

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058217.D
 Acq On : 19 Sep 2019 20:22
 Operator : JC/SP
 Sample : K4896-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D3-20190912

Quant Time: Sep 20 04:25:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	507690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	823566	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	691755	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	276924	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	360510	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
35) Dibromofluoromethane	7.57	113	250788	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
50) Toluene-d8	10.08	98	1026307	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	
62) 4-Bromofluorobenzene	12.40	95	318938	44.02	ug/l	0.00
Spiked Amount			Recovery	=	88.04%	

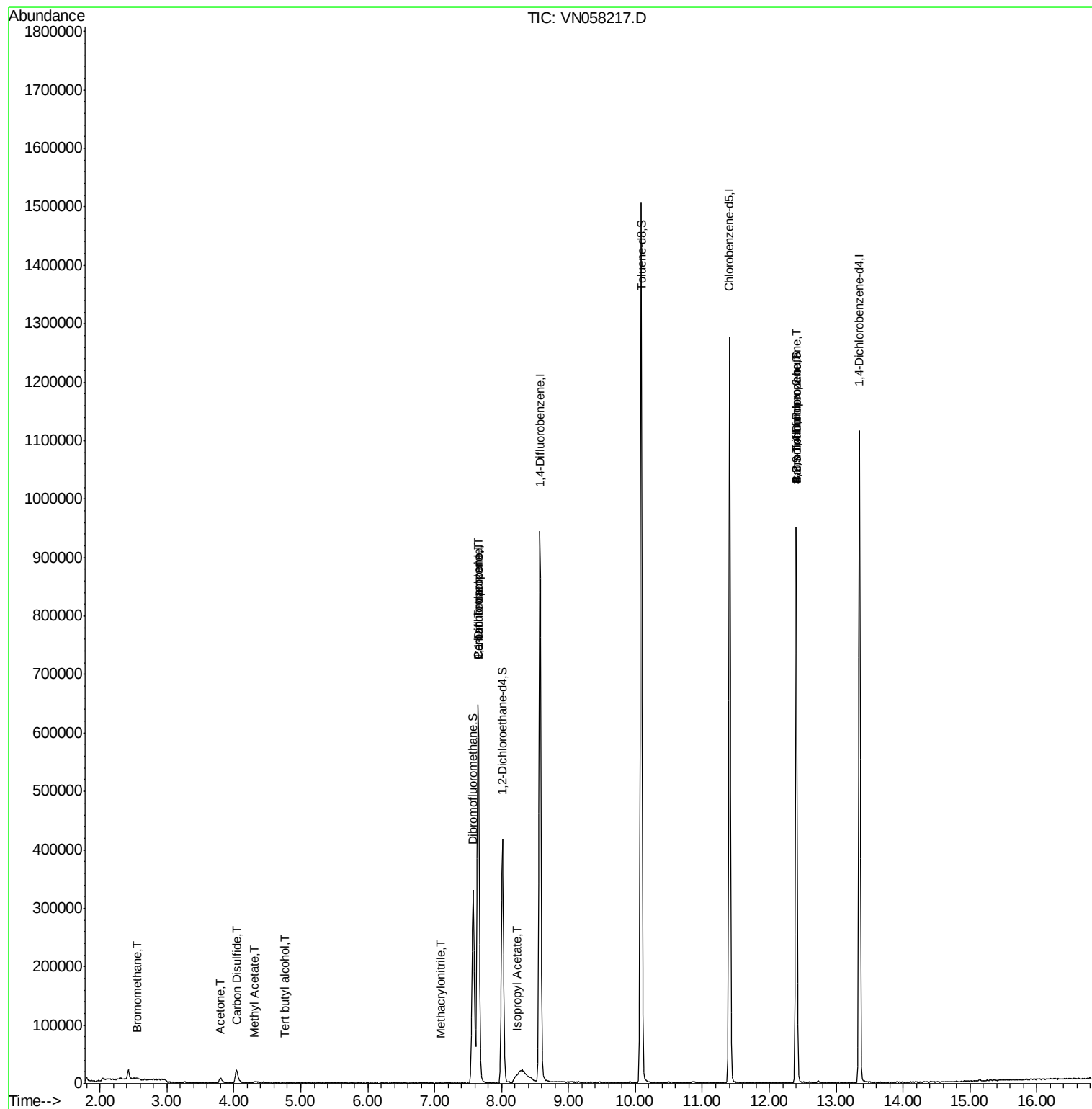
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	3034	Below Cal		92
5) Bromomethane	2.55	94	274	0.868 ug/l #		4
6) Chloroethane	2.55	64	32	Below Cal #		44
11) Tert butyl alcohol	4.75	59	217	0.258 ug/l #		71
16) Acetone	3.80	43	15749	6.561 ug/l		97
17) Carbon Disulfide	4.03	76	243	0.326 ug/l #		74
18) Methyl Acetate	4.32	43	1535	0.243 ug/l		98
20) Methylene Chloride	4.52	84	427	Below Cal #		24
31) Cyclohexane	7.64	56	12410	Below Cal #		5
36) 1,1-Dichloropropene	7.65	75	43693	7.357 ug/l #		51
38) Carbon Tetrachloride	7.65	117	52935	8.867 ug/l #		15
41) Methacrylonitrile	7.08	41	69	0.933 ug/l #		100
43) Isopropyl Acetate	8.22	43	12890	1.120 ug/l #		57
71) Bromoform	12.40	173	1009	3.881 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	176924	35.698 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	176924	99.746 ug/l #		5

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

Instrument :

MSVOA_N

ClientSampleId :

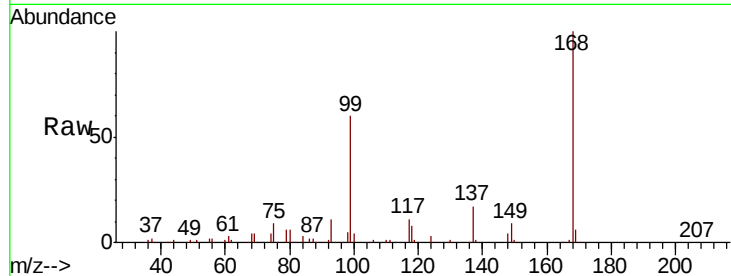
RE104D3-20190912

Tot Ion:168 Resp: 507690

Ion Ratio Lower Upper

168 100

99 60.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN058155.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058155.D (-1808) (-)

7.65

250000

200000

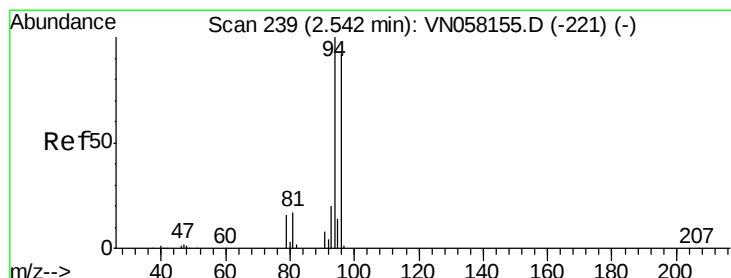
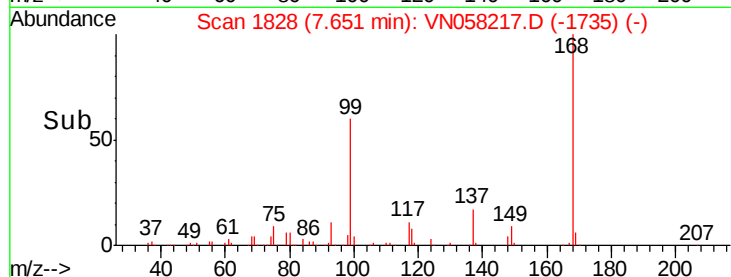
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.868 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN058217.D

