

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082118\
 Data File : VN050799.D
 Acq On : 21 Aug 2018 23:01
 Operator : MD\SY
 Sample : PB112227ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#05

Quant Time: Aug 22 06:45:07 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	626222	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1041229	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	877129	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	263833	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	408799	54.23	ug/l	0.00
Spiked Amount			Recovery	=	108.46%	
35) Dibromofluoromethane	7.59	113	393782	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
50) Toluene-d8	10.09	98	1421411	45.90	ug/l	0.00
Spiked Amount			Recovery	=	91.80%	
62) 4-Bromofluorobenzene	12.40	95	362261	35.20	ug/l	0.00
Spiked Amount			Recovery	=	70.40%	

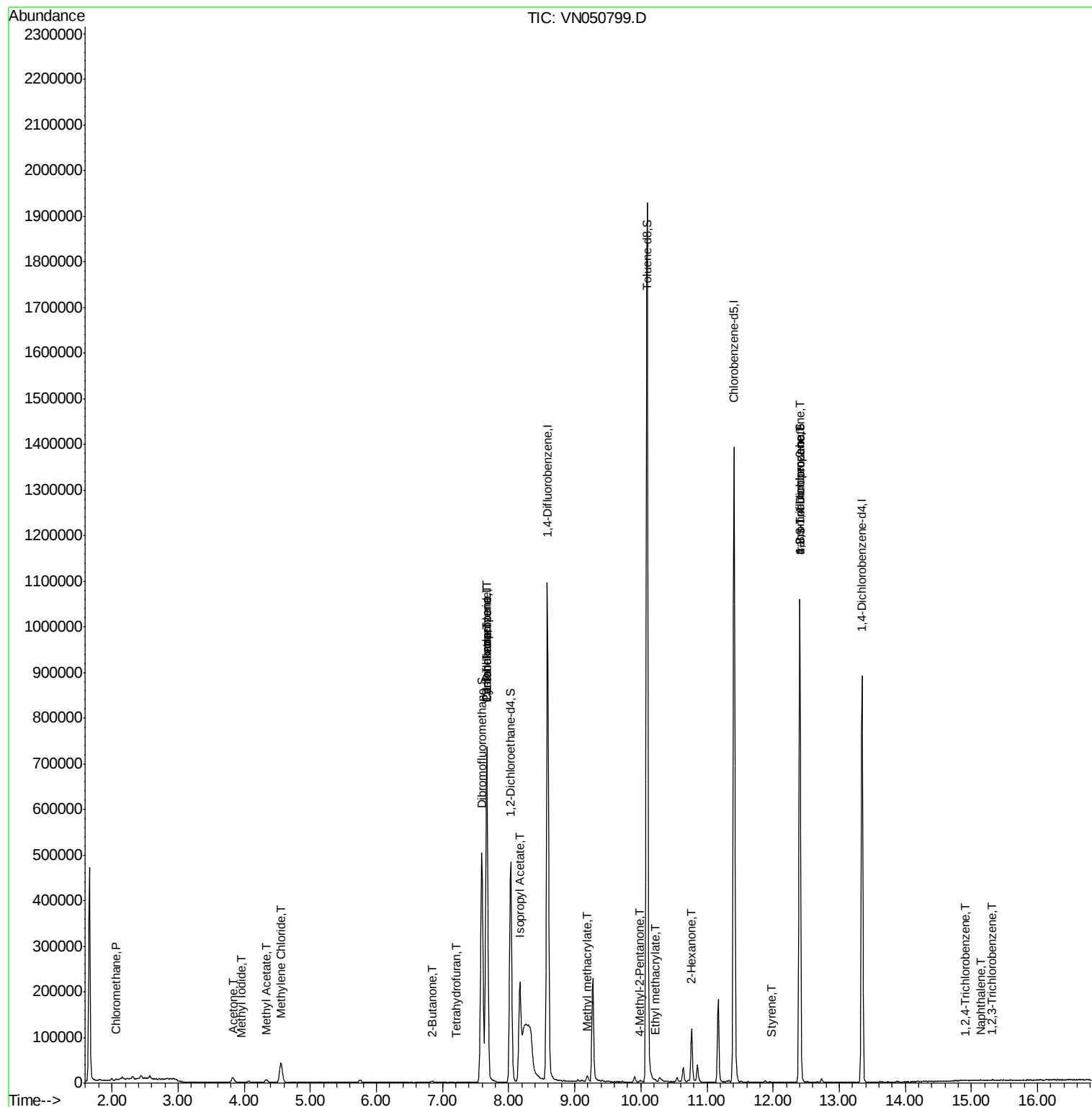
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2948	0.285	ug/l	100
5) Bromomethane	2.57	94	3872	Below Cal		95
10) Methyl Iodide	3.96	142	1473	6.528	ug/l #	68
16) Acetone	3.83	43	20219	4.386	ug/l	93
18) Methyl Acetate	4.33	43	12163	1.709	ug/l	95
20) Methylene Chloride	4.55	84	34344	4.042	ug/l	99
25) 2-Butanone	6.84	43	1499	0.493	ug/l	90
29) Tetrahydrofuran	7.21	42	420	0.241	ug/l #	33
31) Cyclohexane	7.66	56	11040	1.319	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43507	3.541	ug/l #	48
38) Carbon Tetrachloride	7.67	117	55329	4.455	ug/l #	16
43) Isopropyl Acetate	8.17	43	283258	23.341	ug/l	93
48) Methyl methacrylate	9.18	41	7534	1.218	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	2467	0.341	ug/l #	63
56) Ethyl methacrylate	10.23	69	2218	2.549	ug/l	88
59) 2-Hexanone	10.77	43	15921	3.302	ug/l #	59
70) Styrene	11.97	104	288	1.282	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.49	83	59	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	172203	37.265	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	172203	125.977	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	223	4.123	ug/l #	70
94) Hexachlorobutadiene	15.01	225	62	Below Cal	#	19
95) Naphthalene	15.13	128	959	5.481	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	162	3.328	ug/l #	39

(#) = 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# 1891

Delta R.T. 0.00 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

Instrument :

MSVOA_N

ClientSampleId :

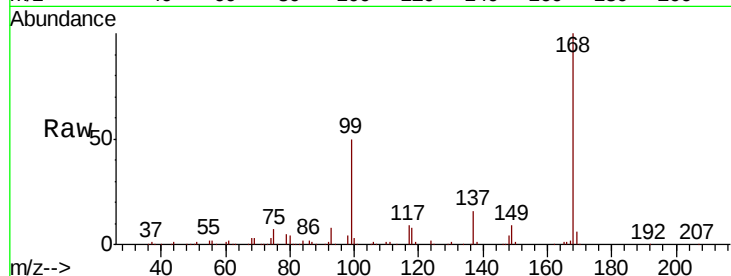
PB112227ZHE#05

Tot Ion:168 Resp: 626222

Ion Ratio Lower Upper

168 100

99 49.8 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050782.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050782.D (-1870) (-)

7.67

250000

200000

150000

100000

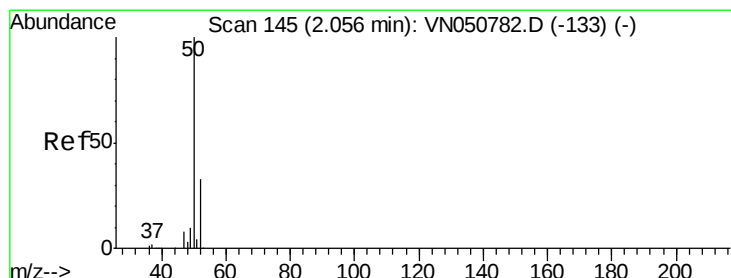
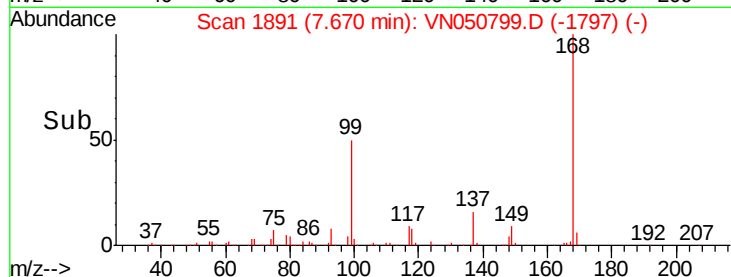
50000

0

Time-->

7.60

7.70



#3

Chloromethane

Concen: 0.285 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050799.D

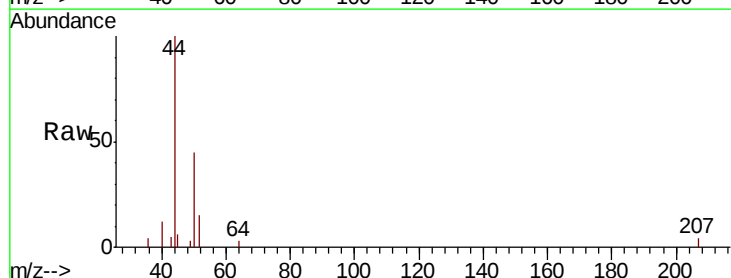
Acq: 21 Aug 2018 23:01

Tgt Ion: 50 Resp: 2948

Ion Ratio Lower Upper

50 100

52 32.9 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN050782.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050782.D (-133) (-)

2.06

2500

2000

1500

1000

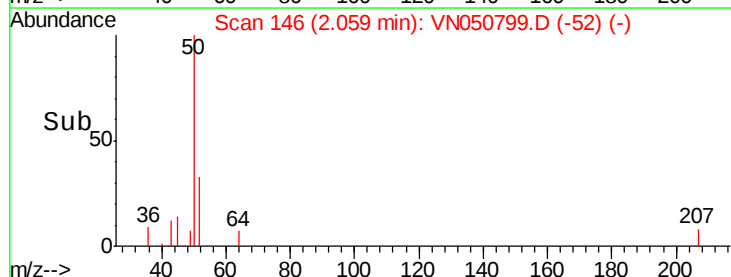
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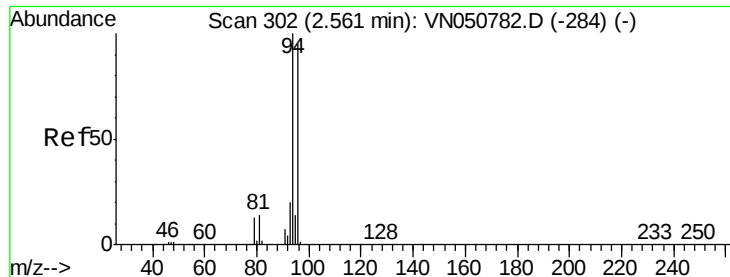
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Time-->

2.05

2.10





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

Instrument :

MSVOA_N

ClientSampleId :

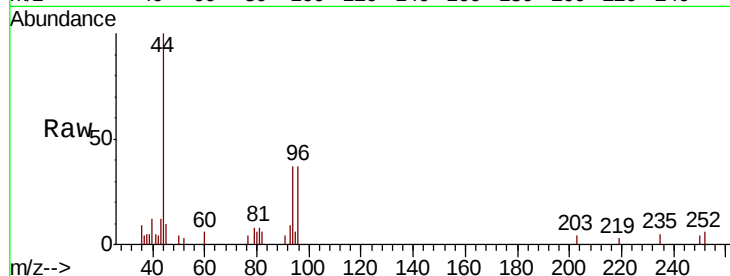
PB112227ZHE#05

Tot Ion: 94 Resp: 3872

Ion Ratio Lower Upper

94 100

96 90.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050782.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050782.D (-284) (-)

