

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054393.D
 Acq On : 18 Mar 2019 14:54
 Operator : JC/SP
 Sample : K1960-04DL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 05:12:17 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	7.66	168	1919392	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2739007	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2309606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	829089	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	921940	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
35) Dibromofluoromethane	7.59	113	821954	46.53	ug/l	0.00
Spiked Amount			Recovery	=	93.06%	
50) Toluene-d8	10.09	98	3151781	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
62) 4-Bromofluorobenzene	12.40	95	943170	41.32	ug/l	0.00
Spiked Amount			Recovery	=	82.64%	

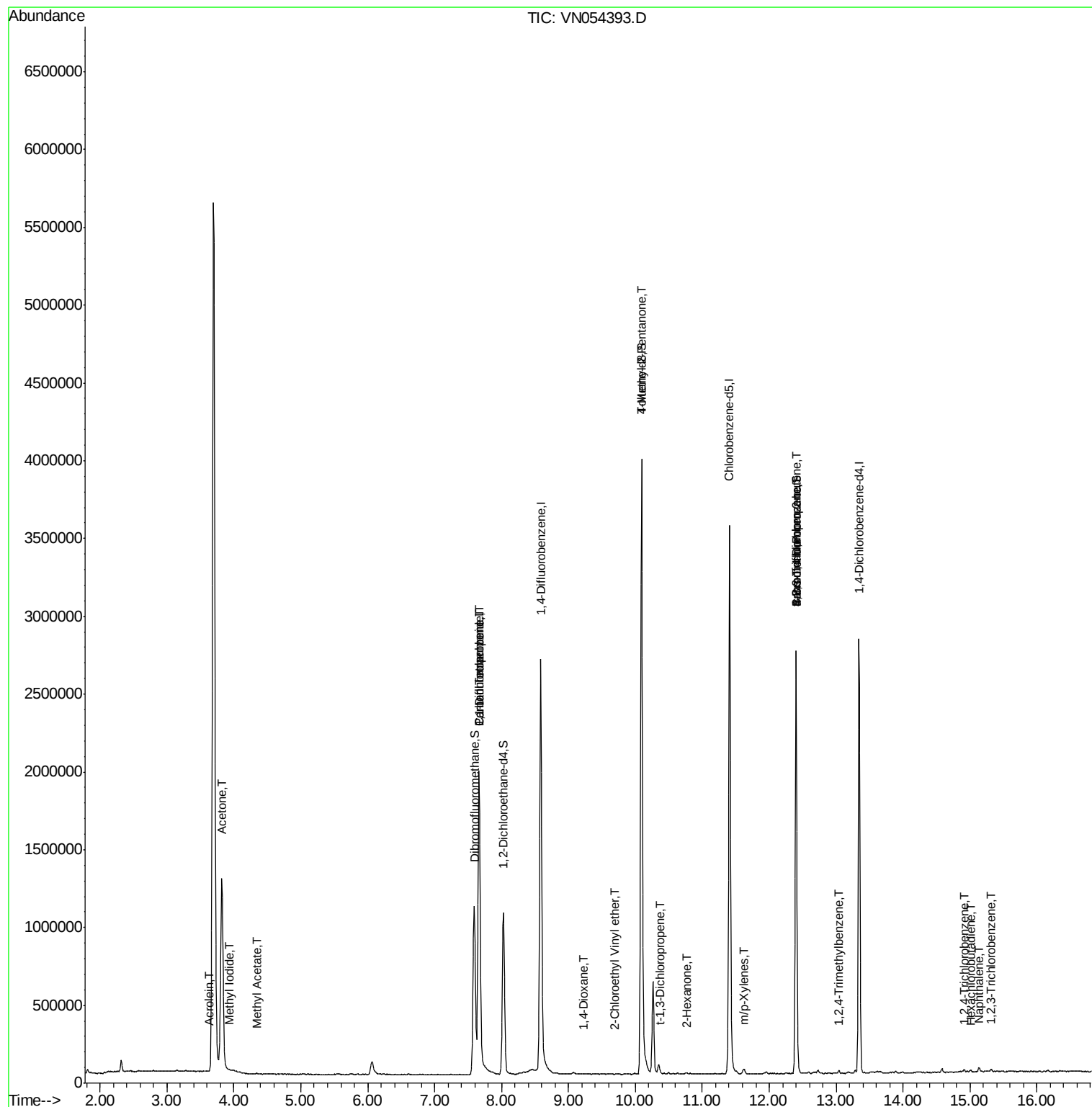
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	1055	1.533	ug/l #	62
13) Acrolein	3.62	56	4254	3.213	ug/l #	14
16) Acetone	3.82	43	1939849	332.371	ug/l	97
18) Methyl Acetate	4.33	43	3532	0.299	ug/l #	74
31) Cyclohexane	7.66	56	28327	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	112307	4.452	ug/l #	48
38) Carbon Tetrachloride	7.67	117	154508	5.841	ug/l #	16
49) 1,4-Dioxane	9.21	88	68	0.372	ug/l #	1
51) 4-Methyl-2-Pentanone	10.09	43	10050	0.746	ug/l #	1
53) t-1,3-Dichloropropene	10.37	75	308	1.997	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.70	63	60	16.834	ug/l #	44
59) 2-Hexanone	10.76	43	5363	0.599	ug/l	98
68) m/p-Xylenes	11.62	106	9794	0.298	ug/l	94
71) Bromoform	12.40	173	5678	2.736	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	446103	36.589	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	446103	125.079	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	14361	0.265	ug/l	91
93) 1,2,4-Trichlorobenzene	14.90	180	5407	2.811	ug/l	89
94) Hexachlorobutadiene	15.01	225	2556	0.232	ug/l	83
95) Naphthalene	15.13	128	25006	4.110	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	6595	0.429	ug/l	92