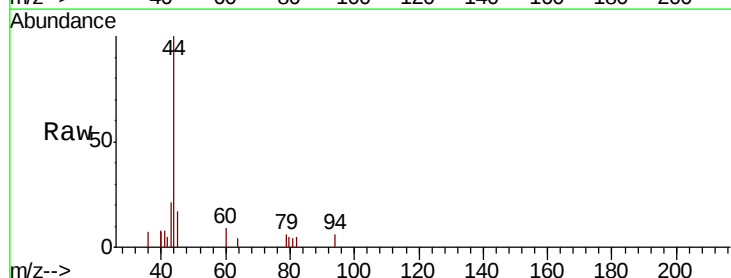
Acq: 19 Sep 2019 20:22

Tgt Ion: 94 Resp: 274

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN058155.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN058155.D (-221) (-)

2.55

300

250

200

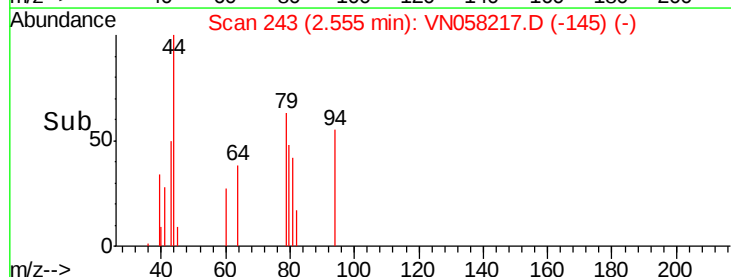
150

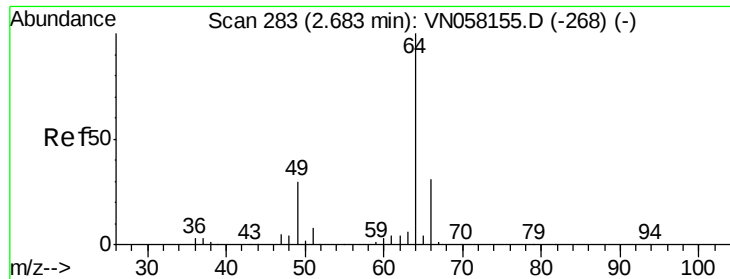
100

50

0

Time--> 2.54 2.56 2.58





#6

Chloroethane

Concen: Below Cal

RT: 2.55 min Scan# 243

Delta R.T. -0.13 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

Instrument :

MSVOA_N

ClientSampleId :

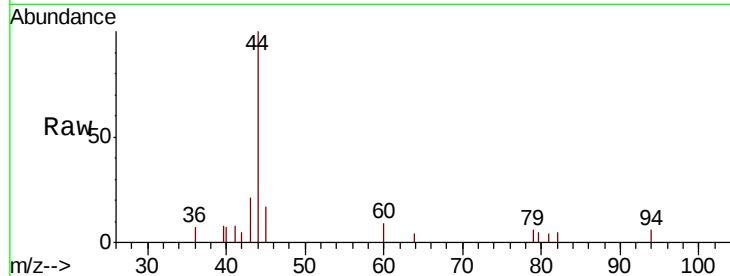
RE104D3-20190912

Tot Ion: 64 Resp: 32

Ion Ratio Lower Upper

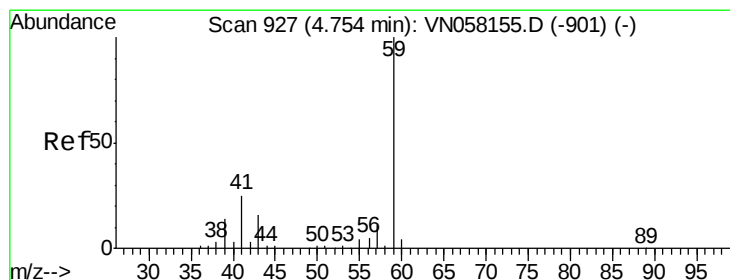
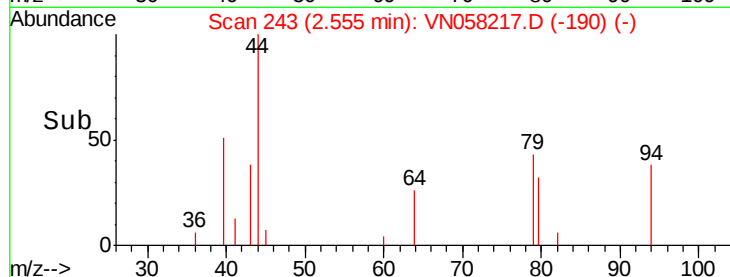
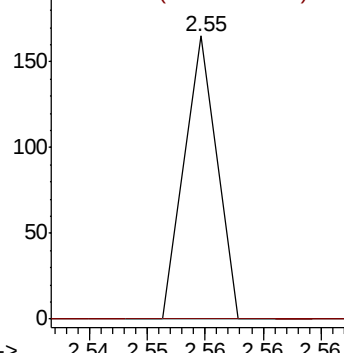
64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#11

Tert butyl alcohol

Concen: 0.258 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.00 min

Lab File: VN058217.D

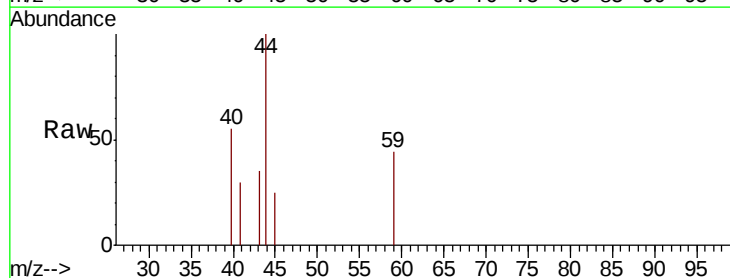
Acq: 19 Sep 2019 20:22

Tgt Ion: 59 Resp: 217

Ion Ratio Lower Upper

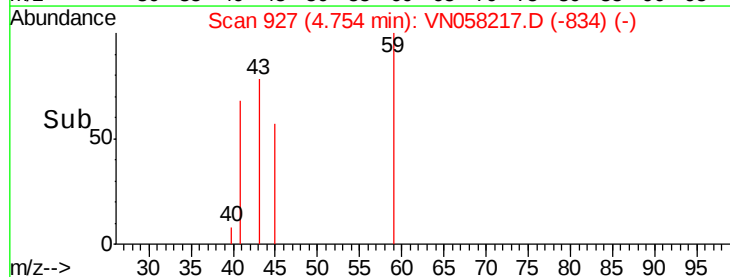
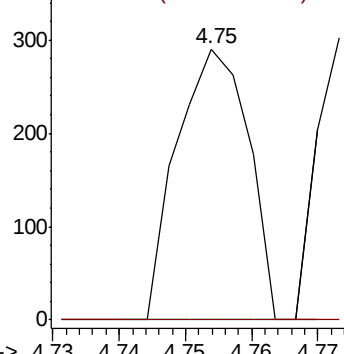
59 100

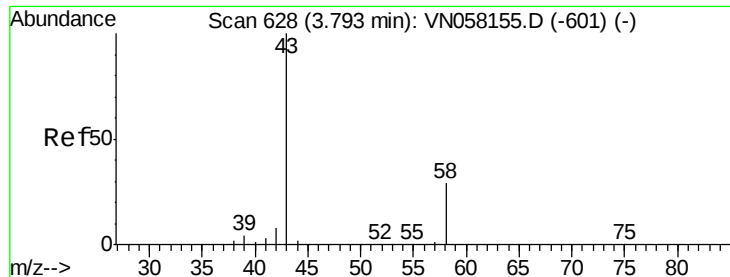
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 6.561 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

Instrument :

MSVOA_N

ClientSampleId :

