

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054400.D
 Acq On : 18 Mar 2019 18:06
 Operator : JC/SP
 Sample : K1941-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T-2

Quant Time: Mar 19 06:52:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1919195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2712046	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2230937	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	764814	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	909056	44.60	ug/l	0.00
Spiked Amount			Recovery	=	89.20%	
35) Dibromofluoromethane	7.59	113	825004	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	10.09	98	3119503	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	12.40	95	894338	39.57	ug/l	0.00
Spiked Amount			Recovery	=	79.14%	

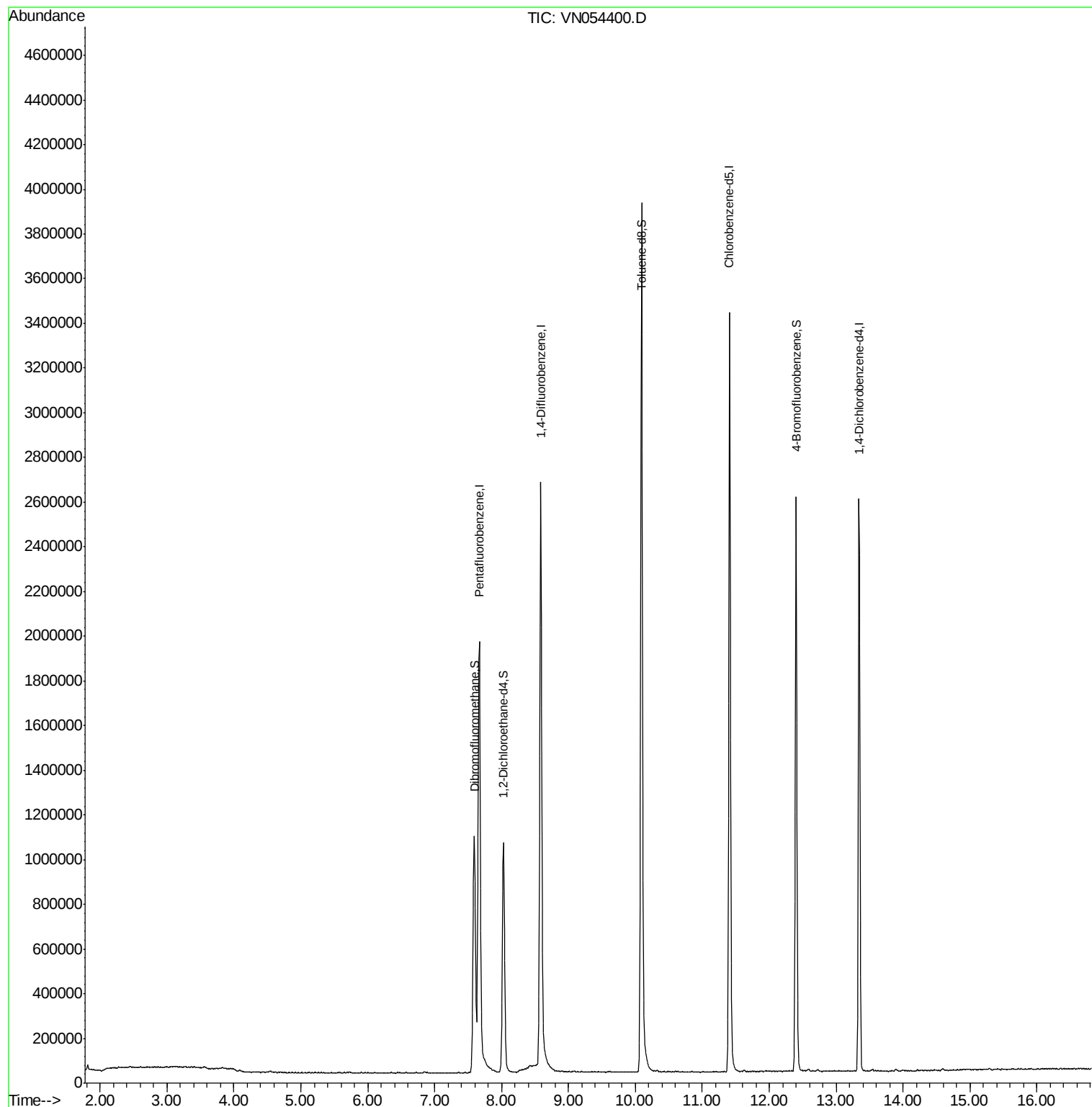
Target Compounds	Qvalue
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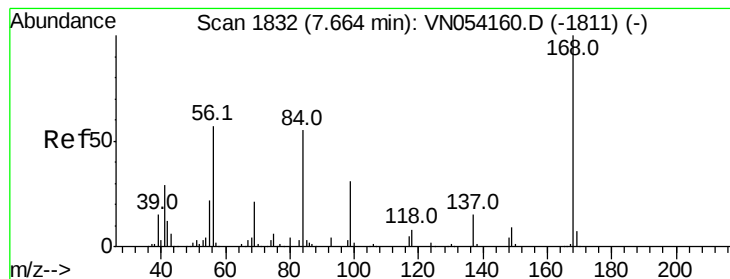
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
Data File : VN054400.D
Acq On : 18 Mar 2019 18:06
Operator : JC/SP
Sample : K1941-04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T-2