2.57

1500

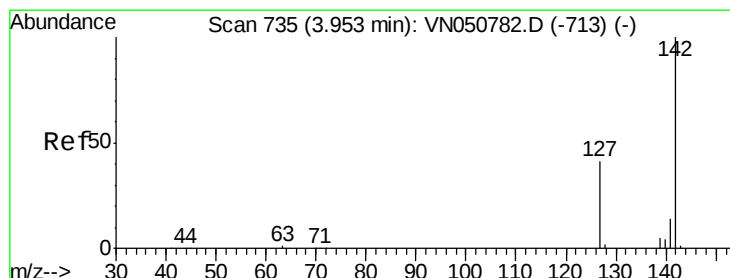
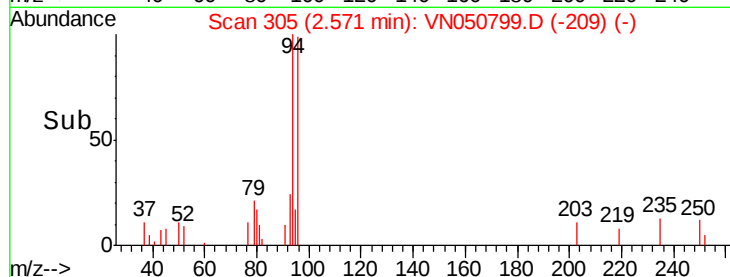
1000

500

0

2.55 2.60

Time-->



#10

Methyl Iodide

Concen: 6.528 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.00 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

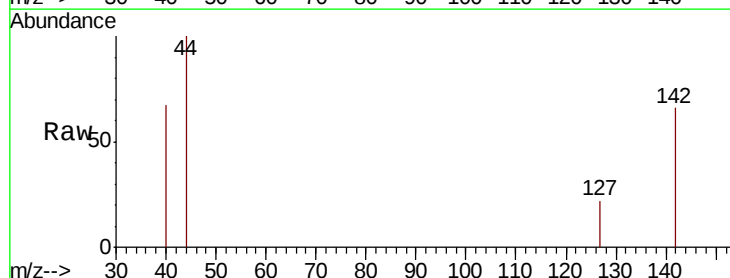
Tgt Ion: 142 Resp: 1473

Ion Ratio Lower Upper

142 100

127 20.2 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050782.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050782.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050782.D (-713) (-)

3.96

800

600

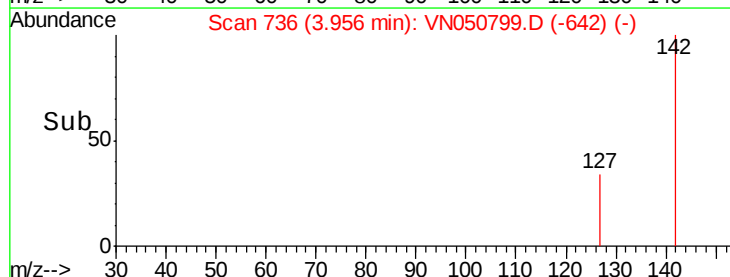
400

200

0

3.90 3.95 4.00

Time-->





#16

Acetone

Concen: 4.386 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

Instrument :

MSVOA_N

ClientSampleId :

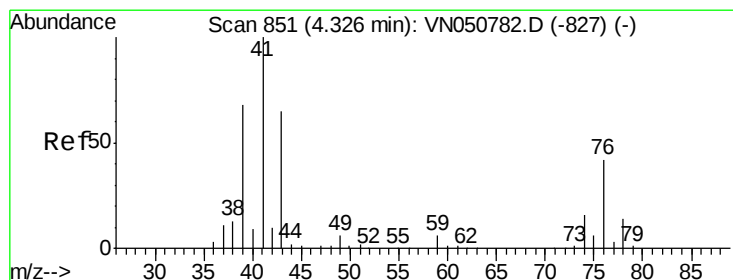
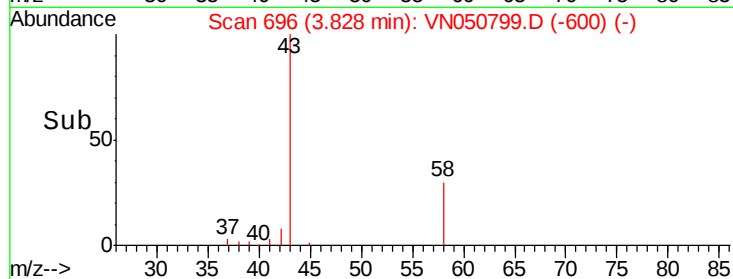
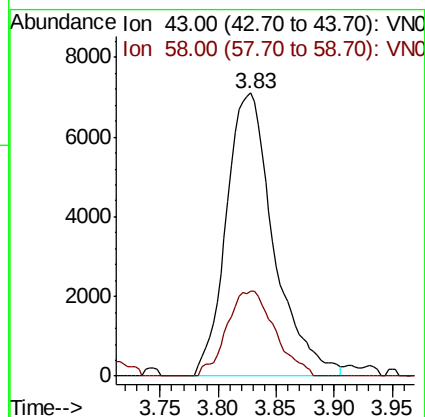
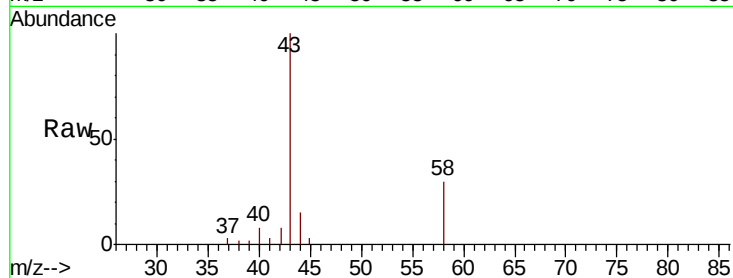
PB112227ZHE#05

Tot Ion: 43 Resp: 20219

Ion Ratio Lower Upper

43 100

58 30.0 27.2 40.8



#18

Methyl Acetate

Concen: 1.709 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050799.D

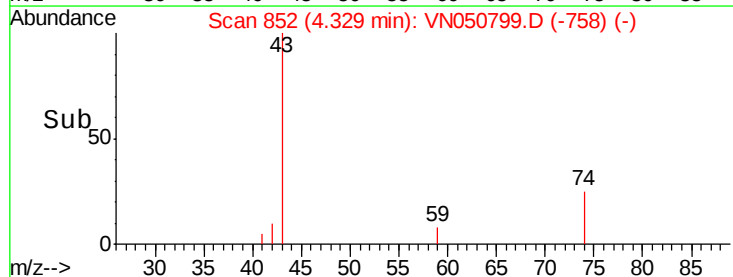
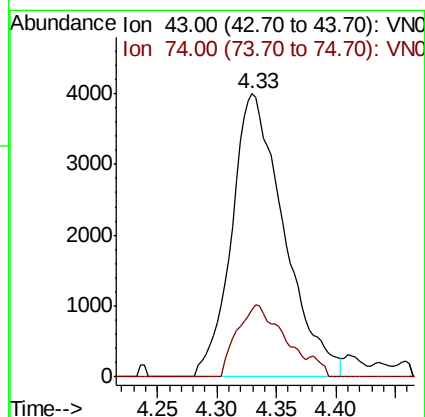
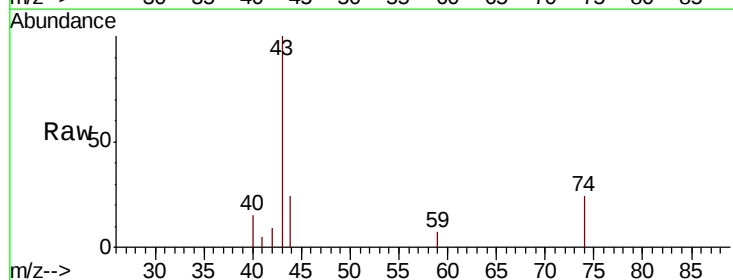
Acq: 21 Aug 2018 23:01

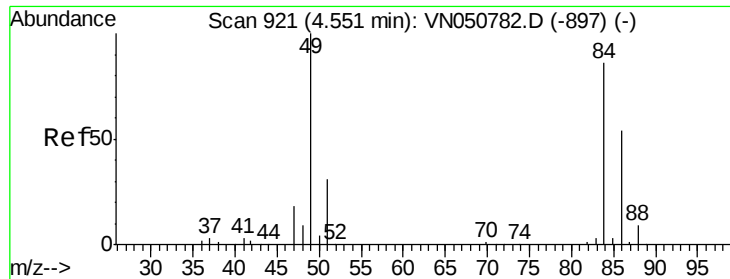
Tgt Ion: 43 Resp: 12163

Ion Ratio Lower Upper

43 100

74 22.1 19.8 29.8

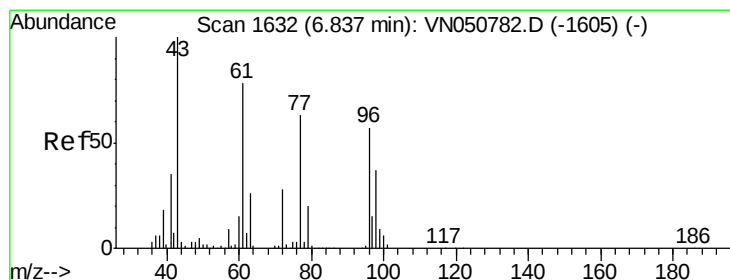
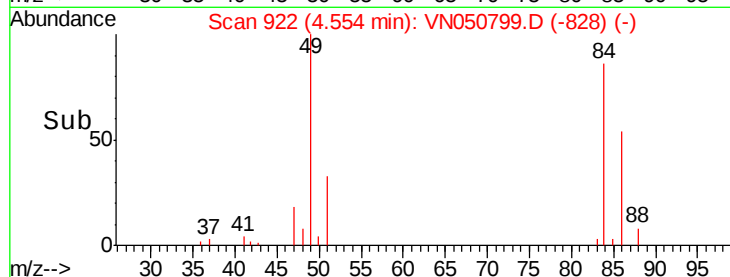
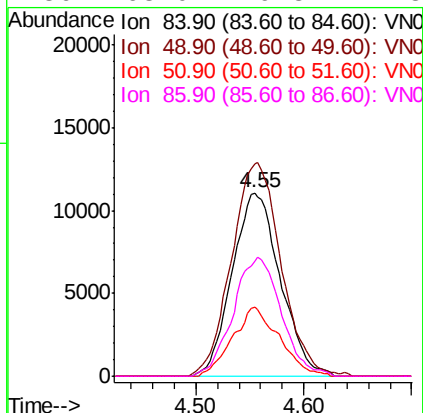
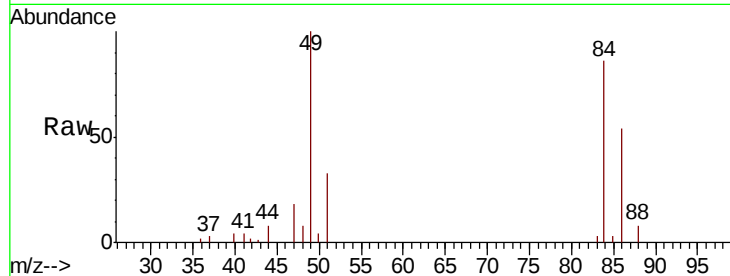




