

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054394.D
 Acq On : 18 Mar 2019 15:21
 Operator : JC/SP
 Sample : K1970-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 05:12:33 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	1874278	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2664739	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2228722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	796216	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	882321	44.33	ug/l	0.00
Spiked Amount			Recovery	=	88.66%	
35) Dibromofluoromethane	7.59	113	798915	46.49	ug/l	0.00
Spiked Amount			Recovery	=	92.98%	
50) Toluene-d8	10.09	98	3075283	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
62) 4-Bromofluorobenzene	12.40	95	907548	40.86	ug/l	0.00
Spiked Amount			Recovery	=	81.72%	

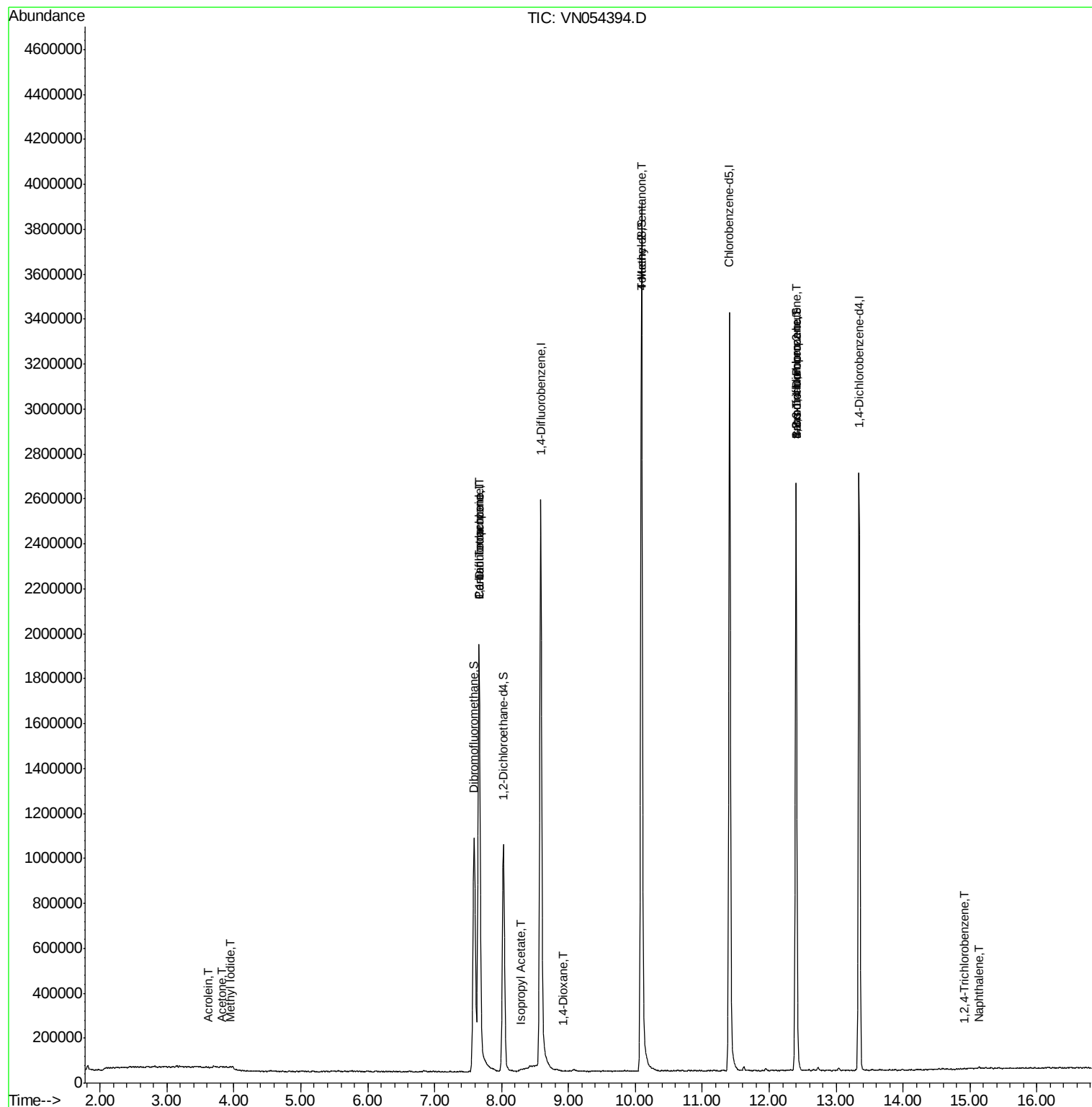
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.93	142	325	1.508	ug/l #	19
13) Acrolein	3.62	56	578	0.447	ug/l #	31
16) Acetone	3.82	43	2597	0.456	ug/l	91
31) Cyclohexane	7.66	56	26308	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	106685	4.347	ug/l #	48
38) Carbon Tetrachloride	7.66	117	154194	5.992	ug/l #	16
43) Isopropyl Acetate	8.28	43	9213	0.372	ug/l #	60
49) 1,4-Dioxane	8.93	88	68	0.383	ug/l #	27
51) 4-Methyl-2-Pentanone	10.09	43	9788	0.747	ug/l #	1
71) Bromoform	12.40	173	6253	2.790	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	434105	37.075	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	434105	126.740	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	1431	2.598	ug/l	85
95) Naphthalene	15.13	128	7214	3.662	ug/l #	94

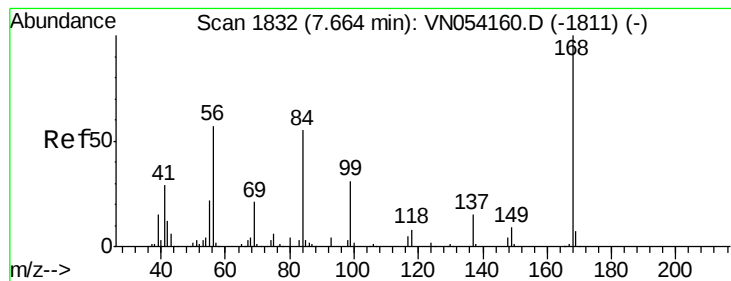
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054394.D

Acq: 18 Mar 2019 15:21

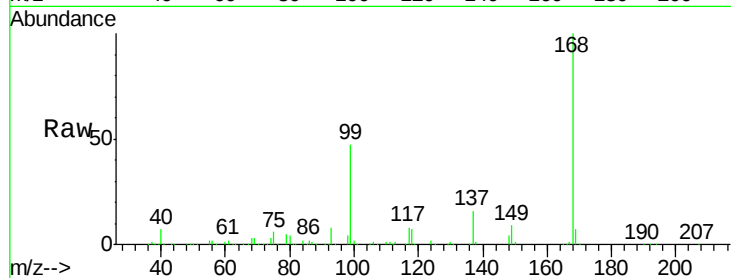
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1874278

Ion Ratio Lower Upper

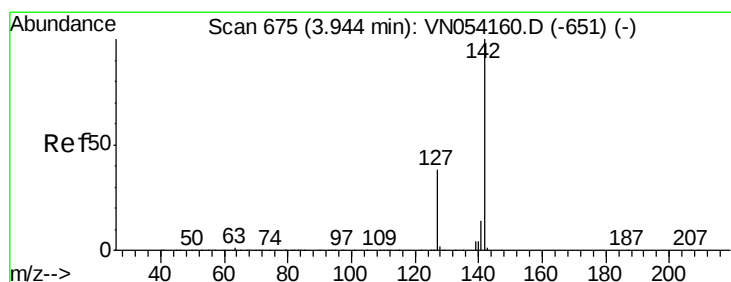
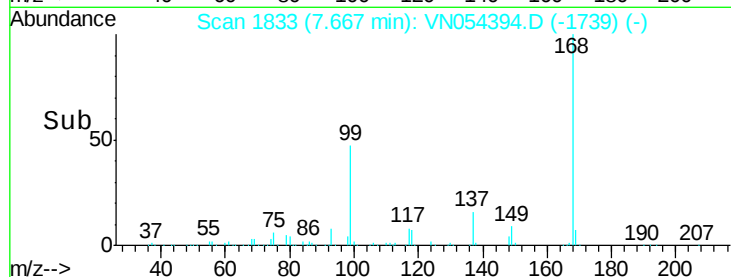
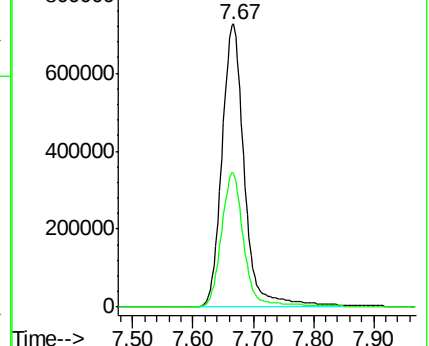
168 100

