

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082118\
 Data File : VN050798.D
 Acq On : 21 Aug 2018 22:36
 Operator : MD\SY
 Sample : PB112227ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#04

Quant Time: Aug 22 06:44:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	639432	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1037745	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	881041	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	270106	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	414729	53.88	ug/l	0.00
Spiked Amount			Recovery	=	107.76%	
35) Dibromofluoromethane	7.59	113	390556	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
50) Toluene-d8	10.09	98	1416430	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
62) 4-Bromofluorobenzene	12.40	95	366703	35.75	ug/l	0.00
Spiked Amount			Recovery	=	71.50%	

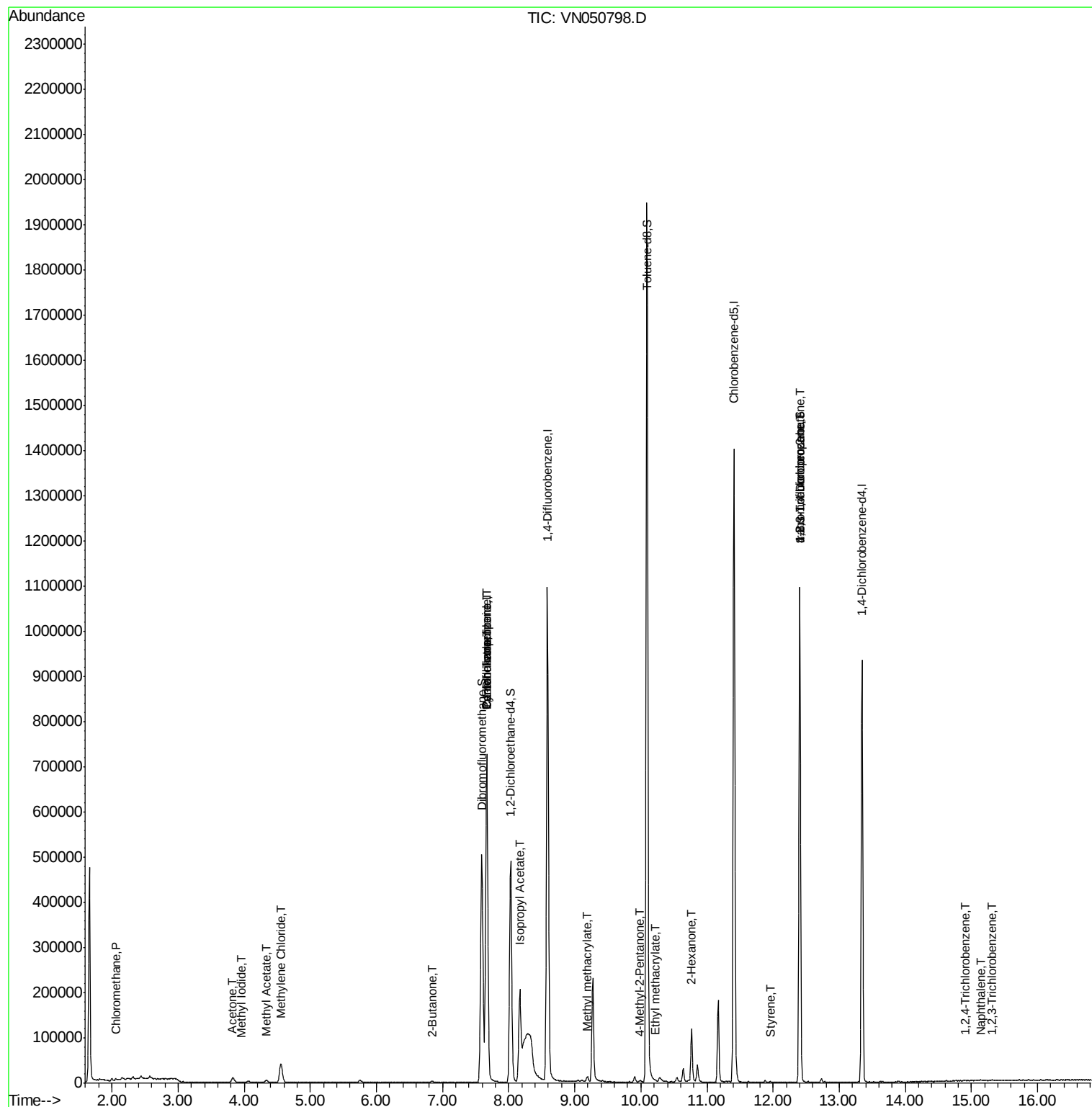
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2840	0.269	ug/l	97
5) Bromomethane	2.57	94	3239	Below Cal		94
10) Methyl Iodide	3.96	142	1669	6.548	ug/l #	63
16) Acetone	3.82	43	19970	4.004	ug/l	93
18) Methyl Acetate	4.34	43	9329	1.283	ug/l	99
20) Methylene Chloride	4.55	84	34078	3.928	ug/l	97
25) 2-Butanone	6.85	43	2619	0.844	ug/l	93
31) Cyclohexane	7.67	56	11427	1.331	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43659	3.565	ug/l #	44
38) Carbon Tetrachloride	7.67	117	55497	4.483	ug/l #	18
43) Isopropyl Acetate	8.17	43	270810	22.390	ug/l	94
48) Methyl methacrylate	9.19	41	7933	1.287	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	2310	0.320	ug/l #	71
56) Ethyl methacrylate	10.23	69	2140	2.543	ug/l #	85
59) 2-Hexanone	10.77	43	16075	3.346	ug/l #	59
70) Styrene	11.95	104	260	1.281	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.41	83	113	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	171615	36.275	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	171615	122.631	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	832	4.230	ug/l #	82
94) Hexachlorobutadiene	15.01	225	244	Below Cal	#	19
95) Naphthalene	15.14	128	1793	5.548	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.32	180	632	3.418	ug/l #	59

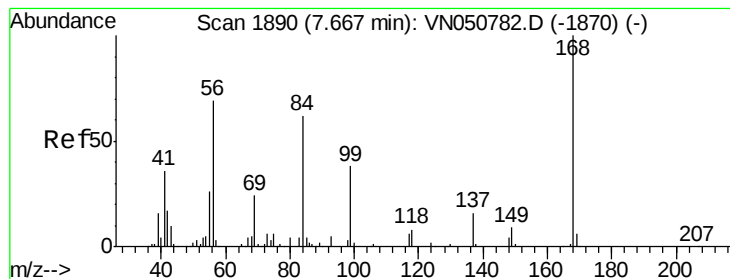
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

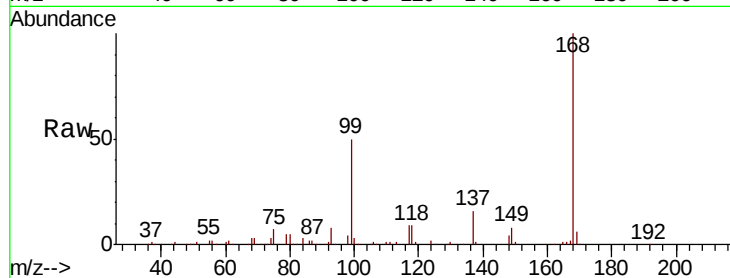
PB112227ZHE#04

Tot Ion:168 Resp: 639432

Ion Ratio Lower Upper

168 100

99 49.7 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

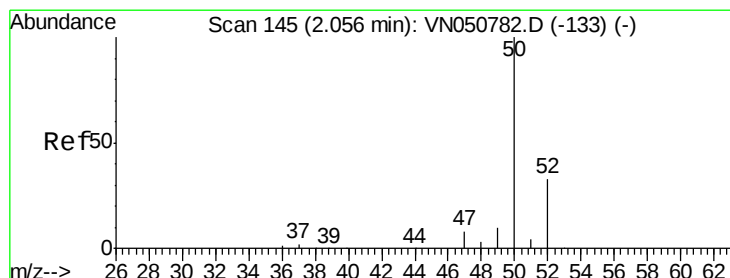
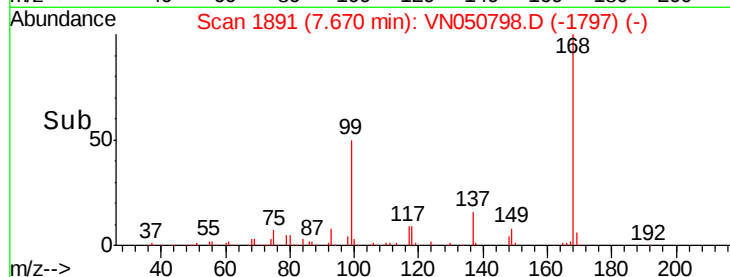
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.269 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050798.D