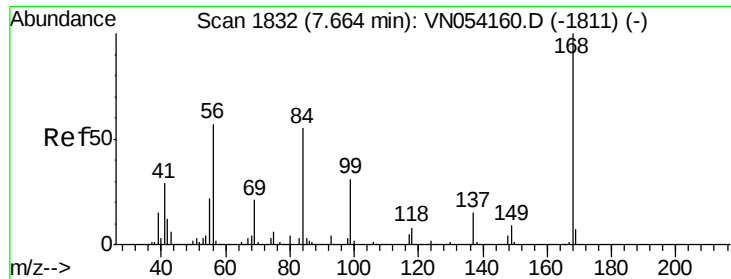
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN031819\
Data File : VN054393.D
Acq On : 18 Mar 2019 14:54
Operator : JC/SP
Sample : K1960-04DL
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Mar 19 05:12:17 2019
Quant Method : Z:\V0ASRV\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: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

Instrument :

MSVOA_N

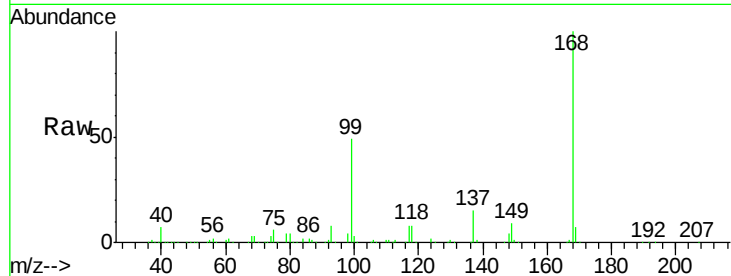
ClientSampled :

Tot Ion:168 Resp: 1919392

Ion Ratio Lower Upper

168 100

99 48.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

800000

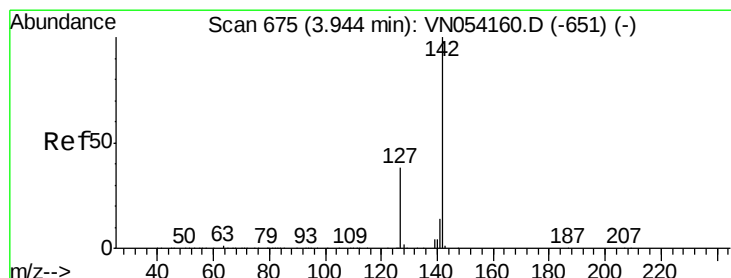
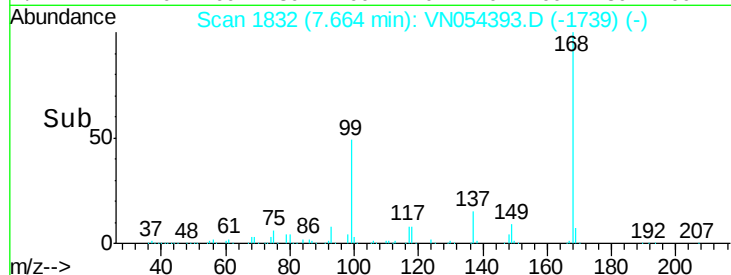
600000