99 47.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#10

Methyl Iodide

Concen: 1.508 ug/l

RT: 3.93 min Scan# 671

Delta R.T. -0.01 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

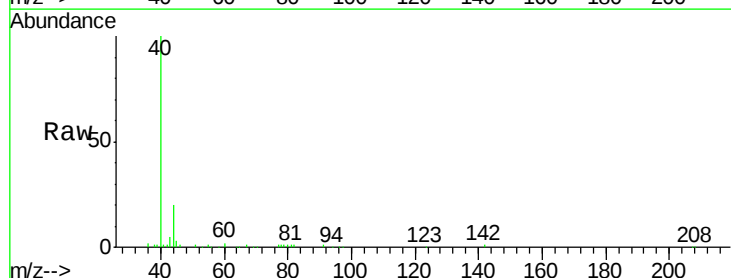
Tgt Ion:142 Resp: 325

Ion Ratio Lower Upper

142 100

127 96.9 30.3 45.5#

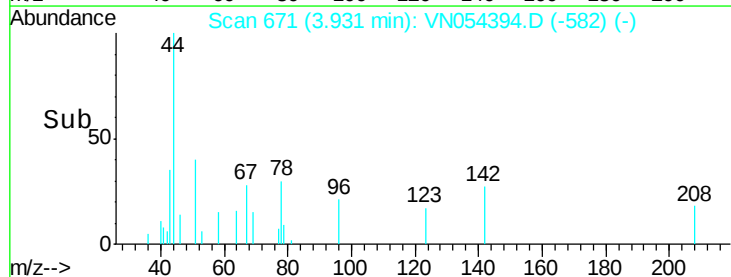
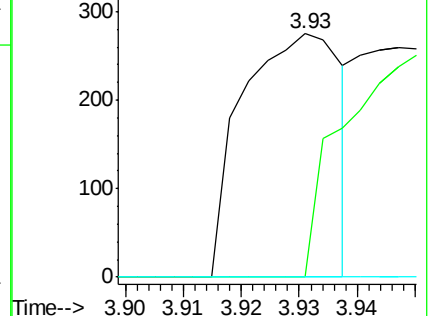
141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 0.447 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

Instrument :

MSVOA_N

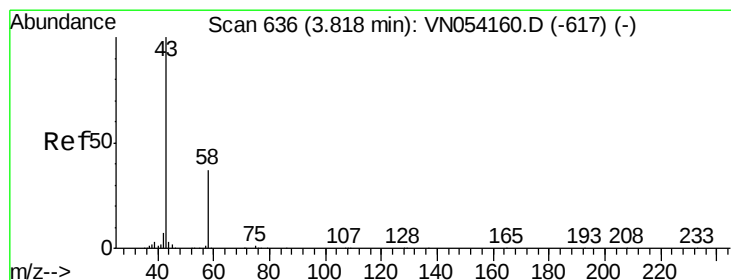
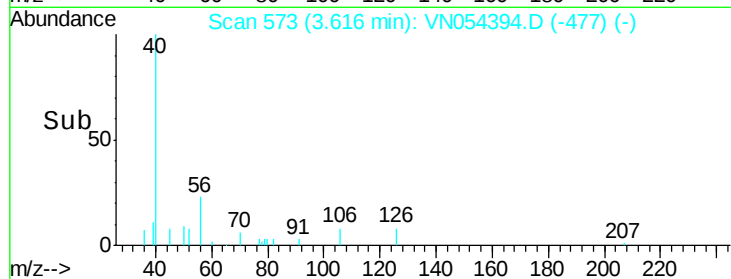
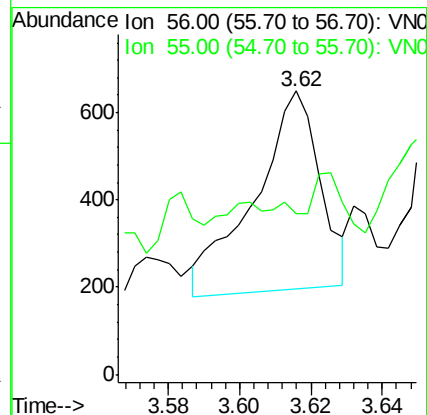
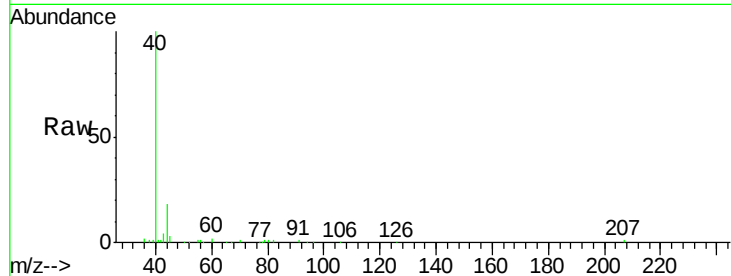
ClientSampled :

Tot Ion: 56 Resp: 578

Ion Ratio Lower Upper

56 100

55 13.5 56.7 85.1#



#16

Acetone

Concen: 0.456 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054394.D

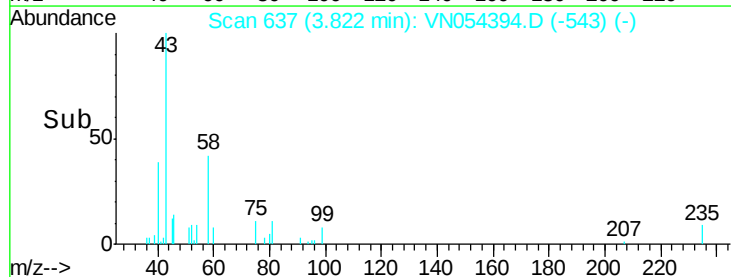
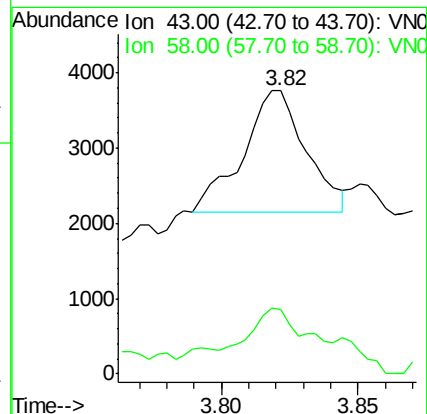
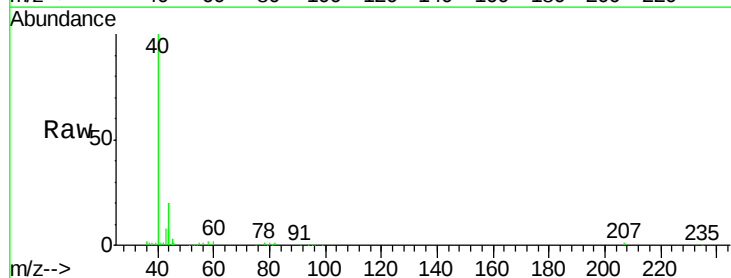
Acq: 18 Mar 2019 15:21