#20
Methvlene Chloride
Concen: 4.042 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050799.D
Acq: 21 Aug 2018 23:01

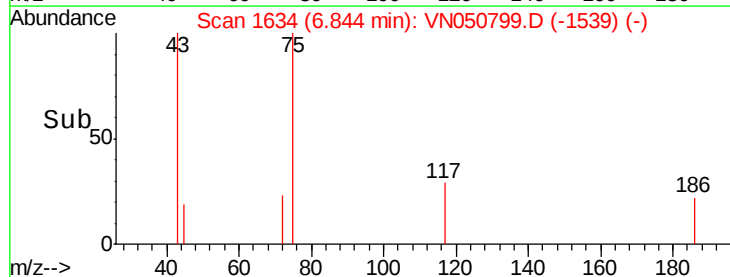
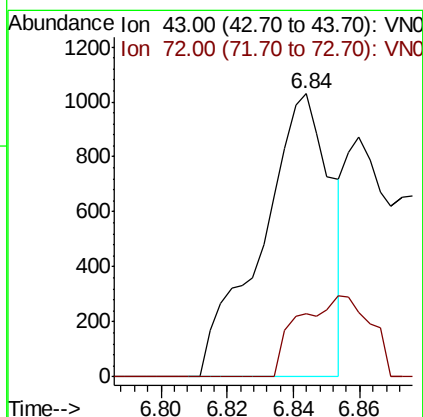
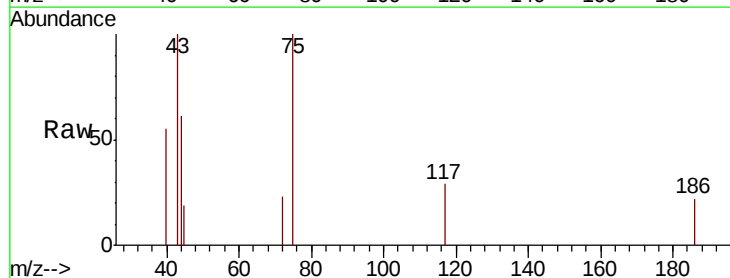
Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#05

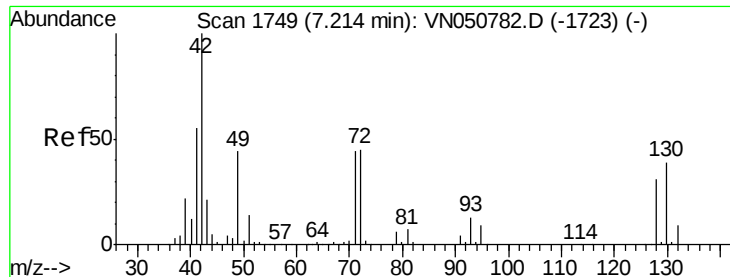
Tot Ion: 84 Resp: 34344
Ion Ratio Lower Upper
84 100
49 116.1 93.2 139.8
51 37.9 29.0 43.6
86 63.0 49.8 74.8



#25
2-Butanone
Concen: 0.493 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.01 min
Lab File: VN050799.D
Acq: 21 Aug 2018 23:01

Tgt Ion: 43 Resp: 1499
Ion Ratio Lower Upper
43 100
72 22.5 22.3 33.5





#29

Tetrahydrofuran

Concen: 0.241 ug/l

RT: 7.21 min Scan# 1748

Delta R.T. -0.00 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#05

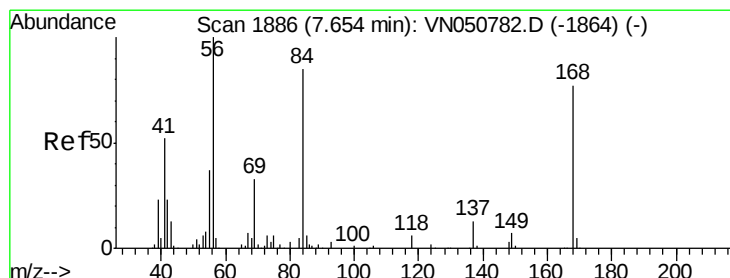
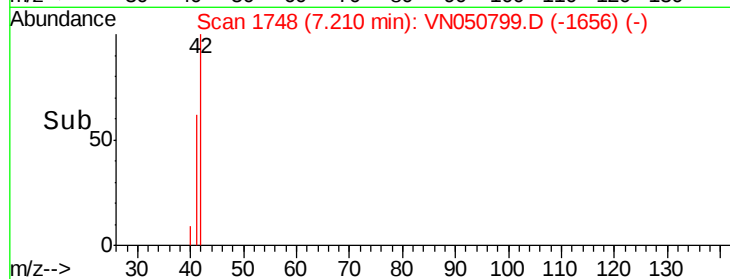
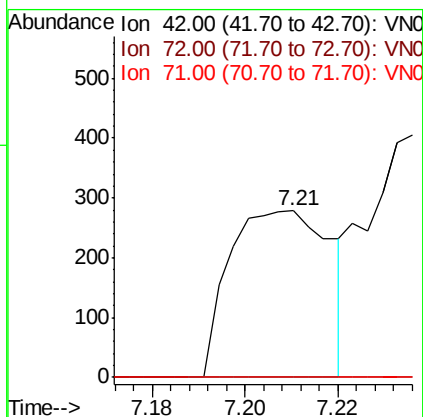
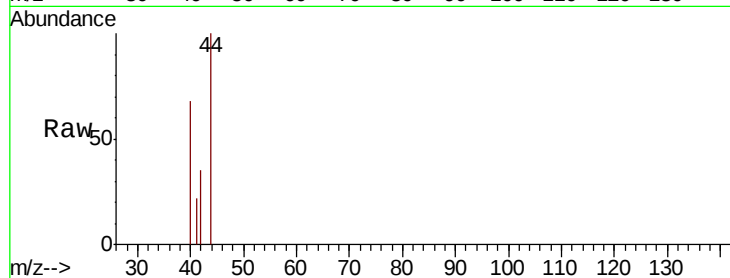
Tot Ion: 42 Resp: 420

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

71 0.0 33.7 50.5#



#31

Cyclohexane

Concen: 1.319 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

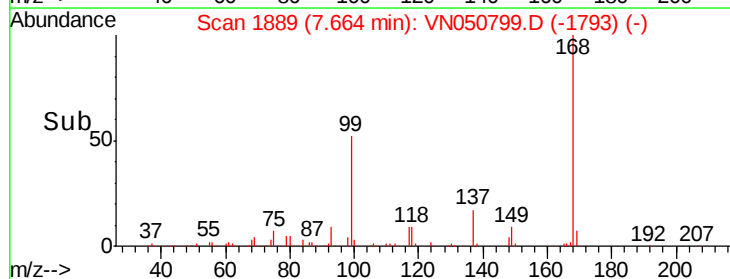
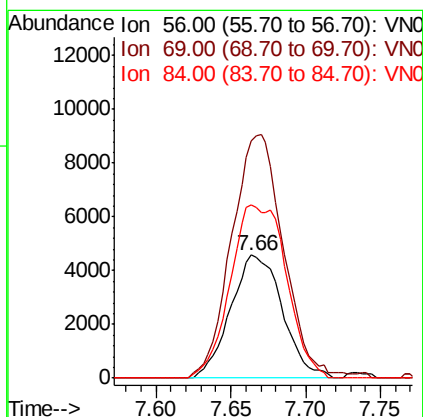
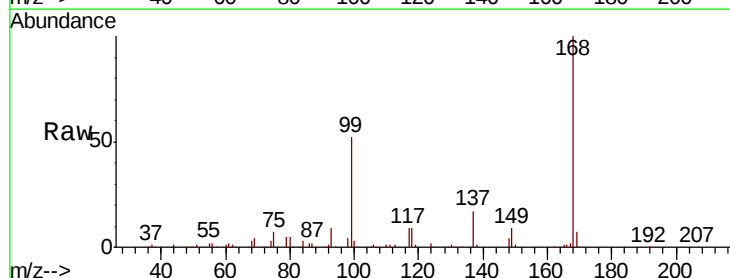
Tgt Ion: 56 Resp: 11040

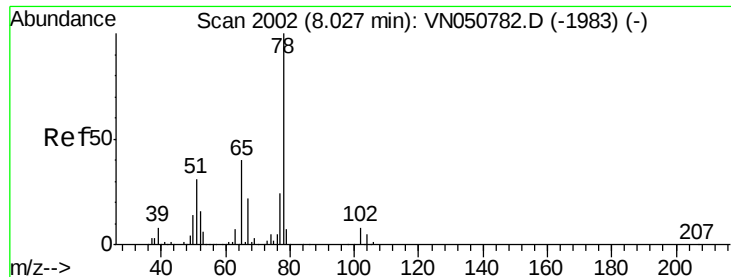
Ion Ratio Lower Upper

56 100

69 193.5 26.2 39.4#

84 141.4 68.3 102.5#

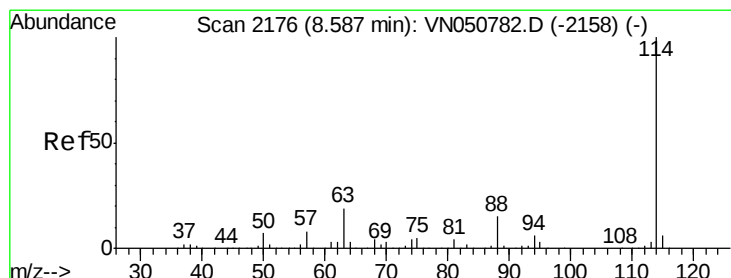
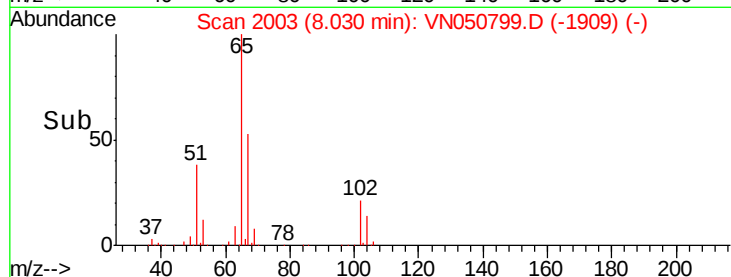
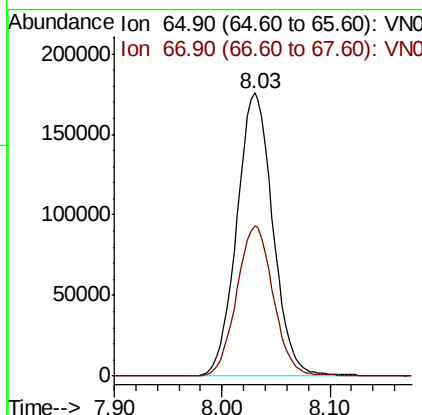
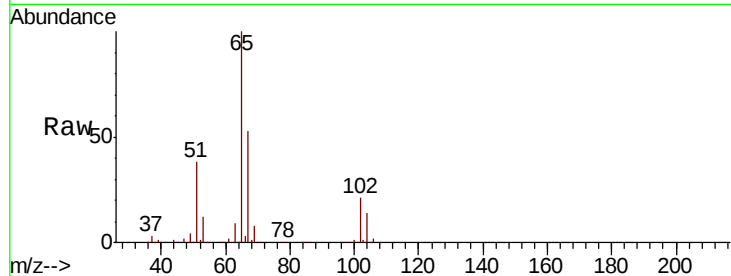