400000

200000

0

Time-->



#10

Methyl Iodide

Concen: 1.533 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

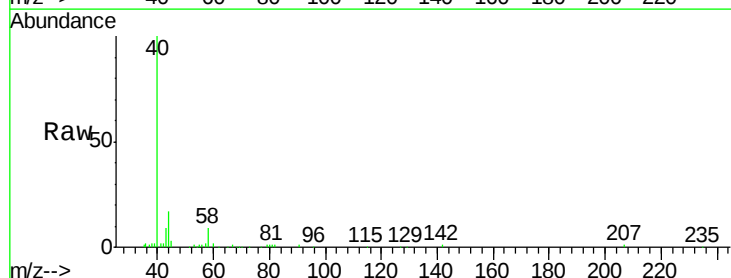
Tgt Ion:142 Resp: 1055

Ion Ratio Lower Upper

142 100

127 11.1 30.3 45.5#

141 6.1 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

800

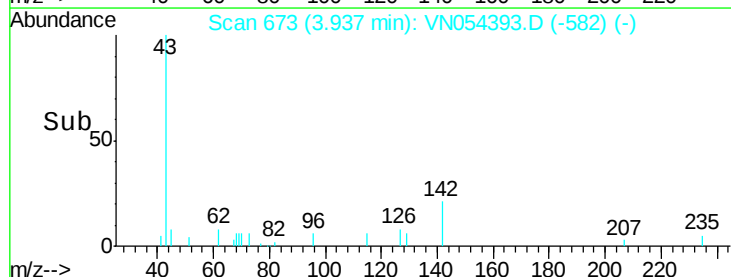
600

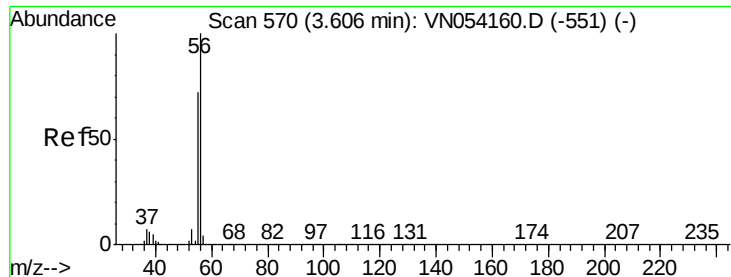
400

200

0

Time-->

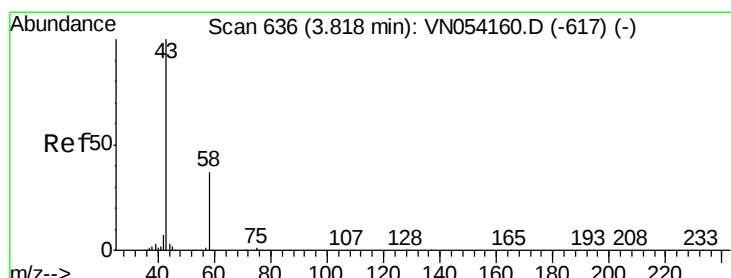
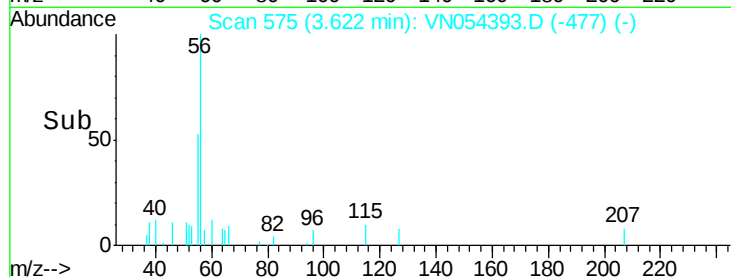
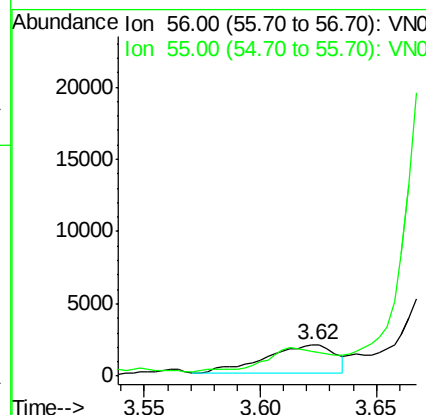
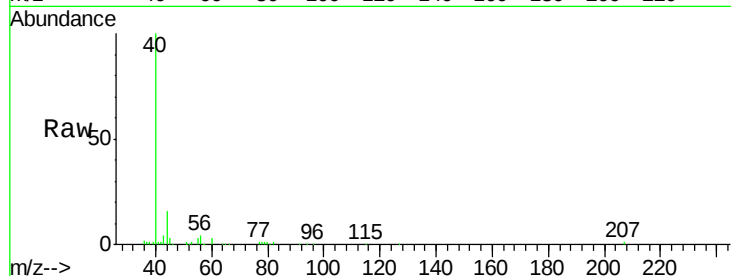




#13
Acrolein
Concen: 3.213 ug/l
RT: 3.62 min Scan# 575
Delta R.T. 0.02 min
Lab File: VN054393.D
Acq: 18 Mar 2019 14:54

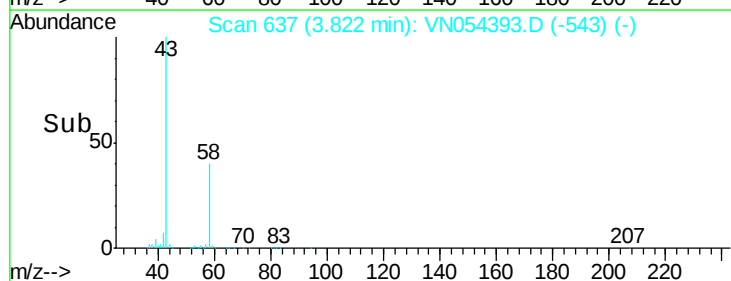
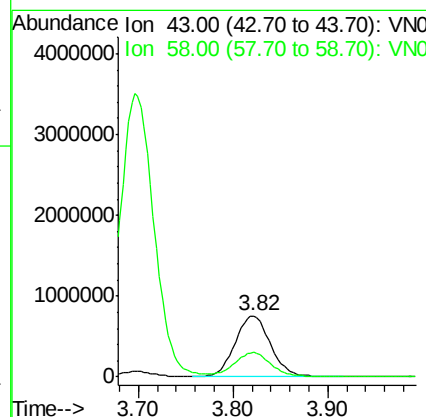
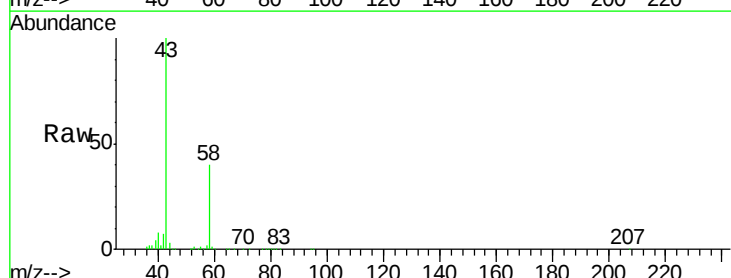
Instrument :
MSVOA_N
ClientSampled :

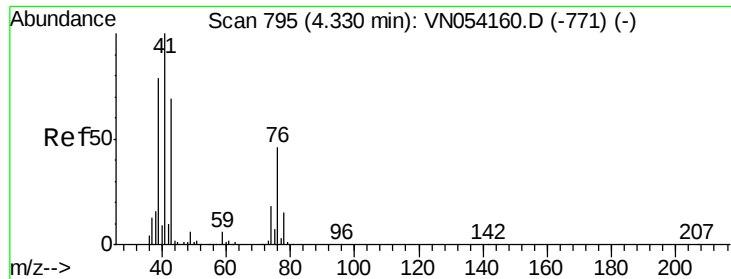
Tot Ion: 56 Resp: 4254
Ion Ratio Lower Upper
56 100
55 0.0 56.7 85.1#



#16
Acetone
Concen: 332.371 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN054393.D
Acq: 18 Mar 2019 14:54