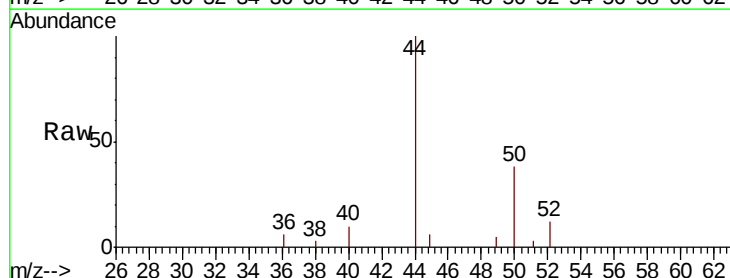
Acq: 21 Aug 2018 22:36

Tgt Ion: 50 Resp: 2840

Ion Ratio Lower Upper

50 100

52 31.5 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

2000

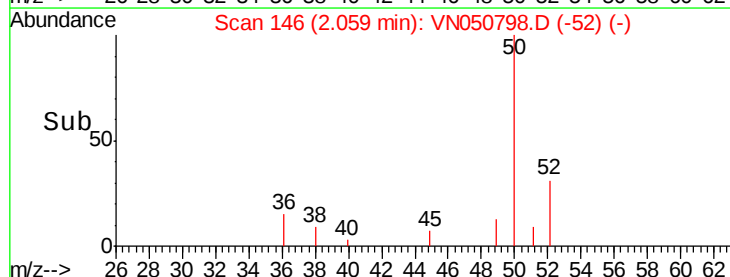
1500

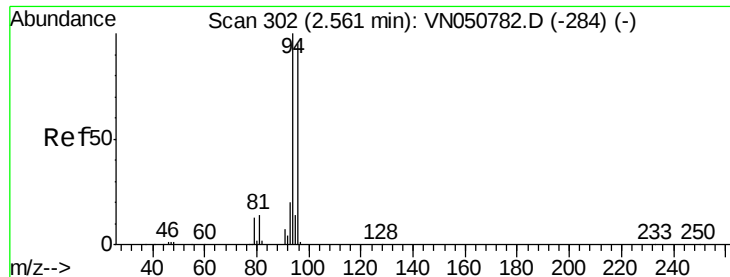
1000

500

0

Time--> 2.05 2.10





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

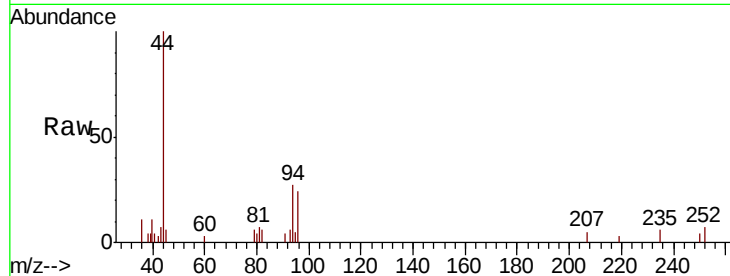
PB112227ZHE#04

Tot Ion: 94 Resp: 3239

Ion Ratio Lower Upper

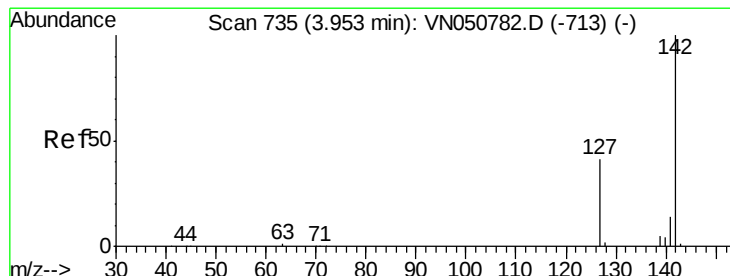
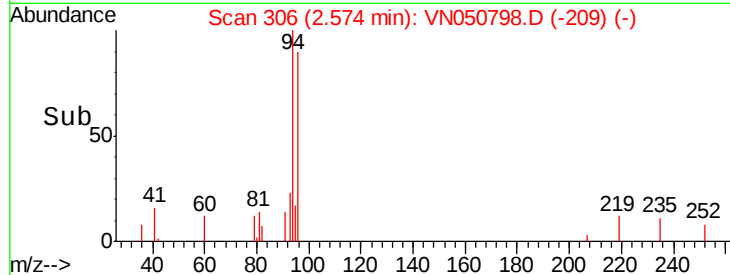
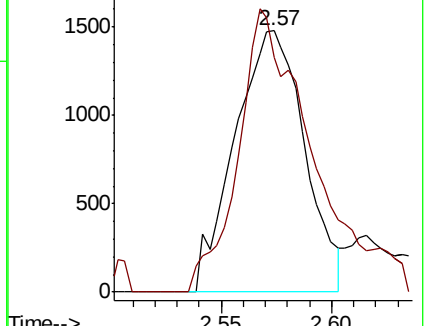
94 100

96 89.6 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050798.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050798.D (-284) (-)



#10

Methyl Iodide

Concen: 6.548 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

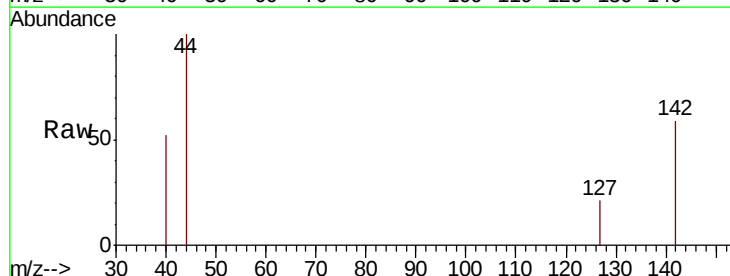
Tgt Ion: 142 Resp: 1669

Ion Ratio Lower Upper

142 100

127 16.1 31.7 47.5#

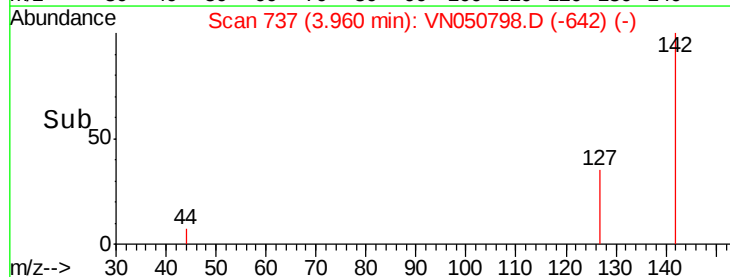
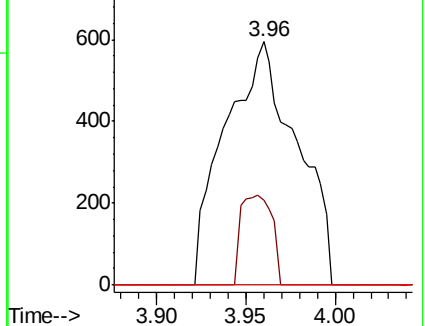
141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050798.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050798.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050798.D (-713) (-)





#16

Acetone

Concen: 4.004 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

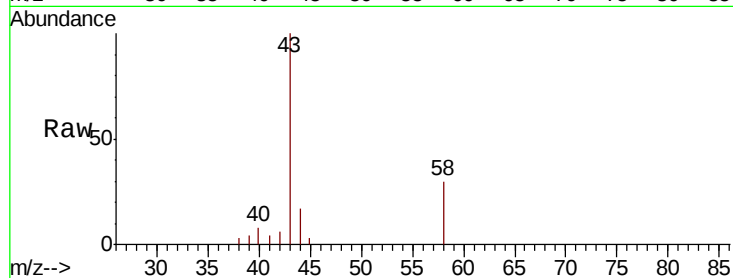
PB112227ZHE#04

Tot Ion: 43 Resp: 19970

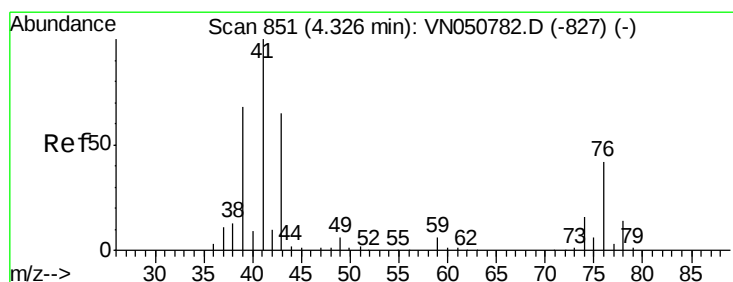
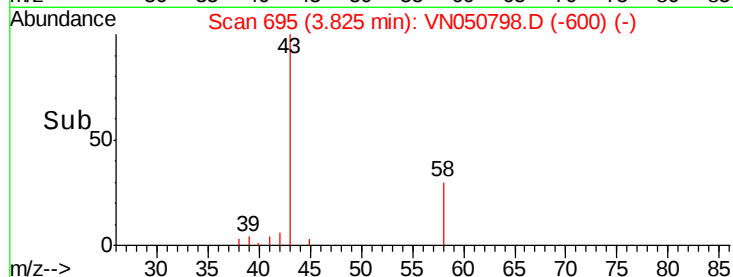
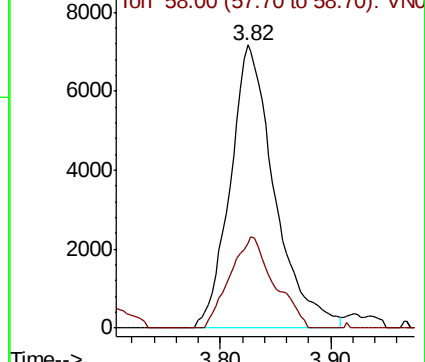
Ion Ratio Lower Upper

43 100

58 29.8 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN050798.D (-600) (-)



#18

Methyl Acetate

Concen: 1.283 ug/l

RT: 4.34 min Scan# 856

Delta R.T. 0.02 min

Lab File: VN050798.D

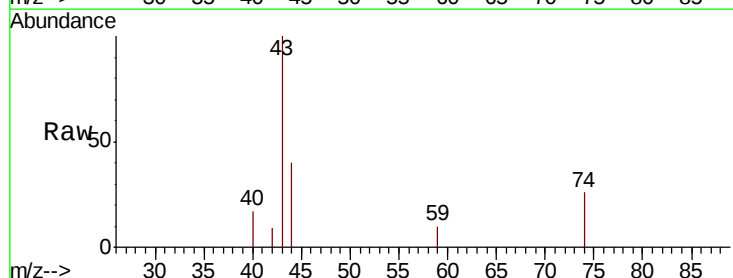
Acq: 21 Aug 2018 22:36

Tgt Ion: 43 Resp: 9329

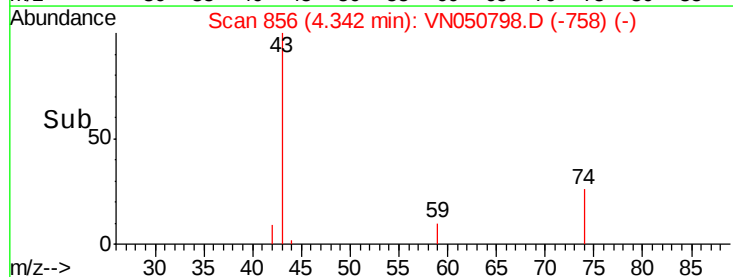
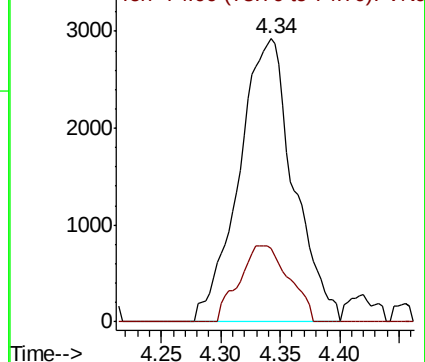
Ion Ratio Lower Upper

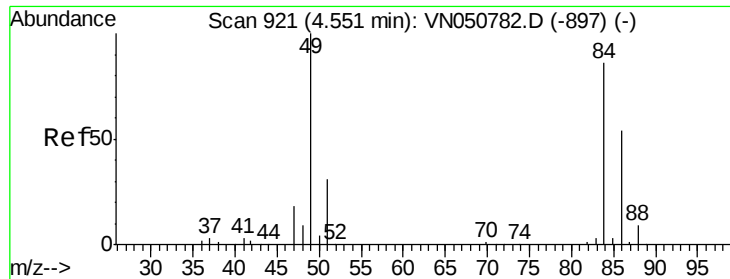
43 100

74 24.4 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN050798.D (-758) (-)