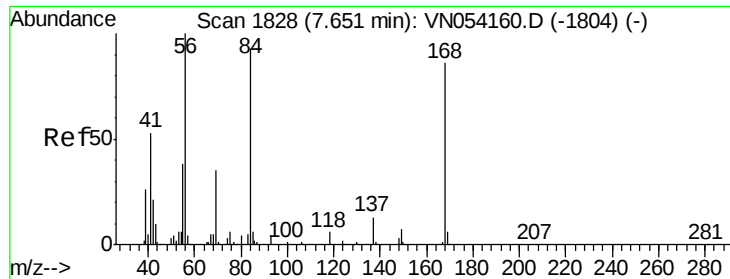
Tgt Ion: 43 Resp: 2597

Ion Ratio Lower Upper

43 100

58 32.3 29.9 44.9

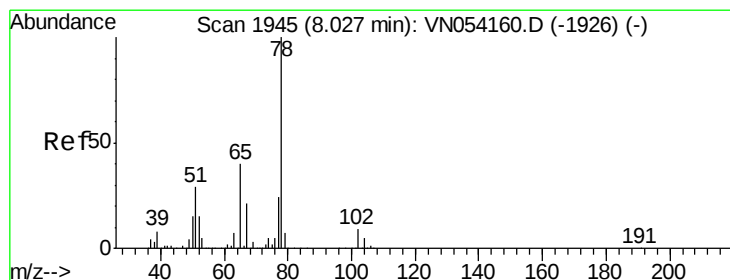
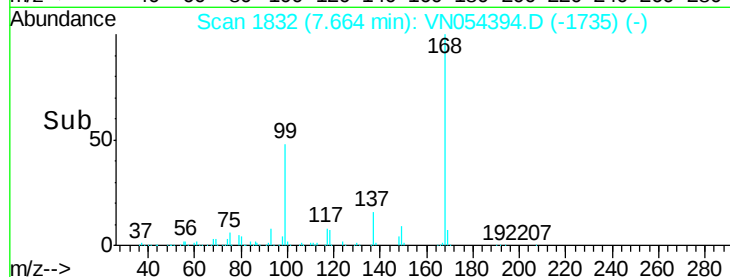
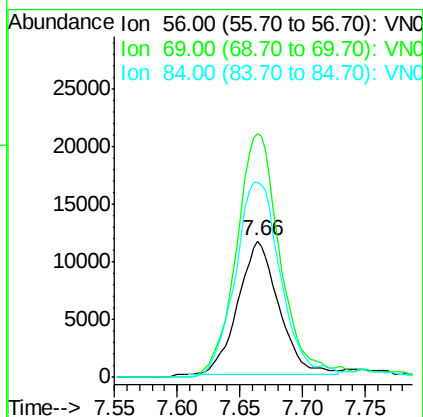
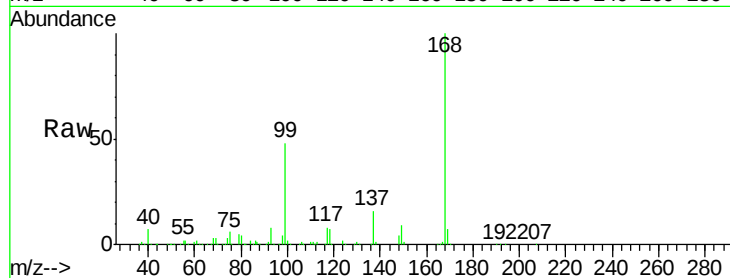




#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054394.D
Acq: 18 Mar 2019 15:21

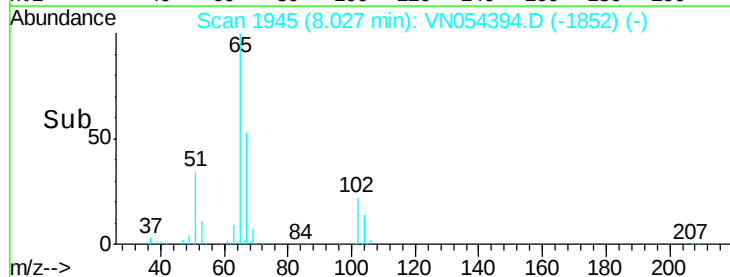
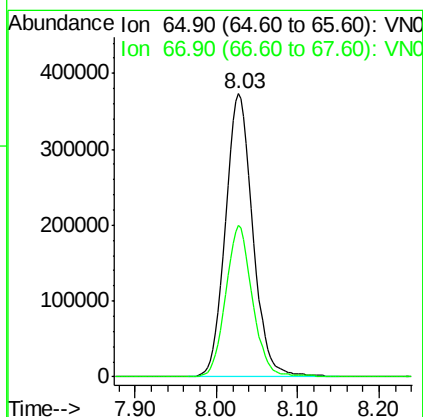
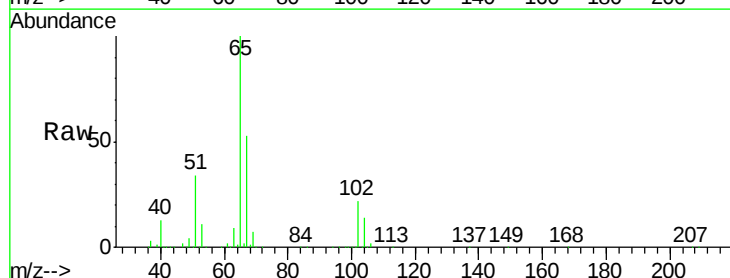
Instrument :
MSVOA_N
ClientSampled :

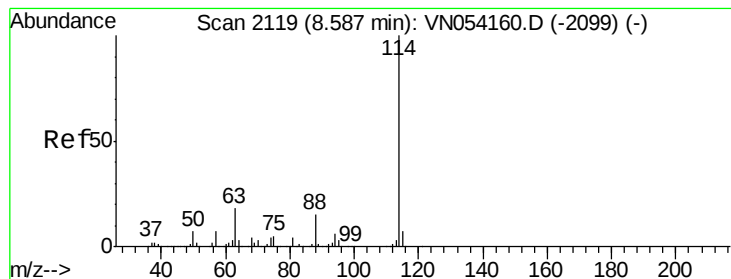
Tot Ion: 56 Resp: 26308
Ion Ratio Lower Upper
56 100
69 182.4 27.8 41.6#
84 145.8 74.6 111.8#



#33
1,2-Dichloroethane-d4
Concen: 44.327 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054394.D
Acq: 18 Mar 2019 15:21

Tgt Ion: 65 Resp: 882321
Ion Ratio Lower Upper
65 100
67 52.3 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

Instrument :

MSVOA_N

ClientSampleId :

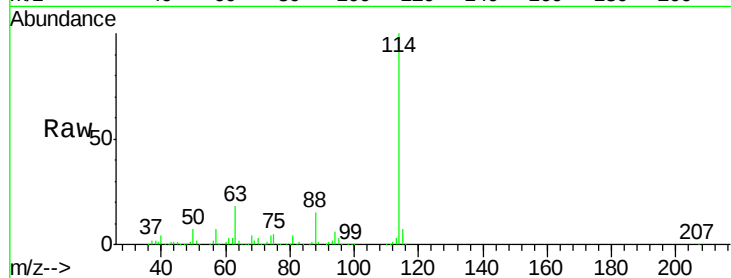
Tot Ion:114 Resp: 2664739

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.2

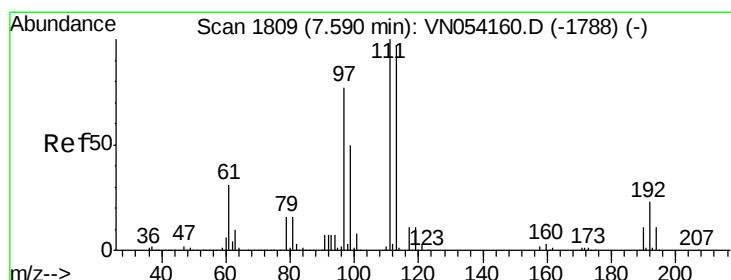
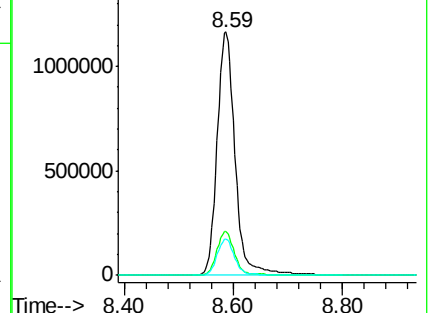
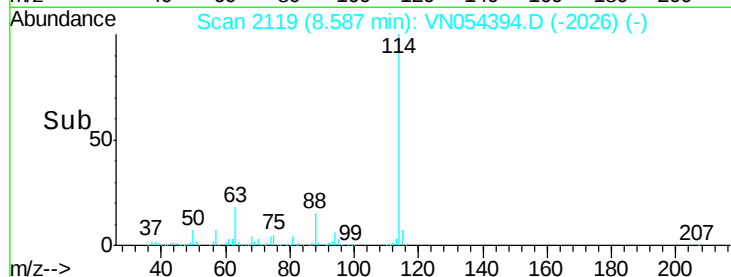
88 15.0 0.0 30.2