Quant Time: Mar 19 06:52:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054400.D

Acq: 18 Mar 2019 18:06

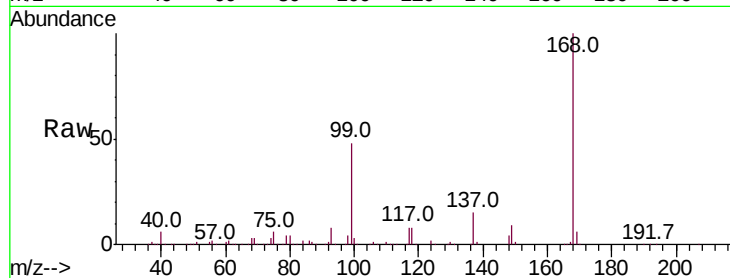
Instrument :
MSVOA_N
ClientSampled :
T-2

Tot Ion:168 Resp: 1919195

Ion Ratio Lower Upper

168 100

99 47.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

800000

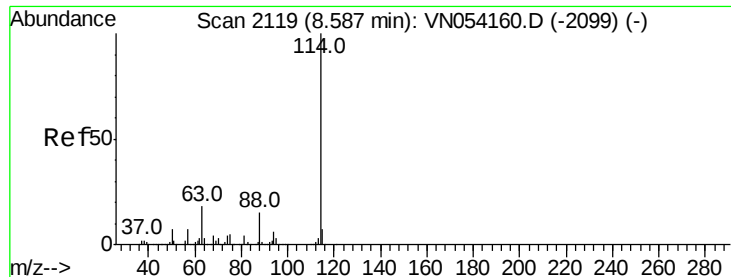
600000

400000

200000

0

7.60 7.67 7.74 7.80 7.86 7.92 7.98 8.04 8.10 8.16 8.22 8.28 8.34 8.40 8.46 8.52 8.58 8.64 8.70 8.76 8.82 8.88 8.94 9.00 9.06 9.12 9.18 9.24 9.30 9.36 9.42 9.48 9.54 9.60 9.66 9.72 9.78 9.84 9.90 9.96 10.02 10.08 10.14 10.20 10.26 10.32 10.38 10.44 10.50 10.56 10.62 10.68 10.74 10.80 10.86 10.92 10.98 11.04 11.10 11.16 11.22 11.28 11.34 11.40 11.46 11.52 11.58 11.64 11.70 11.76 11.82 11.88 11.94 12.00 12.06 12.12 12.18 12.24 12.30 12.36 12.42 12.48 12.54 12.60 12.66 12.72 12.78 12.84 12.90 12.96 13.02 13.08 13.14 13.20 13.26 13.32 13.38 13.44 13.50 13.56 13.62 13.68 13.74 13.80 13.86 13.92 13.98 14.04 14.10 14.16 14.22 14.28 14.34 14.40 14.46 14.52 14.58 14.64 14.70 14.76 14.82 14.88 14.94 15.00 15.06 15.12 15.18 15.24 15.30 15.36 15.42 15.48 15.54 15.60 15.66 15.72 15.78 15.84 15.90 15.96 16.02 16.08 16.14 16.20 16.26 16.32 16.38 16.44 16.50 16.56 16.62 16.68 16.74 16.80 16.86 16.92 16.98 17.04 17.10 17.16 17.22 17.28 17.34 17.40 17.46 17.52 17.58 17.64 17.70 17.76 17.82 17.88 17.94 18.00 18.06 18.12 18.18 18.24 18.30 18.36 18.42 18.48 18.54 18.60 18.66 18.72 18.78 18.84 18.90 18.96 19.02 19.08 19.14 19.20 19.26 19.32 19.38 19.44 19.50 19.56 19.62 19.68 19.74 19.80 19.86 19.92 19.98 20.04 20.10 20.16 20.22 20.28 20.34 20.40 20.46 20.52 20.58 20.64 20.70 20.76 20.82 20.88 20.94 21.00 21.06 21.12 21.18 21.24 21.30 21.36 21.42 21.48 21.54 21.60 21.66 21.72 21.78 21.84 21.90 21.96 22.02 22.08 22.14 22.20 22.26 22.32 22.38 22.44 22.50 22.56 22.62 22.68 22.74 22.80 22.86 22.92 22.98 23.04 23.10 23.16 23.22 23.28 23.34 23.40 23.46 23.52 23.58 23.64 23.70 23.76 23.82 23.88 23.94 24.00 24.06 24.12 24.18 24.24 24.30 24.36 24.42 24.48 24.54 24.60 24.66 24.72 24.78 24.84 24.90 24.96 25.02 25.08 25.14 25.20 25.26 25.32 25.38 25.44 25.50 25.56 25.62 25.68 25.74 25.80 25.86 25.92 25.98 26.04 26.10 26.16 26.22 26.28 26.34 26.40 26.46 26.52 26.58 26.64 26.70 26.76 26.82 26.88 26.94 27.00 27.06 27.12 27.18 27.24 27.30 27.36 27.42 27.48 27.54 27.60 27.66 27.72 27.78 27.84 27.90 27.96 28.02 28.08 28.14 28.20 28.26 28.32 28.38 28.44 28.50 28.56 28.62 28.68 28.74 28.80 28.86 28.92 28.98 29.04 29.10 29.16 29.22 29.28 29.34 29.40 29.46 29.52 29.58 29.64 29.70 29.76 29.82 29.88 29.94 30.00 30.06 30.12 30.18 30.24 30.30 30.36 30.42 30.48 30.54 30.60 30.66 30.72 30.78 30.84 30.90 30.96 31.02 31.08 31.14 31.20 31.26 31.32 31.38 31.44 31.50 31.56 31.62 31.68 31.74 31.80 31.86 31.92 31.98 32.04 32.10 32.16 32.22 32.28 32.34 32.40 32.46 32.52 32.58 