

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
 Data File : VN049937.D
 Acq On : 20 Jul 2018 1:04
 Operator : MD\SY
 Sample : J3620-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CB-TCLP-11-1-0718

Quant Time: Jul 20 03:35:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	563602	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	959461	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	796348	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	304036	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	412249	53.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.44%	
35) Dibromofluoromethane	7.59	113	362361	44.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.98%	
50) Toluene-d8	10.09	98	1282359	43.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.40%	
62) 4-Bromofluorobenzene	12.40	95	352063	34.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.66%	

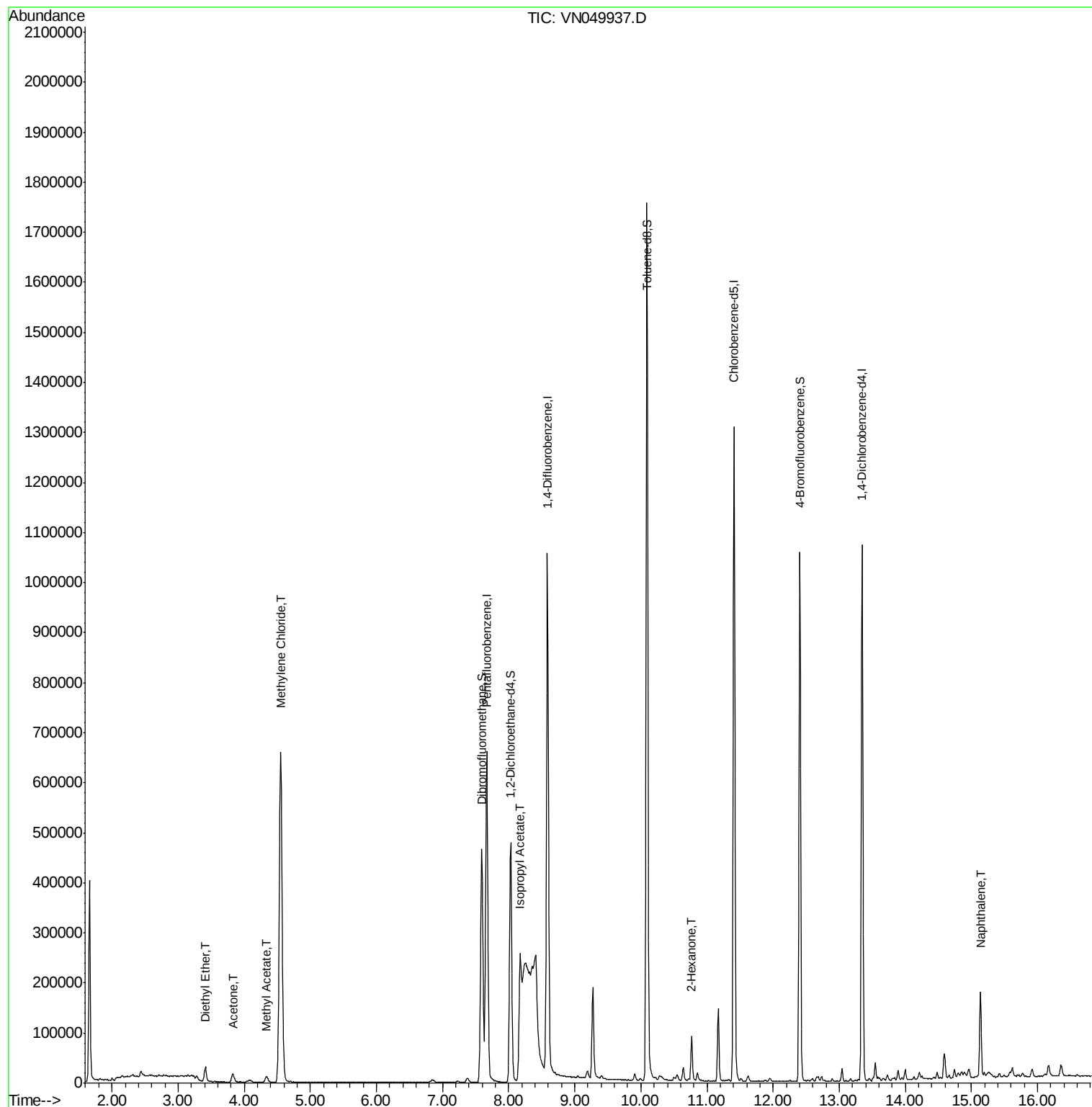
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	14234	3.62	ug/l	91
16) Acetone	3.83	43	28694	14.31	ug/l	94
18) Methyl Acetate	4.34	43	23033	2.88	ug/l	93
20) Methylene Chloride	4.55	84	506164	66.36	ug/l	99
43) Isopropyl Acetate	8.17	43	302452	23.63	ug/l #	90
59) 2-Hexanone	10.77	43	12727	2.65	ug/l #	56
95) Naphthalene	15.14	128	148246	13.86	ug/l	99

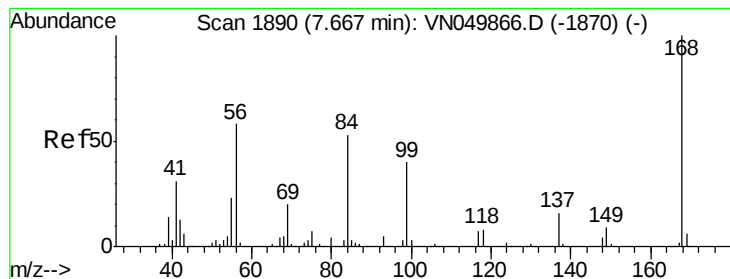
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
Data File : VN049937.D
Acq On : 20 Jul 2018 1:04
Operator : MD\SY
Sample : J3620-03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
CB-TCLP-11-1-0718

Quant Time: Jul 20 03:35:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049937.D

Acq: 20 Jul 2018 1:04

Instrument :

MSVOA_N

ClientSampleId :