Tgt Ion: 43 Resp: 1939849
Ion Ratio Lower Upper
43 100
58 39.3 29.9 44.9

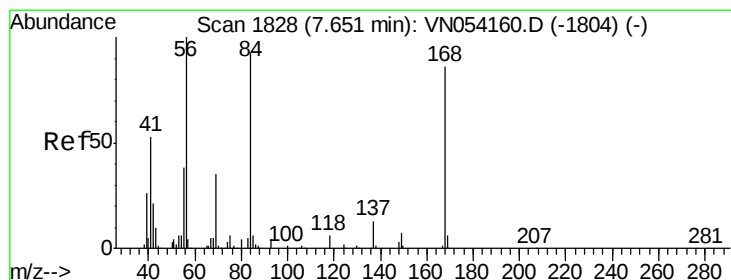
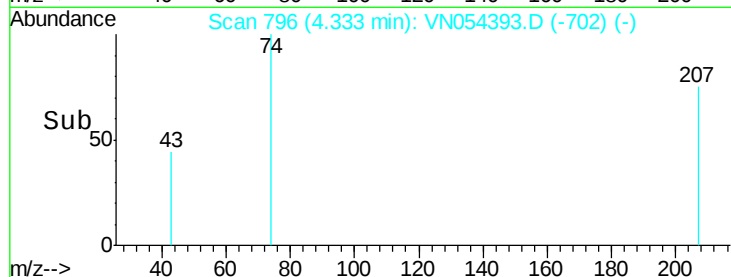
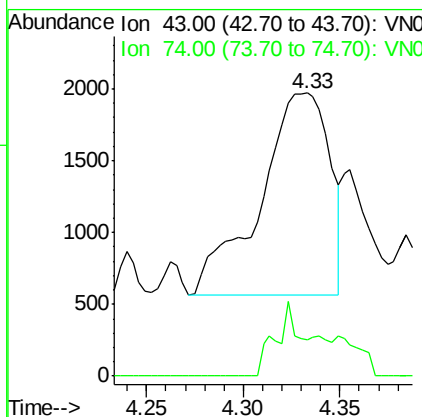
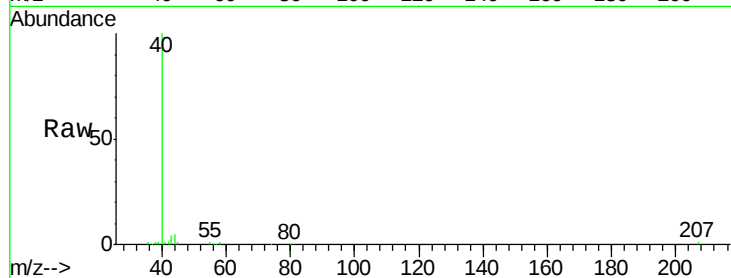




#18
Methyl Acetate
Concen: 0.299 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054393.D
Acq: 18 Mar 2019 14:54

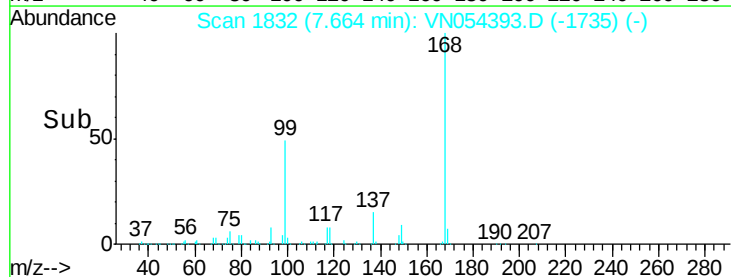
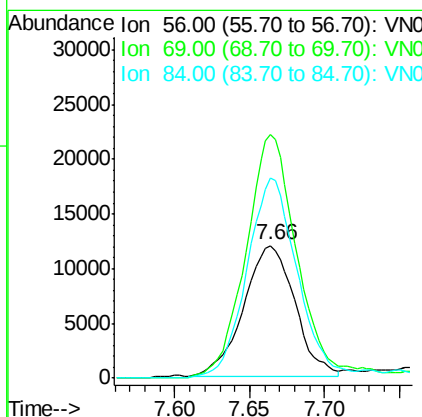
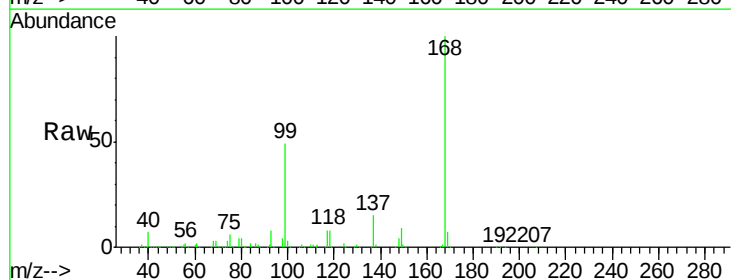
Instrument :
MSVOA_N
ClientSampleId :

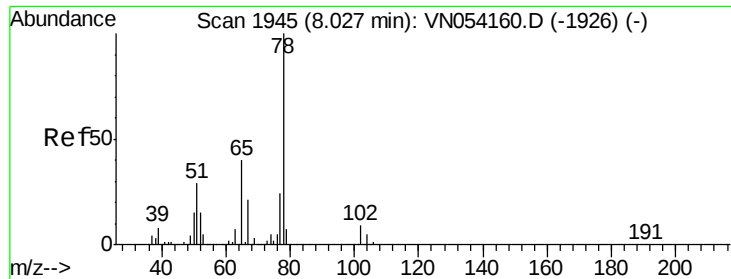
Tot Ion: 43 Resp: 3532
Ion Ratio Lower Upper
43 100
74 12.5 20.8 31.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054393.D
Acq: 18 Mar 2019 14:54

Tgt Ion: 56 Resp: 28327
Ion Ratio Lower Upper
56 100
69 186.9 27.8 41.6#
84 153.7 74.6 111.8#