32.64 32.70 32.76 32.82 32.88 32.94 33.00 33.06 33.12 33.18 33.24 33.30 33.36 33.42 33.48 33.54 33.60 33.66 33.72 33.78 33.84 33.90 33.96 34.02 34.08 34.14 34.20 34.26 34.32 34.38 34.44 34.50 34.56 34.62 34.68 34.74 34.80 34.86 34.92 34.98 35.04 35.10 35.16 35.22 35.28 35.34 35.40 35.46 35.52 35.58 35.64 35.70 35.76 35.82 35.88 35.94 36.00 36.06 36.12 36.18 36.24 36.30 36.36 36.42 36.48 36.54 36.60 36.66 36.72 36.78 36.84 36.90 36.96 37.02 37.08 37.14 37.20 37.26 37.32 37.38 37.44 37.50 37.56 37.62 37.68 37.74 37.80 37.86 37.92 37.98 38.04 38.10 38.16 38.22 38.28 38.34 38.40 38.46 38.52 38.58 38.64 38.70 38.76 38.82 38.88 38.94 39.00 39.06 39.12 39.18 39.24 39.30 39.36 39.42 39.48 39.54 39.60 39.66 39.72 39.78 39.84 39.90 39.96 40.02 40.08 40.14 40.20 40.26 40.32 40.38 40.44 40.50 40.56 40.62 40.68 40.74 40.80 40.86 40.92 40.98 41.04 41.10 41.16 41.22 41.28 41.34 41.40 41.46 41.52 41.58 41.64 41.70 41.76 41.82 41.88 41.94 42.00 42.06 42.12 42.18 42.24 42.30 42.36 42.42 42.48 42.54 42.60 42.66 42.72 42.78 42.84 42.90 42.96 43.02 43.08 43.14 43.20 43.26 43.32 43.38 43.44 43.50 43.56 43.62 43.68 43.74 43.80 43.86 43.92 43.98 44.04 44.10 44.16 44.22 44.28 44.34 44.40 44.46 44.52 44.58 44.64 44.70 44.76 44.82 44.88 44.94 45.00 45.06 45.12 45.18 45.24 45.30 45.36 45.42 45.48 45.54 45.60 45.66 45.72 45.78 45.84 45.90 45.96 46.02 46.08 46.14 46.20 46.26 46.32 46.38 46.44 46.50 46.56 46.62 46.68 46.74 46.80 46.86 46.92 46.98 47.04 47.10 47.16 47.22 47.28 47.34 47.40 47.46 47.52 47.58 47.64 47.70 47.76 47.82 47.88 47.94 48.00 48.06 48.12 48.18 48.24 48.30 48.36 48.42 48.48 48.54 48.60 48.66 48.72 48.78 48.84 48.90 48.96 49.02 49.08 49.14 49.20 49.26 49.32 49.38 49.44 49.50 49.56 49.62 49.68 49.74 49.80 49.86 49.92 49.98 50.04 50.10 50.16 50.22 50.28 50.34 50.40 50.46 50.52 50.58 50.64 50.70 50.76 50.82 50.88 50.94 51.00 51.06 51.12 51.18 51.24 51.30 51.36 51.42 51.48 51.54 51.60 51.66 51.72 51.78 51.84 51.90 51.96 52.02 52.08 52.14 52.20 52.26 52.32 52.38 52.44 52.50 52.56 52.62 52.68 52.74 52.80 52.86 52.92 52.98 53.04 53.10 53.16 53.22 53.28 53.34 53.40 53.46 53.52 53.58 53.64 53.70 53.76 53.82 53.88 53.94 54.00 54.06 54.12 54.18 54.24 54.30 54.36 54.42 54.48 54.54 54.60 54.66 54.72 54.78 54.84 54.90 54.96 55.02 55.08 55.14 55.20 55.26 55.32 55.38 55.44 55.50 55.56 55.62 55.68 55.74 55.80 55.86 55.92 55.98 56.04 56.10 56.16 56.22 56.28 56.34 56.40 56.46 56.52 56.58 56.64 56.70 56.76 56.82 56.88 56.94 57.00 57.06 57.12 57.18 57.24 57.30 57.36 57.42 57.48 57.54 57.60 57.66 57.72 57.78 57.84 57.90 57.96 58.02 58.08 58.14 58.20 58.26 58.32 58.38 58.44 58.50 58.56 58.62 58.68 58.74 58.80 58.86 58.92 58.98 59.04 59.10 59.16 59.22 59.28 59.34 59.40 59.46 59.52 59.58 59.64 59.70 59.76 59.82 59.88 59.94 60.00 60.06 60.12 60.18 60.24 60.30 60.36 60.42 60.48 60.54 60.60 60.66 60.72 60.78 60.84 60.90 60.96 61.02 61.08 