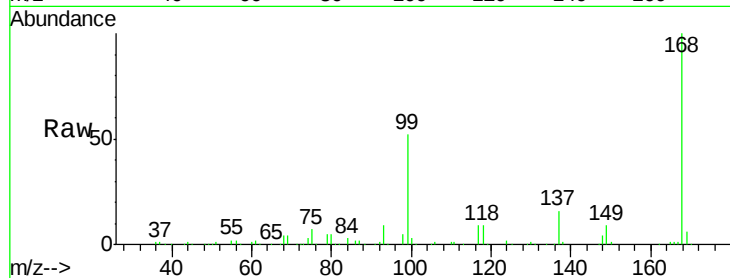
CB-TCLP-11-1-0718

Tot Ion:168 Resp: 563602

Ion Ratio Lower Upper

168 100

99 51.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

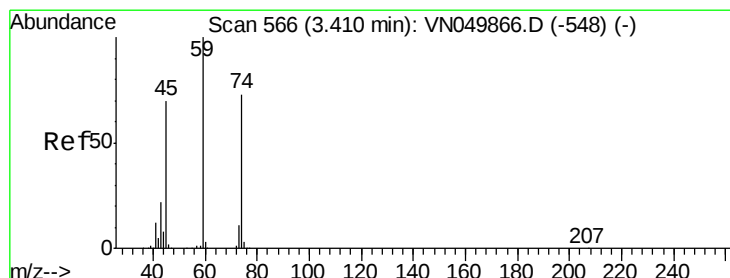
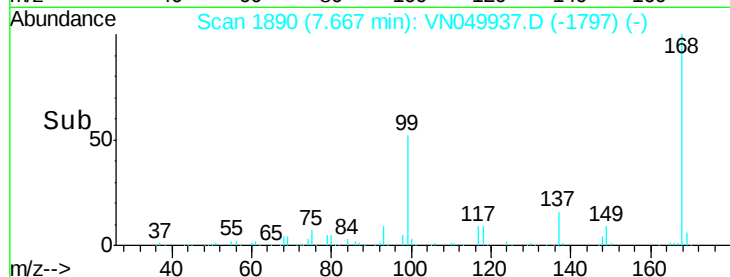
100000

50000

0

7.60 7.70 7.80

Time-->



#8

Diethyl Ether

Concen: 3.62 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN049937.D

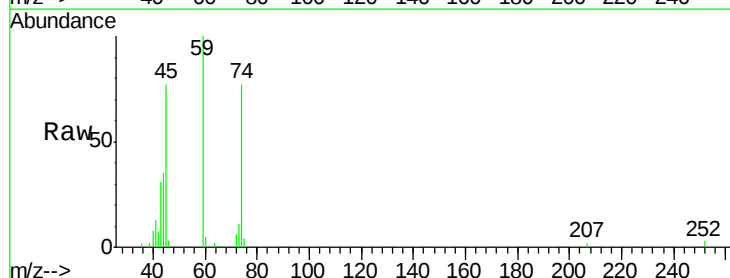
Acq: 20 Jul 2018 1:04

Tgt Ion: 74 Resp: 14234

Ion Ratio Lower Upper

74 100

45 105.6 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

3.41

8000

6000

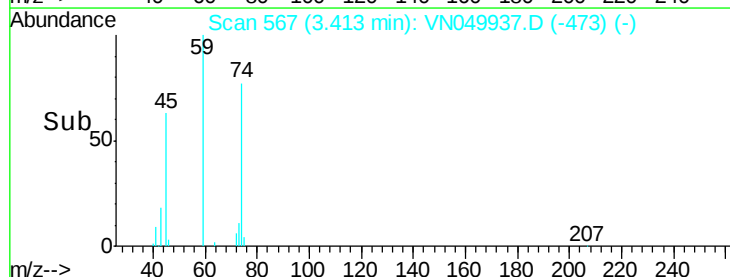
4000

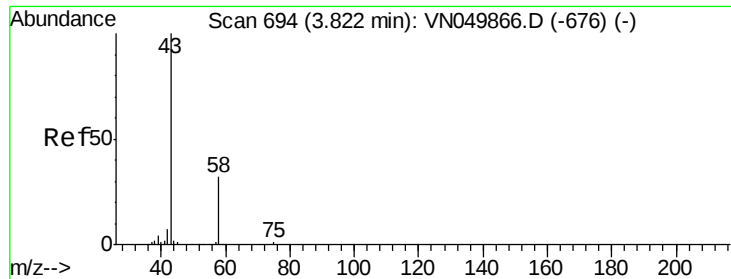
2000

0

3.35 3.40 3.45 3.50

Time-->





#16

Acetone

Concen: 14.31 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049937.D

Acq: 20 Jul 2018 1:04

Instrument :

MSVOA_N

ClientSampleId :

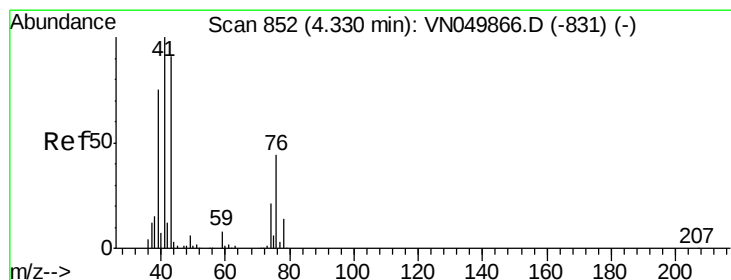
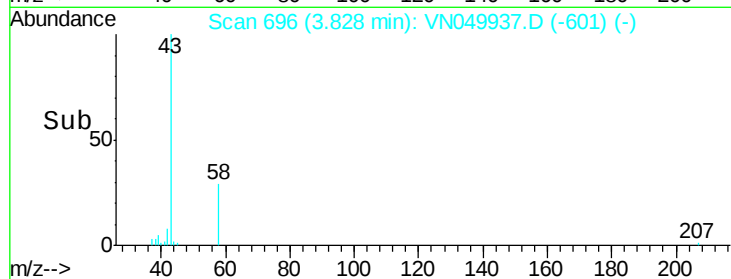
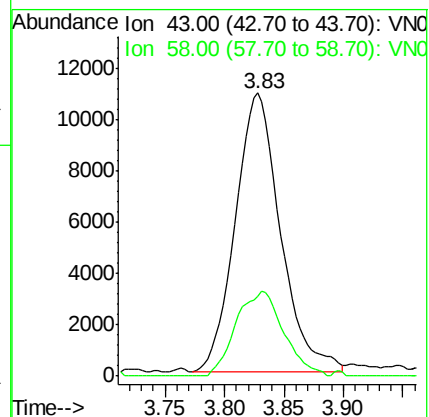
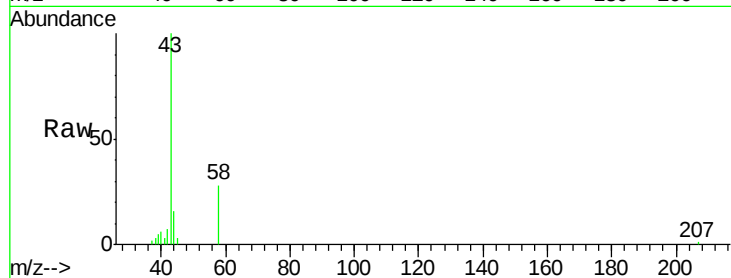
CB-TCLP-11-1-0718