#33
 1,2-Dichloroethane-d4
 Concen: 54.226 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

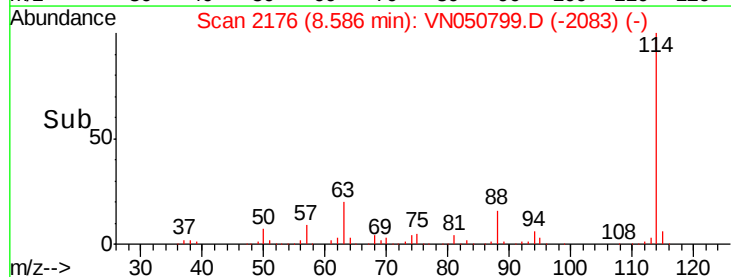
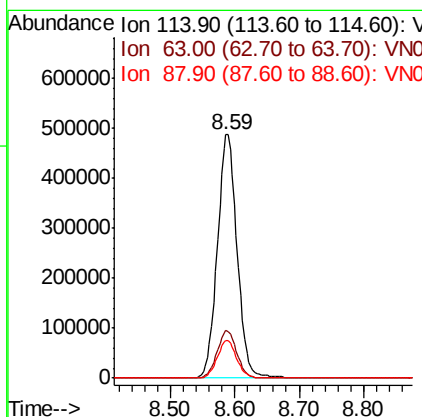
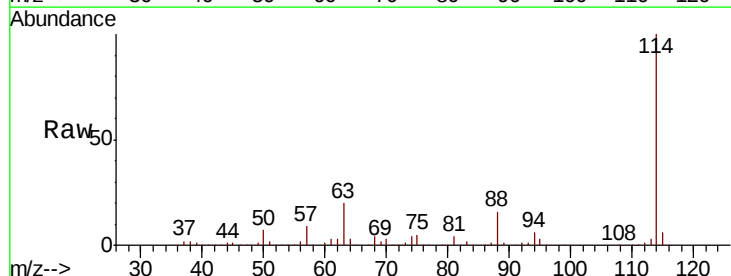
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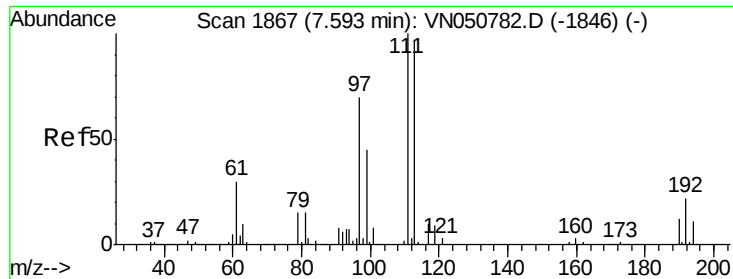
Tot Ion: 65 Resp: 408799
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

Tgt Ion: 114 Resp: 1041229
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 38.6
 88 15.7 0.0 30.6

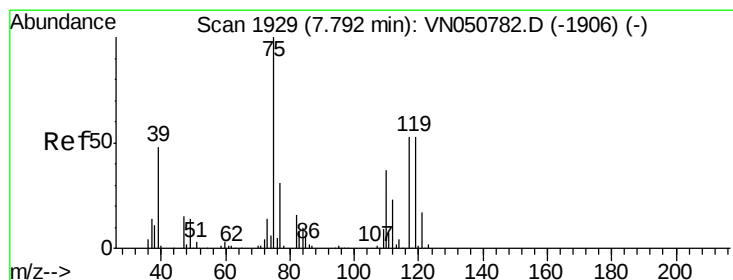
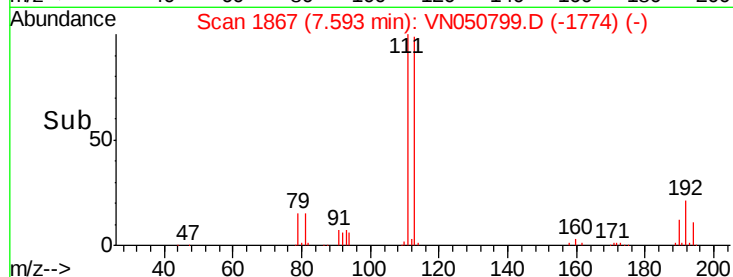
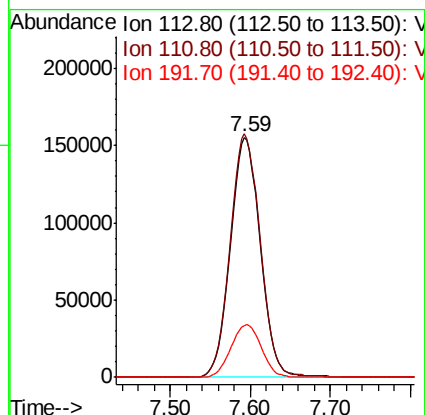
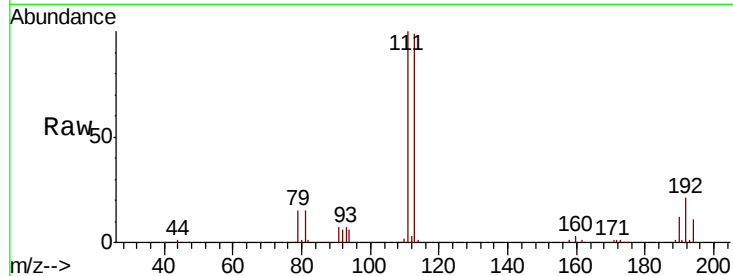




#35
 Dibromofluoromethane
 Concen: 47.538 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

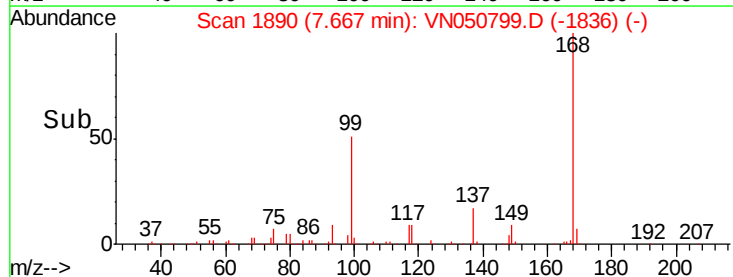
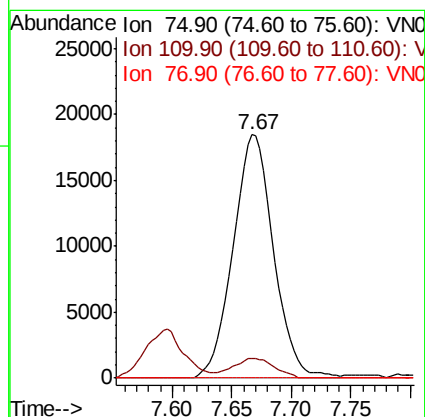
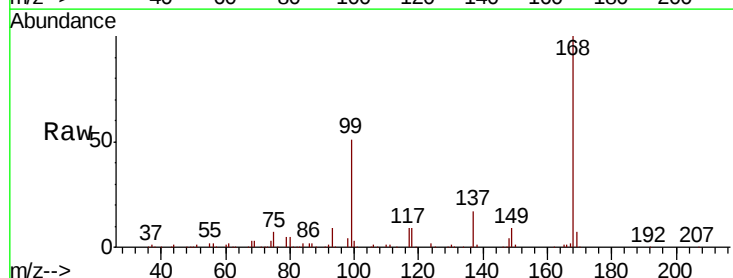
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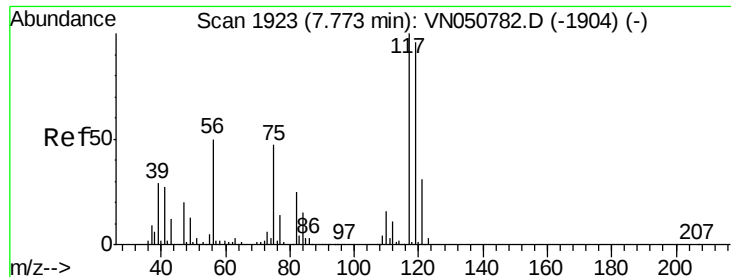
Tot Ion:113 Resp: 393782
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.6 123.8
 192 22.3 18.0 27.0



#36
 1,1-Dichloropropene
 Concen: 3.541 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

Tgt Ion: 75 Resp: 43507
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.1 54.4#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 4.455 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#05

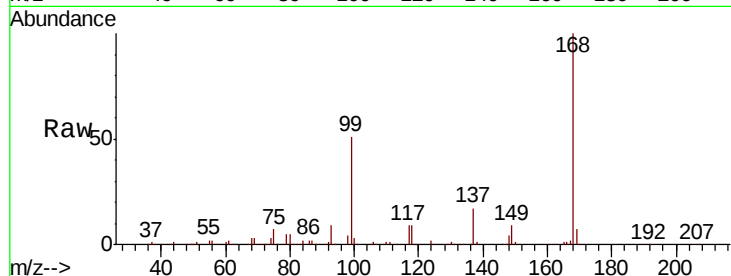
Tot Ion:117 Resp: 55329

Ion Ratio Lower Upper

117 100

119 5.5 76.3 114.5#

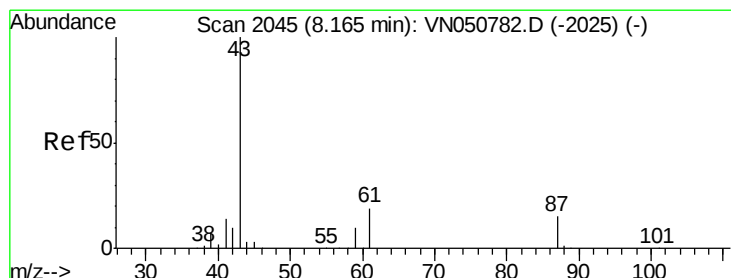
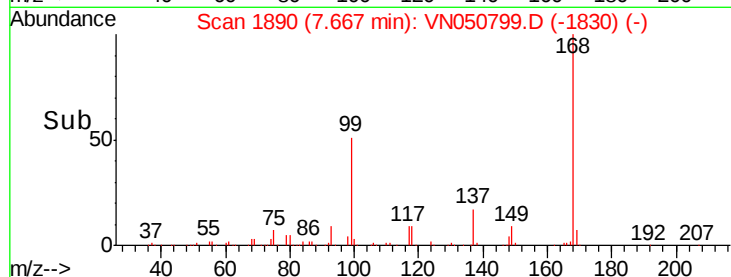
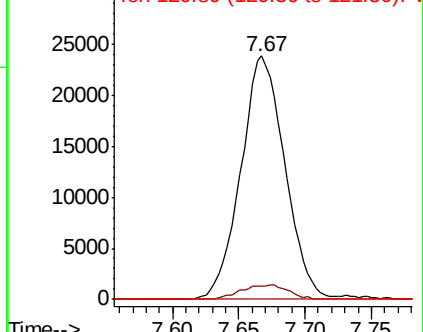
121 0.0 24.6 36.8#