61.14 61.20 61.26 61.32 61.38 61.44 61.50 61.56 61.62 61.68 61.74 61.80 61.86 61.92 61.98 62.04 62.10 62.16 62.22 62.28 62.34 62.40 62.46 62.52 62.58 62.64 62.70 62.76 62.82 62.88 62.94 63.00 63.06 63.12 63.18 63.24 63.30 63.36 63.42 63.48 63.54 63.60 63.66 63.72 63.78 63.84 63.90 63.96 64.02 64.08 64.14 64.20 64.26 64.32 64.38 64.44 64.50 64.56 64.62 64.68 64.74 64.80 64.86 64.92 64.98 65.04 65.10 65.16 65.22 65.28 65.34 65.40 65.46 65.52 65.58 65.64 65.70 65.76 65.82 65.88 65.94 66.00 66.06 66.12 66.18 66.24 66.30 66.36 66.42 66.48 66.54 66.60 66.66 66.72 66.78 66.84 66.90 66.96 67.02 67.08 67.14 67.20 67.26 67.32 67.38 67.44 67.50 67.56 67.62 67.68 67.74 67.80 67.86 67.92 67.98 68.04 68.10 68.16 68.22 68.28 68.34 68.40 68.46 68.52 68.58 68.64 68.70 68.76 68.82 68.88 68.94 69.00 69.06 69.12 69.18 69.24 69.30 69.36 69.42 69.48 69.54 69.60 69.66 69.72 69.78 69.84 69.90 69.96 70.02 70.08 70.14 70.20 70.26 70.32 70.38 70.44 70.50 70.56 70.62 70.68 70.74 70.80 70.86 70.92 70.98 71.04 71.10 71.16 71.22 71.28 71.34 71.40 71.46 71.52 71.58 71.64 71.70 71.76 71.82 71.88 71.94 72.00 72.06 72.12 72.18 72.24 72.30 72.36 72.42 72.48 72.54 72.60 72.66 72.72 72.78 72.84 72.90 72.96 73.02 73.08 73.14 73.20 73.26 73.32 73.38 73.44 73.50 73.56 73.62 73.68 73.74 73.80 73.86 73.92 73.98 74.04 74.10 74.16 74.22 74.28 74.34 74.40 74.46 74.52 74.58 74.64 74.70 74.76 74.82 74.88 74.94 75.00 75.06 75.12 75.18 75.24 75.30 75.36 75.42 75.48 75.54 75.60 75.66 75.72 75.78 75.84 75.90 75.96 76.02 76.08 76.14 76.20 76.26 76.32 76.38 76.44 76.50 76.56 76.62 76.68 76.74 76.80 76.86 76.92 76.98 77.04 77.10 77.16 77.22 77.28 77.34 77.40 77.46 77.52 77.58 77.64 77.70 77.76 77.82 77.88 77.94 78.00 78.06 78.12 78.18 78.24 78.30 78.36 78.42 78.48 78.54 78.60 78.66 78.72 78.78 78.84 78.90 78.96 79.02 79.08 79.14 79.20 79.26 79.32 79.38 79.44 79.50 79.56 79.62 79.68 79.74 79.80 79.86 79.92 79.98 80.04 80.10 80.16 80.22 80.28 80.34 80.40 80.46 80.52 80.58 80.64 80.70 80.76 80.82 80.88 80.94 81.00 81.06 81.12 81.18 81.24 81.30 81.36 81.42 81.48 81.54 81.60 81.66 81.72 81.78 81.84 81.90 81.96 82.02 82.08 82.14 82.20 82.26 82.32 82.38 82.44 82.50 82.56 82.62 82.68 82.74 82.80 82.86 82.92 82.98 83.04 83.10 83.16 83.22 83.28 83.34 83.40 83.46 83.52 83.58 83.64 83.70 83.76 83.82 83.88 83.94 84.00 84.06 84.12 84.18 84.24 84.30 84.36 84.42 84.48 84.54 84.60 84.66 84.72 84.78 84.84 84.90 84.96 85.02 85.08 85.14 85.20 85.26 85.32 85.38 85.44 85.50 85.56 85.62 85.68 85.74 85.80 85.86 85.92 85.98 86.04 86.10 86.16 86.22 86.28 86.34 86.40 86.46 86.52 86.58 86.64 86.70 86.76 86.82 86.88 86.94 87.00 87.06 87.12 87.18 87.24 87.30 87.36 87.42 87.48 87.54 87.60 87.66 87.72 87.78 87.84 87.90 87.96 88.02 88.08 88.14 88.20 88.26 88.32 88.38 88.44 88.50 88.56 88.62 88.68 88.74 88.80 88.86 88.92 88.98 89.04 89.10 89.16 89.22 89.28 89.34 89.40 89.46 89.52 89.58 