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: 46.485 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

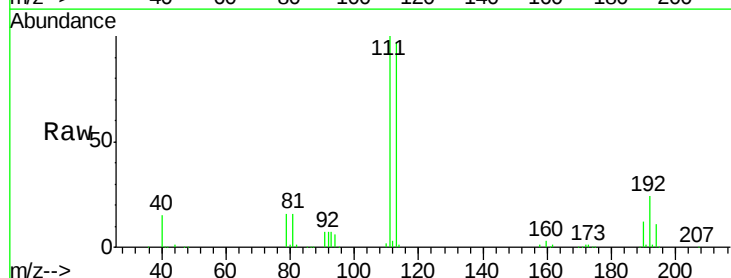
Tgt Ion:113 Resp: 798915

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

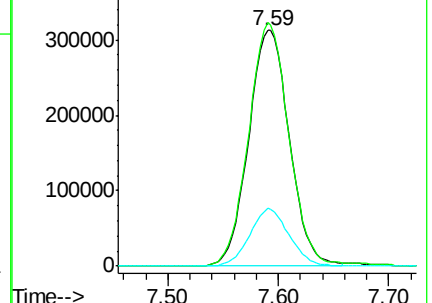
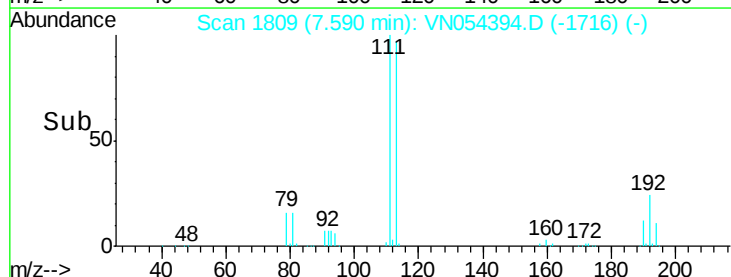
192 23.6 19.2 28.8

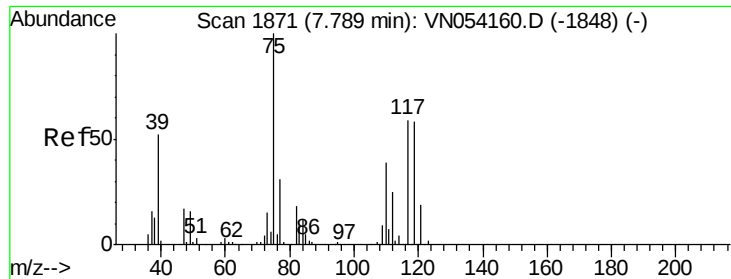


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

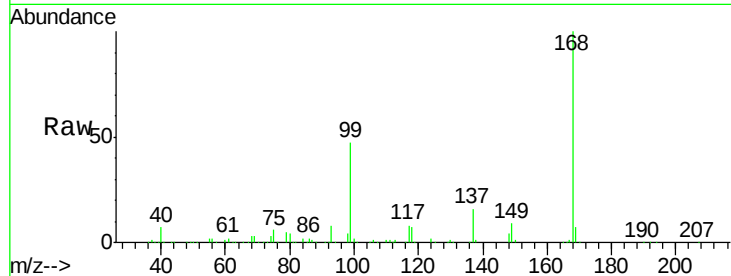




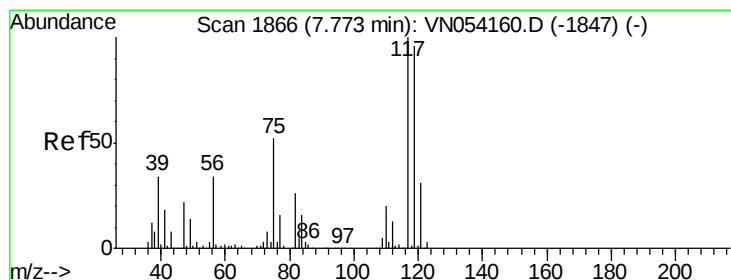
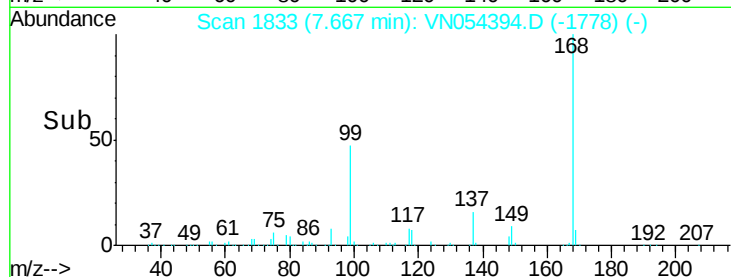
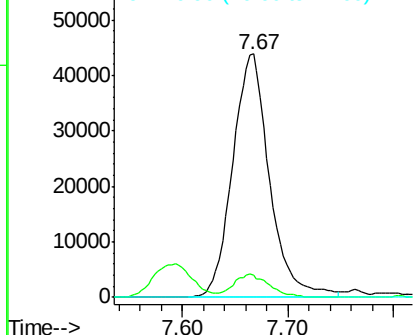
#36
 1,1-Dichloropropene
 Concen: 4.347 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054394.D
 Acq: 18 Mar 2019 15:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	19.1	57.5#
77	0.0	25.0	37.4#

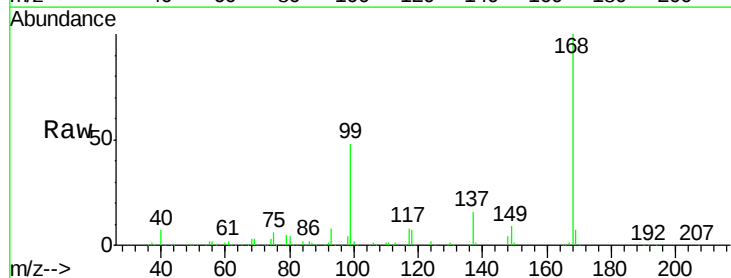


Abundance Ion 74.90 (74.60 to 75.60): VN054394.D (-1778) (-)
 Ion 109.90 (109.60 to 110.60): VN054394.D (-1778) (-)
 Ion 76.90 (76.60 to 77.60): VN054394.D (-1778) (-)

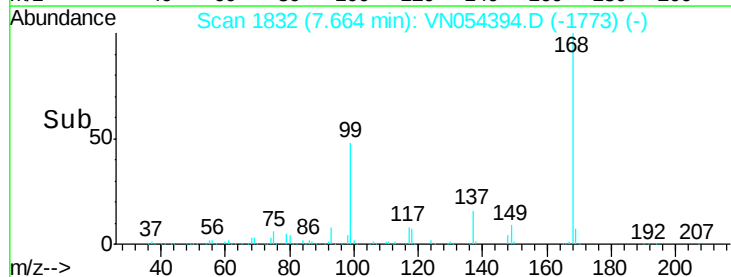
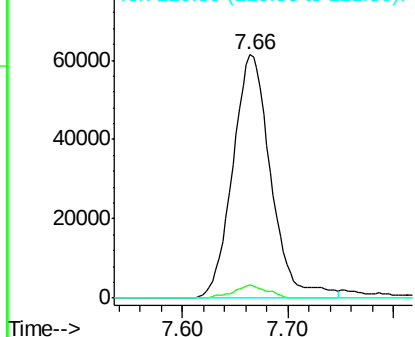