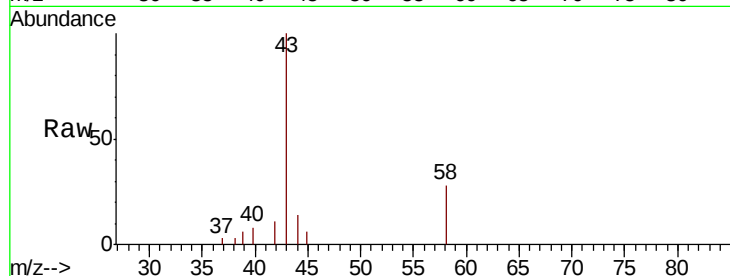
RE104D3-20190912

Tot Ion: 43 Resp: 15749

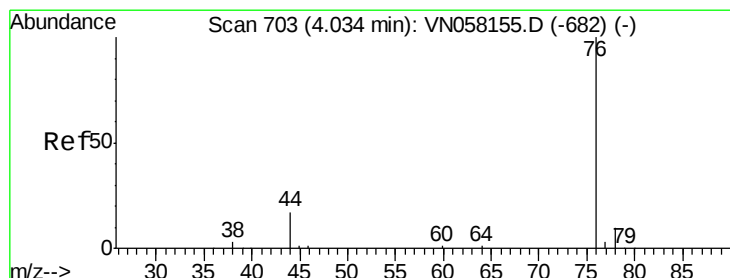
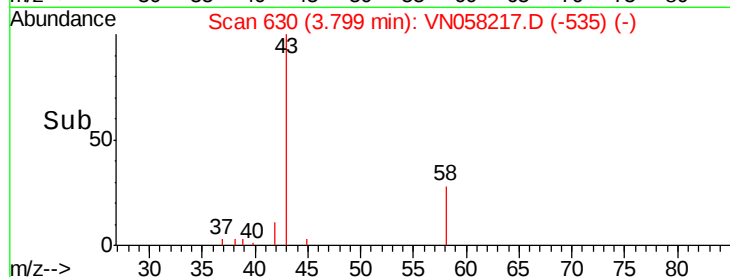
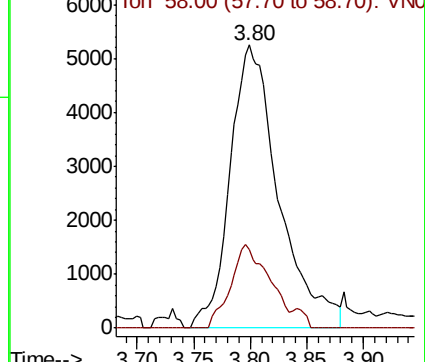
Ion Ratio Lower Upper

43 100

58 27.8 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN058217.D (-535) (-)



#17

Carbon Disulfide

Concen: 0.326 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058217.D

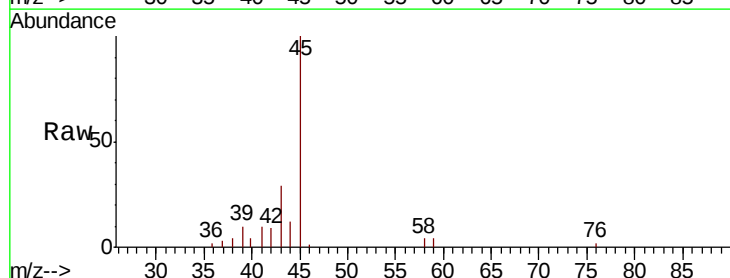
Acq: 19 Sep 2019 20:22

Tgt Ion: 76 Resp: 243

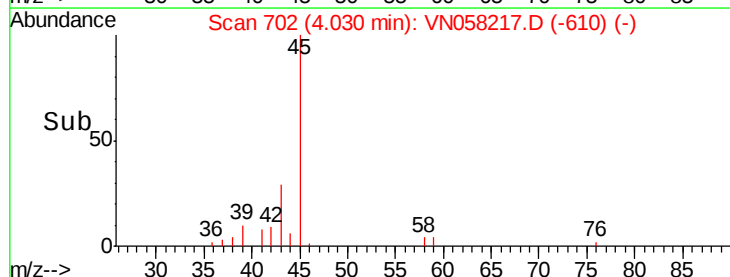
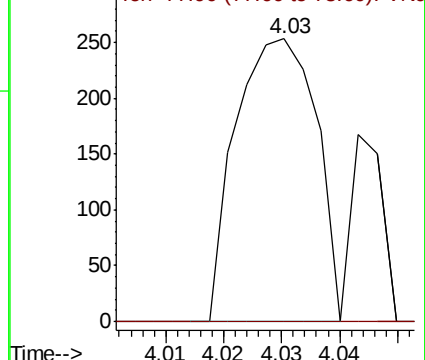
Ion Ratio Lower Upper

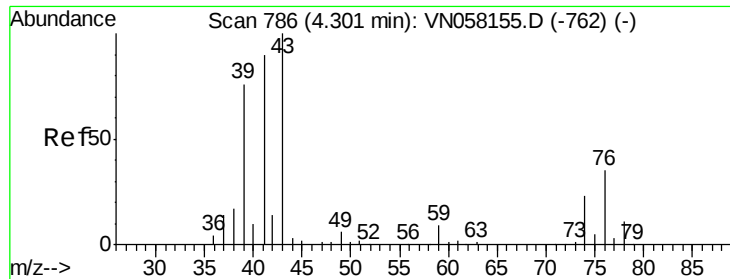
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN058217.D (-610) (-)

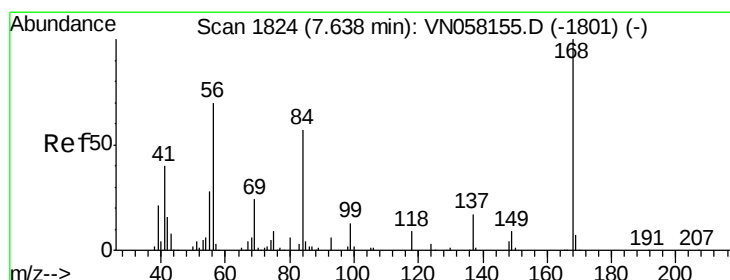
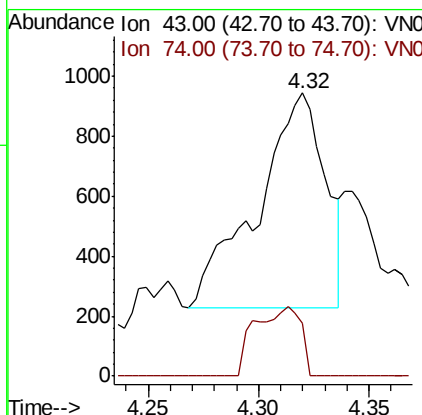
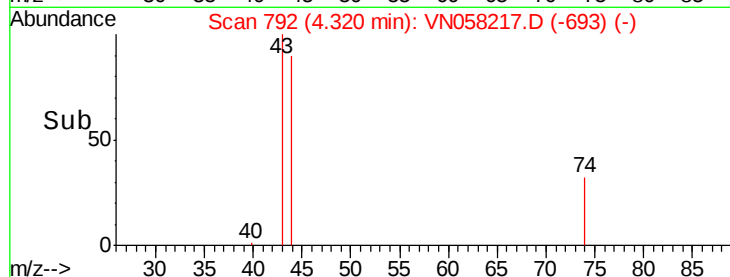
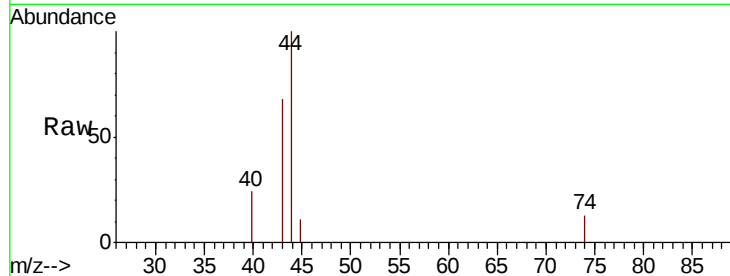




#18
Methyl Acetate
Concen: 0.243 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN058217.D
Acq: 19 Sep 2019 20:22