Tot Ion: 43 Resp: 28694

Ion Ratio Lower Upper

43 100

58 28.8 25.9 38.9



#18

Methyl Acetate

Concen: 2.88 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049937.D

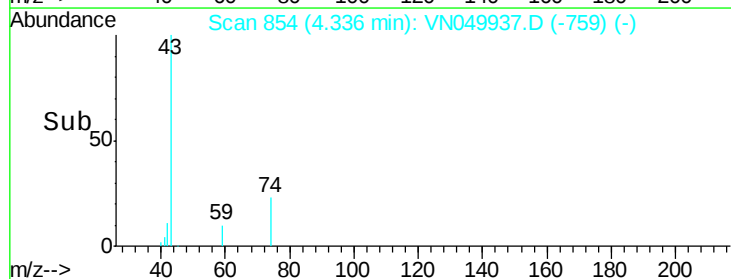
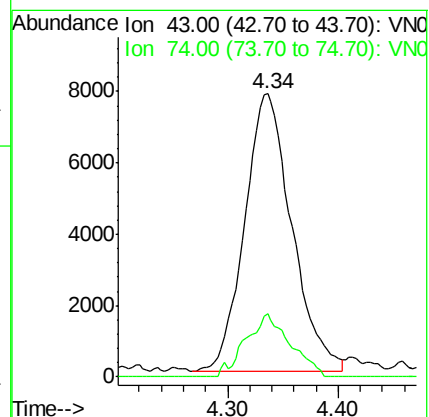
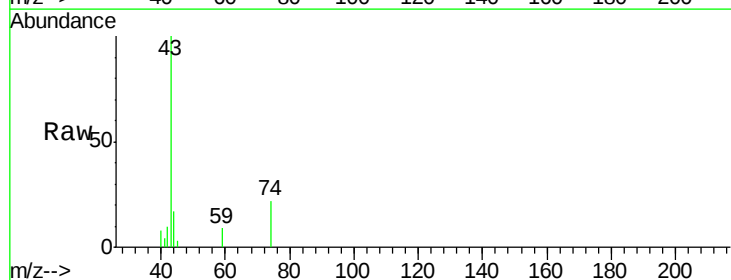
Acq: 20 Jul 2018 1:04

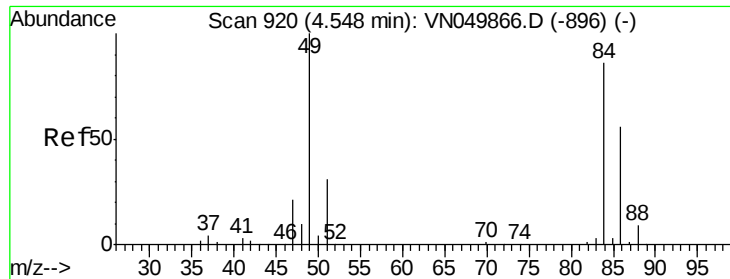
Tgt Ion: 43 Resp: 23033

Ion Ratio Lower Upper

43 100

74 21.5 19.8 29.8

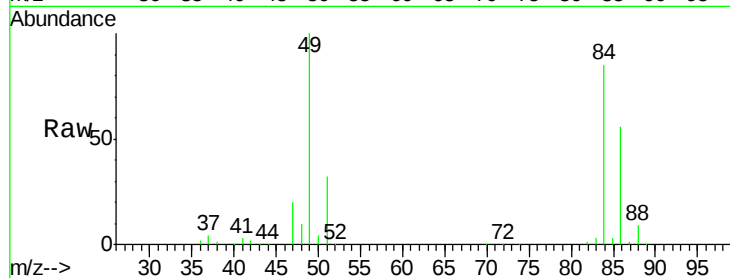




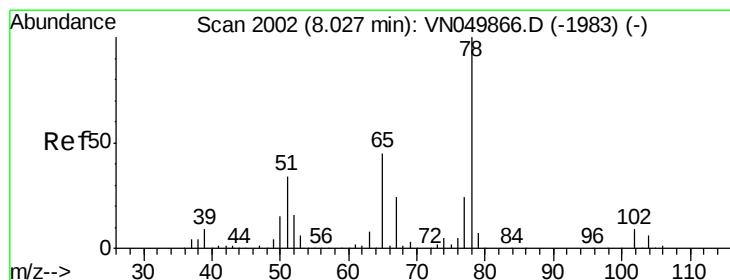
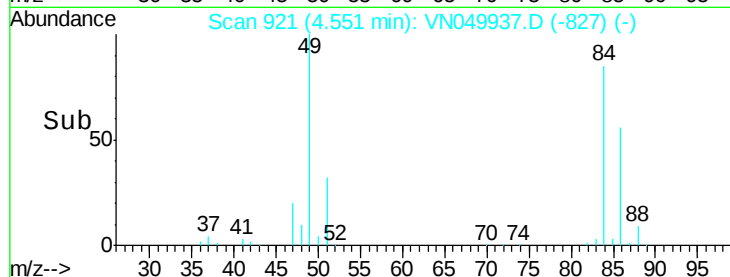
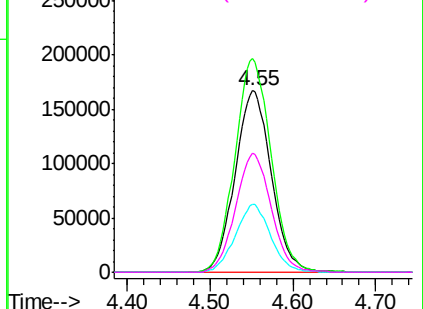
#20
Methylene Chloride
Concen: 66.36 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049937.D
Acq: 20 Jul 2018 1:04

Instrument :
MSVOA_N
ClientSampleId :
CB-TCLP-11-1-0718

Tot Ion: 84 Resp: 506164
Ion Ratio Lower Upper
84 100
49 117.7 95.4 143.2
51 37.7 28.4 42.6
86 65.4 52.6 79.0

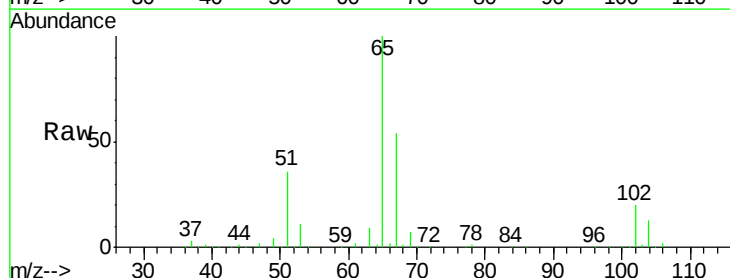


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

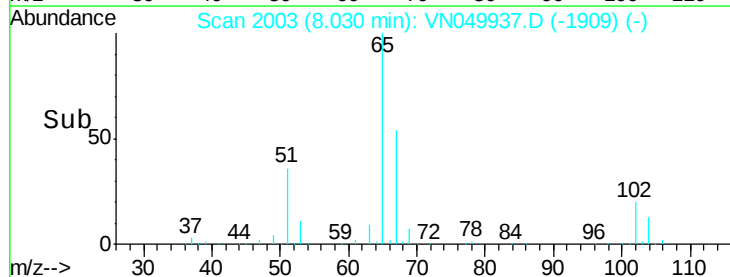
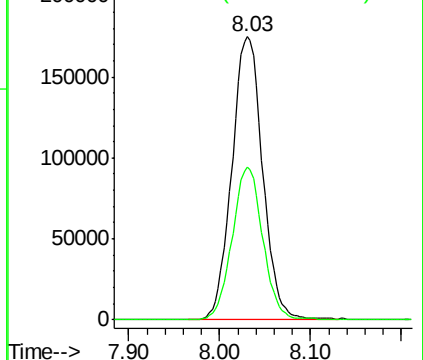