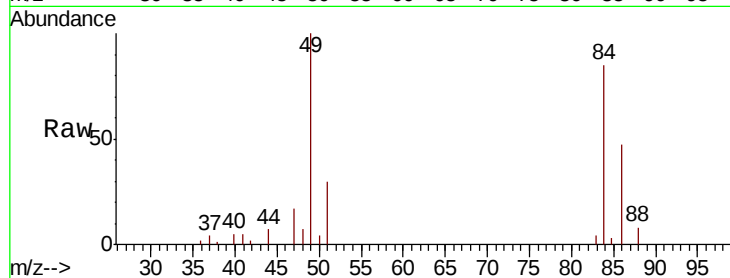




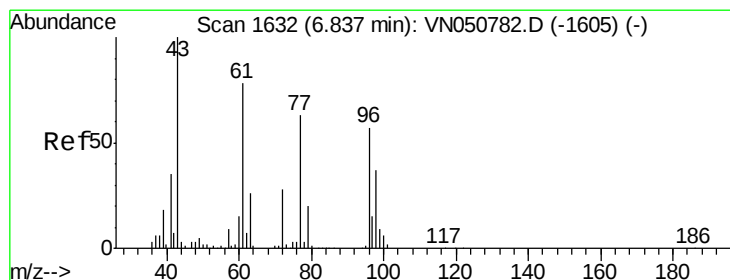
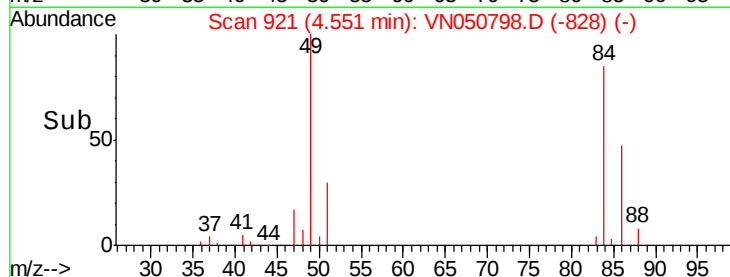
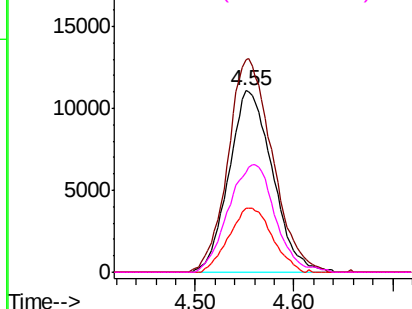
#20
Methvlene Chloride
Concen: 3.928 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050798.D
Acq: 21 Aug 2018 22:36

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#04

Tot Ion:	84	Resp:	34078
Ion	Ratio	Lower	Upper
84	100		
49	117.2	93.2	139.8
51	35.1	29.0	43.6
86	54.8	49.8	74.8

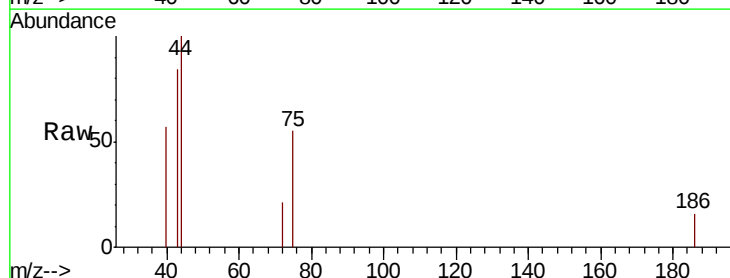


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

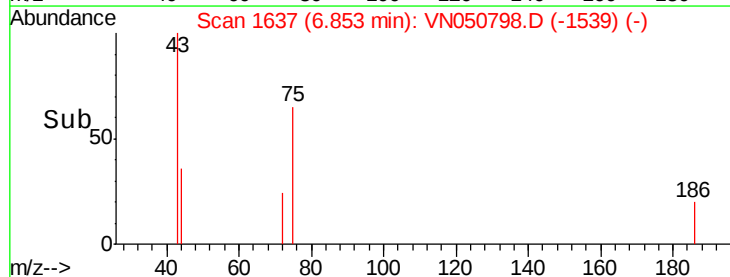
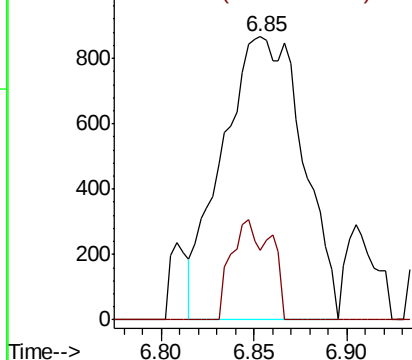


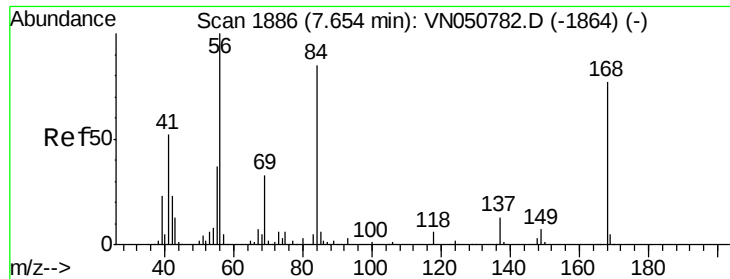
#25
2-Butanone
Concen: 0.844 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.02 min
Lab File: VN050798.D
Acq: 21 Aug 2018 22:36

Tgt Ion:	43	Resp:	2619
Ion	Ratio	Lower	Upper
43	100		
72	24.5	22.3	33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO

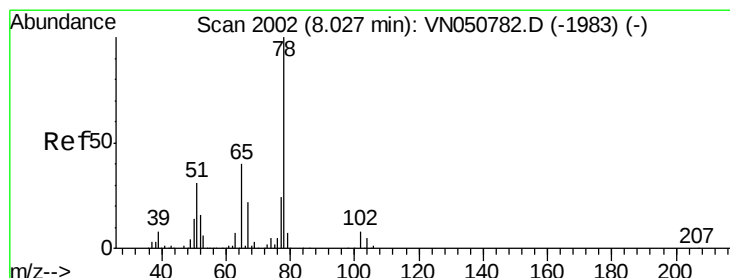
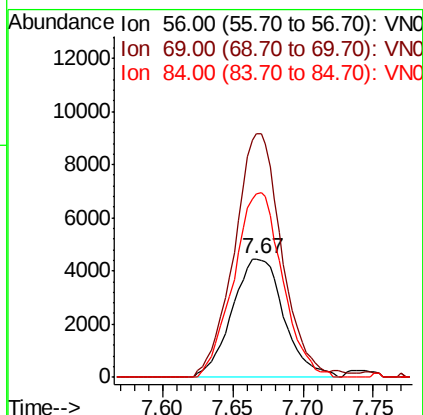
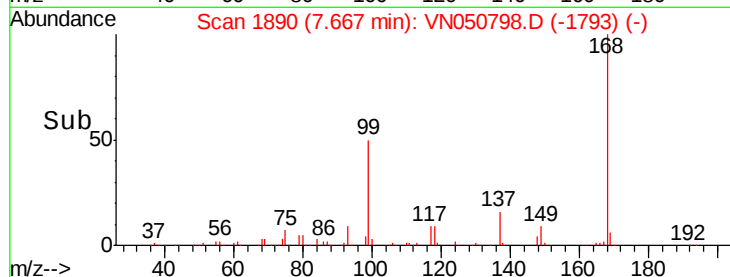
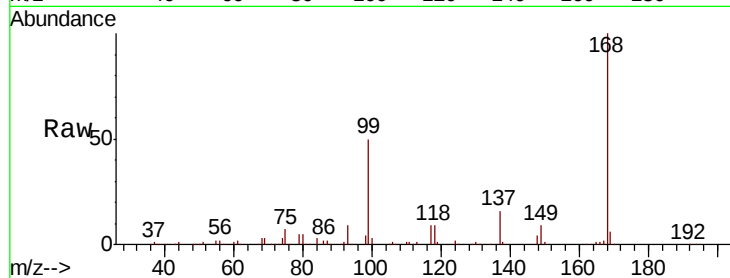




#31
Cyclohexane
Concen: 1.331 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050798.D
Acq: 21 Aug 2018 22:36

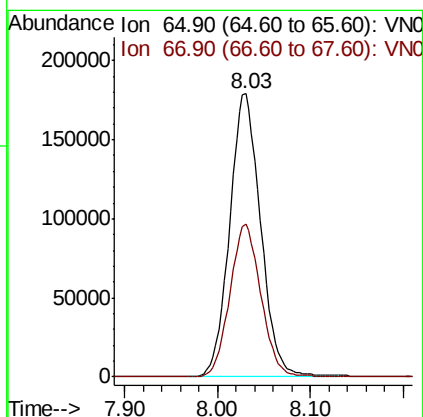
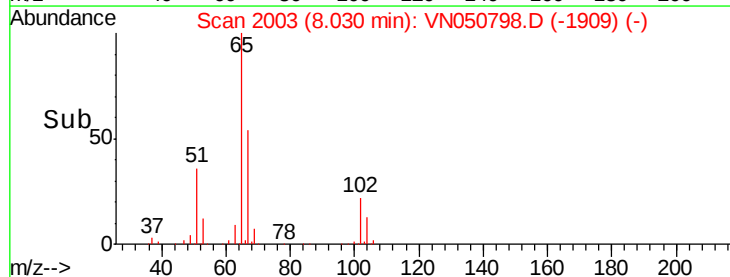
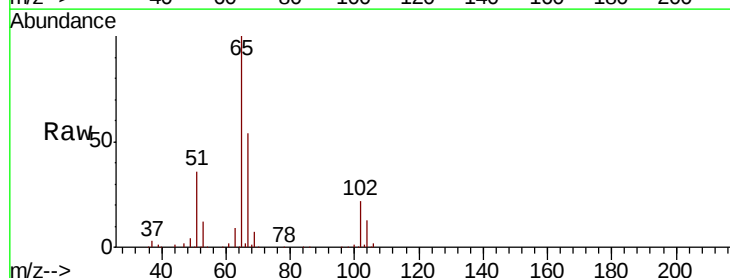
Instrument :
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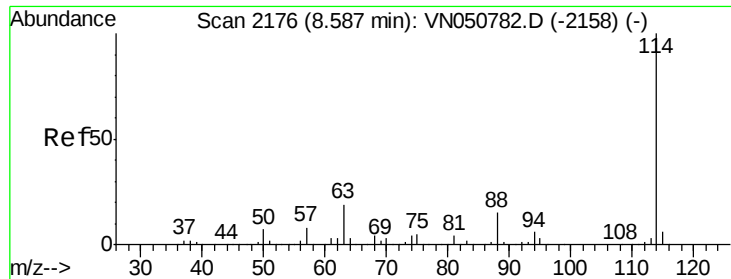
Tot Ion: 56 Resp: 11427
Ion Ratio Lower Upper
56 100
69 205.7 26.2 39.4#
84 155.0 68.3 102.5#



#33
1,2-Dichloroethane-d4
Concen: 53.876 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050798.D
Acq: 21 Aug 2018 22:36