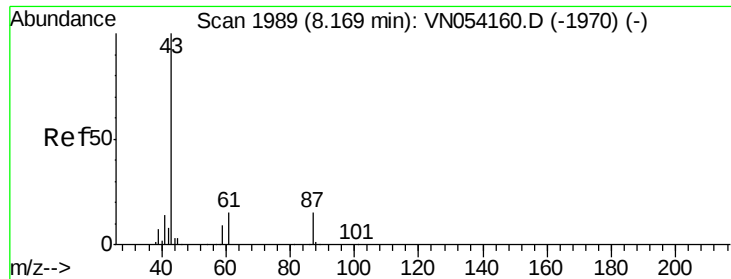
#38
 Carbon Tetrachloride
 Concen: 5.992 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054394.D
 Acq: 18 Mar 2019 15:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.3	114.5#
121	0.0	24.6	36.8#



Abundance Ion 116.80 (116.50 to 117.50): VN054394.D (-1773) (-)
 Ion 118.80 (118.50 to 119.50): VN054394.D (-1773) (-)
 Ion 120.80 (120.50 to 121.50): VN054394.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 0.372 ug/l

RT: 8.28 min Scan# 2024

Delta R.T. 0.11 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

Instrument :

MSVOA_N

ClientSampleId :

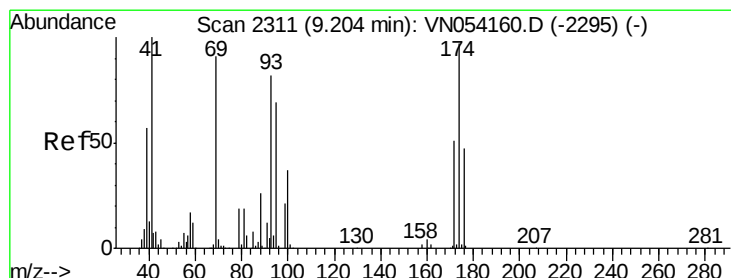
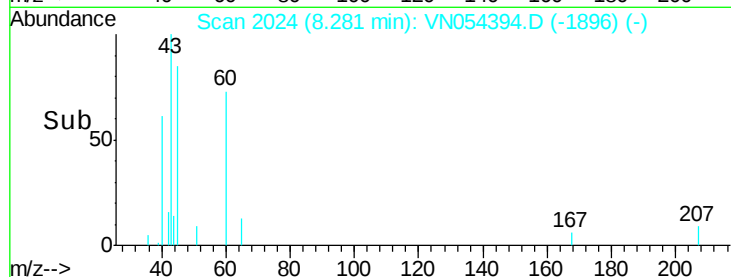
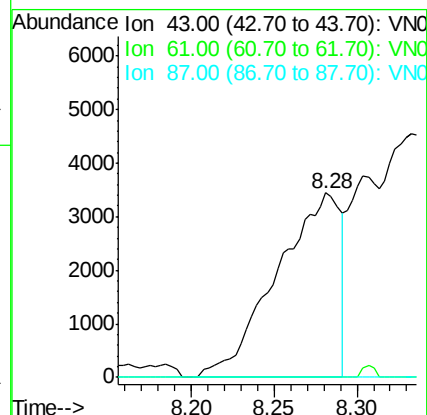
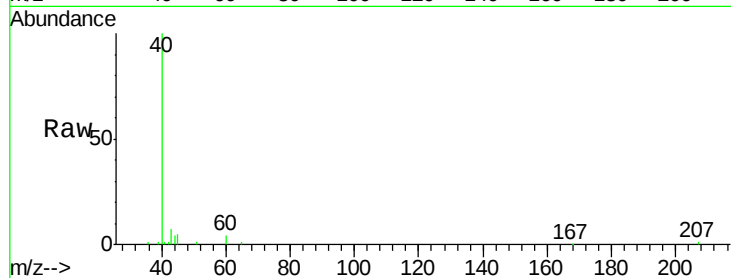
Tot Ion: 43 Resp: 9213

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

87 0.0 12.0 18.0#



#49

1,4-Dioxane

Concen: 0.383 ug/l

RT: 8.93 min Scan# 2225

Delta R.T. -0.28 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

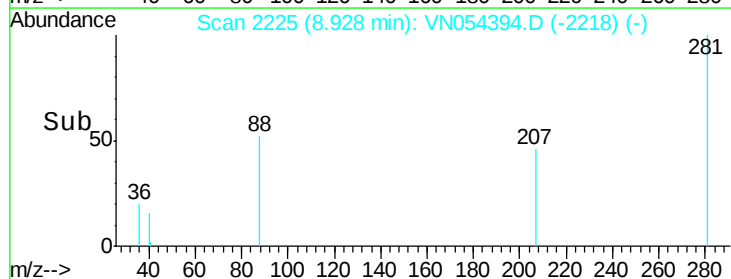
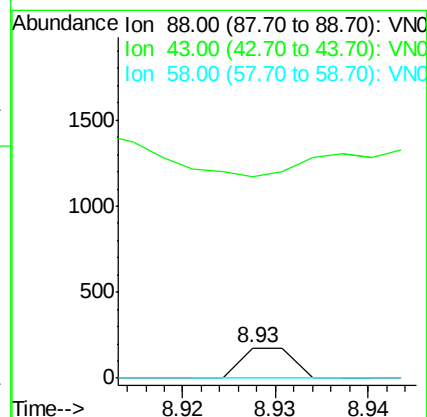
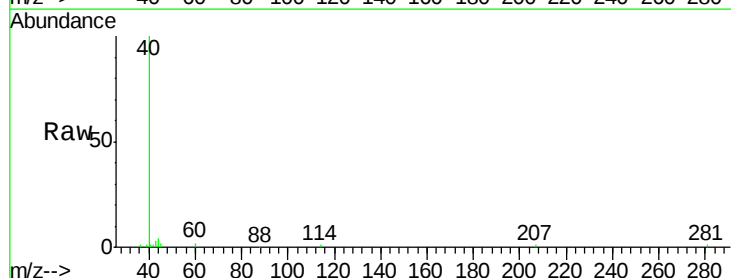
Tgt Ion: 88 Resp: 68

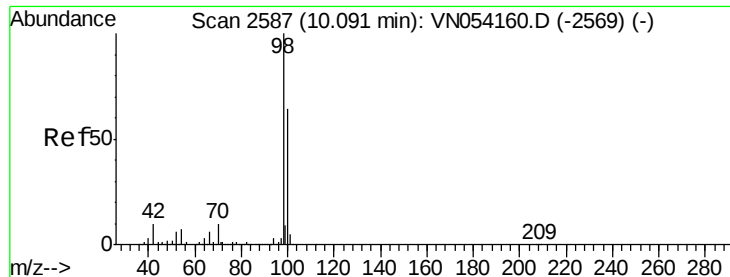
Ion Ratio Lower Upper

88 100

43 0.0 24.1 36.1#

58 0.0 50.8 76.2#





#50

Toluene-d8

Concen: 48.451 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

Instrument :