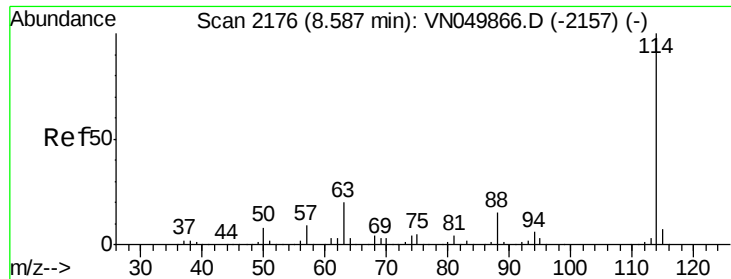
#33
1,2-Dichloroethane-d4
Concen: 53.22 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049937.D
Acq: 20 Jul 2018 1:04

Tgt Ion: 65 Resp: 412249
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

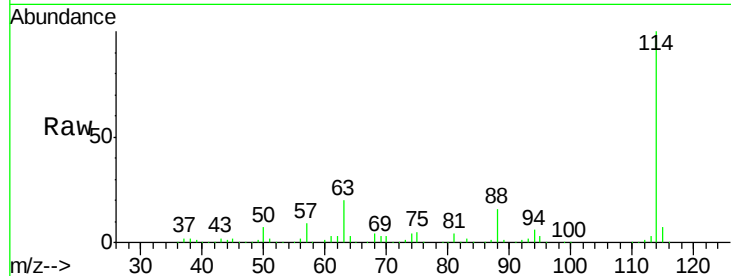




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049937.D
 Acq: 20 Jul 2018 1:04

Instrument :
 MSVOA_N
 ClientSampleId :
 CB-TCLP-11-1-0718

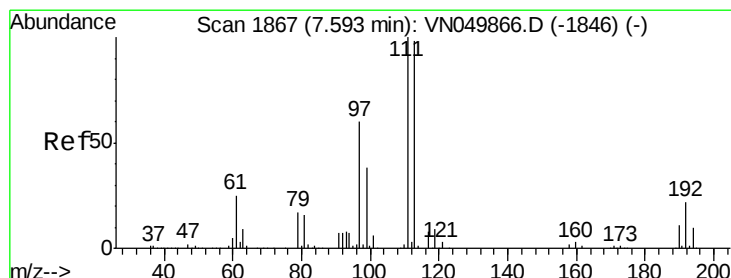
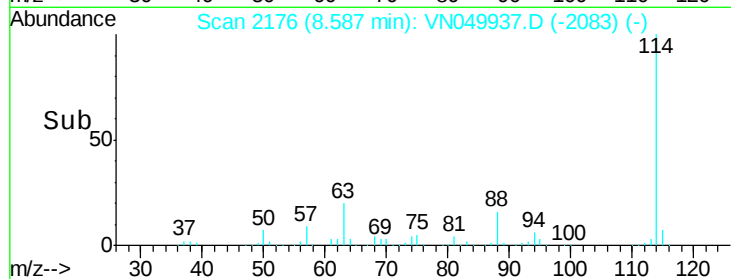
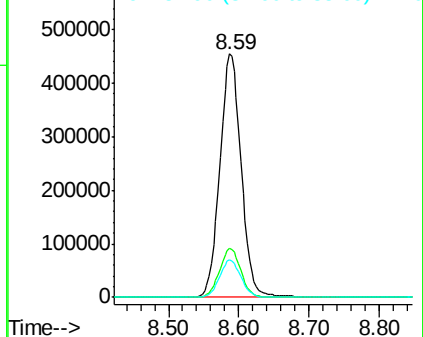
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	39.8
88	15.5	0.0	30.6



Abundance Ion 113.90 (113.60 to 114.60): V

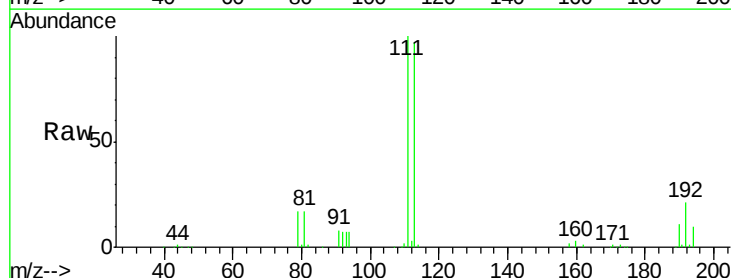
Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35
 Dibromofluoromethane
 Concen: 44.99 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN049937.D
 Acq: 20 Jul 2018 1:04

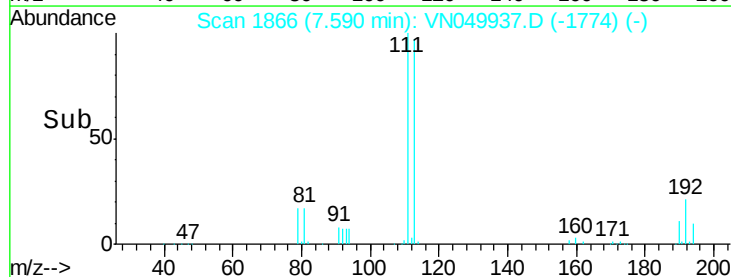
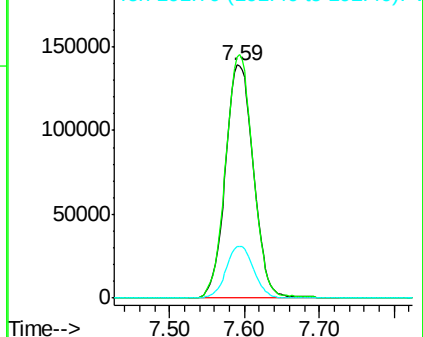
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.8
192	21.9	17.8	26.6

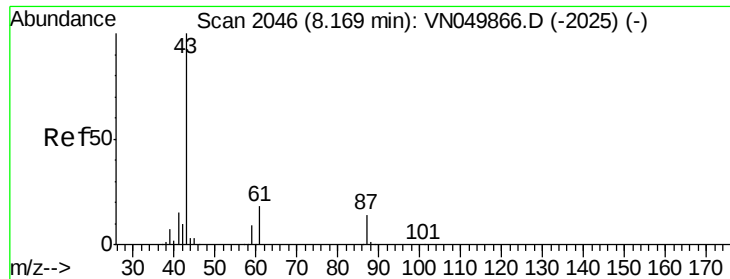


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#43

Isopropyl Acetate

Concen: 23.63 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN049937.D

Acq: 20 Jul 2018 1:04

Instrument :

MSVOA_N

ClientSampleId :