Tgt Ion: 65 Resp: 414729
Ion Ratio Lower Upper
65 100
67 54.2 0.0 110.4

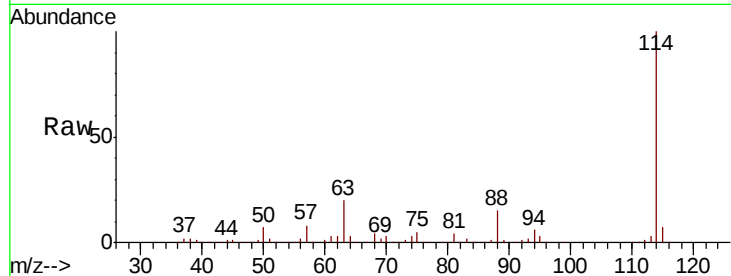




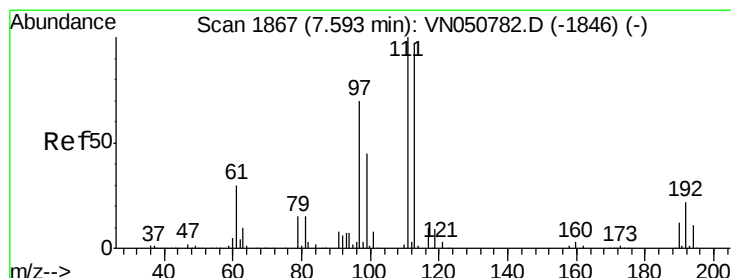
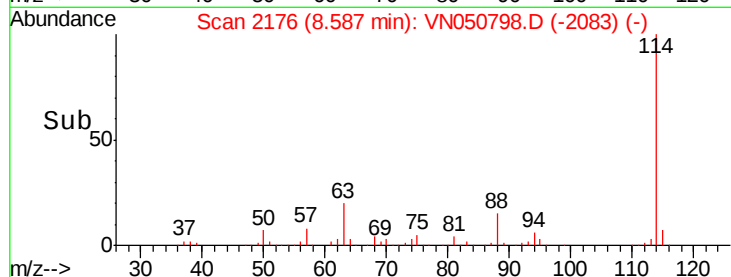
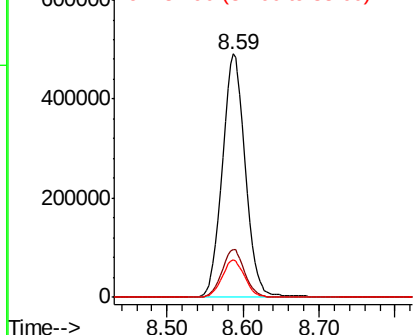
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050798.D
 Acq: 21 Aug 2018 22:36

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#04

Tot Ion:114 Resp: 1037745
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.6
 88 15.5 0.0 30.6

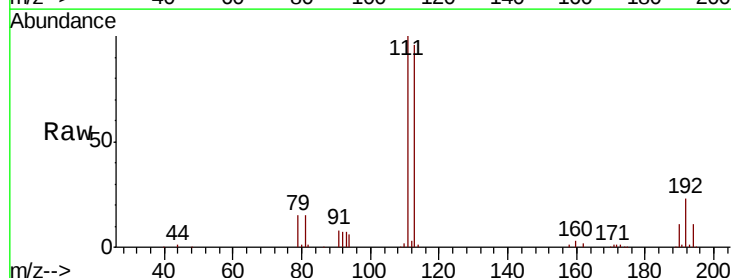


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

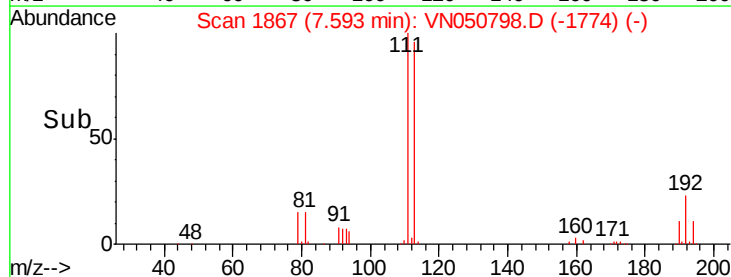
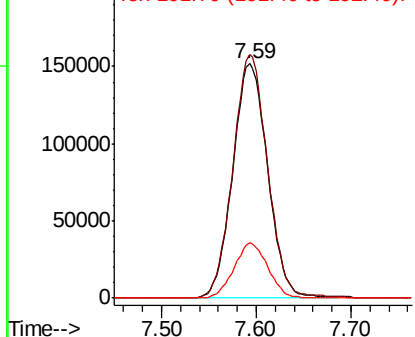


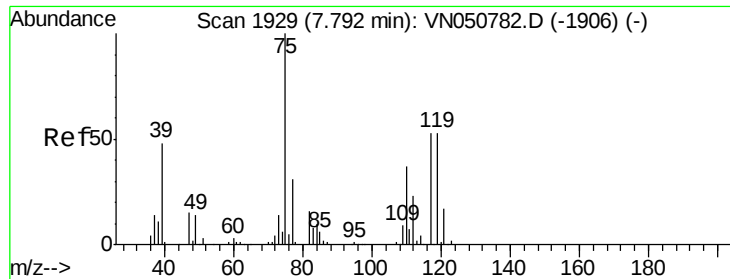
#35
 Dibromofluoromethane
 Concen: 47.306 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050798.D
 Acq: 21 Aug 2018 22:36

Tgt Ion:113 Resp: 390556
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.6 123.8
 192 22.7 18.0 27.0



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

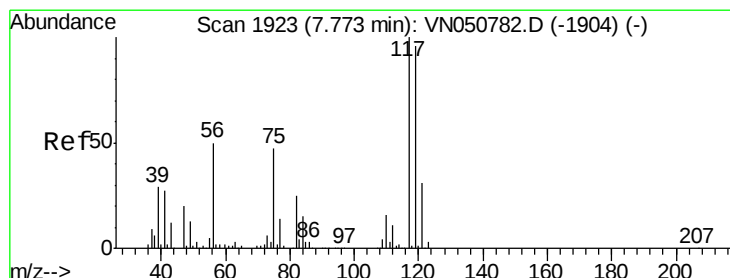
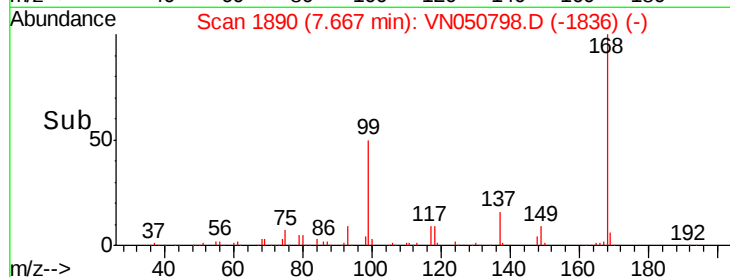
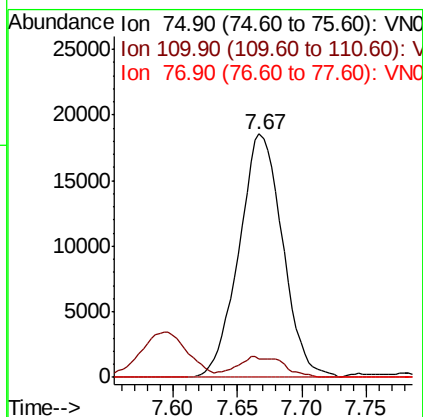
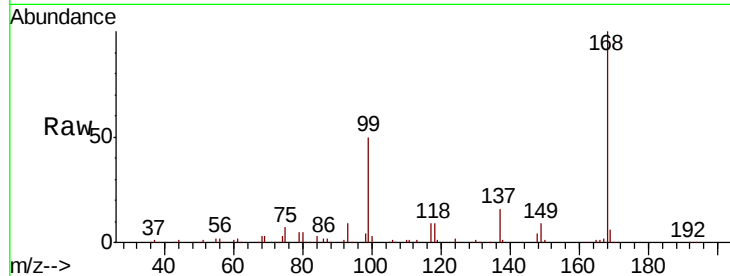




#36
 1,1-Dichloropropene
 Concen: 3.565 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050798.D
 Acq: 21 Aug 2018 22:36

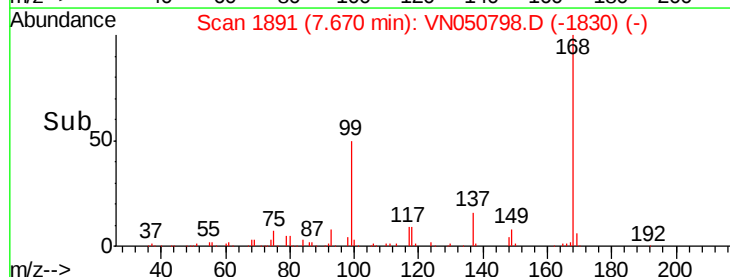
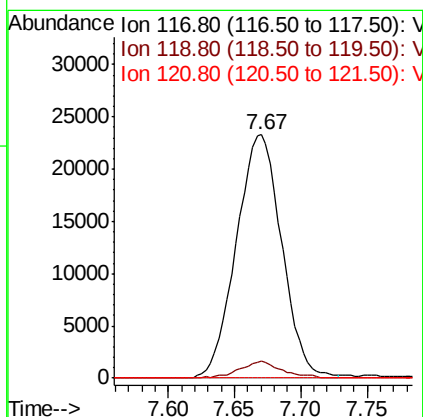
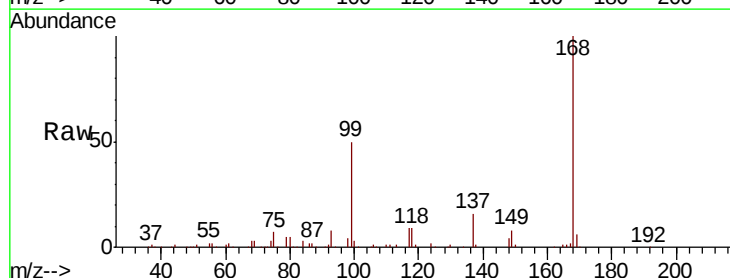
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#04

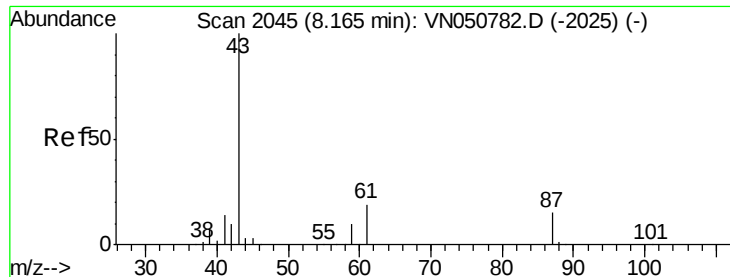
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.2	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.483 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN050798.D
 Acq: 21 Aug 2018 22:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 22.390 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#04