89.64 89.70 89.76 89.82 89.88 89.94 90.00 90.06 90.12 90.18 90.24 90.30 90.36 90.42 90.48 90.54 90.60 90.66 90.72 90.78 90.84 90.90 90.96 91.02 91.08 91.14 91.20 91.26 91.32 91.38 91.44 91.50 91.56 91.62 91.68 91.74 91.80 91.86 91.92 91.98 92.04 92.10 92.16 92.22 92.28 92.34 92.40 92.46 92.52 92.58 92.64 92.70 92.76 92.82 92.88 92.94 93.00 93.06 93.12 93.18 93.24 93.30 93.36 93.42 93.48 93.54 93.60 93.66 93.72 93.78 93.84 93.90 93.96 94.02 94.08 94.14 94.20 94.26 94.32 94.38 94.44 94.50 94.56 94.62 94.68 94.74 94.80 94.86 94.92 94.98 95.04 95.10 95.16 95.22 95.28 95.34 95.40 95.46 95.52 95.58 95.64 95.70 95.76 95.82 95.88 95.94 96.00 96.06 96.12 96.18 96.24 96.30 96.36 96.42 96.48 96.54 96.60 96.66 96.72 96.78 96.84 96.90 96.96 97.02 97.08 97.14 97.20 97.26 97.32 97.38 97.44 97.50 97.56 97.62 97.68 97.74 97.80 97.86 97.92 97.98 98.04 98.10 98.16 98.22 98.28 98.34 98.40 98.46 98.52 98.58 98.64 98.70 98.76 98.82 98.88 98.94 99.00 99.06 99.12 99.18 99.24 99.30 99.36 99.42 99.48 99.54 99.60 99.66 99.72 99.78 99.84 99.90 99.96 100.02 100.08 100.14 100.20 100.26 100.32 100.38 100.44 100.50 100.56 100.62 100.68 100.74 100.80 100.86 100.92 100.98 101.04 101.10 101.16 101.22 101.28 101.34 101.40 101.46 101.52 101.58 101.64 101.70 101.76 101.82 101.88 101.94 102.00 102.06 102.12 102.18 102.24 102.30 102.36 102.42 102.48 102.54 102.60 102.66 102.72 102.78 102.84 102.90 102.96 103.02 103.08 103.14 103.20 103.26 103.32 103.38 103.44 103.50 103.56 103.62 103.68 103.74 103.80 103.86 103.92 103.98 104.04 104.10 104.16 104.22 104.28 104.34 104.40 104.46 104.52 104.58 104.64 104.70 104.76 104.82 104.88 104.94 105.00 105.06 105.12 105.18 105.24 105.30 105.36 105.42 105.48 105.54 105.60 105.66 105.72 105.78 105.84 105.90 105.96 106.02 106.08 106.14 106.20 106.26 106.32 106.38 106.44 106.50 106.56 106.62 106.68 106.74 106.80 106.86 106.92 106.98 107.04 107.10 107.16 107.22 107.28 107.34 107.40 107.46 107.52 107.58 107.64 107.70 107.76 107.82 107.88 107.94 108.00 108.06 108.12 108.18 108.24 108.30 108.36 108.42 108.48 108.54 108.60 108.66 108.72 108.78 108.84 108.90 108.96 109.02 109.08 109.14 109.20 109.26 109.32 109.38 109.44 109.50 109.56 109.62 109.68 109.74 109.80 109.86 109.92 110.00 110.06 110.12 110.18 110.24 110.30 110.36 110.42 110.48 110.54 110.60 110.66 110.72 110.78 110.84 110.90 110.96 111.02 111.08 111.14 111.20 111.26 111.32 111.38 111.44 111.50 111.56 111.62 111.68 111.74 111.80 111.86 111.92 111.98 112.04 112.10 112.16 112.22 112.28 112.34 112.40 112.46 112.52 112.58 112.64 112.70 112.76 112.82 112.88 112.94 113.00 113.06 113.12 113.18 113.24 113.30 113.36 113.42 113.48 113.54 113.60 113.66 113.72 113.78 113.84 113.90 113.96 114.02 114.08 114.14 114.20 114.26 114.32 114.38 114.44 114.50 114.56 114.62 114.68 114.74 114.80 114.86 114.92 114.98 115.04 115.10 115.16 115.22 115.28 115.34 115.40 115.46 115.5