CB-TCLP-11-1-0718

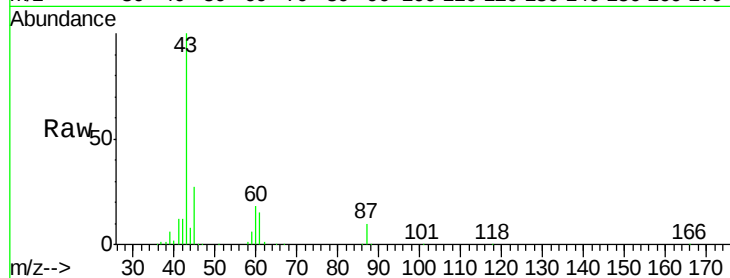
Tot Ion: 43 Resp: 302452

Ion Ratio Lower Upper

43 100

61 14.1 14.9 22.3#

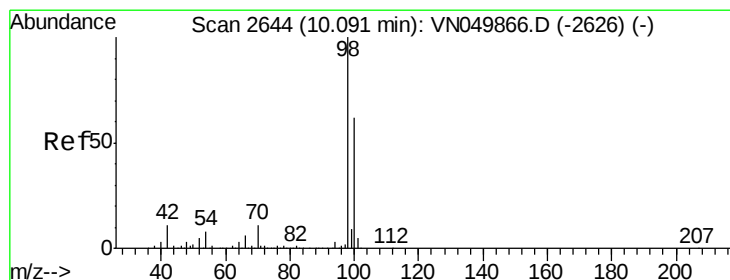
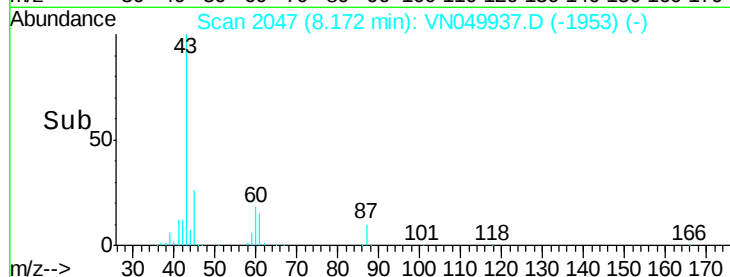
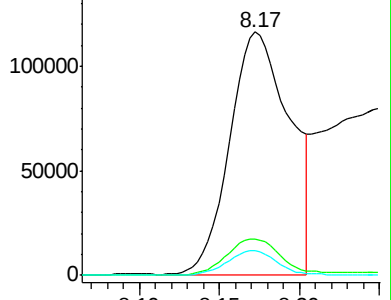
87 8.5 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049937.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN049937.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN049937.D (-1953) (-)



#50

Toluene-d8

Concen: 43.70 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049937.D

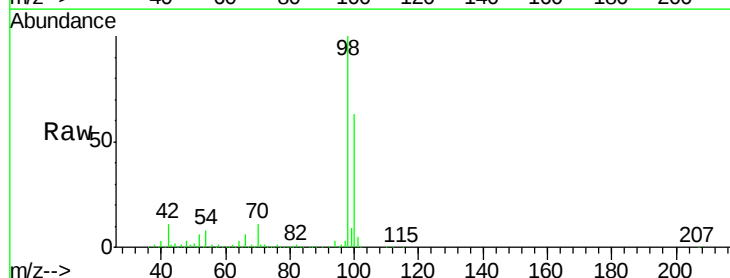
Acq: 20 Jul 2018 1:04

Tgt Ion: 98 Resp: 1282359

Ion Ratio Lower Upper

98 100

100 63.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN049937.D (-2551) (-)

Ion 100.00 (99.70 to 100.70): VN049937.D (-2551) (-)

Ion 115.00 (114.70 to 115.70): VN049937.D (-2551) (-)

Ion 207.00 (206.70 to 207.70): VN049937.D (-2551) (-)

Ion 229.00 (228.70 to 229.70): VN049937.D (-2551) (-)

Ion 255.00 (254.70 to 255.70): VN049937.D (-2551) (-)

Ion 281.00 (280.70 to 281.70): VN049937.D (-2551) (-)

Ion 307.00 (306.70 to 307.70): VN049937.D (-2551) (-)

Ion 333.00 (332.70 to 333.70): VN049937.D (-2551) (-)

Ion 359.00 (358.70 to 359.70): VN049937.D (-2551) (-)

Ion 385.00 (384.70 to 385.70): VN049937.D (-2551) (-)

Ion 411.00 (410.70 to 411.70): VN049937.D (-2551) (-)

Ion 437.00 (436.70 to 437.70): VN049937.D (-2551) (-)

Ion 463.00 (462.70 to 463.70): VN049937.D (-2551) (-)

Ion 489.00 (488.70 to 489.70): VN049937.D (-2551) (-)

Ion 515.00 (514.70 to 515.70): VN049937.D (-2551) (-)

Ion 541.00 (540.70 to 541.70): VN049937.D (-2551) (-)

Ion 567.00 (566.70 to 567.70): VN049937.D (-2551) (-)

Ion 593.00 (592.70 to 593.70): VN049937.D (-2551) (-)

Ion 619.00 (618.70 to 619.70): VN049937.D (-2551) (-)

Ion 645.00 (644.70 to 645.70): VN049937.D (-2551) (-)

Ion 671.00 (670.70 to 671.70): VN049937.D (-2551) (-)

Ion 697.00 (696.70 to 697.70): VN049937.D (-2551) (-)

Ion 723.00 (722.70 to 723.70): VN049937.D (-2551) (-)

Ion 749.00 (748.70 to 749.70): VN049937.D (-2551) (-)

Ion 775.00 (774.70 to 775.70): VN049937.D (-2551) (-)

Ion 801.00 (800.70 to 801.70): VN049937.D (-2551) (-)

Ion 827.00 (826.70 to 827.70): VN049937.D (-2551) (-)

Ion 853.00 (852.70 to 853.70): VN049937.D (-2551) (-)

Ion 879.00 (878.70 to 879.70): VN049937.D (-2551) (-)

Ion 905.00 (904.70 to 905.70): VN049937.D (-2551) (-)

Ion 931.00 (930.70 to 931.70): VN049937.D (-2551) (-)

Ion 957.00 (956.70 to 957.70): VN049937.D (-2551) (-)

Ion 983.00 (982.70 to 983.70): VN049937.D (-2551) (-)

Ion 1009.00 (1008.70 to 1009.70): VN049937.D (-2551) (-)

Ion 1035.00 (1034.70 to 1035.70): VN049937.D (-2551) (-)

Ion 1061.00 (1060.70 to 1061.70): VN049937.D (-2551) (-)

Ion 1087.00 (1086.70 to 1087.70): VN049937.D (-2551) (-)

Ion 1113.00 (1112.70 to 1113.70): VN049937.D (-2551) (-)

Ion 1139.00 (1138.70 to 1139.70): VN049937.D (-2551) (-)

Ion 1165.00 (1164.70 to 1165.70): VN049937.D (-2551) (-)

Ion 1191.00 (1190.70 to 1191.70): VN049937.D (-2551) (-)

Ion 1217.00 (1216.70 to 1217.70): VN049937.D (-2551) (-)

Ion 1243.00 (1242.70 to 1243.70): VN049937.D (-2551) (-)