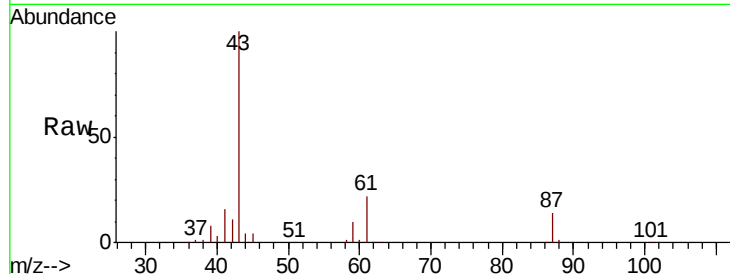
Tot Ion: 43 Resp: 270810

Ion Ratio Lower Upper

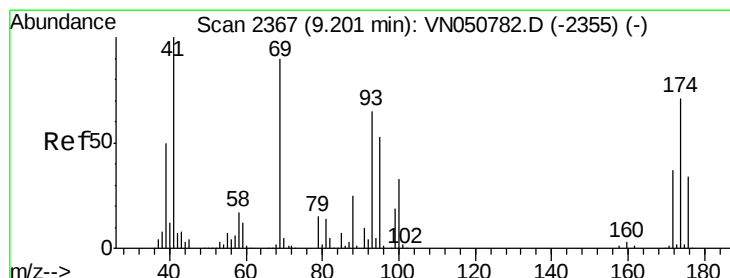
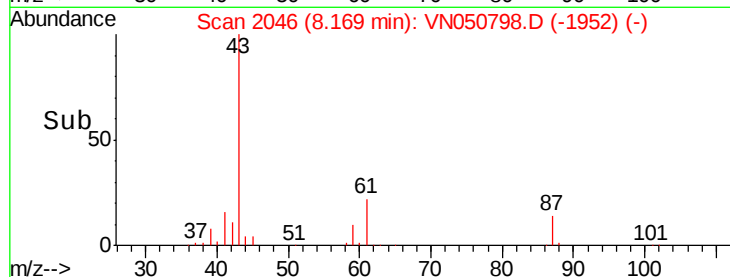
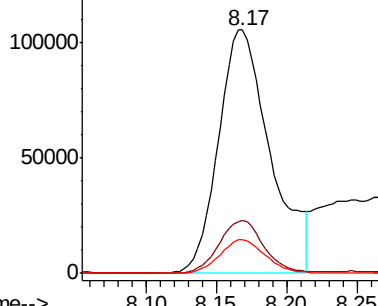
43 100

61 18.8 17.5 26.3

87 12.0 11.3 16.9



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: 1.287 ug/l

RT: 9.19 min Scan# 2363

Delta R.T. -0.01 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

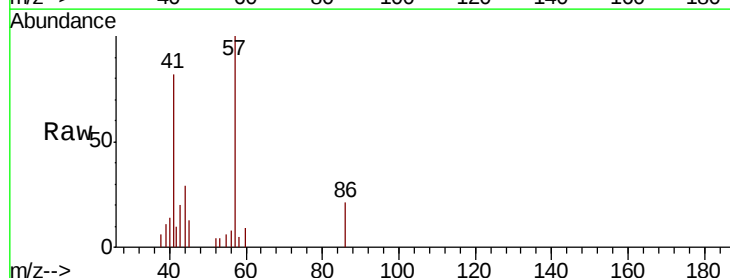
Tgt Ion: 41 Resp: 7933

Ion Ratio Lower Upper

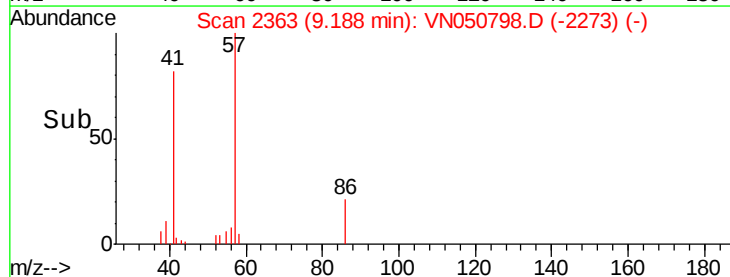
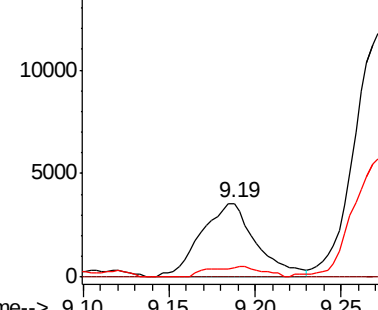
41 100

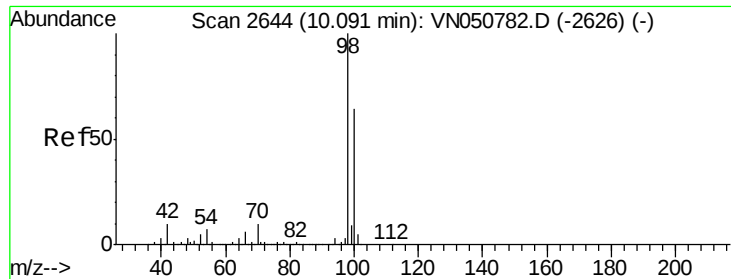
69 0.0 74.7 112.1#

39 7.6 42.2 63.2#



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

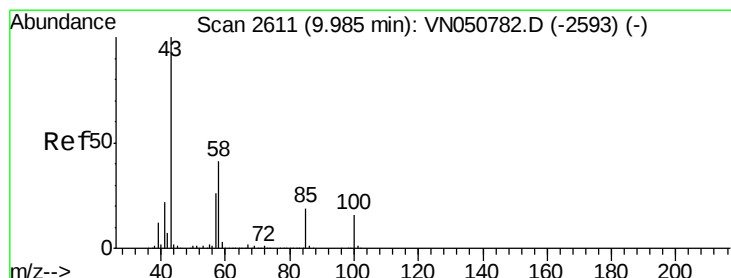
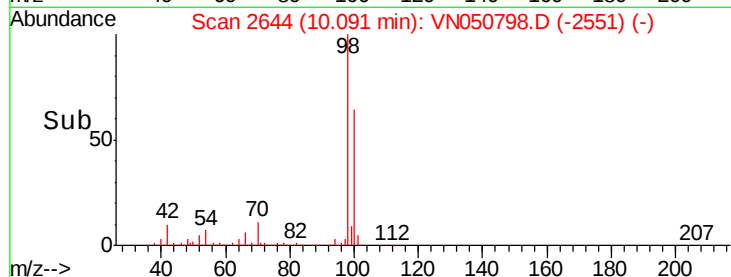
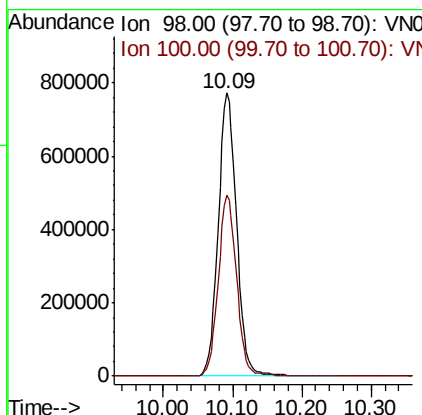
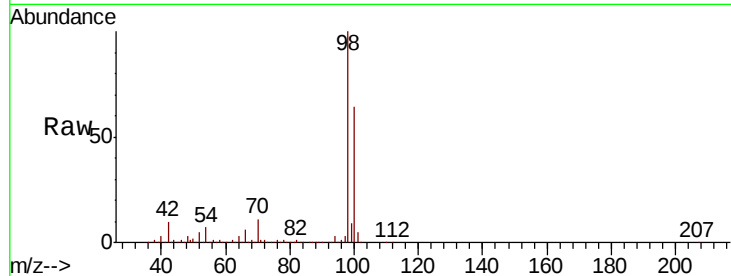




#50
Toluene-d8
Concen: 45.889 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050798.D
Acq: 21 Aug 2018 22:36

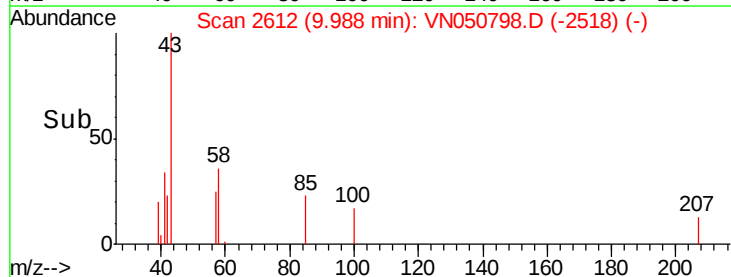
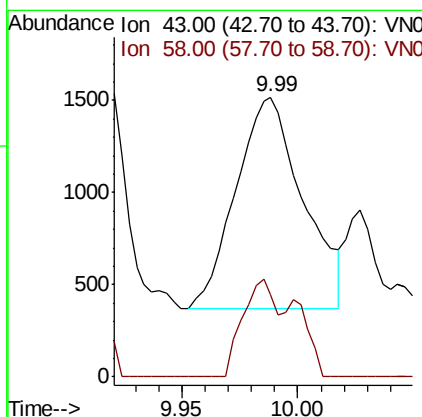
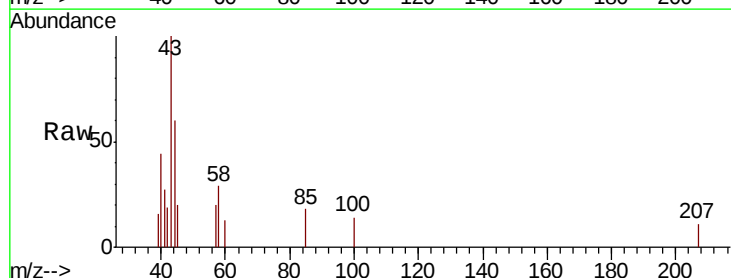
Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#04

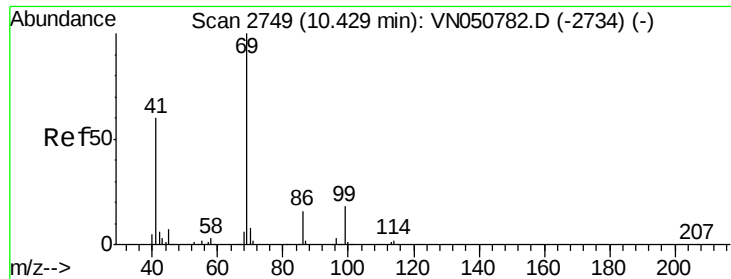
Tot Ion: 98 Resp: 1416430
Ion Ratio Lower Upper
98 100
100 64.0 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.320 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050798.D
Acq: 21 Aug 2018 22:36