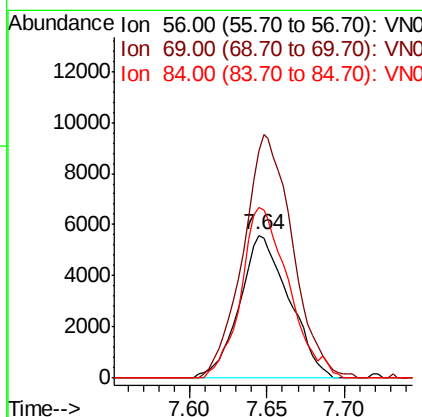
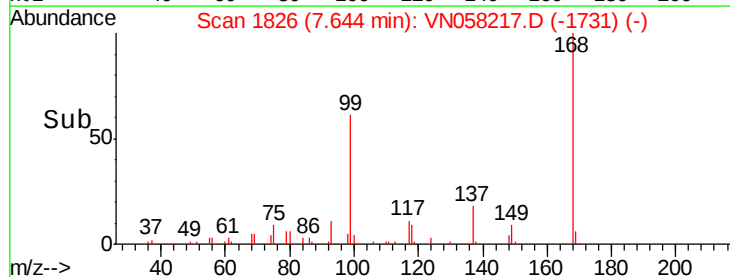
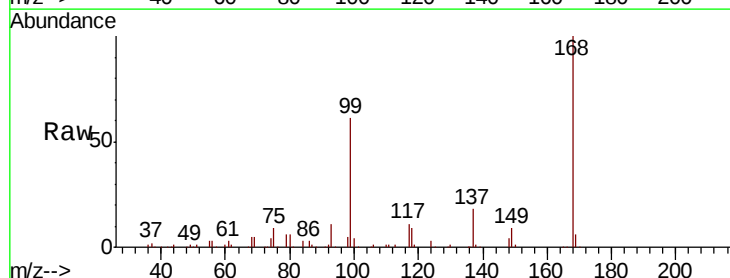
Instrument :
MSVOA_N
ClientSampleId :
RE104D3-20190912

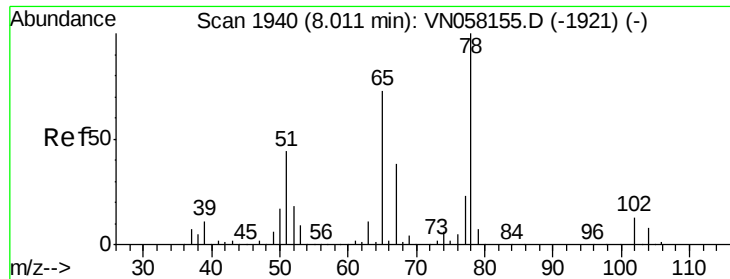
Tot Ion: 43 Resp: 1535
Ion Ratio Lower Upper
43 100
74 21.7 18.0 27.0



#31
Cyclohexane
Concen: Below Cal
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058217.D
Acq: 19 Sep 2019 20:22

Tgt Ion: 56 Resp: 12410
Ion Ratio Lower Upper
56 100
69 159.1 27.3 40.9#
84 119.3 65.0 97.4#

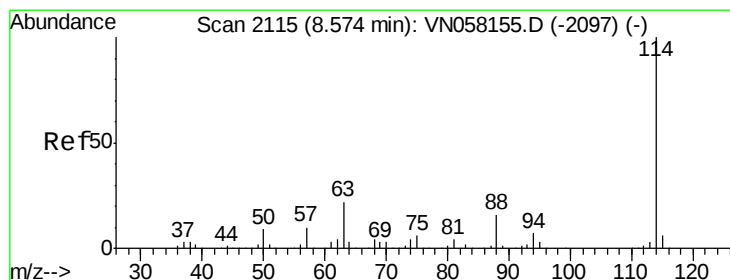
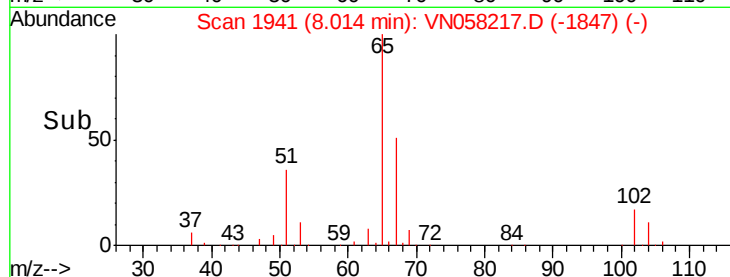
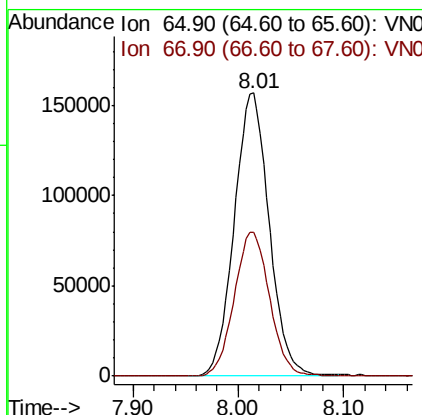
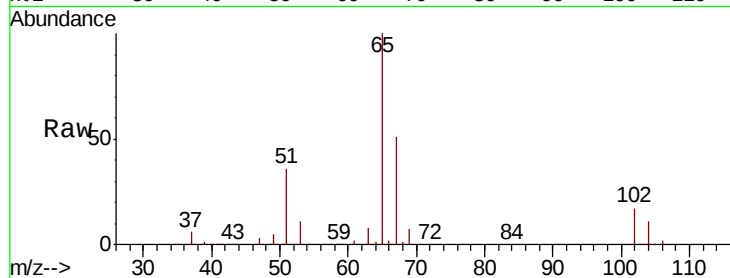




#33
 1,2-Dichloroethane-d4
 Concen: 50.984 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058217.D
 Acq: 19 Sep 2019 20:22

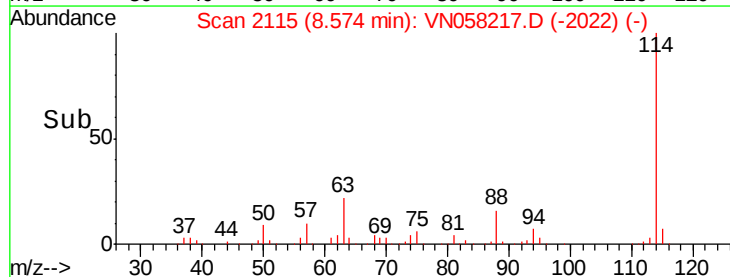
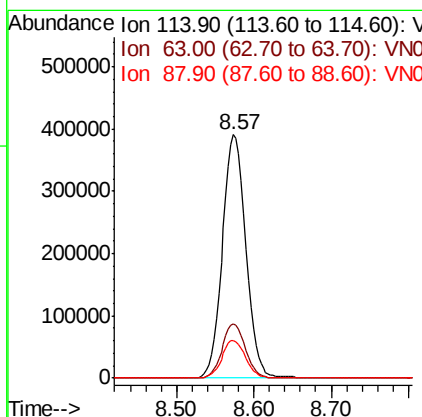
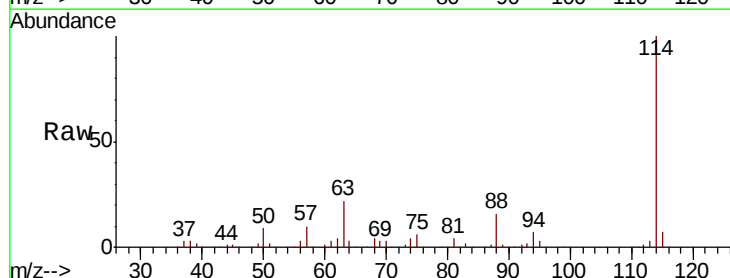
Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D3-20190912