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: 23.341 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

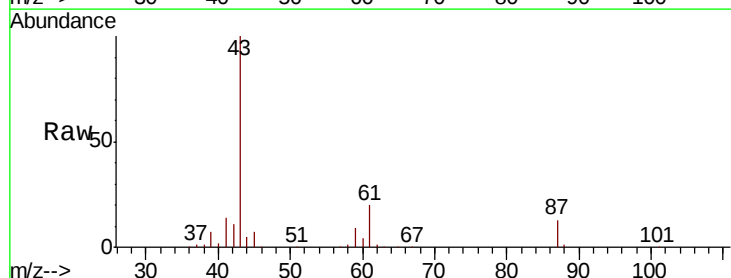
Tgt Ion: 43 Resp: 283258

Ion Ratio Lower Upper

43 100

61 18.1 17.5 26.3

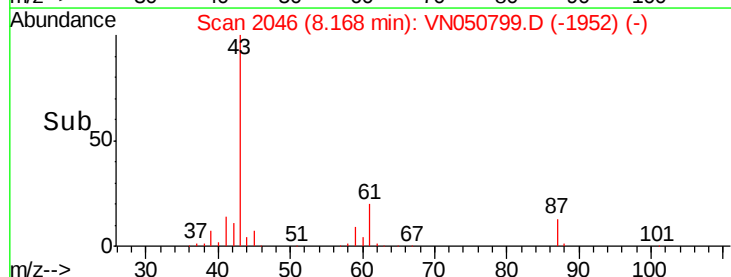
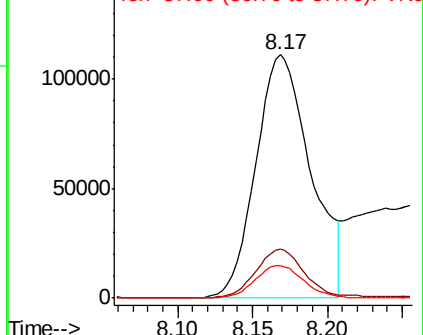
87 11.9 11.3 16.9

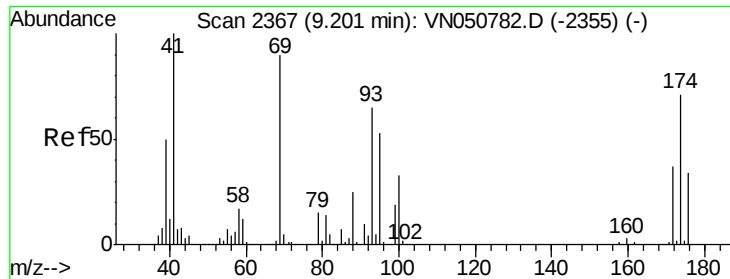


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

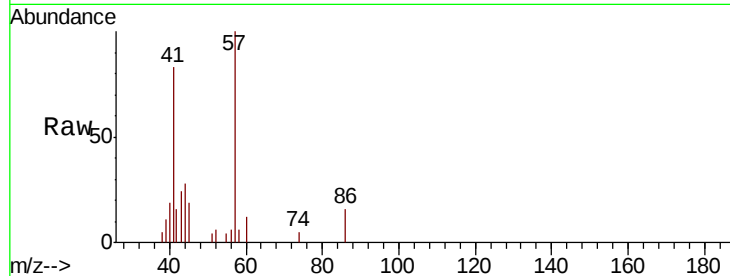




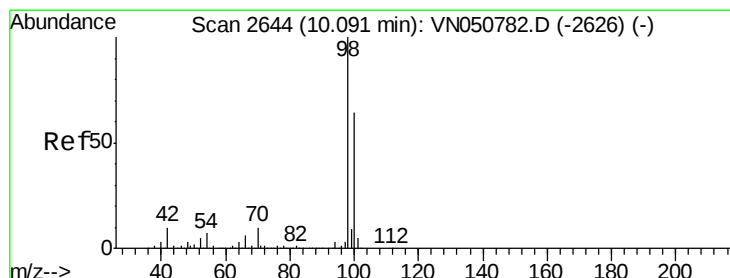
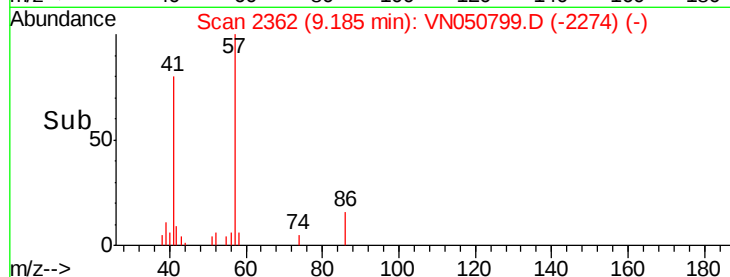
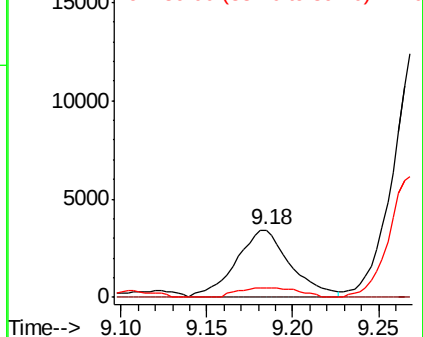
#48
Methvl methacrylate
Concen: 1.218 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050799.D
Acq: 21 Aug 2018 23:01

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#05

Tot Ion: 41 Resp: 7534
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 15.6 42.2 63.2#

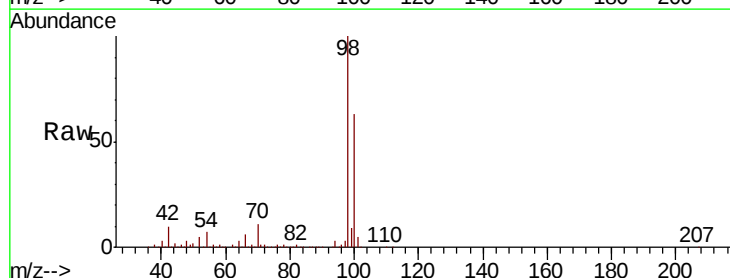


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

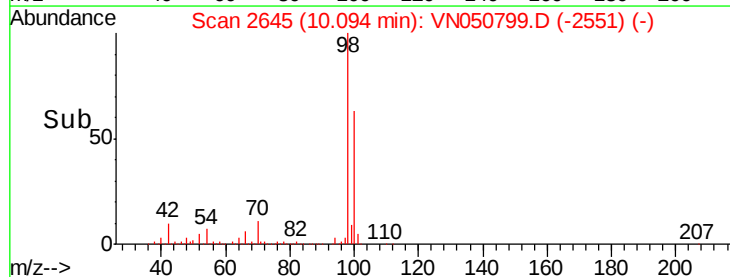
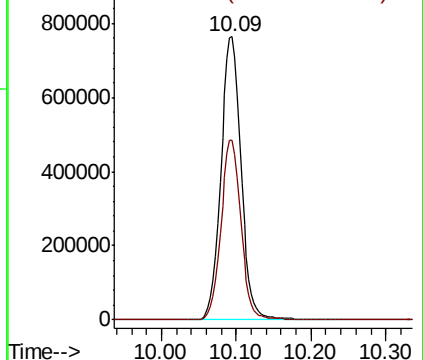


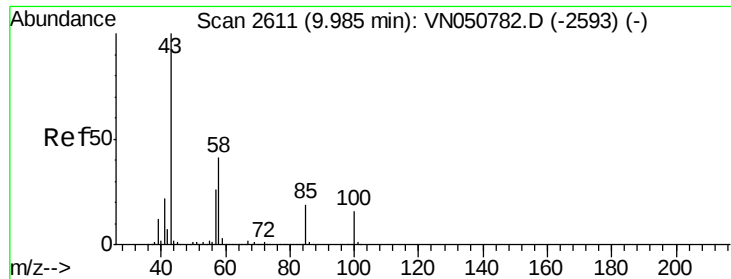
#50
Toluene-d8
Concen: 45.896 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050799.D
Acq: 21 Aug 2018 23:01

Tgt Ion: 98 Resp: 1421411
Ion Ratio Lower Upper
98 100
100 63.0 51.5 77.3



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

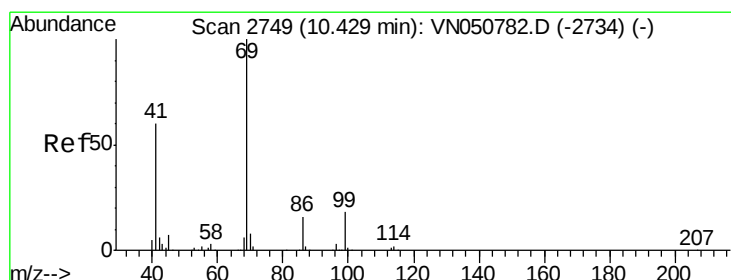
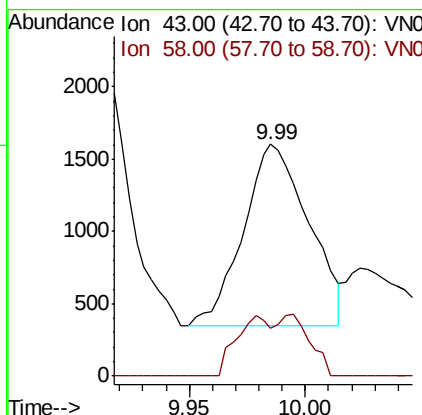
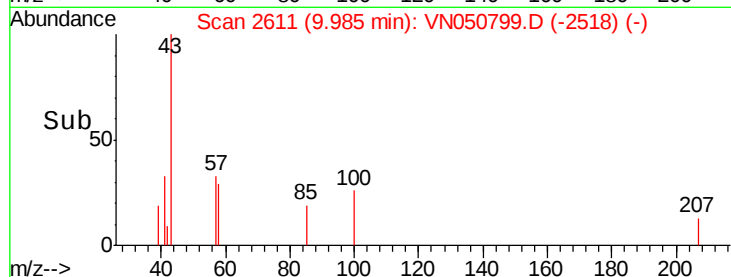
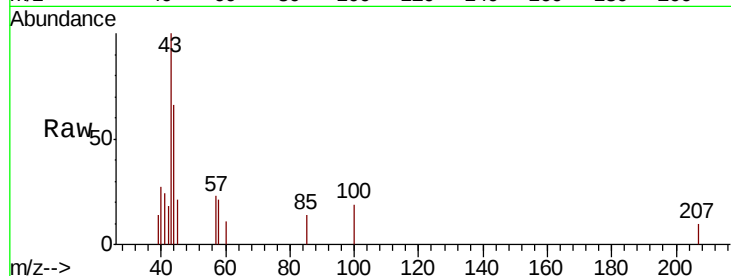