MSVOA_N

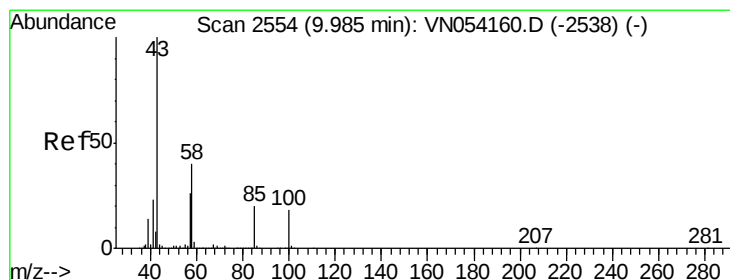
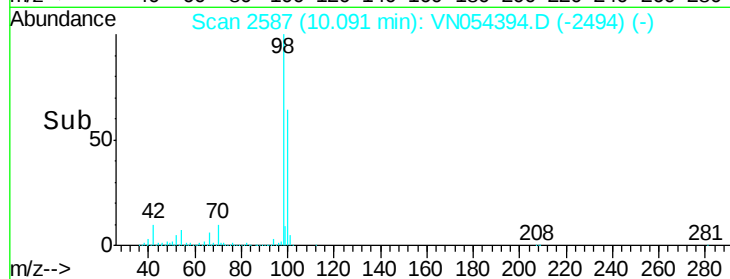
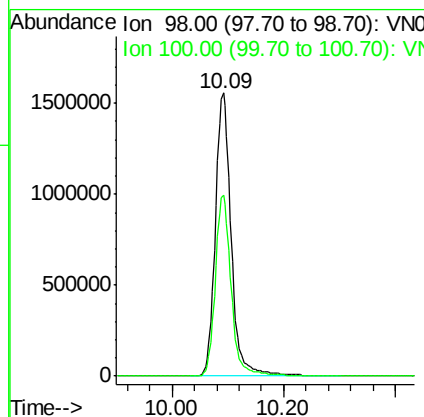
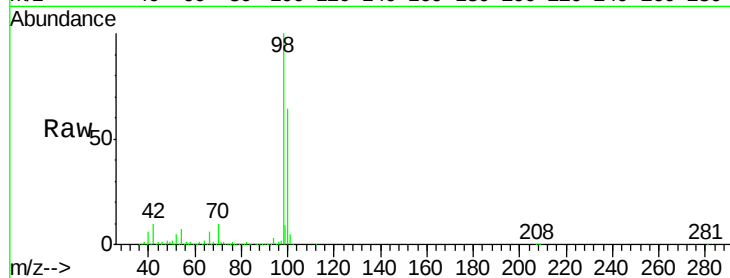
ClientSampleId :

Tot Ion: 98 Resp: 3075283

Ion Ratio Lower Upper

98 100

100 63.9 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 0.747 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN054394.D

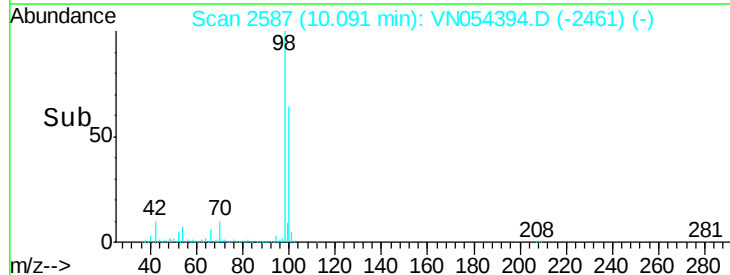
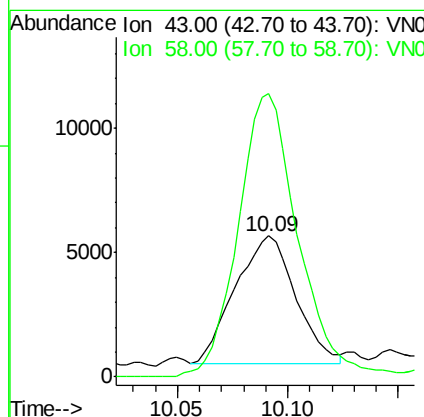
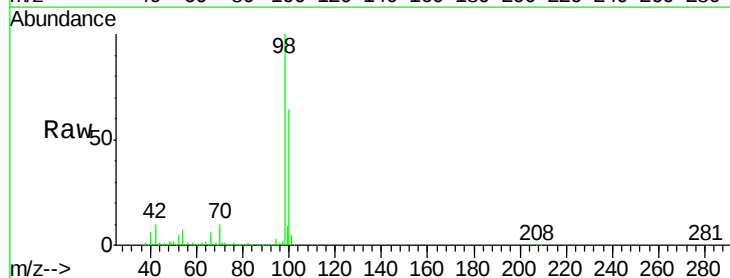
Acq: 18 Mar 2019 15:21

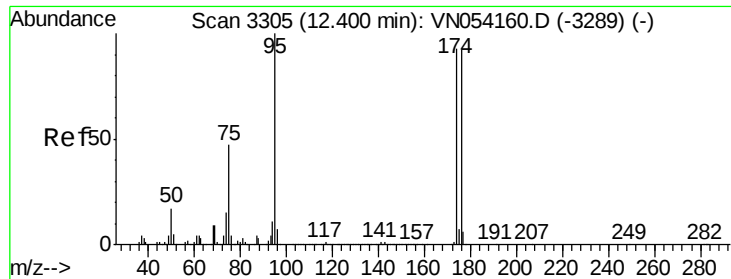
Tgt Ion: 43 Resp: 9788

Ion Ratio Lower Upper

43 100

58 219.7 31.8 47.6#





#62

4-Bromofluorobenzene

Concen: 40.864 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

Instrument :

MSVOA_N

ClientSampleId :

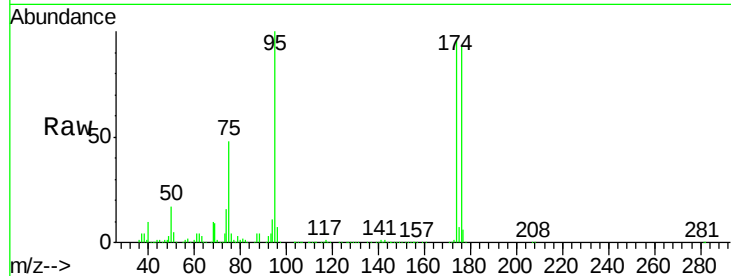
Tot Ion: 95 Resp: 907548

Ion Ratio Lower Upper

95 100

174 96.8 0.0 191.0

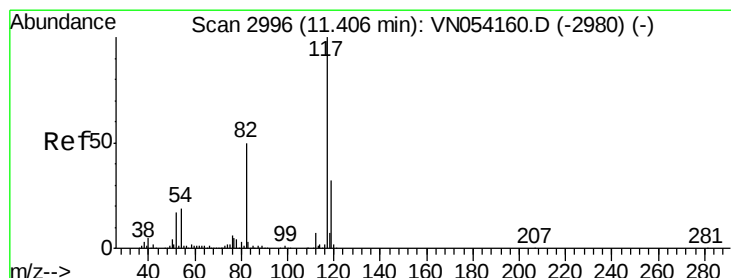
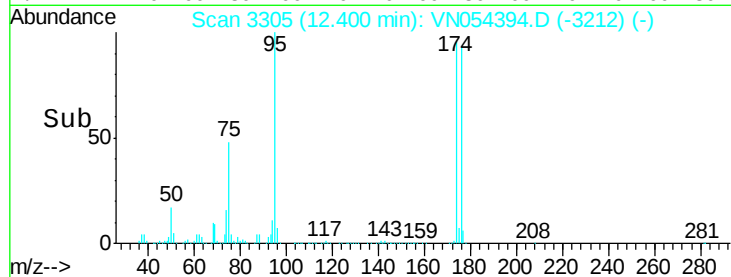
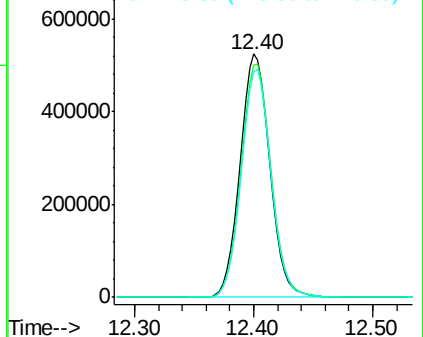
176 93.7 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054394.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN054394.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN054394.D (-3289) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