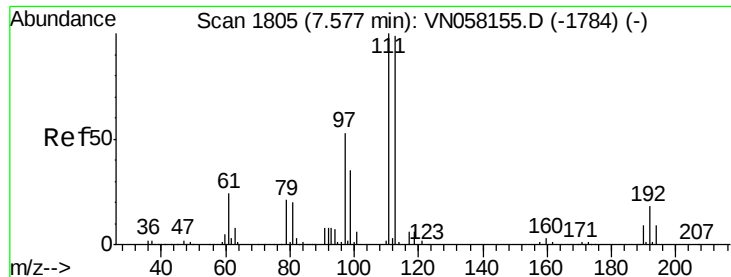
Tot Ion: 65 Resp: 360510
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058217.D
 Acq: 19 Sep 2019 20:22

Tgt Ion: 114 Resp: 823566
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.2
 88 15.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 50.091 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

Instrument :

MSVOA_N

ClientSampleId :

RE104D3-20190912

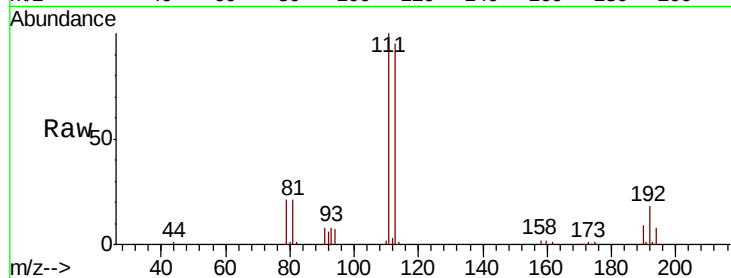
Tot Ion:113 Resp: 250788

Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.6

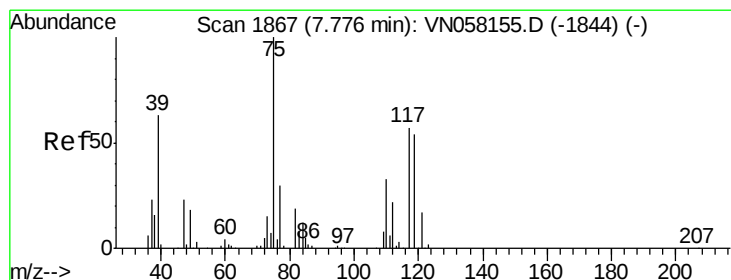
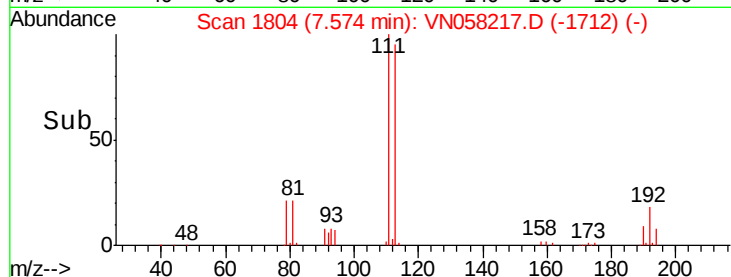
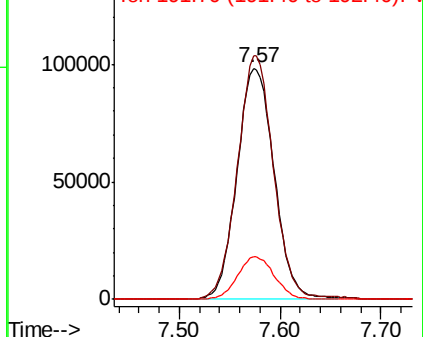
192 18.5 14.5 21.7



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: 7.357 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

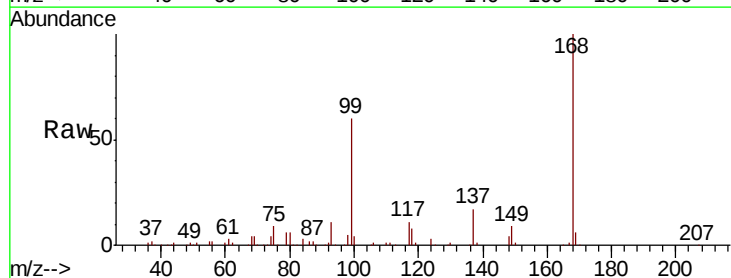
Tgt Ion: 75 Resp: 43693

Ion Ratio Lower Upper

75 100

110 8.7 16.6 49.7#

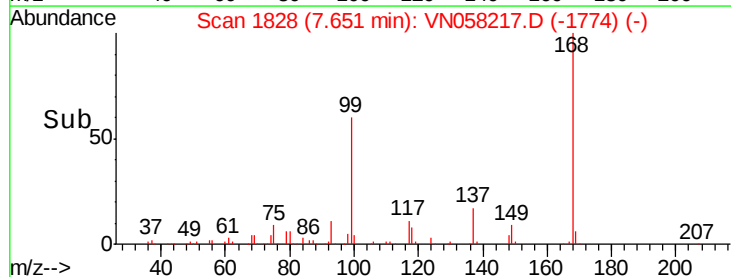
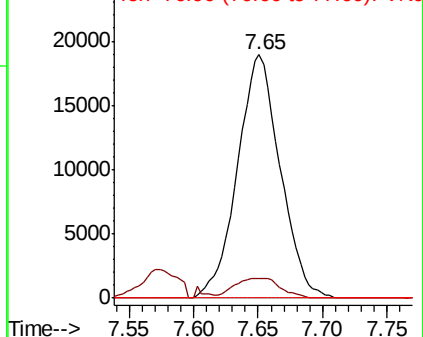
77 0.0 24.3 36.5#

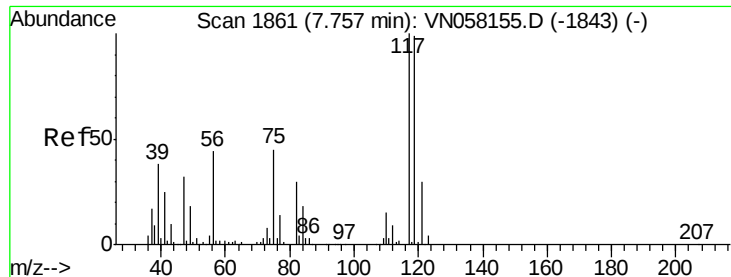


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 8.867 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

Instrument :

MSVOA_N

ClientSampleId :

RE104D3-20190912

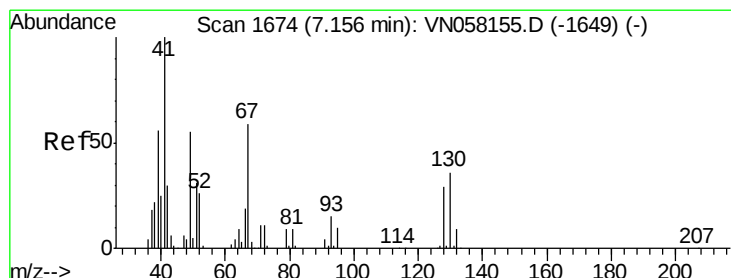
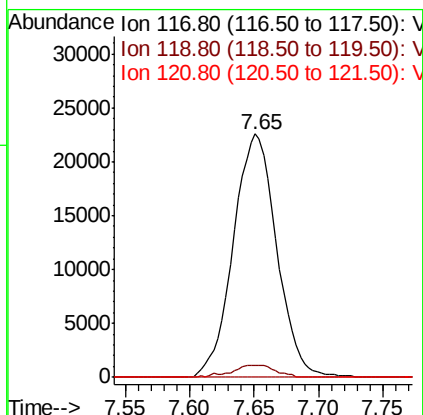
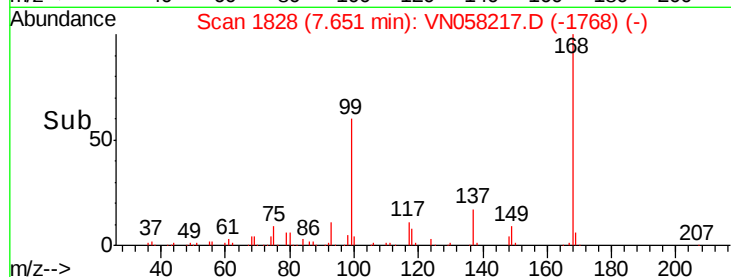
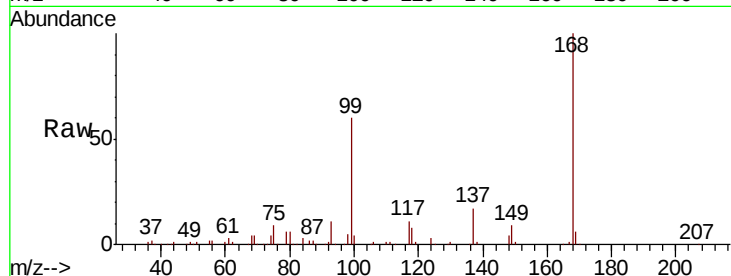
Tot Ion:117 Resp: 52935