Tgt Ion: 43 Resp: 2310
Ion Ratio Lower Upper
43 100
58 22.7 32.4 48.6#





#56

Ethyl methacrylate

Concen: 2.543 ug/l

RT: 10.23 min Scan# 2688

Delta R.T. -0.20 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#04

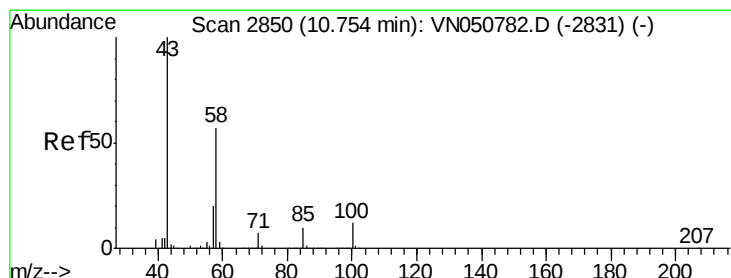
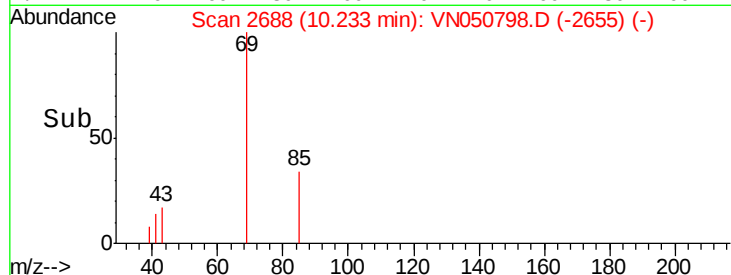
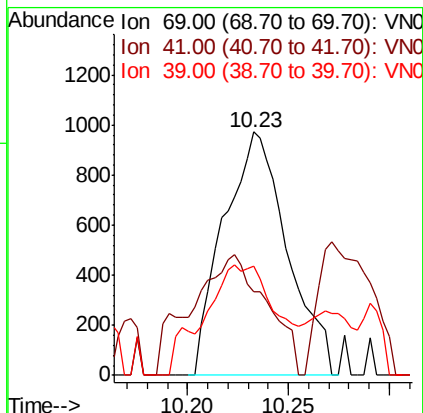
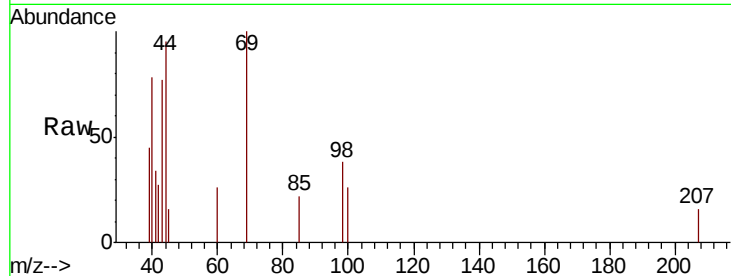
Tot Ion: 69 Resp: 2140

Ion Ratio Lower Upper

69 100

41 58.6 48.3 72.5

39 52.0 24.0 36.0#



#59

2-Hexanone

Concen: 3.346 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050798.D

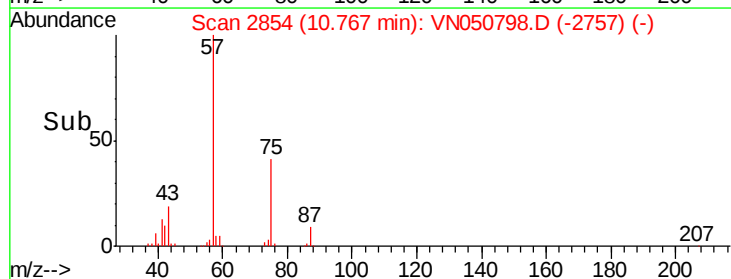
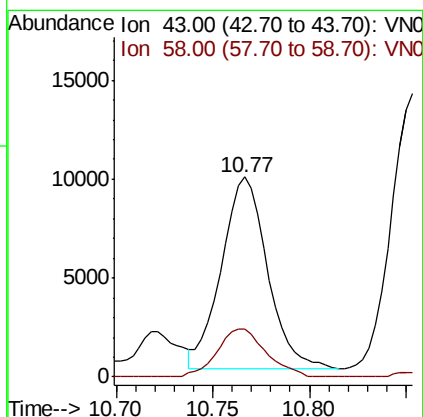
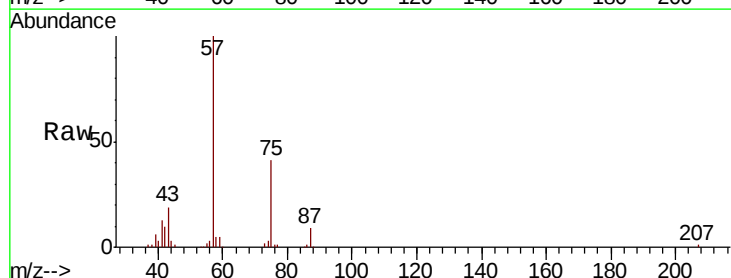
Acq: 21 Aug 2018 22:36

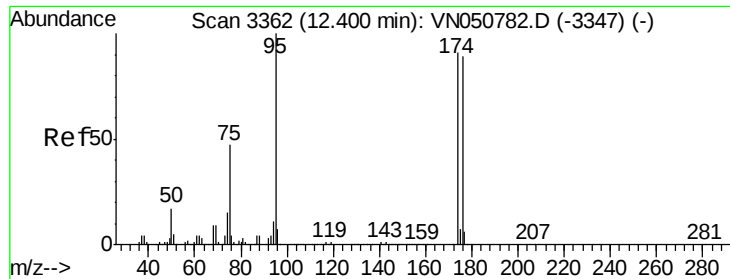
Tgt Ion: 43 Resp: 16075

Ion Ratio Lower Upper

43 100

58 26.5 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: 35.752 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#04

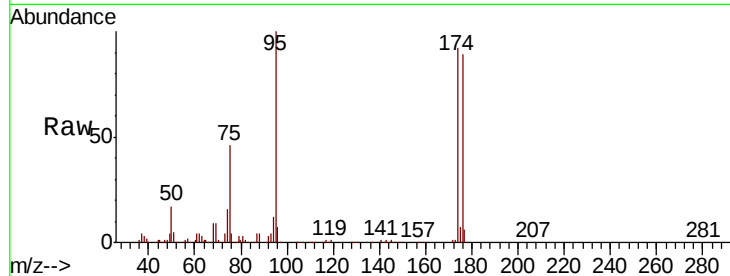
Tot Ion: 95 Resp: 366703

Ion Ratio Lower Upper

95 100

174 91.7 0.0 183.0

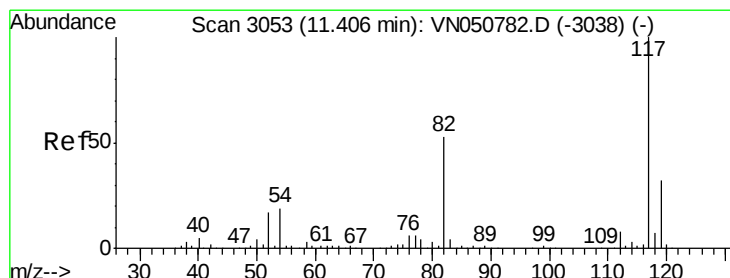
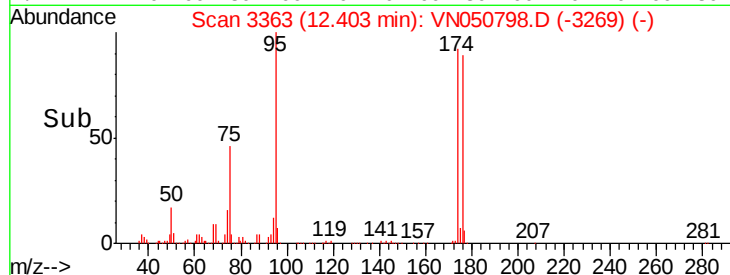
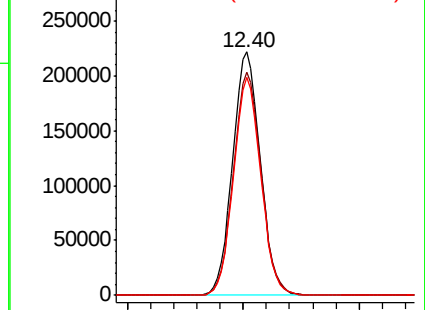
176 87.9 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN050782.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN050782.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN050782.D (-3347) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

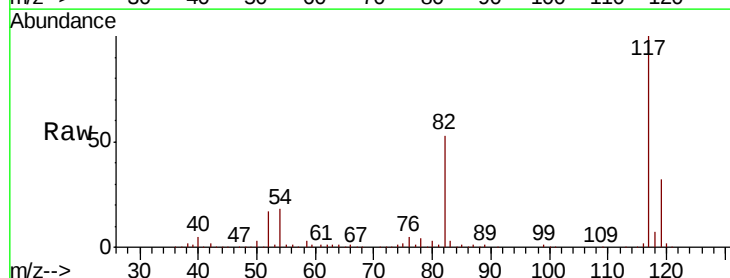
Tgt Ion: 117 Resp: 881041

Ion Ratio Lower Upper

117 100

82 52.7 42.6 64.0

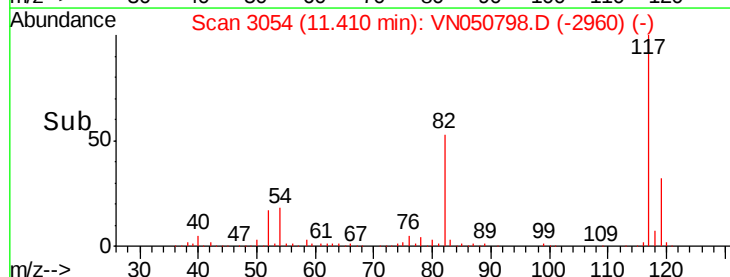
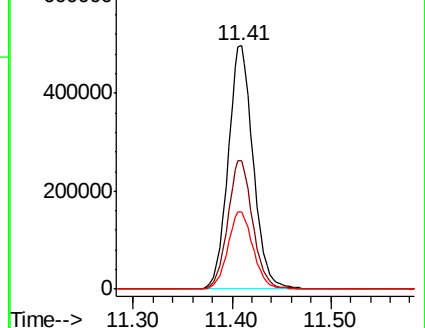
119 31.6 25.8 38.6

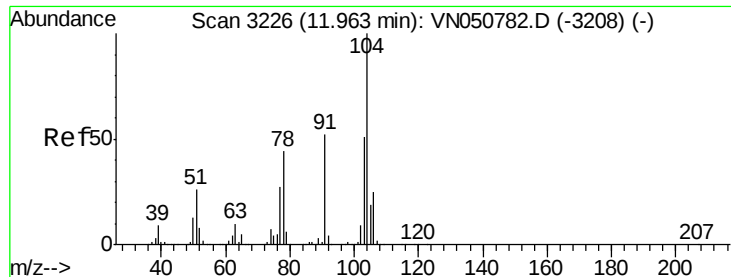


Abundance Ion 116.90 (116.60 to 117.60): VN050782.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050782.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050782.D (-3038) (-)