Ion 1269.00 (1268.70 to 1269.70): VN049937.D (-2551) (-)

Ion 1295.00 (1294.70 to 1295.70): VN049937.D (-2551) (-)

Ion 1321.00 (1320.70 to 1321.70): VN049937.D (-2551) (-)

Ion 1347.00 (1346.70 to 1347.70): VN049937.D (-2551) (-)

Ion 1373.00 (1372.70 to 1373.70): VN049937.D (-2551) (-)

Ion 1399.00 (1398.70 to 1399.70): VN049937.D (-2551) (-)

Ion 1425.00 (1424.70 to 1425.70): VN049937.D (-2551) (-)

Ion 1451.00 (1450.70 to 1451.70): VN049937.D (-2551) (-)

Ion 1477.00 (1476.70 to 1477.70): VN049937.D (-2551) (-)

Ion 1503.00 (1502.70 to 1503.70): VN049937.D (-2551) (-)

Ion 1529.00 (1528.70 to 1529.70): VN049937.D (-2551) (-)

Ion 1555.00 (1554.70 to 1555.70): VN049937.D (-2551) (-)

Ion 1581.00 (1580.70 to 1581.70): VN049937.D (-2551) (-)

Ion 1607.00 (1606.70 to 1607.70): VN049937.D (-2551) (-)

Ion 1633.00 (1632.70 to 1633.70): VN049937.D (-2551) (-)

Ion 1659.00 (1658.70 to 1659.70): VN049937.D (-2551) (-)

Ion 1685.00 (1684.70 to 1685.70): VN049937.D (-2551) (-)

Ion 1711.00 (1710.70 to 1711.70): VN049937.D (-2551) (-)

Ion 1737.00 (1736.70 to 1737.70): VN049937.D (-2551) (-)

Ion 1763.00 (1762.70 to 1763.70): VN049937.D (-2551) (-)

Ion 1789.00 (1788.70 to 1789.70): VN049937.D (-2551) (-)

Ion 1815.00 (1814.70 to 1815.70): VN049937.D (-2551) (-)

Ion 1841.00 (1840.70 to 1841.70): VN049937.D (-2551) (-)

Ion 1867.00 (1866.70 to 1867.70): VN049937.D (-2551) (-)

Ion 1893.00 (1892.70 to 1893.70): VN049937.D (-2551) (-)

Ion 1919.00 (1918.70 to 1919.70): VN049937.D (-2551) (-)

Ion 1945.00 (1944.70 to 1945.70): VN049937.D (-2551) (-)

Ion 1971.00 (1970.70 to 1971.70): VN049937.D (-2551) (-)

Ion 1997.00 (1996.70 to 1997.70): VN049937.D (-2551) (-)

Ion 2023.00 (2022.70 to 2023.70): VN049937.D (-2551) (-)

Ion 2049.00 (2048.70 to 2049.70): VN049937.D (-2551) (-)

Ion 2075.00 (2074.70 to 2075.70): VN049937.D (-2551) (-)

Ion 2101.00 (2100.70 to 2101.70): VN049937.D (-2551) (-)

Ion 2127.00 (2126.70 to 2127.70): VN049937.D (-2551) (-)

Ion 2153.00 (2152.70 to 2153.70): VN049937.D (-2551) (-)

Ion 2179.00 (2178.70 to 2179.70): VN049937.D (-2551) (-)

Ion 2205.00 (2204.70 to 2205.70): VN049937.D (-2551) (-)

Ion 2231.00 (2230.70 to 2231.70): VN049937.D (-2551) (-)

Ion 2257.00 (2256.70 to 2257.70): VN049937.D (-2551) (-)

Ion 2283.00 (2282.70 to 2283.70): VN049937.D (-2551) (-)

Ion 2309.00 (2308.70 to 2309.70): VN049937.D (-2551) (-)

Ion 2335.00 (2334.70 to 2335.70): VN049937.D (-2551) (-)

Ion 2361.00 (2360.70 to 2361.70): VN049937.D (-2551) (-)

Ion 2387.00 (2386.70 to 2387.70): VN049937.D (-2551) (-)

Ion 2413.00 (2412.70 to 2413.70): VN049937.D (-2551) (-)

Ion 2439.00 (2438.70 to 2439.70): VN049937.D (-2551) (-)

Ion 2465.00 (2464.70 to 2465.70): VN049937.D (-2551) (-)

Ion 2491.00 (2490.70 to 2491.70): VN049937.D (-2551) (-)

Ion 2517.00 (2516.70 to 2517.70): VN049937.D (-2551) (-)

Ion 2543.00 (2542.70 to 2543.70): VN049937.D (-2551) (-)

Ion 2569.00 (2568.70 to 2569.70): VN049937.D (-2551) (-)

Ion 2595.00 (2594.70 to 2595.70): VN049937.D (-2551) (-)

Ion 2621.00 (2620.70 to 2621.70): VN049937.D (-2551) (-)

Ion 2647.00 (2646.70 to 2647.70): VN049937.D (-2551) (-)

Ion 2673.00 (2672.70 to 2673.70): VN049937.D (-2551) (-)

Ion 2699.00 (2698.70 to 2699.70): VN049937.D (-2551) (-)

Ion 2725.00 (2724.70 to 2725.70): VN049937.D (-2551) (-)

Ion 2751.00 (2750.70 to 2751.70): VN049937.D (-2551) (-)

Ion 2777.00 (2776.70 to 2777.70): VN049937.D (-2551) (-)

Ion 2803.00 (2802.70 to 2803.70): VN049937.D (-2551) (-)

Ion 2829.00 (2828.70 to 2829.70): VN049937.D (-2551) (-)

Ion 2855.00 (2854.70 to 2855.70): VN049937.D (-2551) (-)

Ion 2881.00 (2880.70 to 2881.70): VN049937.D (-2551) (-)

Ion 2907.00 (2906.70 to 2907.70): VN049937.D (-2551) (-)

Ion 2933.00 (2932.70 to 2933.70): VN049937.D (-2551) (-)

Ion 2959.00 (2958.70 to 2959.70): VN049937.D (-2551) (-)

Ion 2985.00 (2984.70 to 2985.70): VN049937.D (-2551) (-)

Ion 3011.00 (3010.70 to 3011.70): VN049937.D (-2551) (-)

Ion 3037.00 (3036.70 to 3037.70): VN049937.D (-2551) (-)

Ion 3063.00 (3062.70 to 3063.70): VN049937.D (-2551) (-)

Ion 3089.00 (3088.70 to 3089.70): VN049937.D (-2551) (-)

Ion 3115.00 (3114.70 to 3115.70): VN049937.D (-2551) (-)

Ion 3141.00 (3140.70 to 3141.70): VN049937.D (-2551) (-)

Ion 3167.00 (3166.70 to 3167.70): VN049937.D (-2551) (-)

Ion 3193.00 (3192.70 to 3193.70): VN049937.D (-2551) (-)

Ion 3219.00 (3218.70 to 3219.70): VN049937.D (-2551) (-)