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054400.D

Acq: 18 Mar 2019 18:06

Instrument :

MSVOA_N

ClientSampleId :

T-2

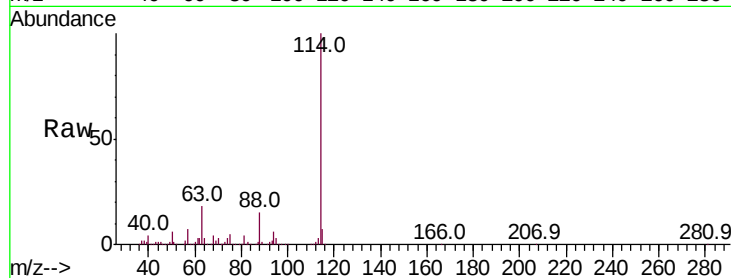
Tot Ion:114 Resp: 2712046

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.2

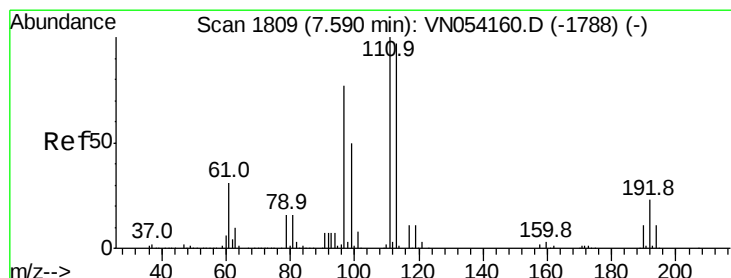
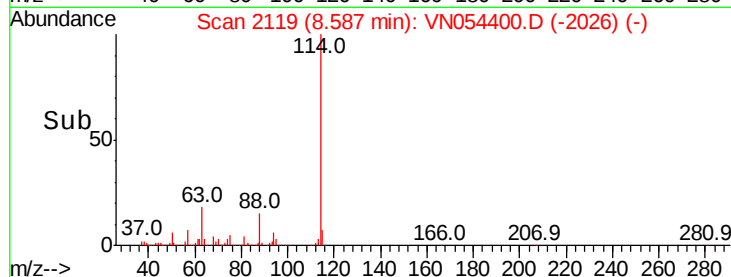
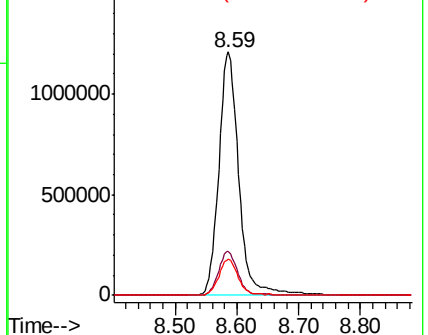
88 14.9 0.0 30.2



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: 47.166 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054400.D

Acq: 18 Mar 2019 18:06

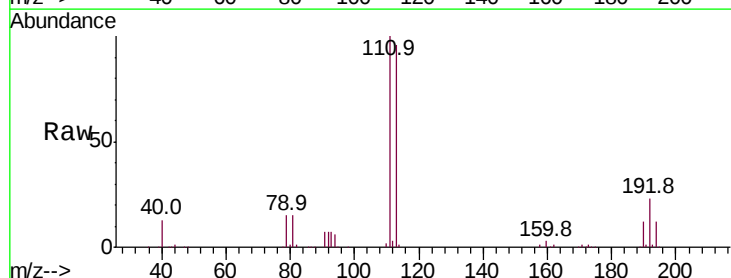
Tgt Ion:113 Resp: 825004

Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.4

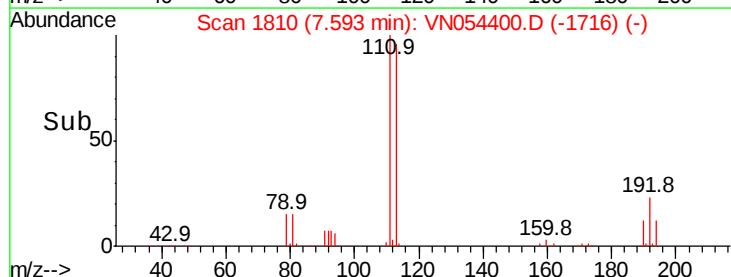
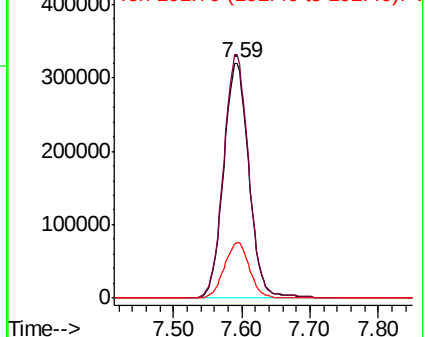
192 23.6 19.2 28.8