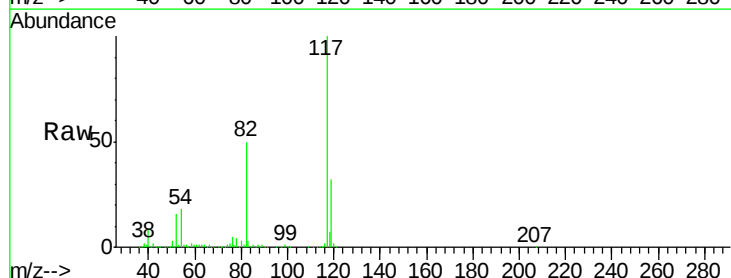
Tgt Ion: 117 Resp: 2228722

Ion Ratio Lower Upper

117 100

82 50.1 40.0 60.0

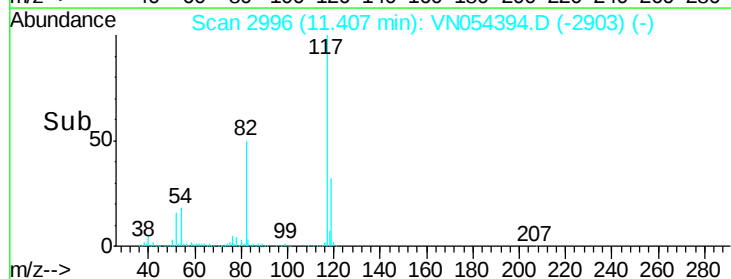
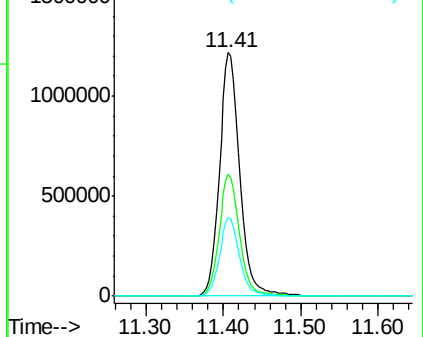
119 32.3 25.8 38.6

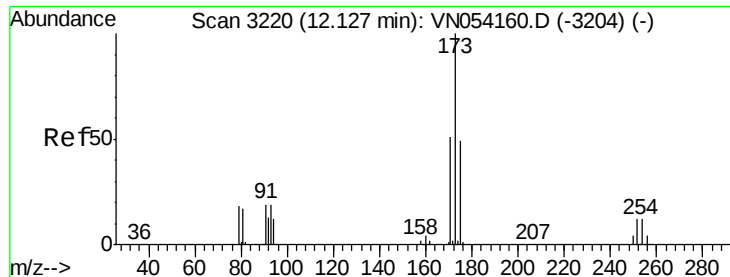


Abundance Ion 116.90 (116.60 to 117.60): VN054394.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN054394.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN054394.D (-2980) (-)





#71

Bromoform

Concen: 2.790 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

Instrument :

MSVOA_N

ClientSampled :

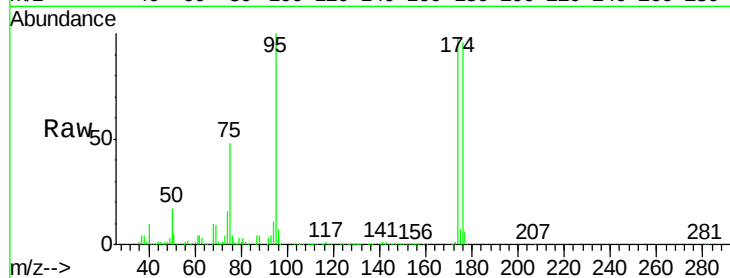
Tot Ion:173 Resp: 6253

Ion Ratio Lower Upper

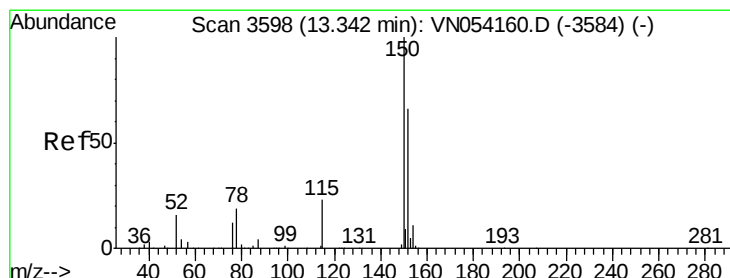
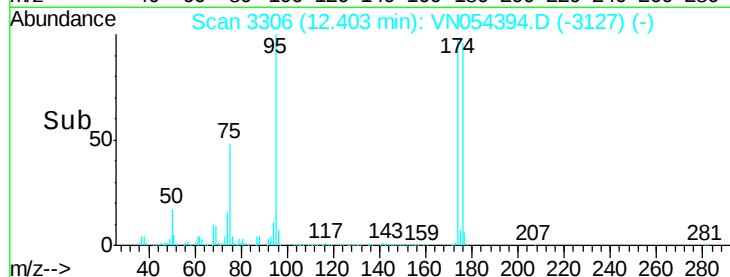
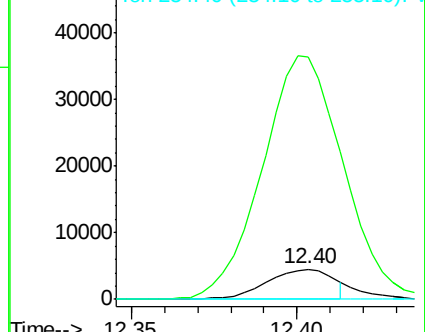
173 100

175 862.3 24.4 73.2#

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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

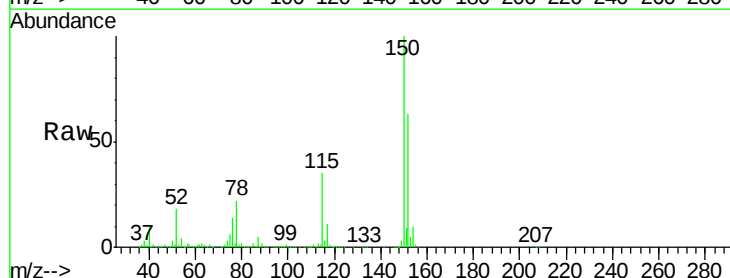
Tgt Ion:152 Resp: 796216

Ion Ratio Lower Upper

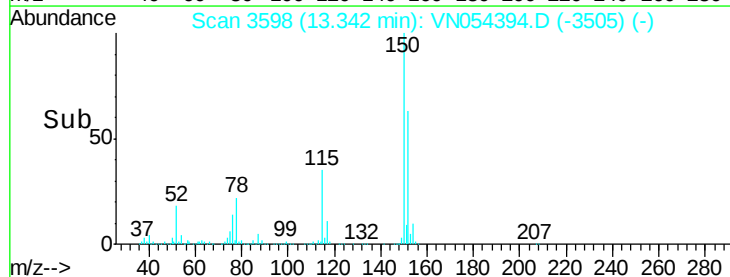
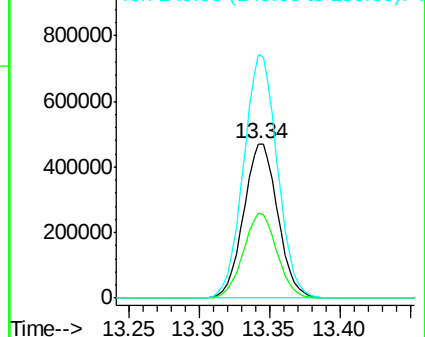
152 100

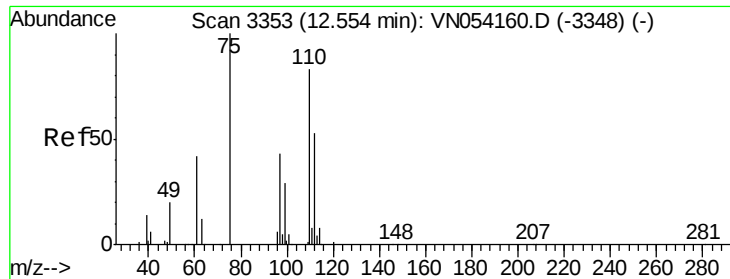
115 54.5 27.2 81.6

150 157.2 0.0 349.2



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: 37.075 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

Instrument :