Ion Ratio Lower Upper

117 100

119 4.8 78.6 117.8#

121 0.0 24.1 36.1#



#41

Methacrylonitrile

Concen: 0.933 ug/l

RT: 7.08 min Scan# 1651

Delta R.T. -0.07 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

Tgt Ion: 41 Resp: 69

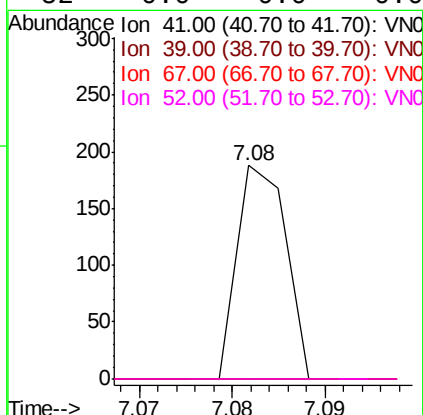
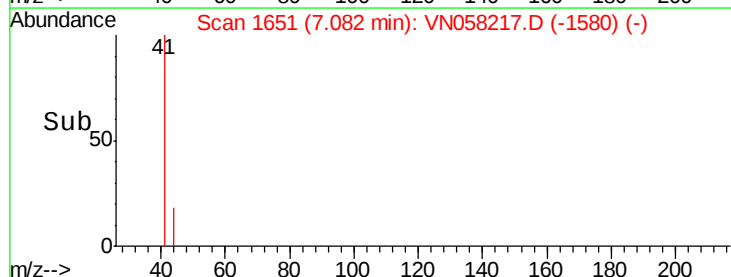
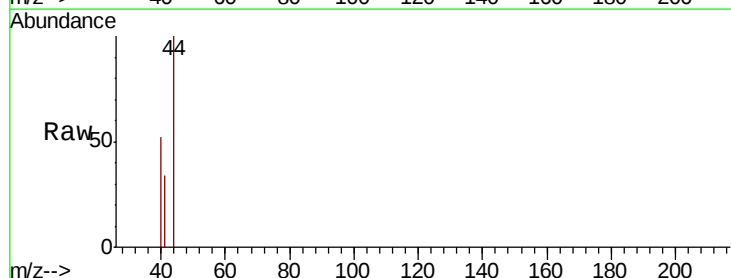
Ion Ratio Lower Upper

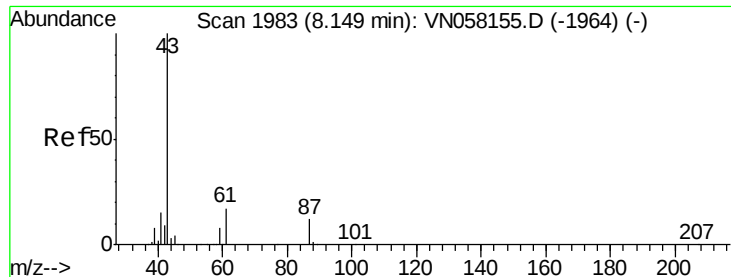
41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 1.120 ug/l

RT: 8.22 min Scan# 2005

Delta R.T. 0.07 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

Instrument :

MSVOA_N

ClientSampleId :

RE104D3-20190912

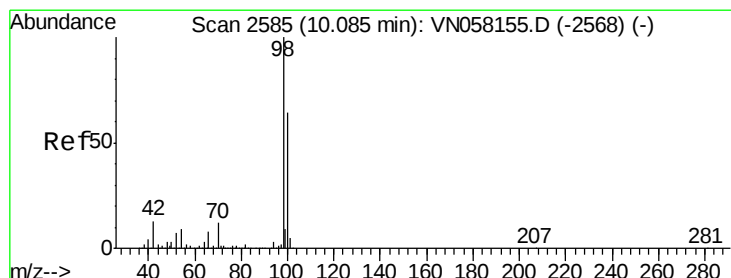
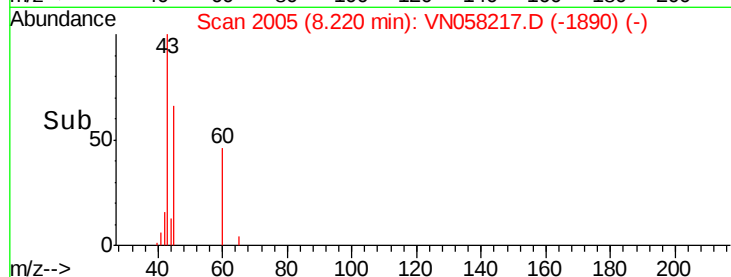
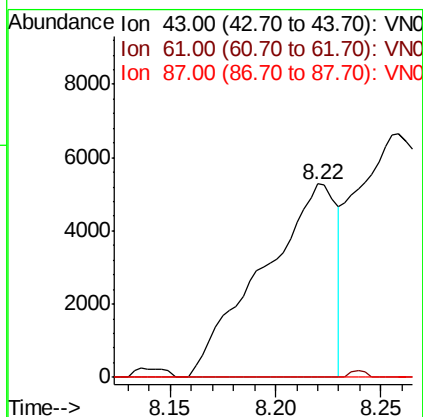
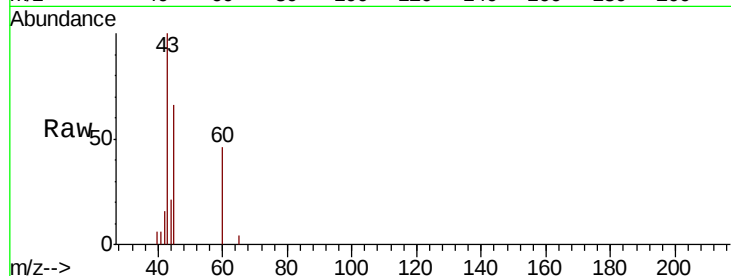
Tot Ion: 43 Resp: 12890

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#50

Toluene-d8

Concen: 52.613 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058217.D

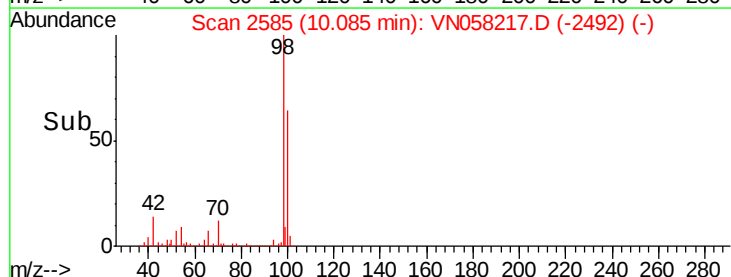
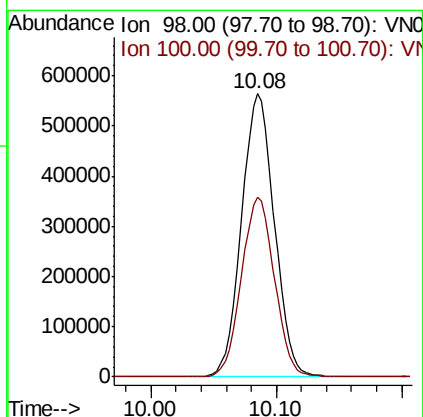
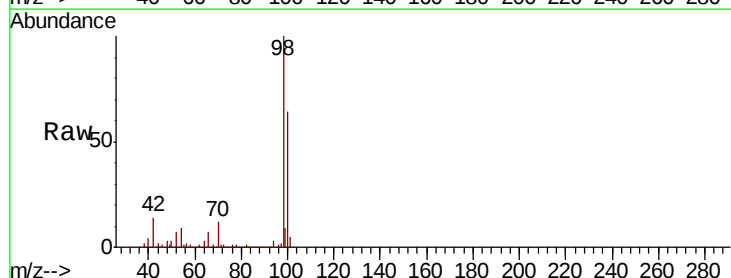
Acq: 19 Sep 2019 20:22