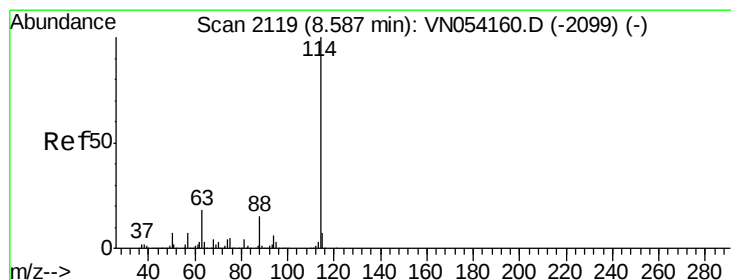
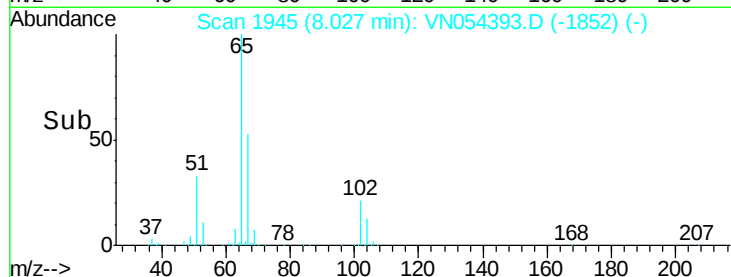
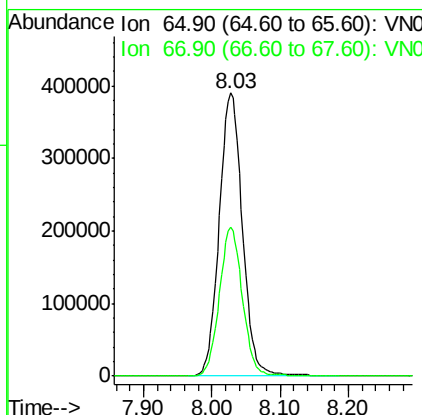
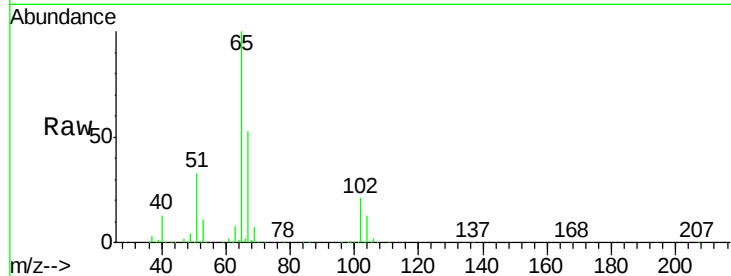




#33
 1,2-Dichloroethane-d4
 Concen: 45.229 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054393.D
 Acq: 18 Mar 2019 14:54

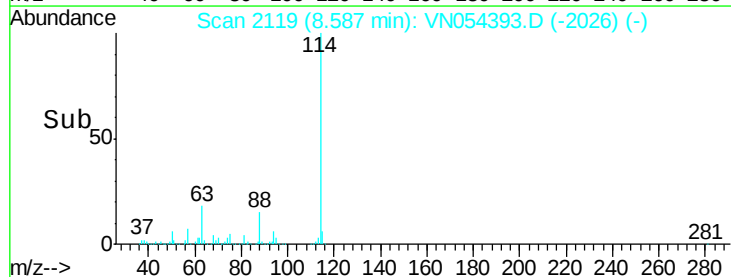
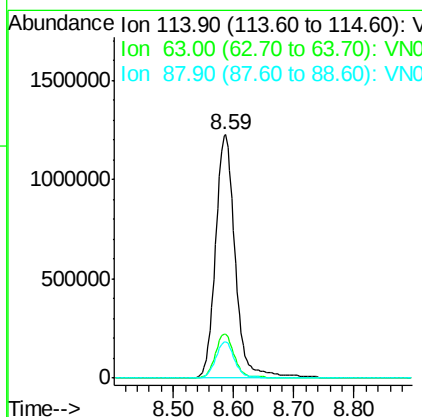
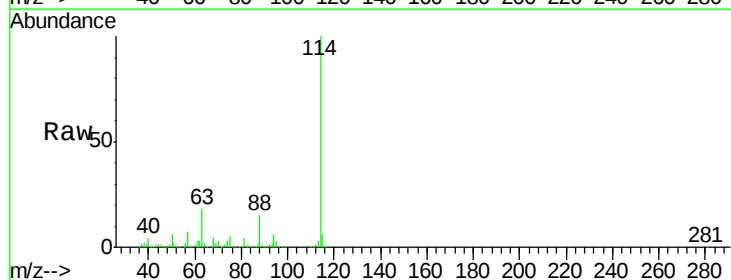
Instrument :
 MSVOA_N
 ClientSampleId :

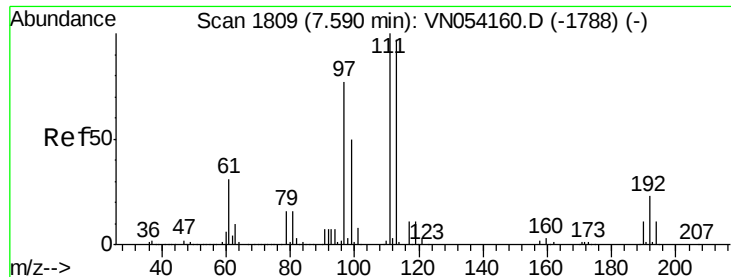
Tot Ion: 65 Resp: 921940
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054393.D
 Acq: 18 Mar 2019 14:54

Tgt Ion: 114 Resp: 2739007
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.2
 88 15.0 0.0 30.2