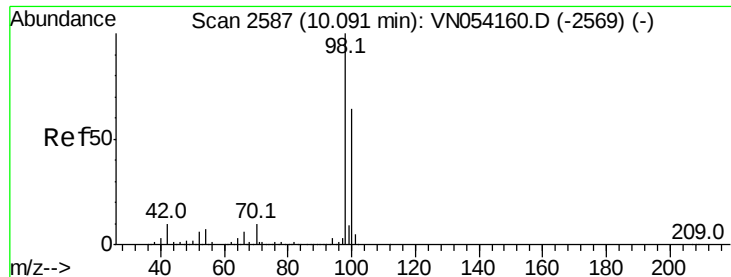


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 48.290 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054400.D

Acq: 18 Mar 2019 18:06

Instrument :

MSVOA_N

ClientSampleId :

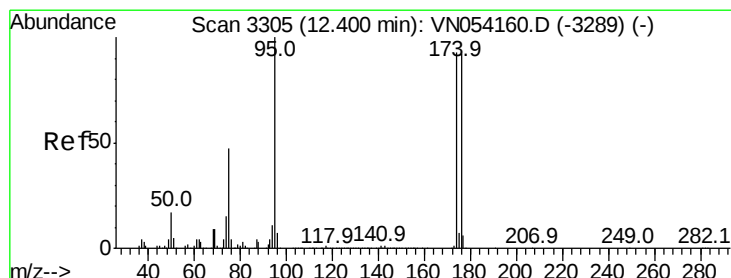
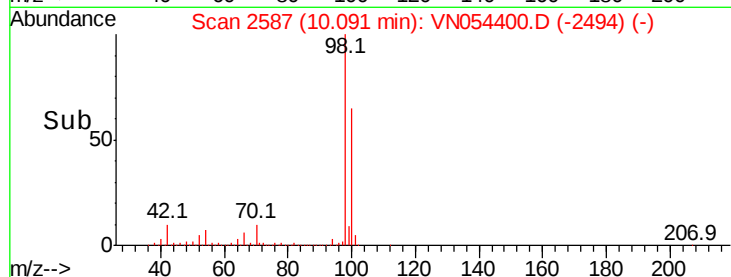
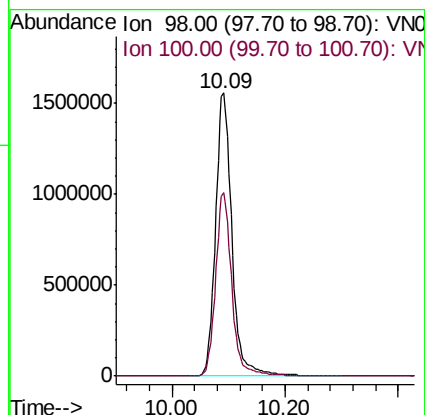
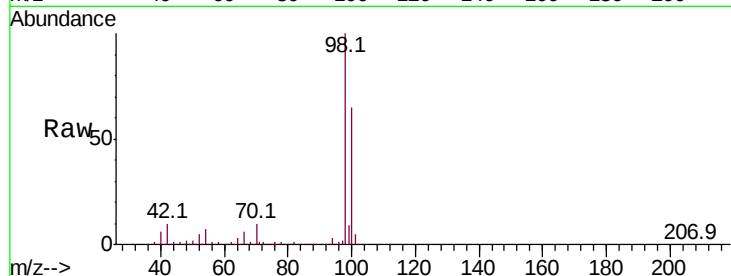
T-2

Tot Ion: 98 Resp: 3119503

Ion Ratio Lower Upper

98 100

100 63.9 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 39.567 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054400.D

Acq: 18 Mar 2019 18:06

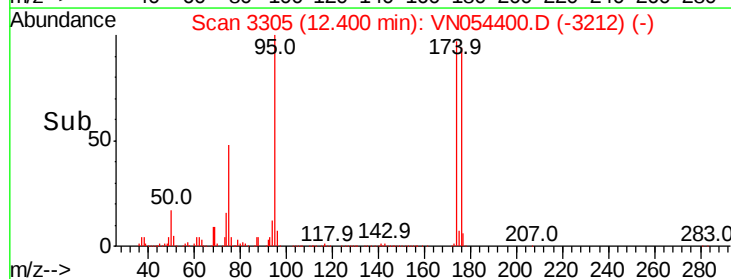
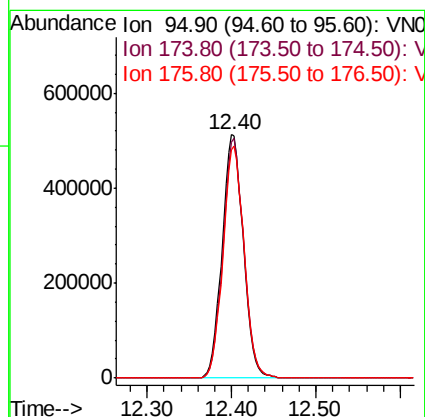
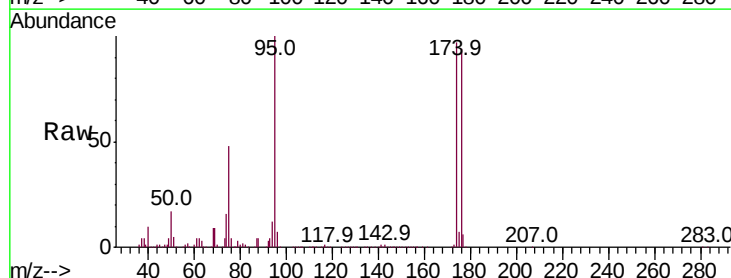
Tgt Ion: 95 Resp: 894338