Ion 3245.00 (3244.70 to 3245.70): VN049937.D (-2551) (-)

Ion 3271.00 (3270.70 to 3271.70): VN049937.D (-2551) (-)

Ion 3297.00 (3296.70 to 3297.70): VN049937.D (-2551) (-)

Ion 3323.00 (3322.70 to 3323.70): VN049937.D (-2551) (-)

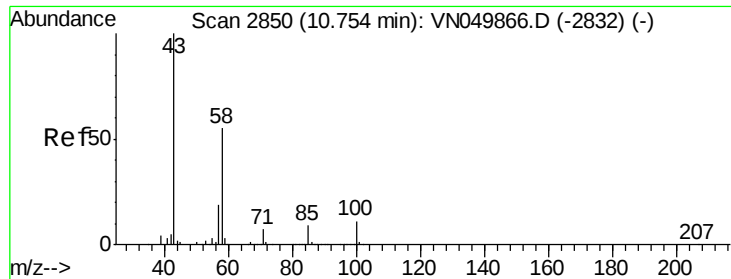
Ion 3349.00 (3348.70 to 3349.70): VN049937.D (-2551) (-)

Ion 3375.00 (3374.70 to 3375.70): VN049937.D (-2551) (-)

Ion 3401.00 (3400.70 to 3401.70): VN049937.D (-2551) (-)

Ion 3427.00 (3426.70 to 3427.70): VN049937.D (-2551) (-)

Ion 3453.00 (3452.



#59

2-Hexanone

Concen: 2.65 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049937.D

Acq: 20 Jul 2018 1:04

Instrument :

MSVOA_N

ClientSampleId :

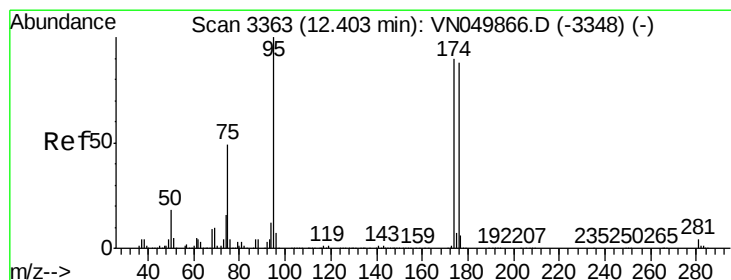
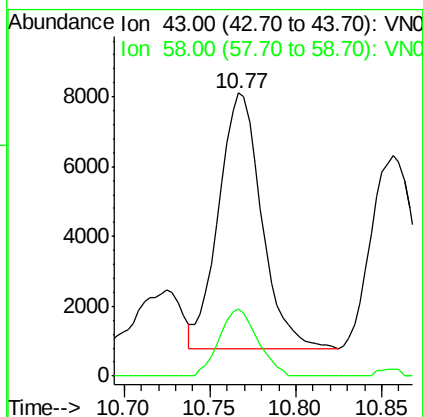
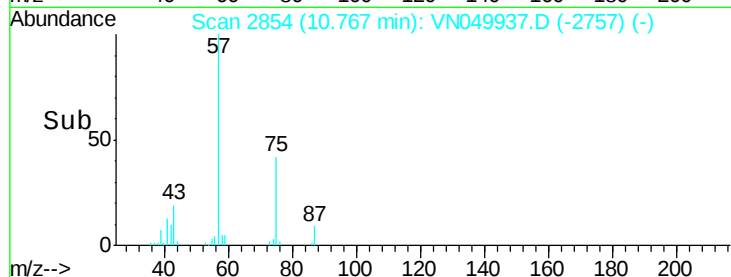
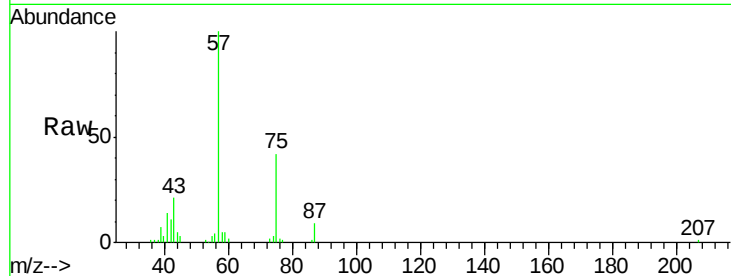
CB-TCLP-11-1-0718

Tot Ion: 43 Resp: 12727

Ion Ratio Lower Upper

43 100

58 23.4 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 34.83 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049937.D

Acq: 20 Jul 2018 1:04

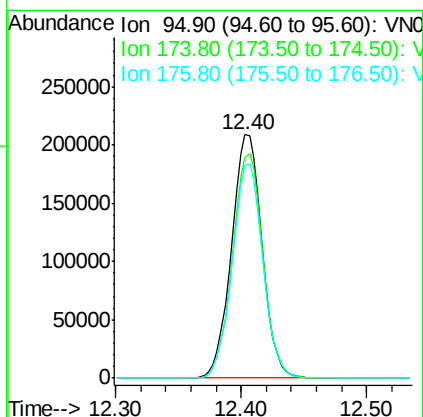
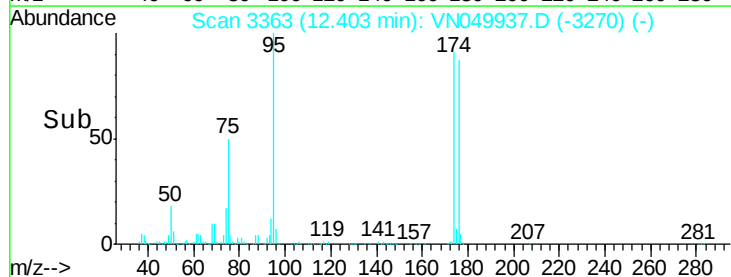
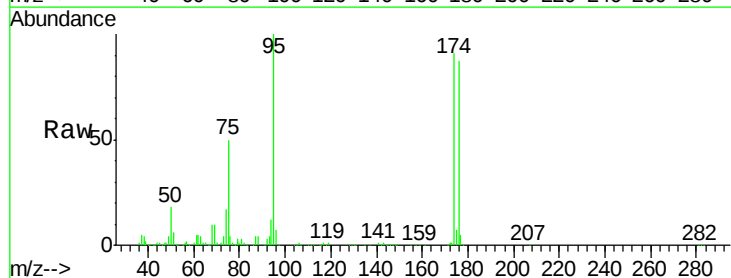
Tgt Ion: 95 Resp: 352063