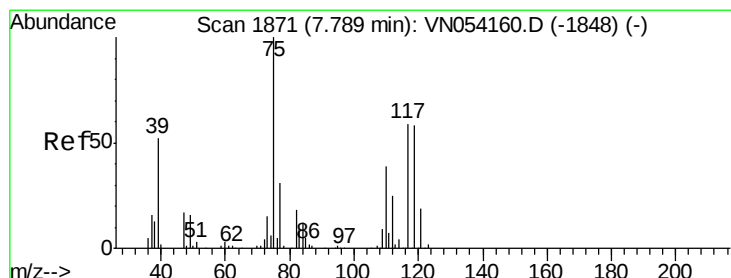
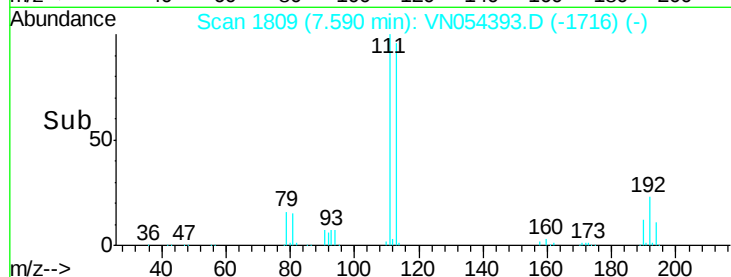
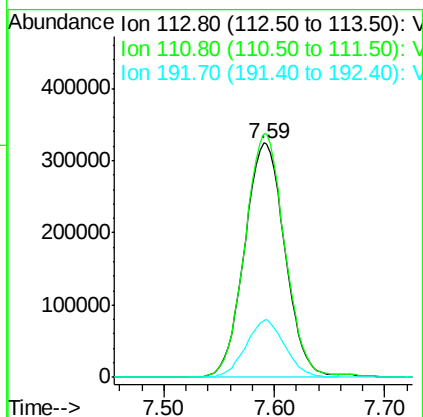
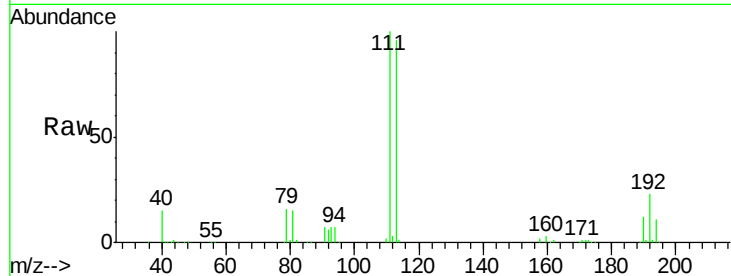




#35
 Dibromofluoromethane
 Concen: 46.529 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054393.D
 Acq: 18 Mar 2019 14:54

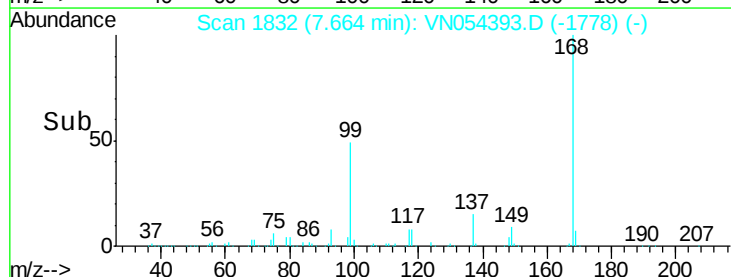
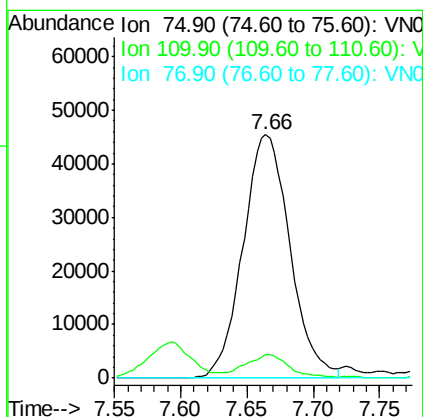
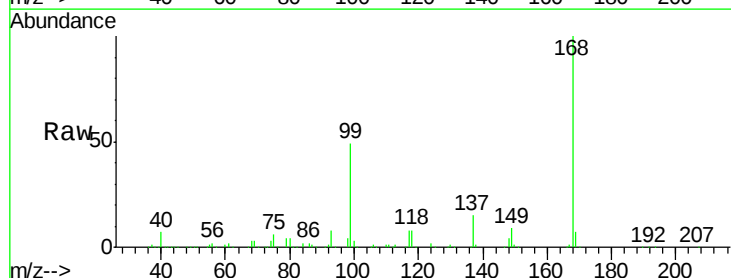
Instrument :
 MSVOA_N
 ClientSampled :

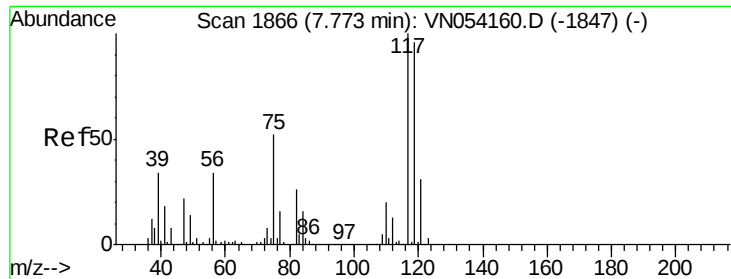
Tot Ion:113 Resp: 821954
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.2 123.4
 192 23.9 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 4.452 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054393.D
 Acq: 18 Mar 2019 14:54

Tgt Ion: 75 Resp: 112307
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.1 57.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.841 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

Instrument :

MSVOA_N

ClientSampled :