#70

Stvrene

Concen: 1.281 ug/l

RT: 11.95 min Scan# 3223

Delta R.T. -0.01 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#04

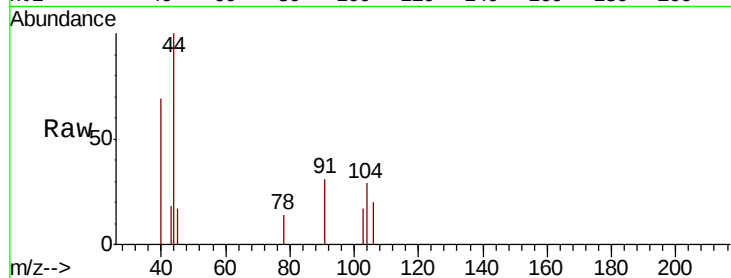
Tot Ion:104 Resp: 260

Ion Ratio Lower Upper

104 100

78 60.8 38.2 57.4#

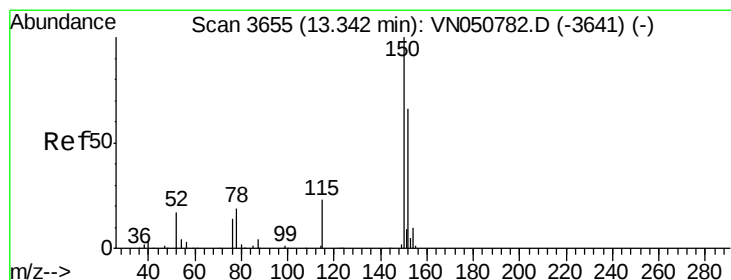
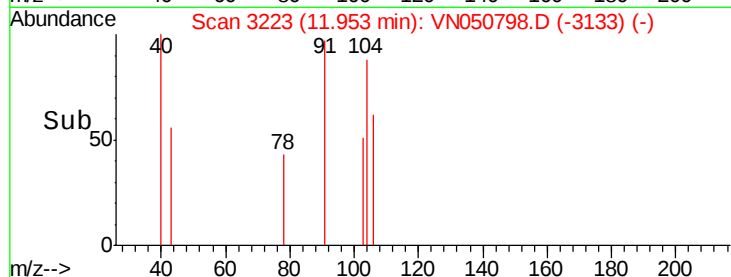
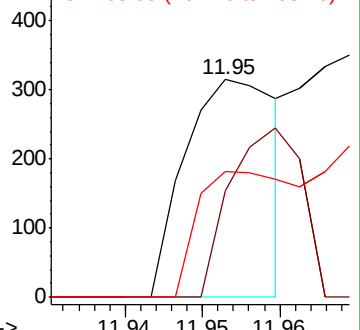
103 62.3 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

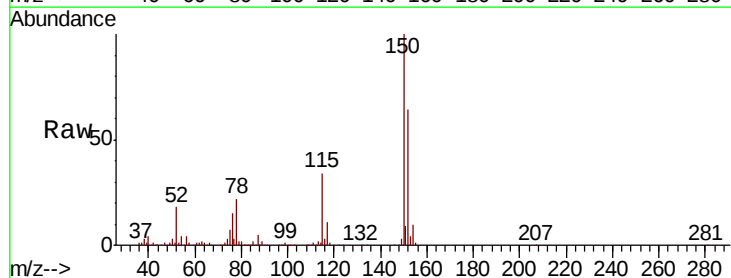
Tgt Ion:152 Resp: 270106

Ion Ratio Lower Upper

152 100

115 55.1 27.8 83.4

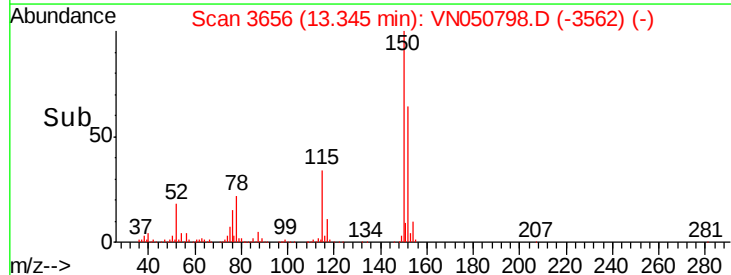
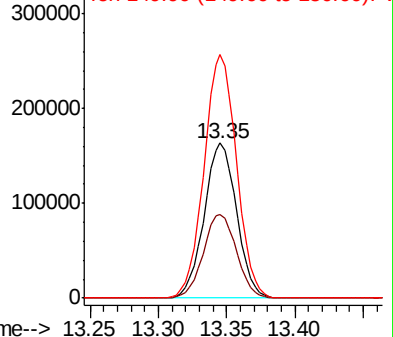
150 157.0 0.0 351.4

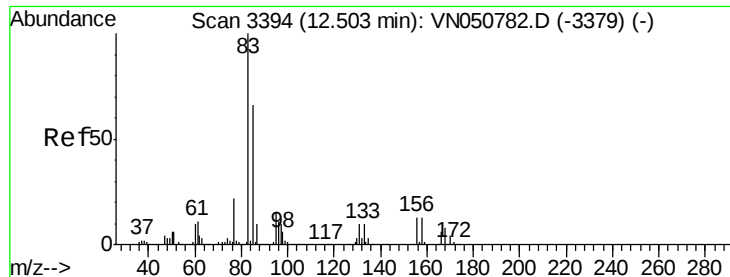


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#04

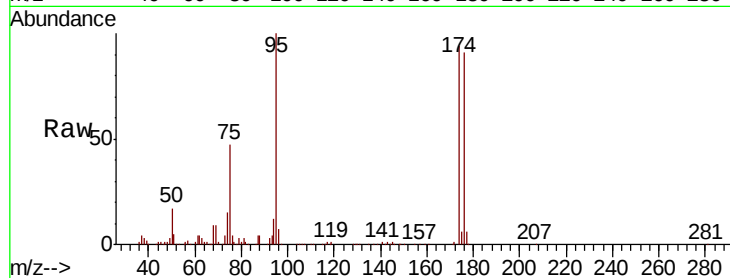
Tot Ion: 83 Resp: 113

Ion Ratio Lower Upper

83 100

131 354.0 5.3 15.9#

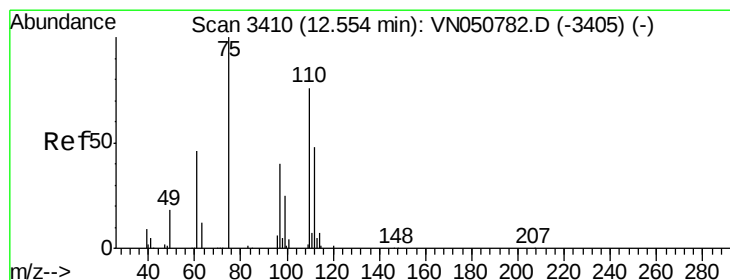
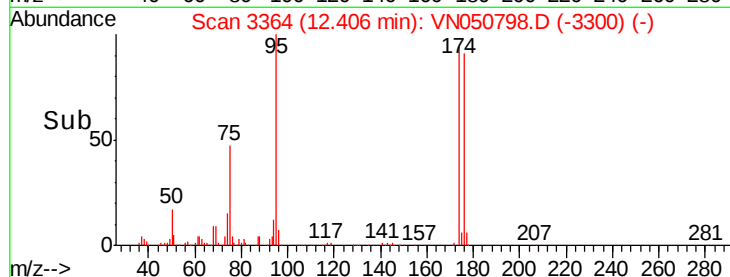
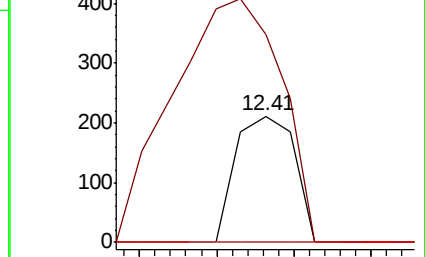
85 0.0 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 36.275 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050798.D

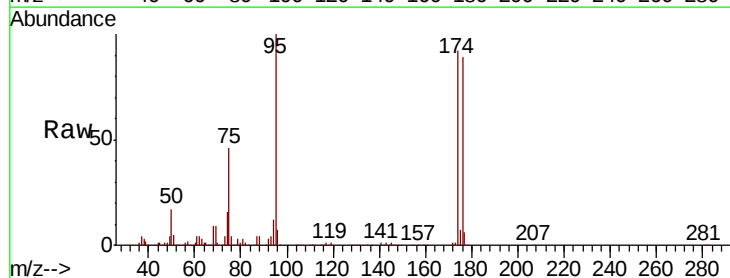
Acq: 21 Aug 2018 22:36

Tgt Ion: 75 Resp: 171615

Ion Ratio Lower Upper

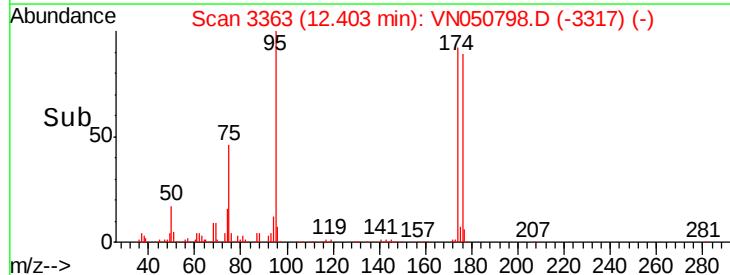
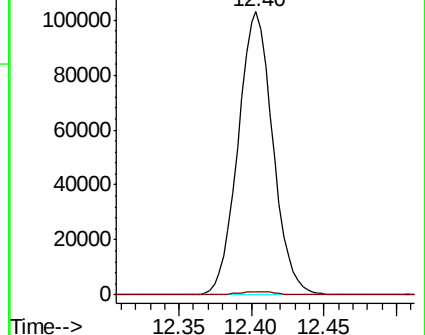
75 100

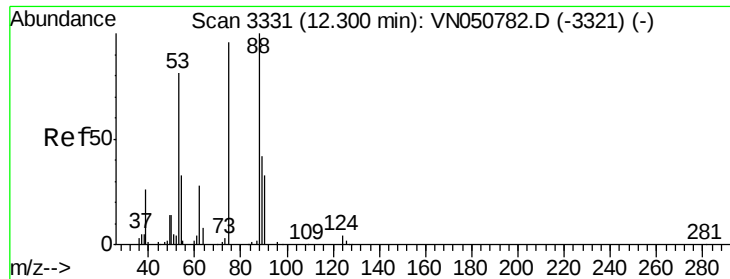
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

