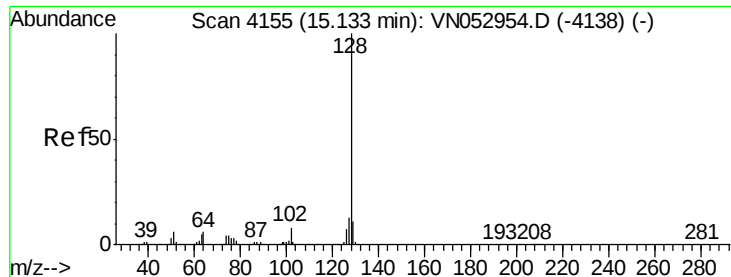


Abundance Ion 179.80 (179.50 to 180.50): VN052954.D (-4070) (-)

Ion 181.80 (181.50 to 182.50): VN052954.D (-4070) (-)

Ion 144.80 (144.50 to 145.50): VN052954.D (-4070) (-)





#95

Naphthalene

Concen: 1.181 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

Instrument :

MSVOA_N

ClientSampleId :

PB115868ZHE#04

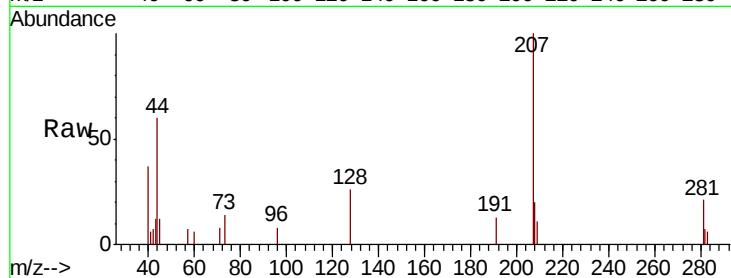
Tot Ion:128 Resp: 1033

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

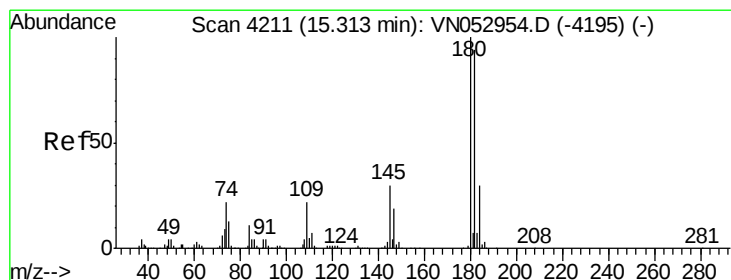
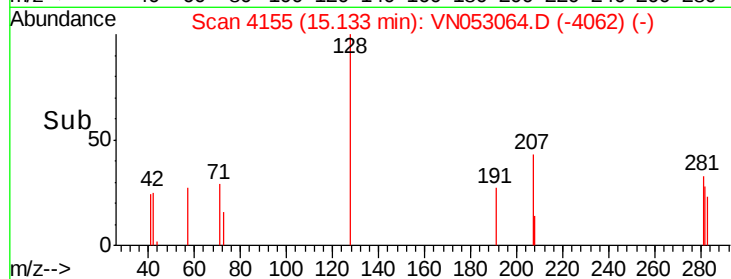
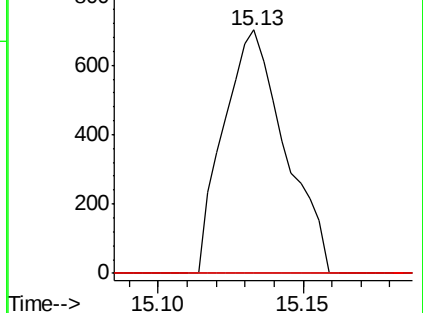
129 0.0 8.6 13.0#



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: 0.528 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053064.D

Acq: 20 Dec 2018 18:35

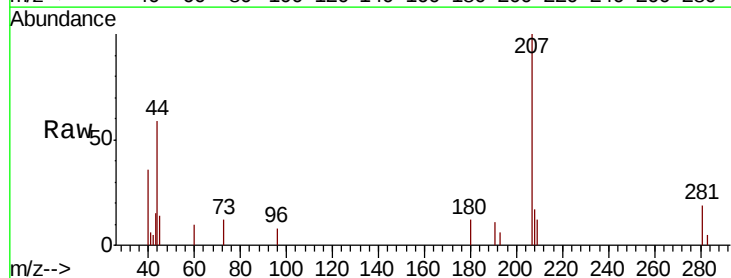
Tgt Ion:180 Resp: 251

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.7#

145 0.0 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