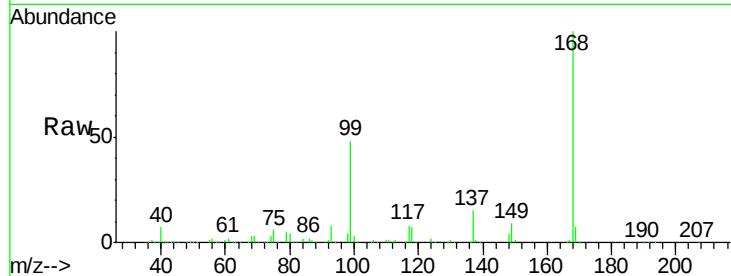
Tot Ion:117 Resp: 154508

Ion Ratio Lower Upper

117 100

119 4.4 76.3 114.5#

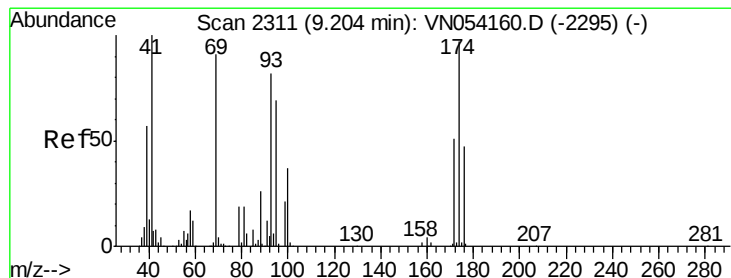
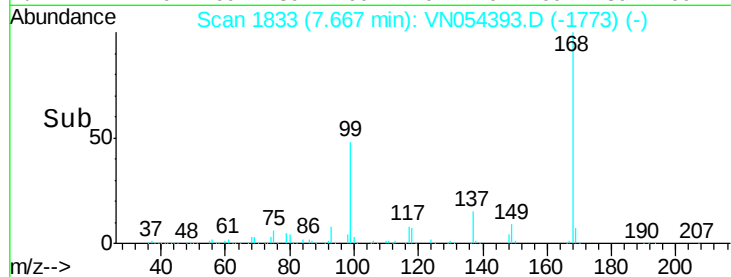
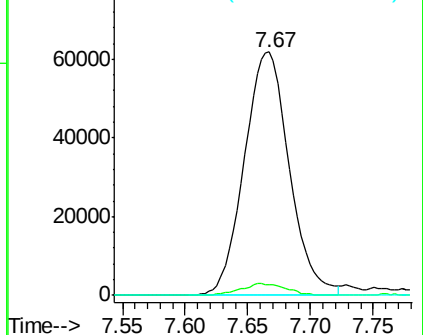
121 0.0 24.6 36.8#



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



#49

1,4-Dioxane

Concen: 0.372 ug/l

RT: 9.21 min Scan# 2314

Delta R.T. 0.01 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

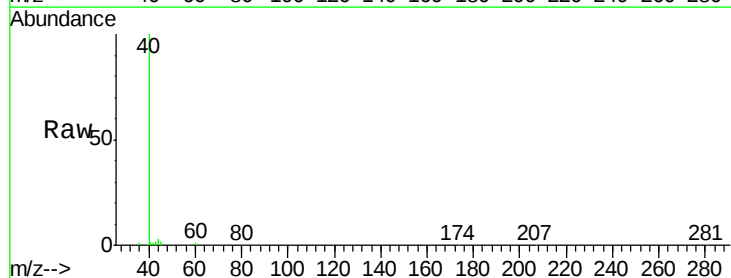
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 770.6 24.1 36.1#

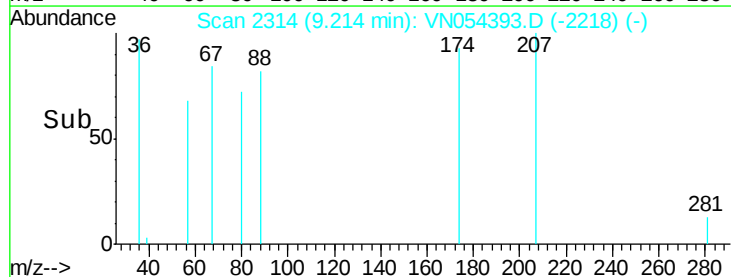
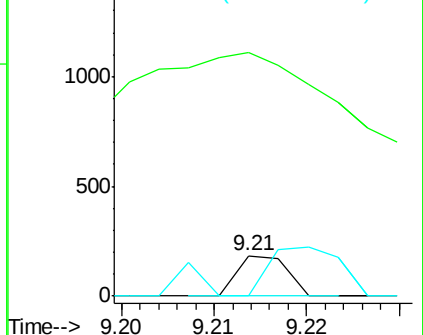
58 175.0 50.8 76.2#

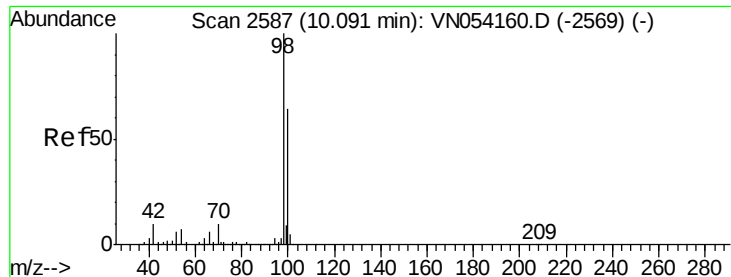


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 48.310 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

Instrument :

MSVOA_N

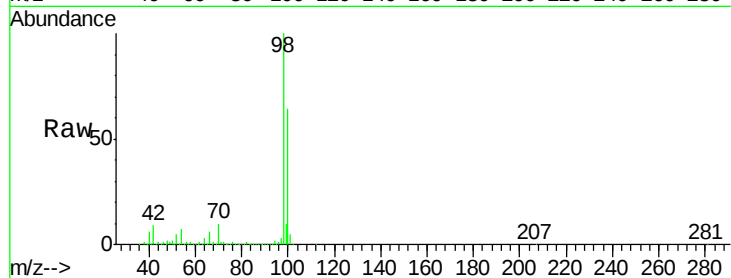
ClientSampleId :

Tot Ion: 98 Resp: 3151781

Ion Ratio Lower Upper

98 100

100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054160.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054160.D (-2569) (-)