#51
 4-Methyl-2-Pentanone
 Concen: 0.341 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

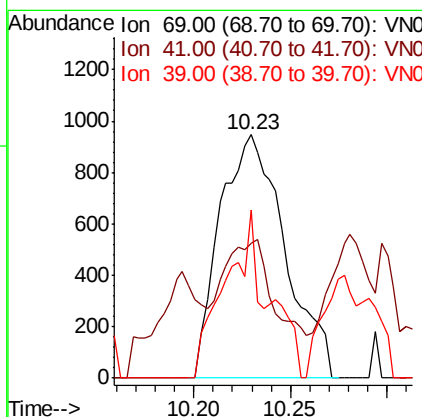
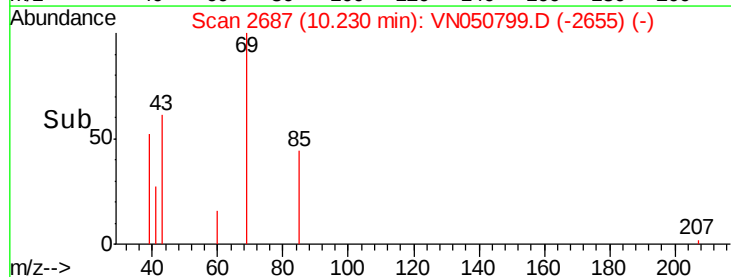
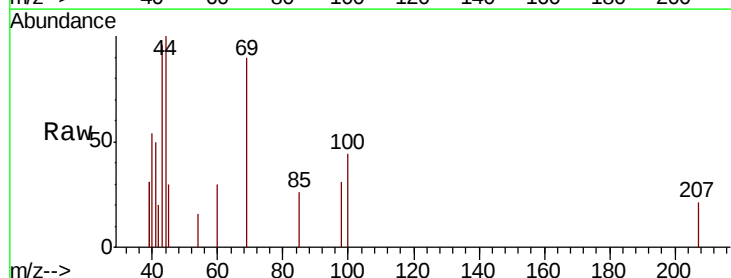
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#05

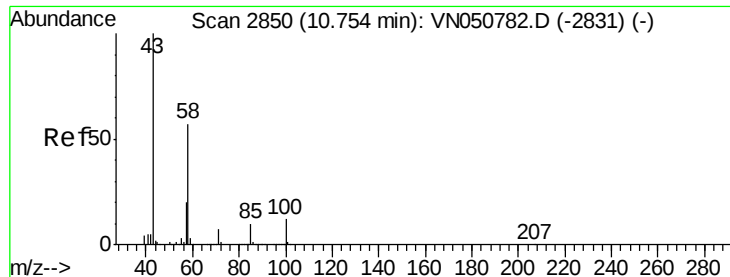
Tot Ion: 43 Resp: 2467
 Ion Ratio Lower Upper
 43 100
 58 17.3 32.4 48.6#



#56
 Ethyl methacrylate
 Concen: 2.549 ug/l
 RT: 10.23 min Scan# 2687
 Delta R.T. -0.20 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

Tgt Ion: 69 Resp: 2218
 Ion Ratio Lower Upper
 69 100
 41 49.7 48.3 72.5
 39 33.9 24.0 36.0

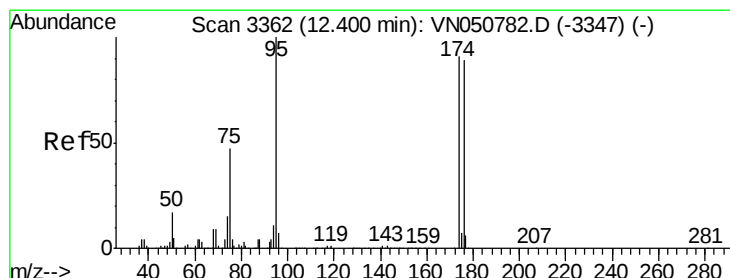
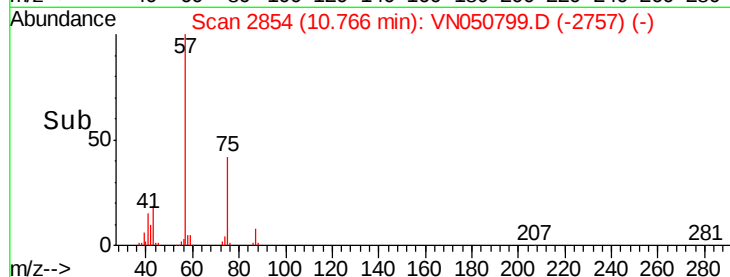
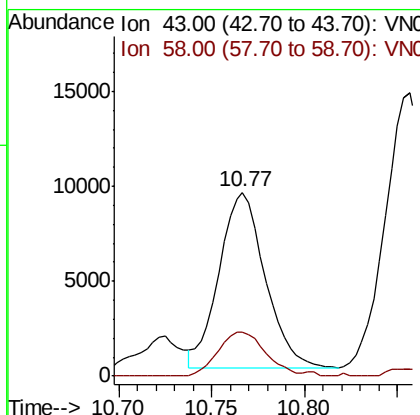
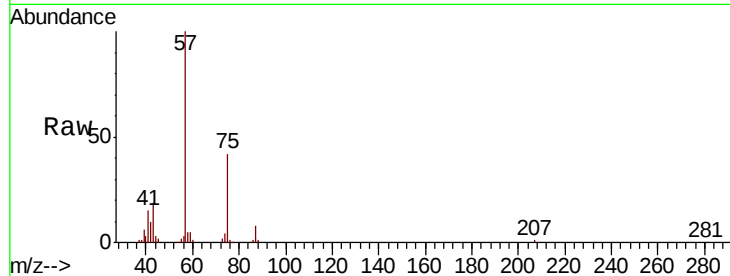




#59
2-Hexanone
Concen: 3.302 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050799.D
Acq: 21 Aug 2018 23:01

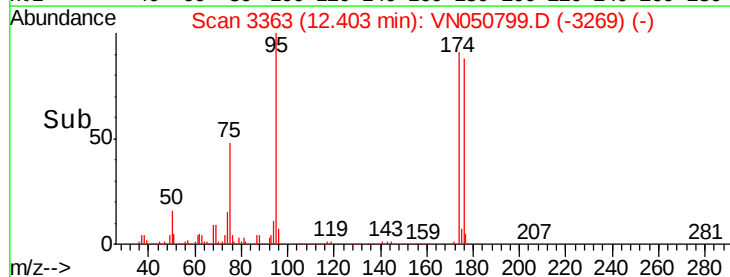
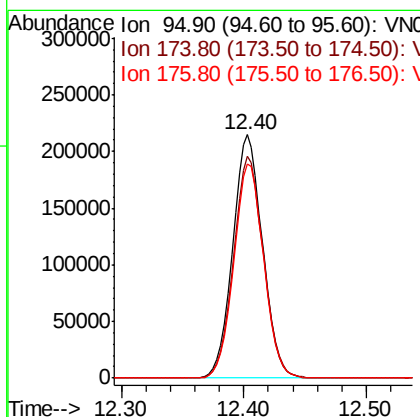
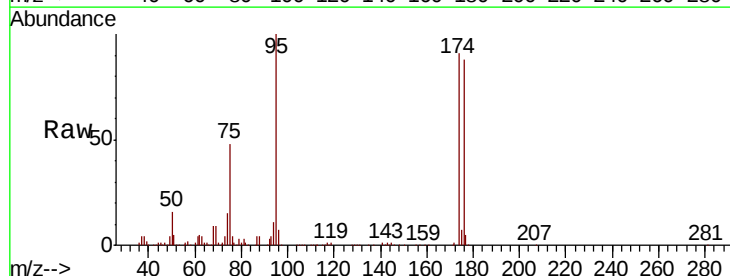
Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#05

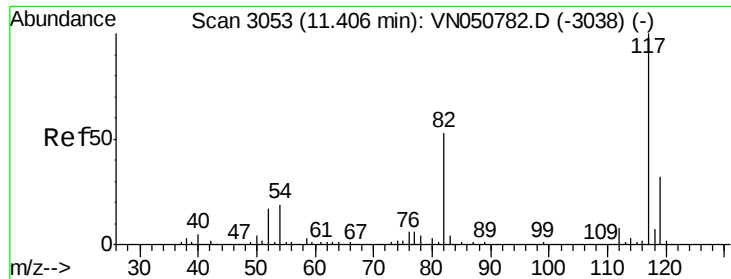
Tot Ion: 43 Resp: 15921
Ion Ratio Lower Upper
43 100
58 26.5 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 35.200 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050799.D
Acq: 21 Aug 2018 23:01

Tgt Ion: 95 Resp: 362261
Ion Ratio Lower Upper
95 100
174 91.6 0.0 183.0
176 88.4 0.0 178.8

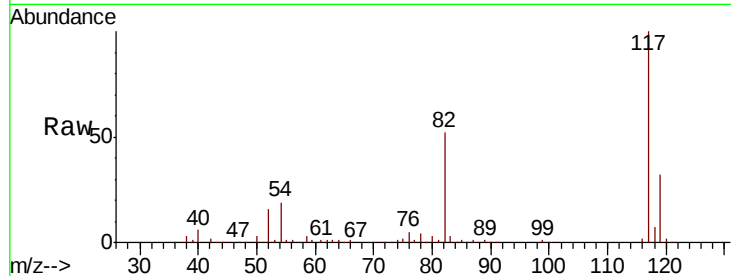




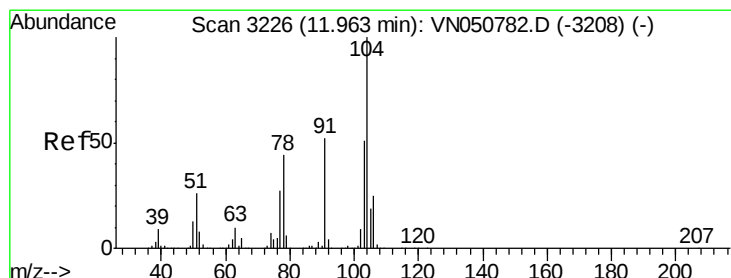
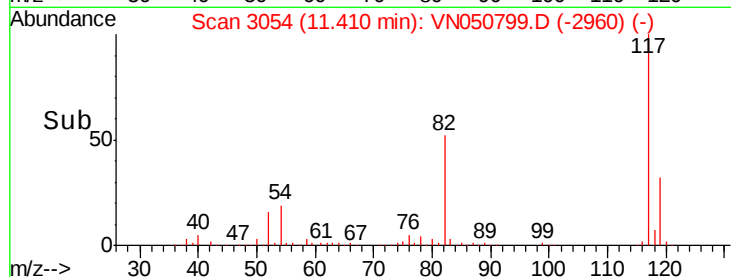
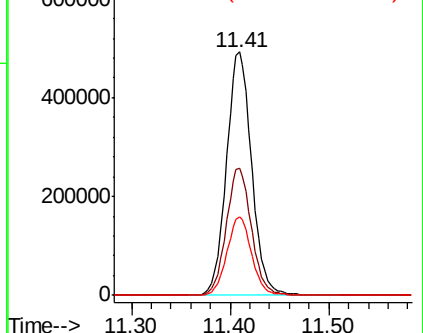
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050799.D
Acq: 21 Aug 2018 23:01