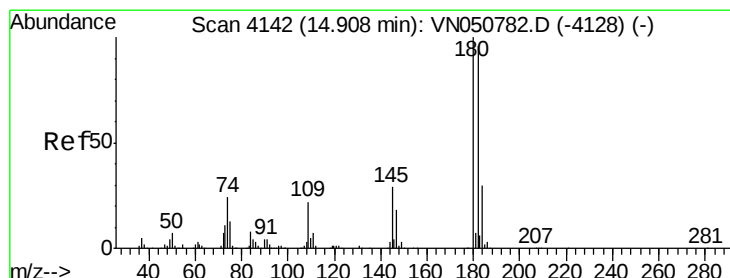
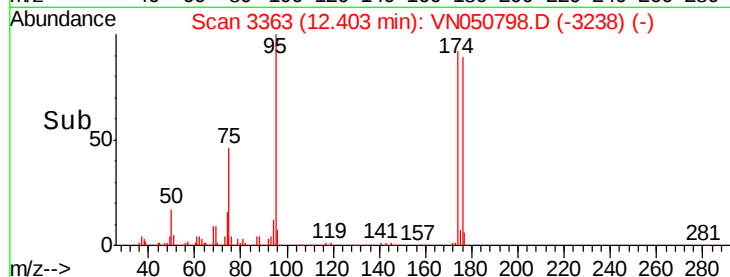
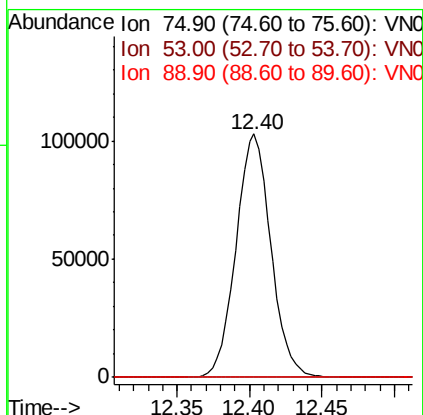
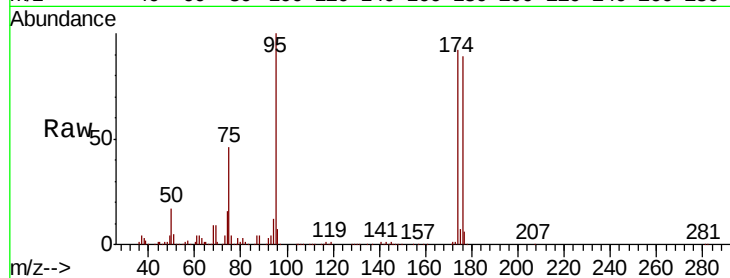




#81
trans-1,4-Dichloro-2-butene
Concen: 122.631 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050798.D
Acq: 21 Aug 2018 22:36

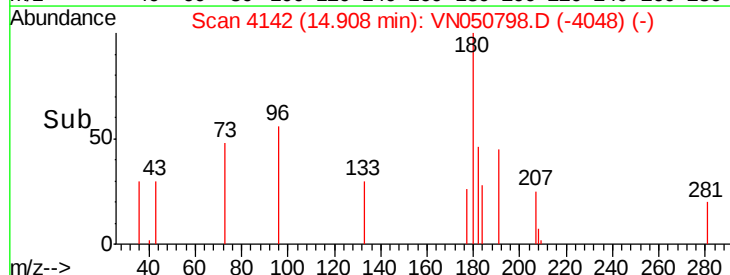
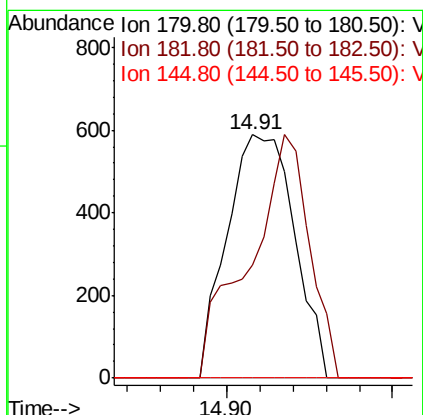
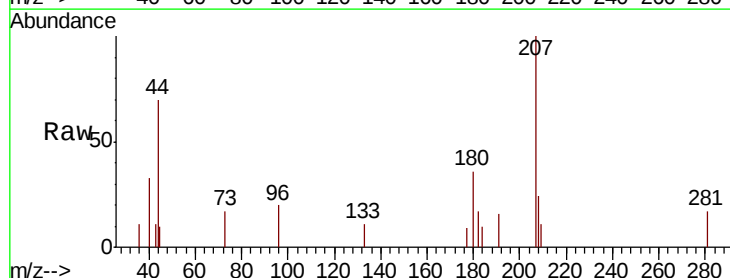
Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#04

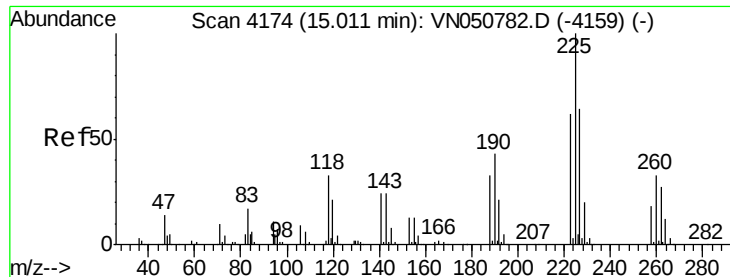
Tot Ion: 75 Resp: 171615
Ion Ratio Lower Upper
75 100
53 0.2 68.9 103.3#
89 0.0 36.1 54.1#



#93
1,2,4-Trichlorobenzene
Concen: 4.230 ug/l
RT: 14.91 min Scan# 4142
Delta R.T. 0.00 min
Lab File: VN050798.D
Acq: 21 Aug 2018 22:36

Tgt Ion: 180 Resp: 832
Ion Ratio Lower Upper
180 100
182 89.3 48.2 144.6
145 0.0 14.1 42.2#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4174

Delta R.T. 0.00 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#04

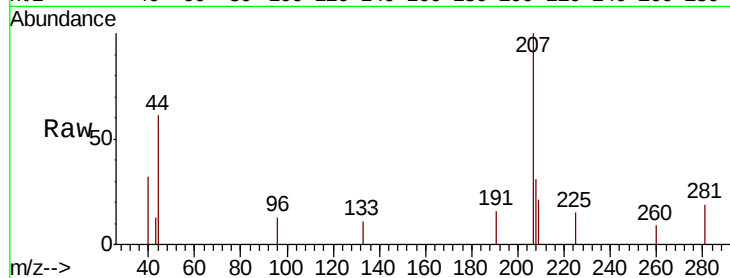
Tot Ion:225 Resp: 244

Ion Ratio Lower Upper

225 100

223 0.0 31.3 93.8#

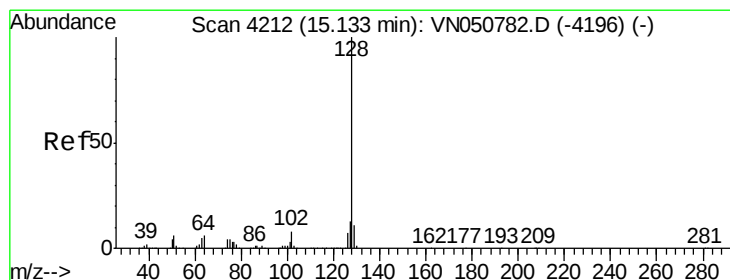
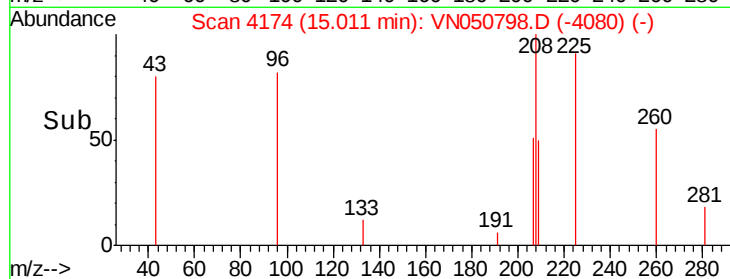
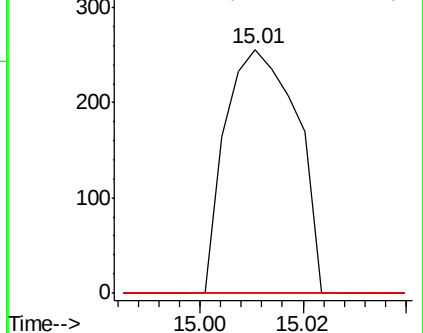
227 0.0 32.0 96.2#



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



#95

Naphthalene

Concen: 5.548 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN050798.D

Acq: 21 Aug 2018 22:36

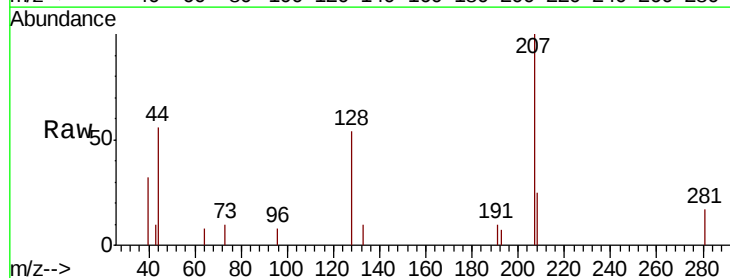
Tgt Ion:128 Resp: 1793

Ion Ratio Lower Upper

128 100

127 7.7 10.5 15.7#

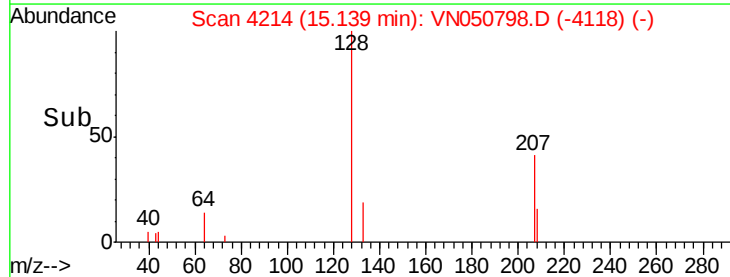
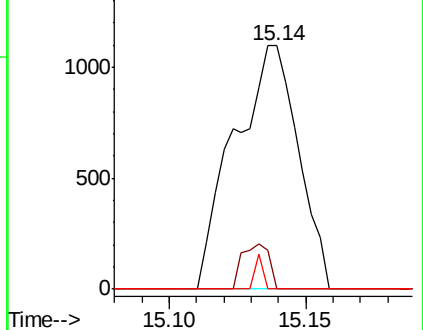
129 1.7 8.7 13.1#

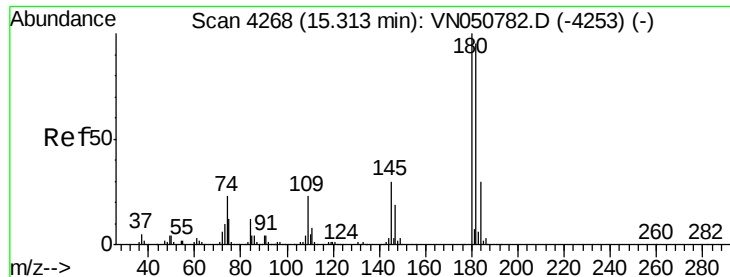


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.418 ug/l
 RT: 15.32 min Scan# 4271
 Delta R.T. 0.01 min
 Lab File: VN050798.D
 Acq: 21 Aug 2018 22:36

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#04

Tot Ion:180 Resp: 632
 Ion Ratio Lower Upper
 180 100
 182 60.4 48.0 144.2
 145 0.0 15.2 45.6#