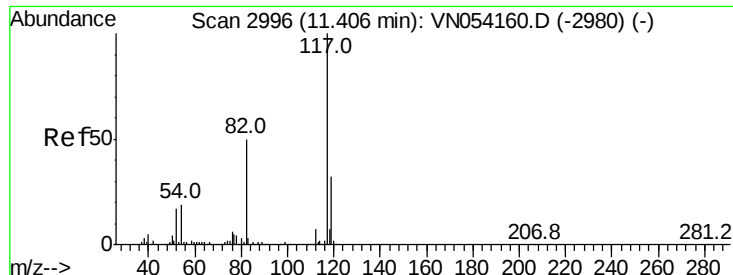
Ion Ratio Lower Upper

95 100

174 96.7 0.0 191.0

176 94.6 0.0 187.4

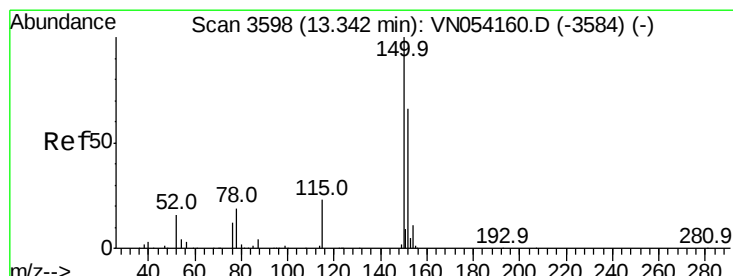
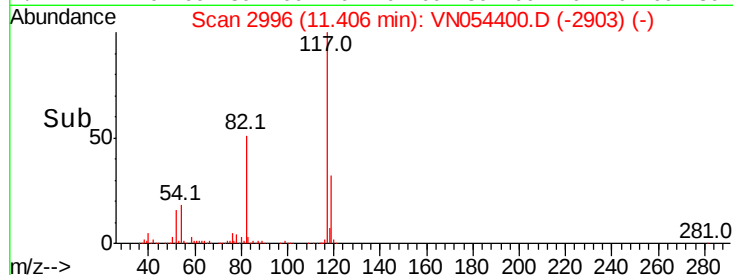
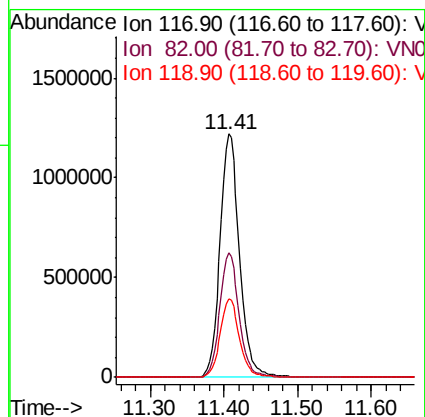
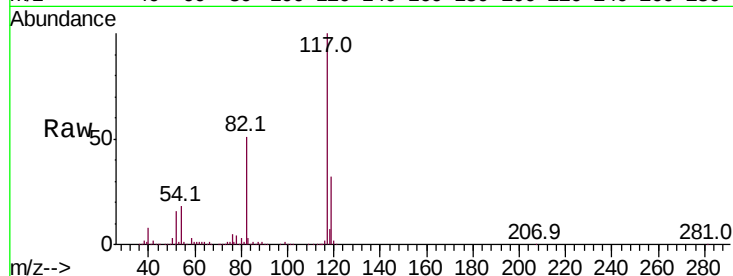




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054400.D
Acq: 18 Mar 2019 18:06

Instrument :
MSVOA_N
ClientSampleId :
T-2

Tot Ion:117 Resp: 2230937
Ion Ratio Lower Upper
117 100
82 51.2 40.0 60.0
119 32.2 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054400.D
Acq: 18 Mar 2019 18:06

Tgt Ion:152 Resp: 764814
Ion Ratio Lower Upper
152 100
115 54.7 27.2 81.6
150 156.1 0.0 349.2