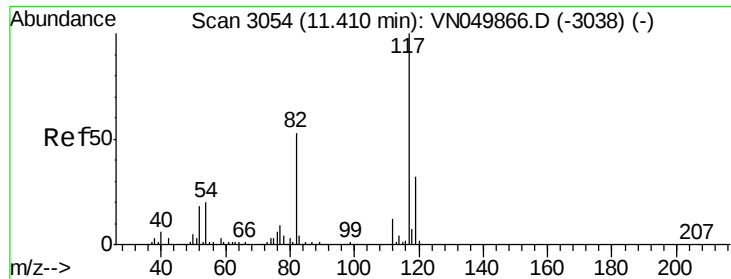
Ion Ratio Lower Upper

95 100

174 92.4 0.0 179.6

176 88.1 0.0 174.0

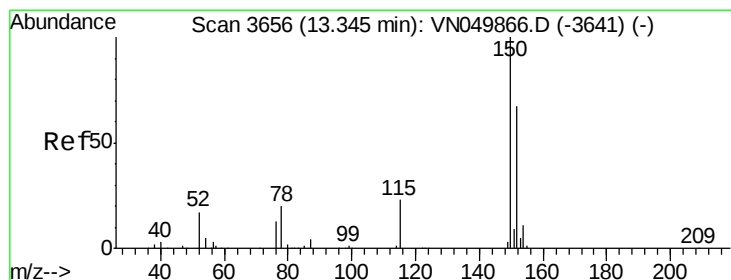
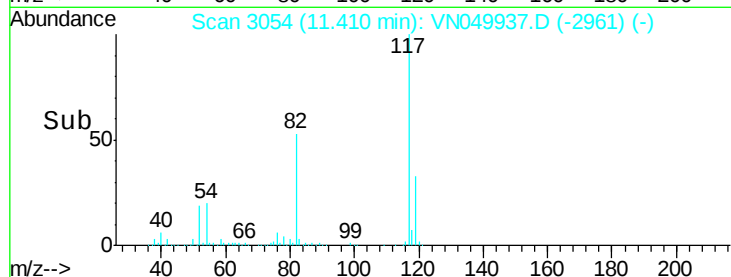
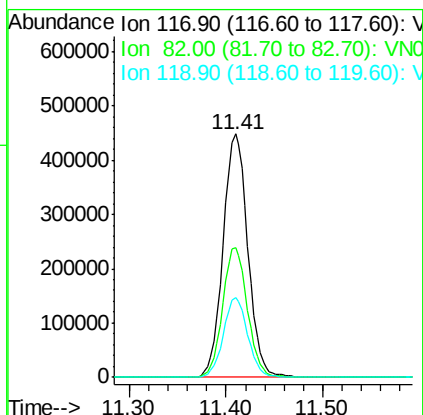
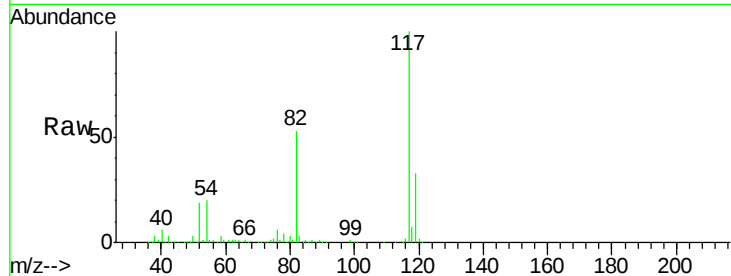




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049937.D
Acq: 20 Jul 2018 1:04

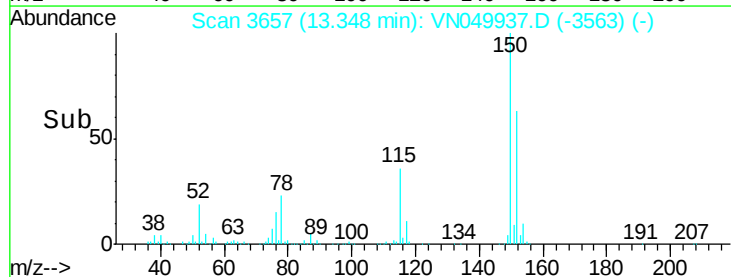
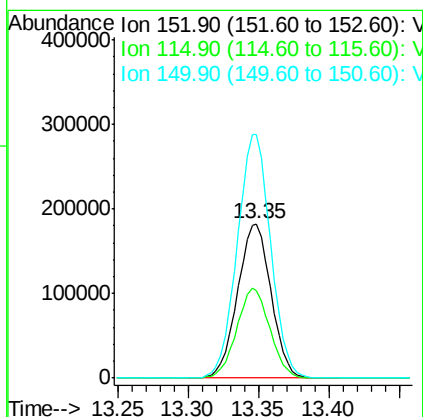
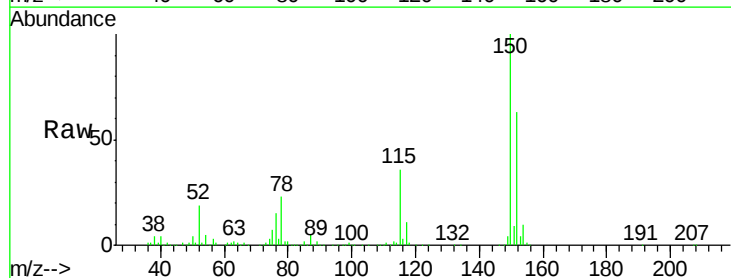
Instrument :
MSVOA_N
ClientSampleId :
CB-TCLP-11-1-0718

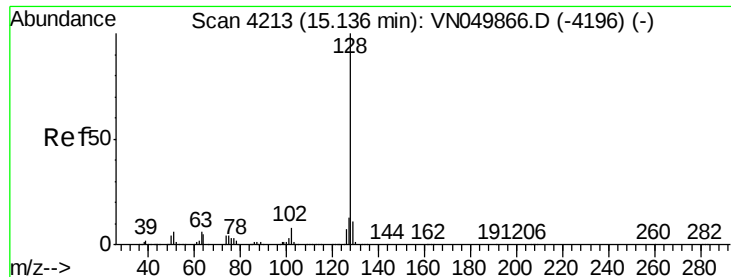
Tot Ion:117 Resp: 796348
Ion Ratio Lower Upper
117 100
82 53.4 41.9 62.9
119 32.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3657
Delta R.T. 0.00 min
Lab File: VN049937.D
Acq: 20 Jul 2018 1:04

Tgt Ion:152 Resp: 304036
Ion Ratio Lower Upper
152 100
115 57.5 28.1 84.2
150 157.2 0.0 347.6





#95

Naphthalene

Concen: 13.86 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049937.D

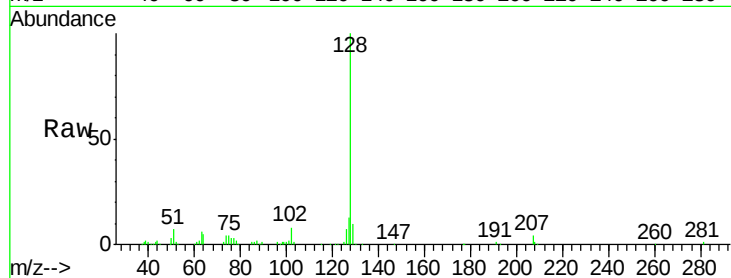
Acq: 20 Jul 2018 1:04

Instrument :

MSVOA_N

ClientSampleId :

CB-TCLP-11-1-0718



Tot Ion:128 Resp: 148246

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 10.7 8.6 13.0