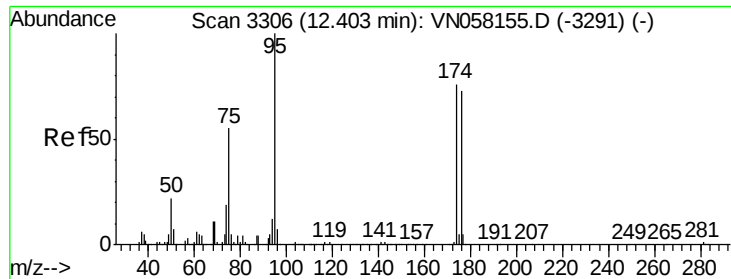
Tgt Ion: 98 Resp: 1026307

Ion Ratio Lower Upper

98 100

100 64.1 51.1 76.7

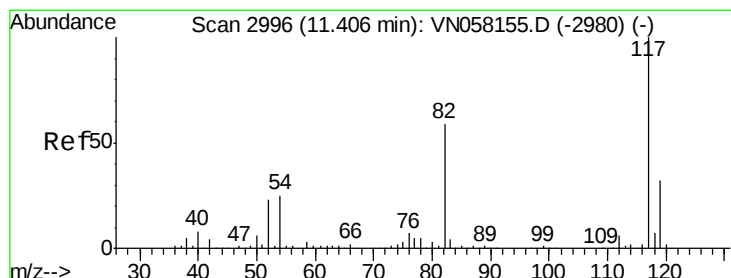
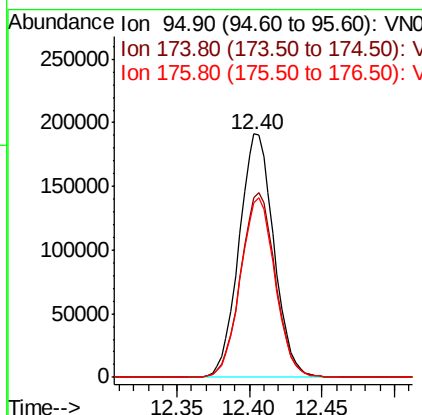
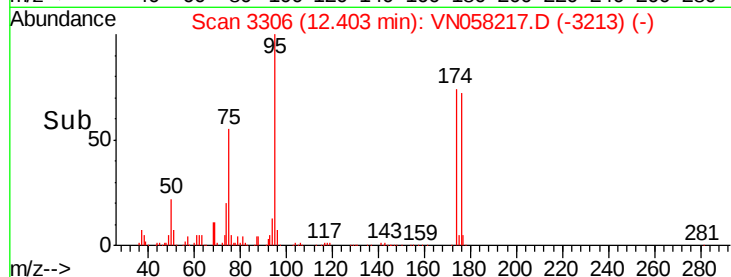
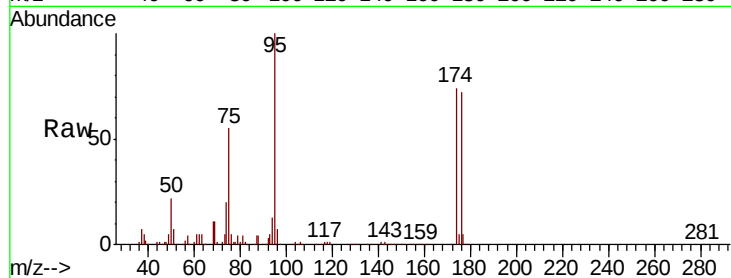




#62
4-Bromofluorobenzene
Concen: 44.016 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058217.D
Acq: 19 Sep 2019 20:22

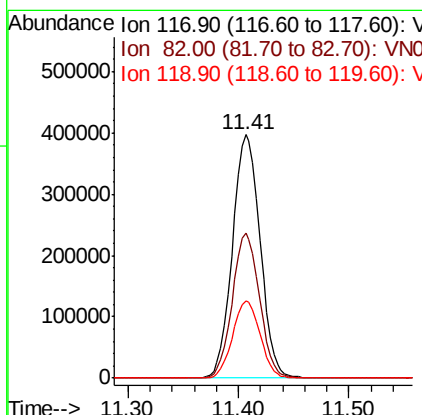
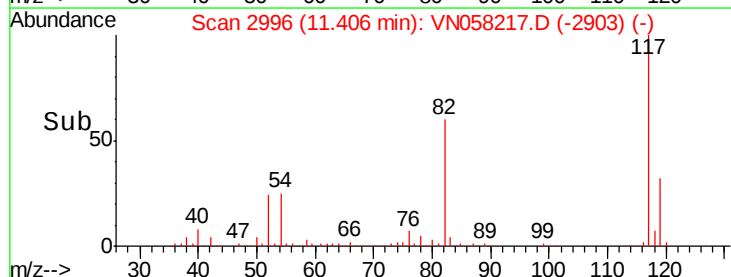
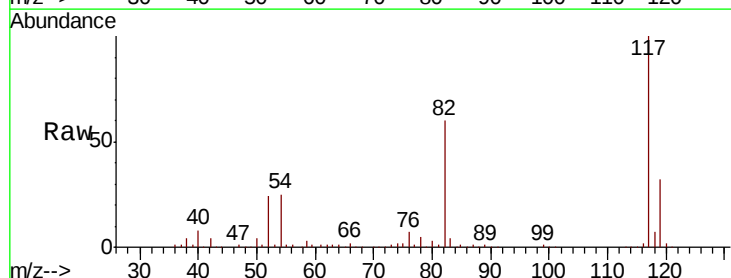
Instrument :
MSVOA_N
ClientSampleId :
RE104D3-20190912

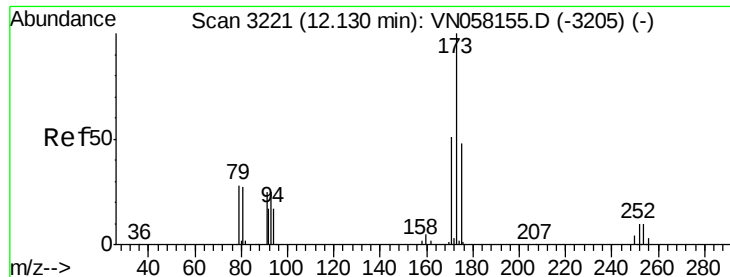
Tot Ion: 95 Resp: 318938
Ion Ratio Lower Upper
95 100
174 76.2 0.0 152.2
176 73.9 0.0 148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058217.D
Acq: 19 Sep 2019 20:22

Tgt Ion: 117 Resp: 691755
Ion Ratio Lower Upper
117 100
82 59.5 46.9 70.3
119 31.9 25.3 37.9





#71

Bromoform

Concen: 3.881 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

Instrument :

MSVOA_N

ClientSampleId :