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#05

Tot Ion:117 Resp: 877129
Ion Ratio Lower Upper
117 100
82 52.3 42.6 64.0
119 32.3 25.8 38.6

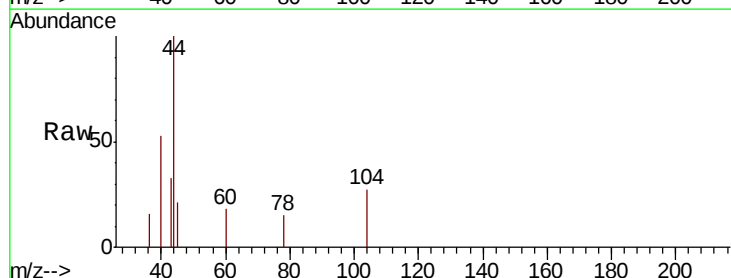


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

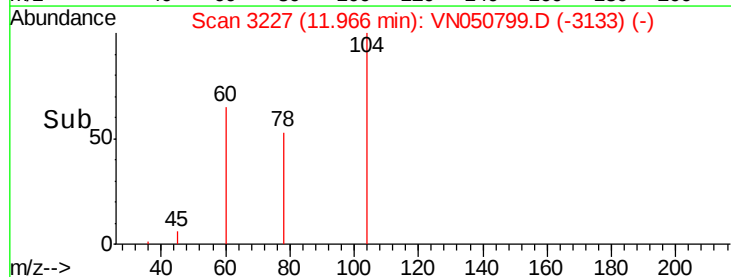
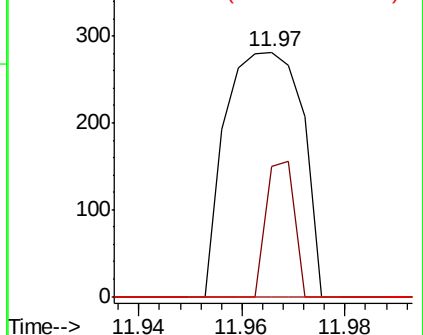


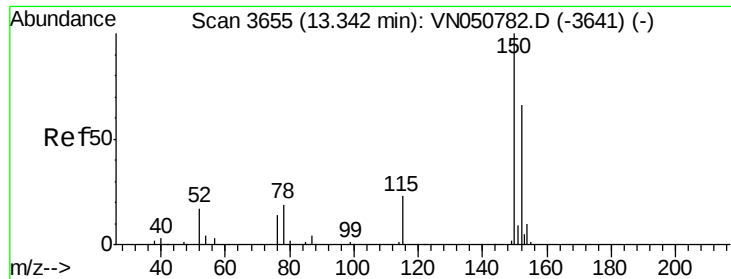
#70
Styrene
Concen: 1.282 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050799.D
Acq: 21 Aug 2018 23:01

Tgt Ion:104 Resp: 288
Ion Ratio Lower Upper
104 100
78 20.5 38.2 57.4#
103 0.0 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
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: VN050799.D

Acq: 21 Aug 2018 23:01

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#05

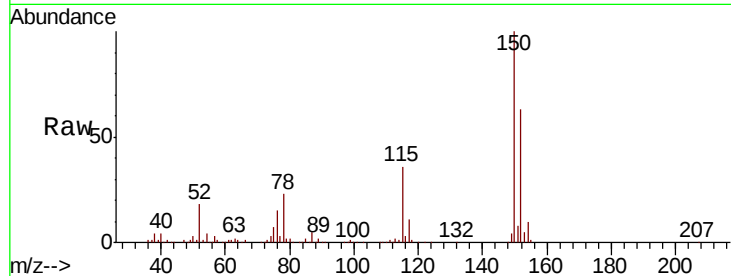
Tot Ion:152 Resp: 263833

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

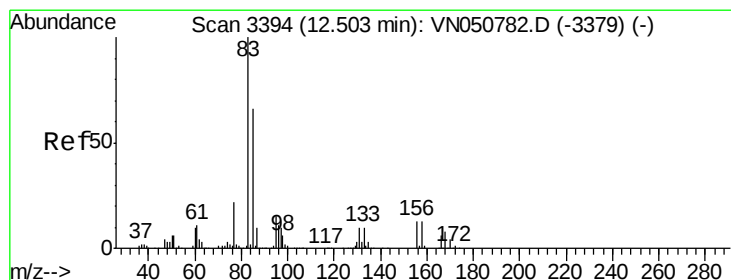
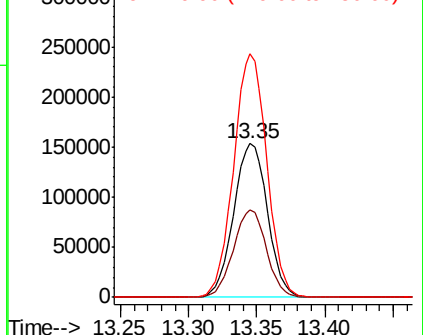
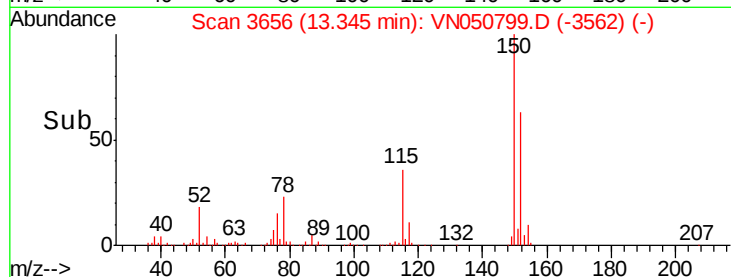
150 155.3 0.0 351.4



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: 12.49 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

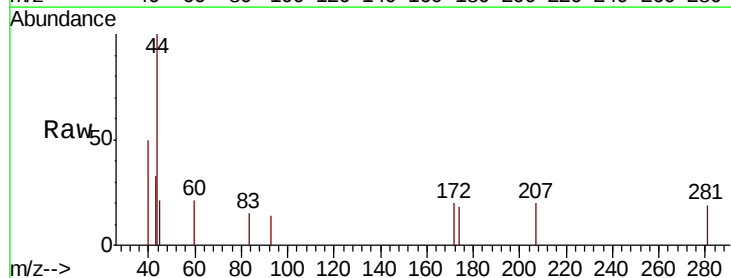
Tgt Ion: 83 Resp: 59

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

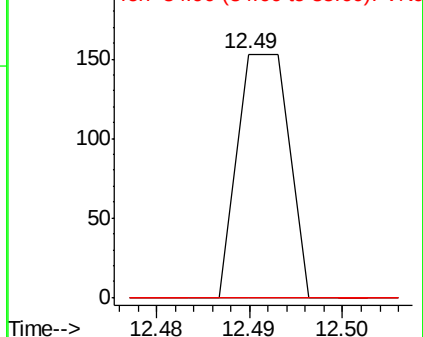
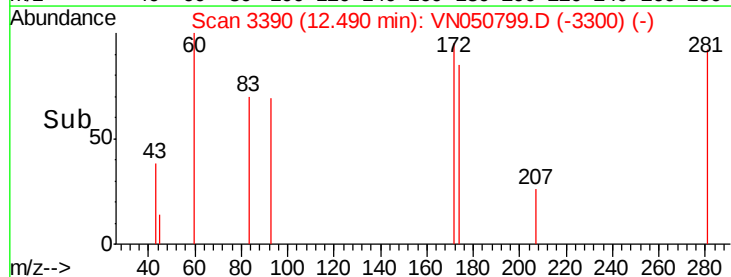
85 0.0 31.9 95.7#

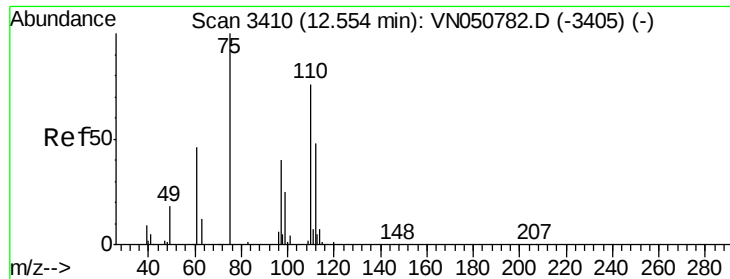


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

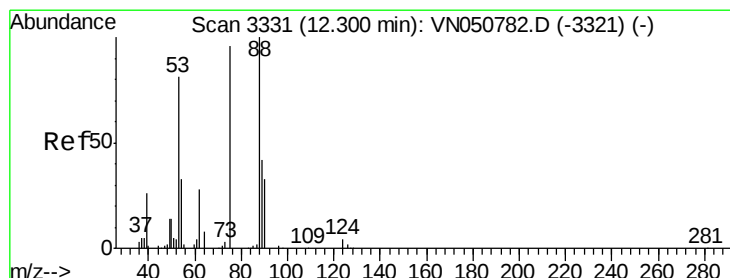
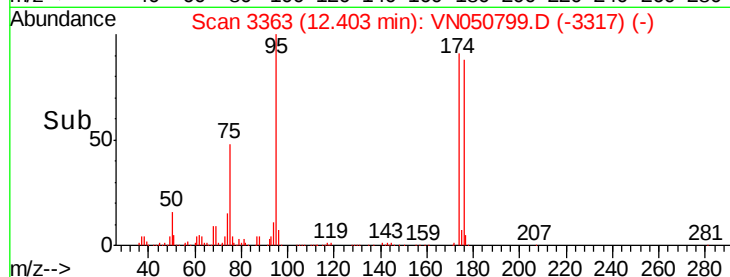
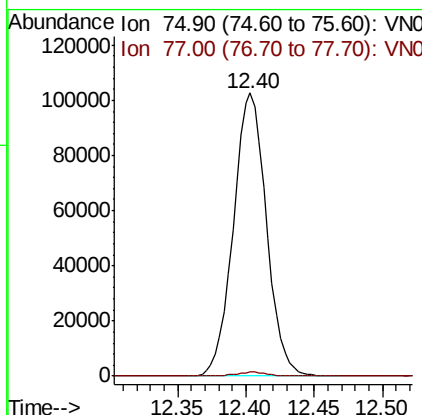
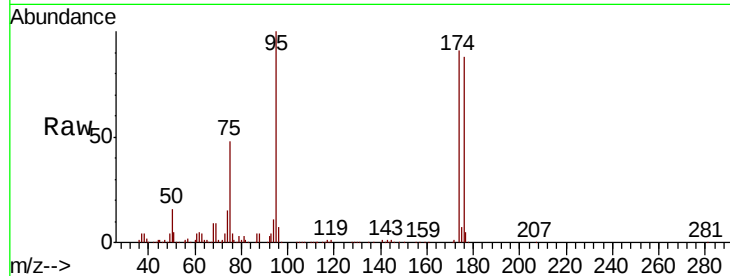




#76
 1,2,3-Trichloropropane
 Concen: 37.265 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