MSVOA_N

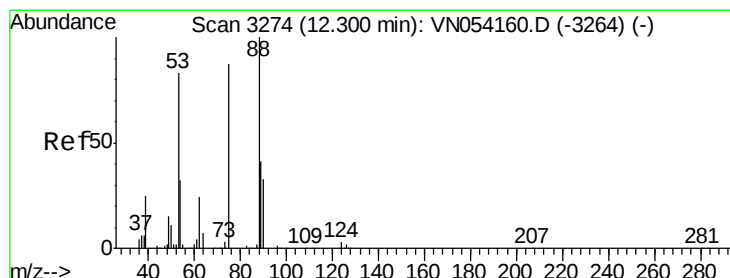
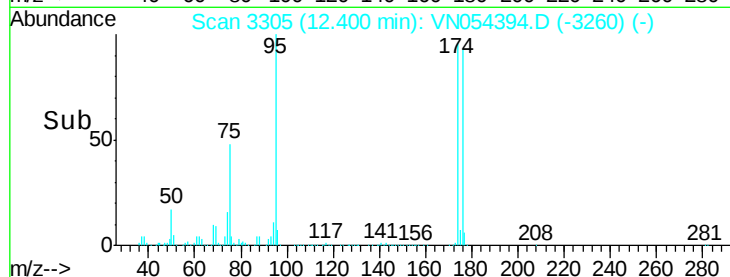
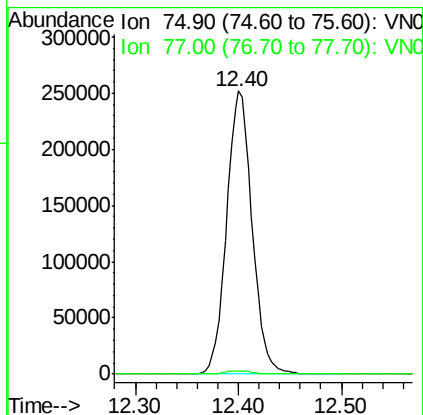
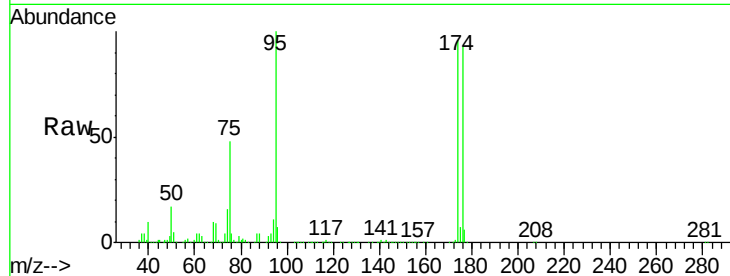
ClientSampled :

Tot Ion: 75 Resp: 434105

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 126.740 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054394.D

Acq: 18 Mar 2019 15:21

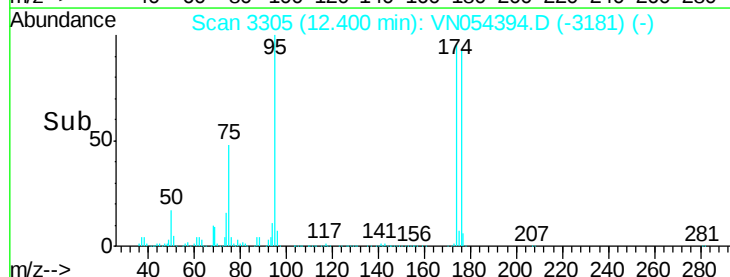
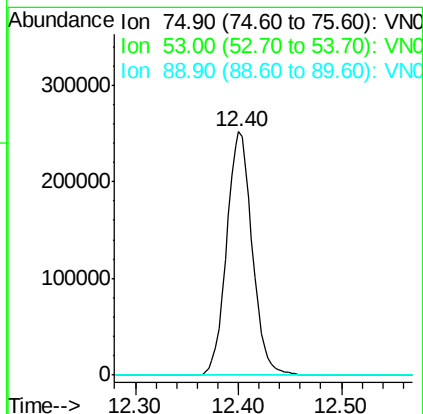
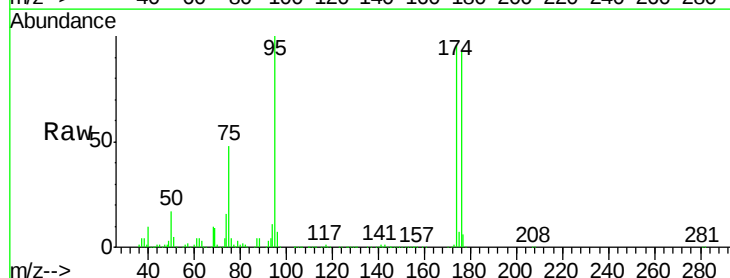
Tgt Ion: 75 Resp: 434105

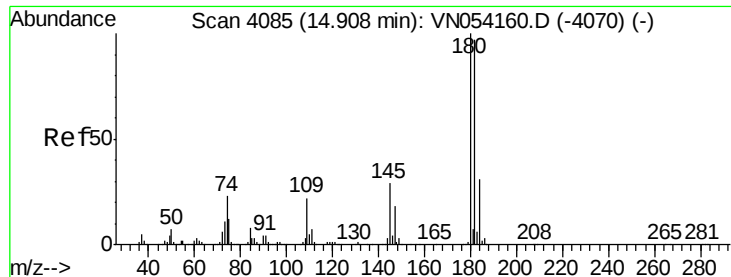
Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#

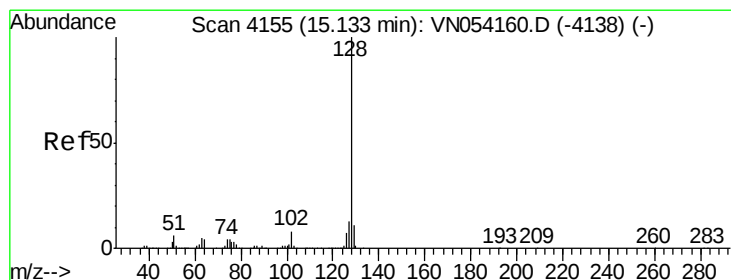
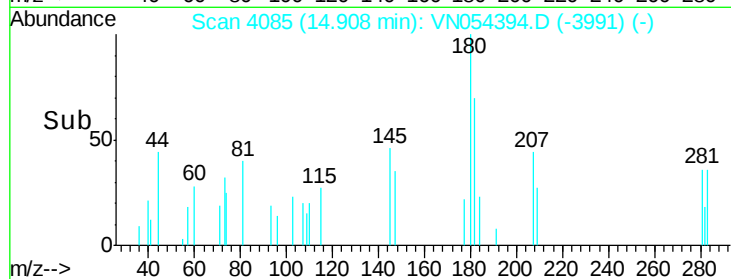
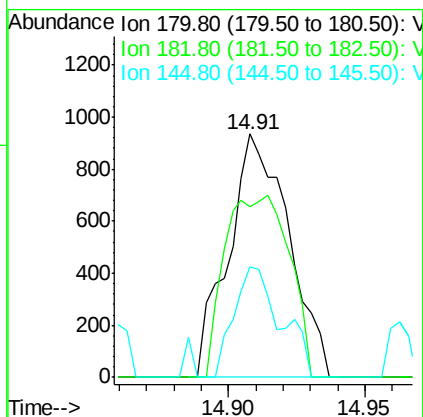
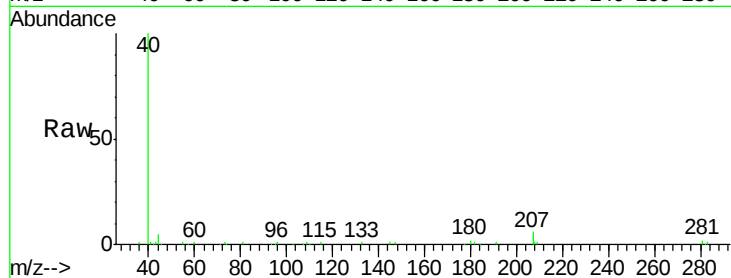




#93
 1,2,4-Trichlorobenzene
 Concen: 2.598 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054394.D
 Acq: 18 Mar 2019 15:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 1431
 Ion Ratio Lower Upper
 180 100
 182 80.6 48.0 144.2
 145 35.6 14.2 42.8



#95
 Naphthalene
 Concen: 3.662 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN054394.D
 Acq: 18 Mar 2019 15:21

Tgt Ion:128 Resp: 7214
 Ion Ratio Lower Upper
 128 100
 127 11.0 10.1 15.1
 129 14.4 8.7 13.1#