RE104D3-20190912

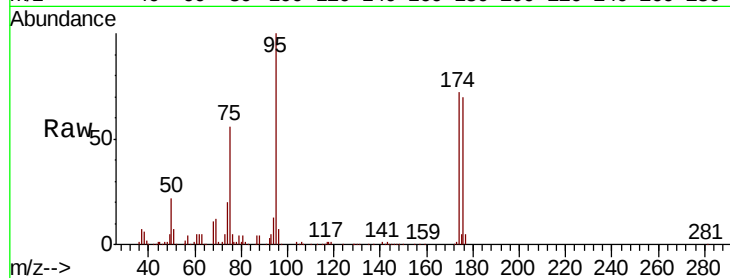
Tot Ion:173 Resp: 1009

Ion Ratio Lower Upper

173 100

175 1544.5 24.2 72.6#

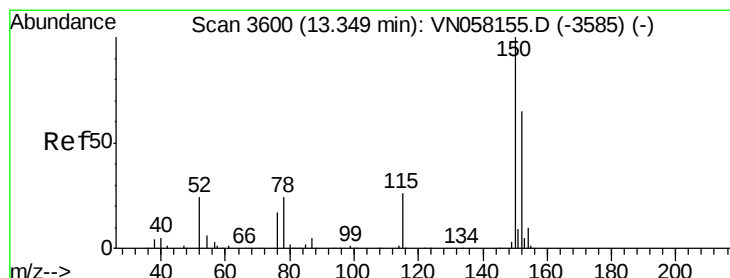
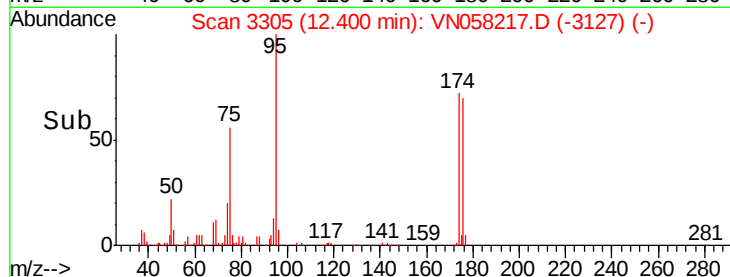
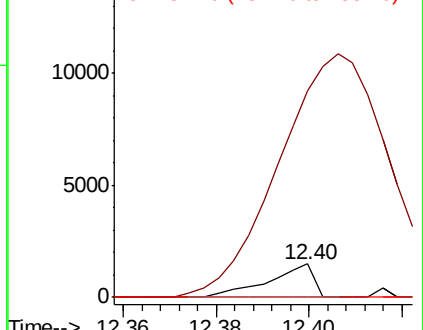
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058217.D

Acq: 19 Sep 2019 20:22

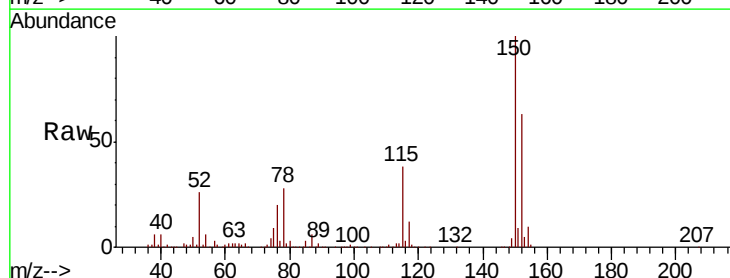
Tgt Ion:152 Resp: 276924

Ion Ratio Lower Upper

152 100

115 60.2 30.1 90.3

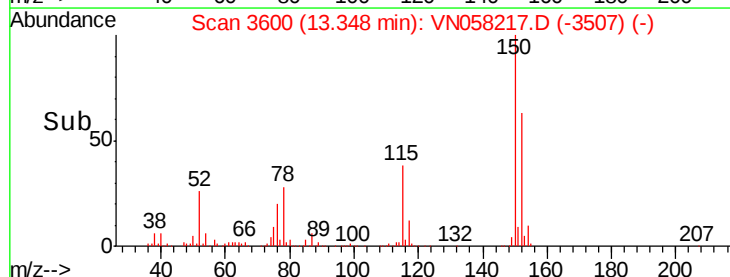
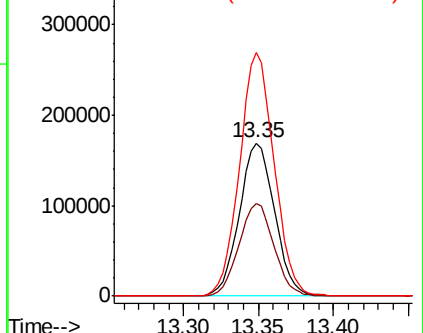
150 156.6 0.0 346.4

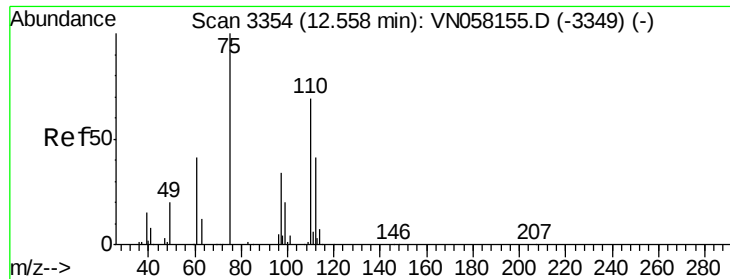


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

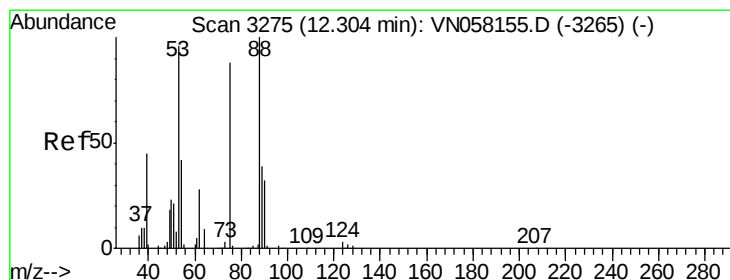
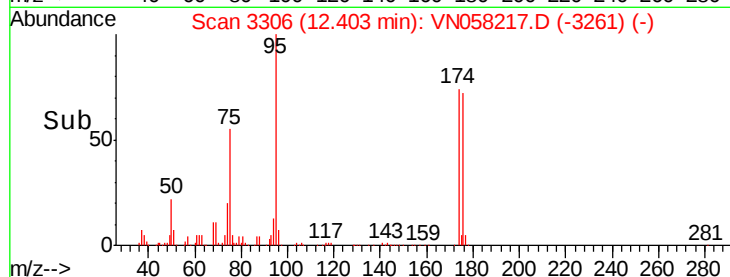
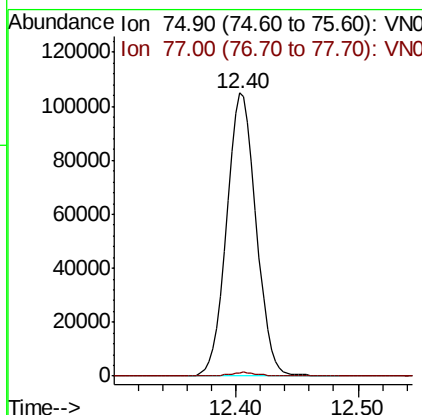
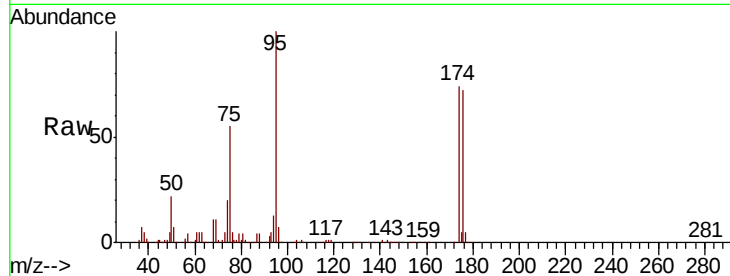




#76
 1,2,3-Trichloropropane
 Concen: 35.698 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN058217.D
 Acq: 19 Sep 2019 20:22

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D3-20190912

Tot Ion: 75 Resp: 176924
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 99.746 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN058217.D
 Acq: 19 Sep 2019 20:22

Tgt Ion: 75 Resp: 176924
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.1 135.1#
 89 0.0 36.2 54.2#