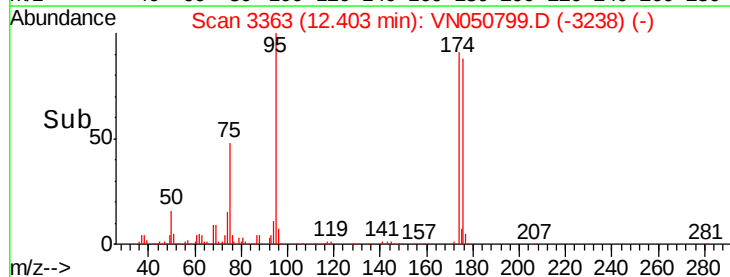
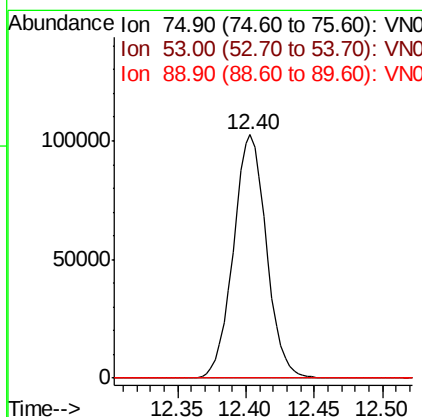
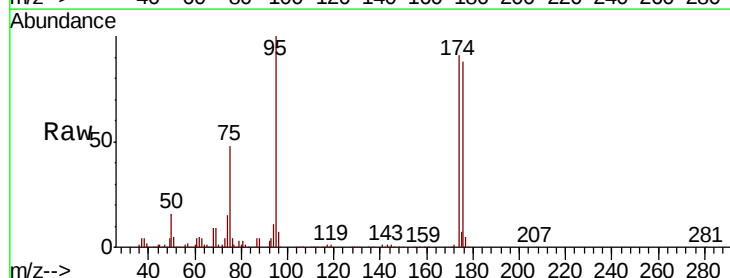
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#05

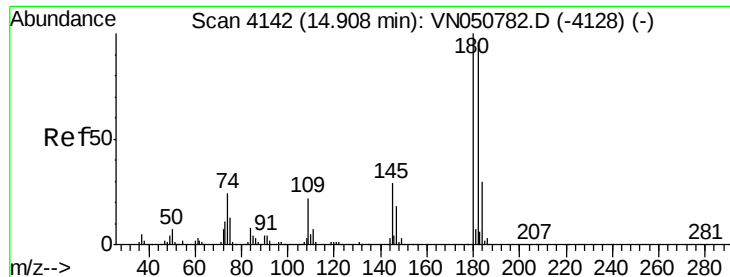
Tot Ion: 75 Resp: 172203
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 125.977 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

Tgt Ion: 75 Resp: 172203
 Ion Ratio Lower Upper
 75 100
 53 0.2 68.9 103.3#
 89 0.0 36.1 54.1#

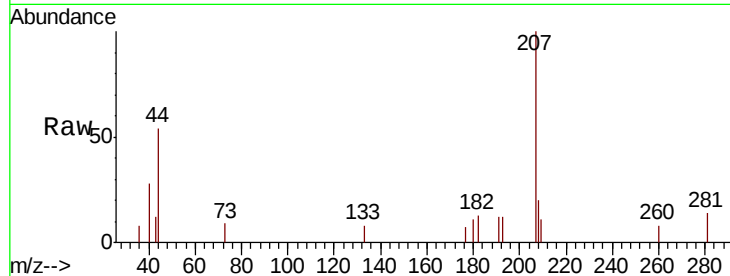




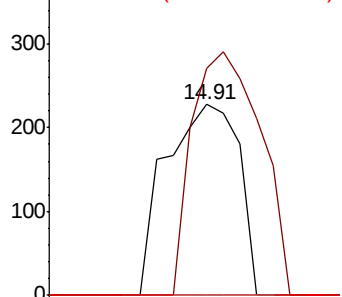
#93
 1,2,4-Trichlorobenzene
 Concen: 4.123 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#05

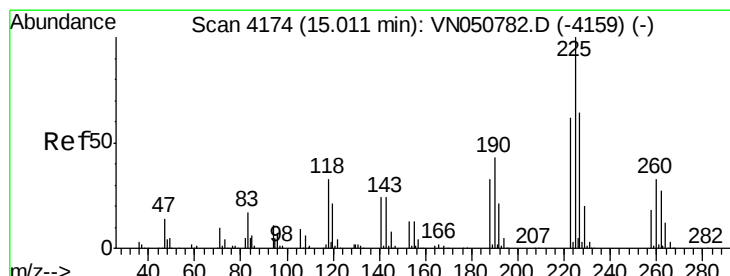
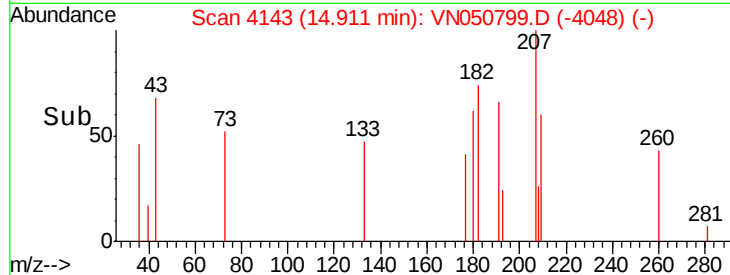
Tot Ion:180 Resp: 223
 Ion Ratio Lower Upper
 180 100
 182 119.7 48.2 144.6
 145 0.0 14.1 42.2#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

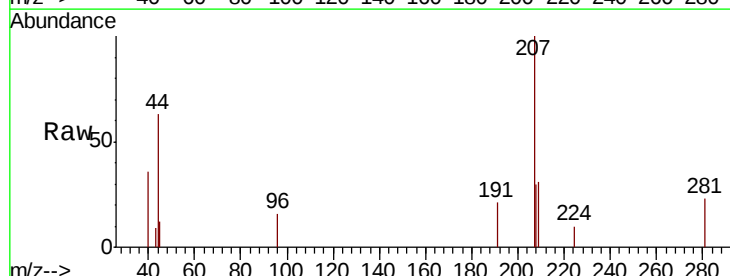


Time-->

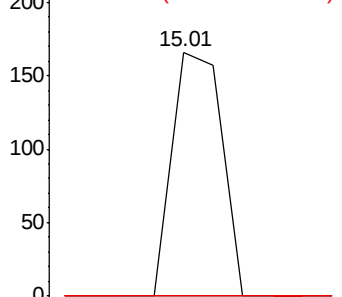


#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4173
 Delta R.T. -0.00 min
 Lab File: VN050799.D
 Acq: 21 Aug 2018 23:01

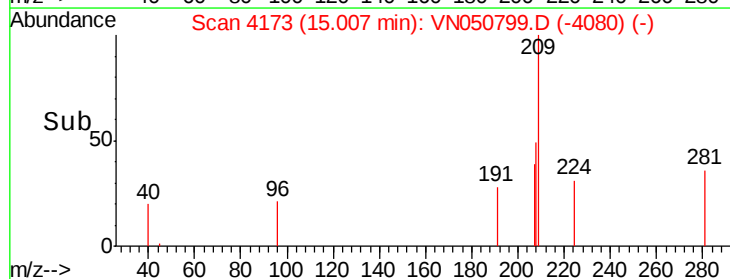
Tgt Ion:225 Resp: 62
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.3 93.8#
 227 0.0 32.0 96.2#

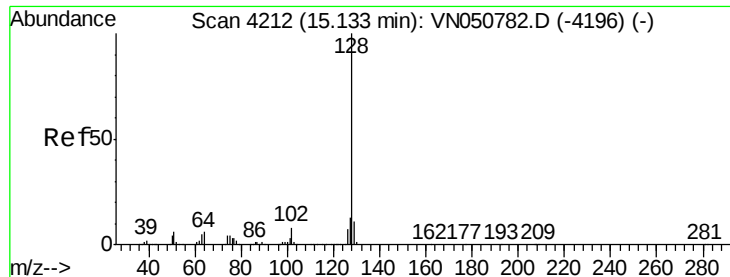


Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V



Time-->





#95

Naphthalene

Concen: 5.481 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#05

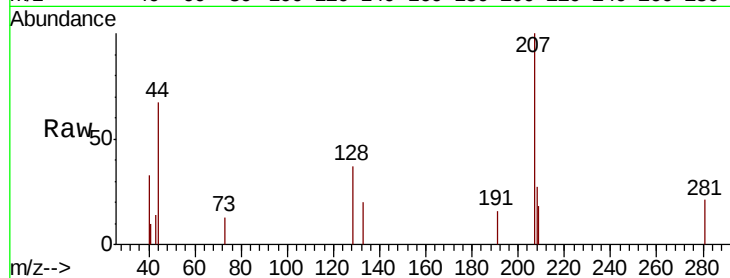
Tot Ion:128 Resp: 959

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 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

15.13

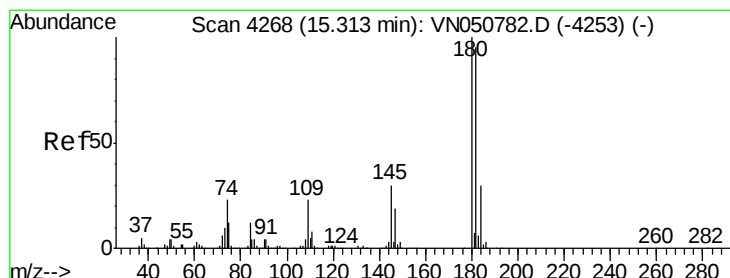
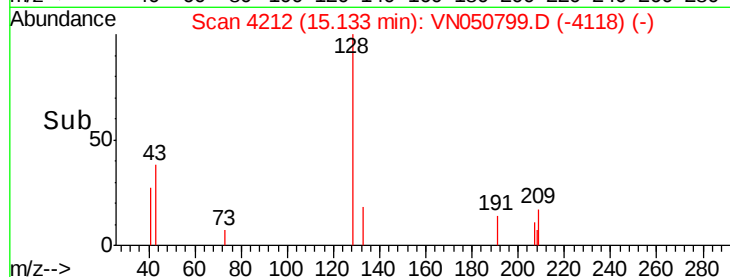
600

400

200

0

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 3.328 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050799.D

Acq: 21 Aug 2018 23:01

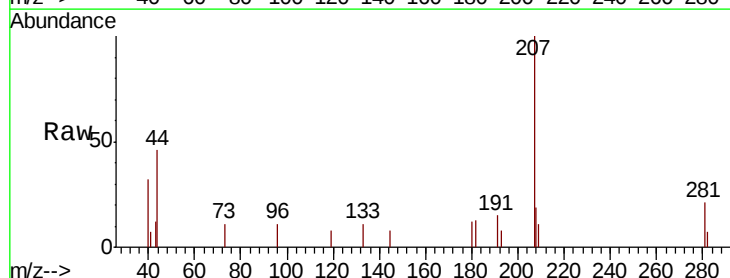
Tgt Ion:180 Resp: 162

Ion Ratio Lower Upper

180 100

182 168.5 48.0 144.2#

145 40.1 15.2 45.6



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

15.32

300

200

100

0

Time-->