10.09

1500000

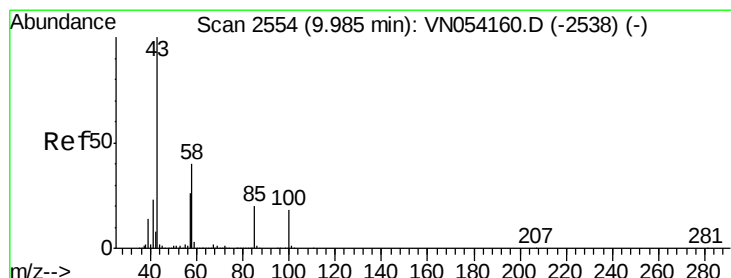
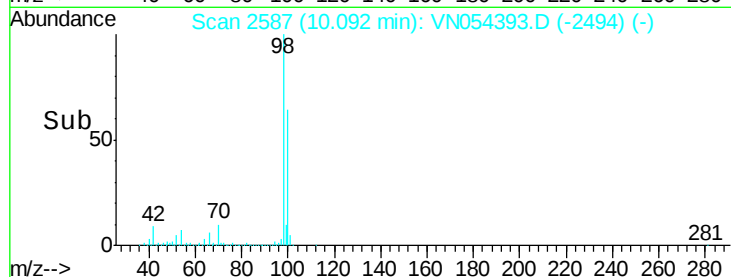
1000000

500000

0

Time-->

10.00 10.10 10.20 10.30



#51

4-Methyl-2-Pentanone

Concen: 0.746 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN054393.D

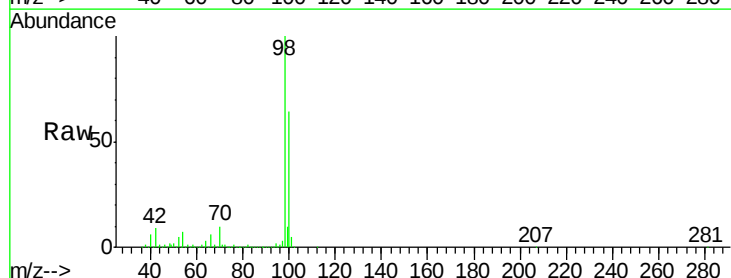
Acq: 18 Mar 2019 14:54

Tgt Ion: 43 Resp: 10050

Ion Ratio Lower Upper

43 100

58 223.9 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054160.D (-2538) (-)

10.09

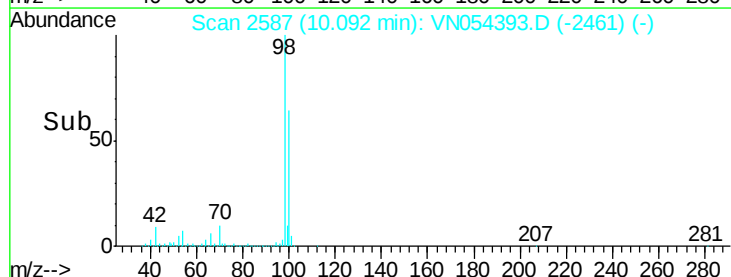
10000

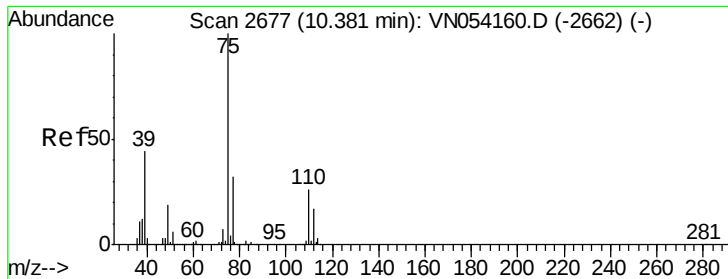
5000

0

Time-->

10.05 10.10 10.15





#53

t-1,3-Dichloropropene

Concen: 1.997 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.01 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

Instrument :

MSVOA_N

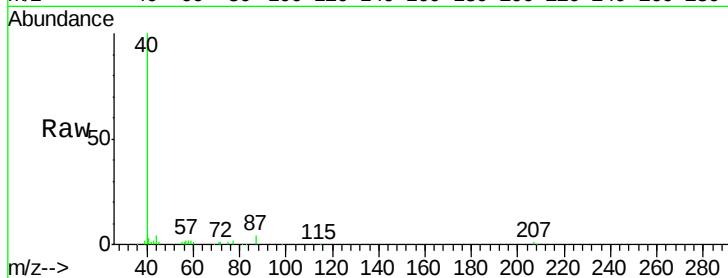
ClientSampled :

Tot Ion: 75 Resp: 308

Ion Ratio Lower Upper

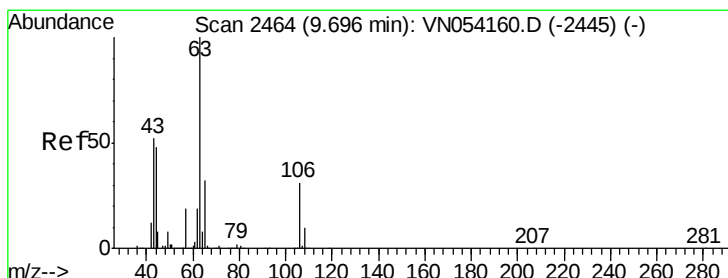
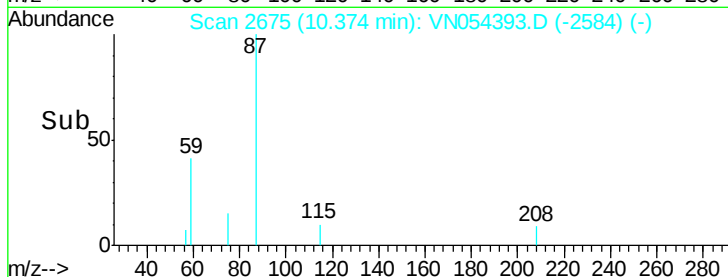
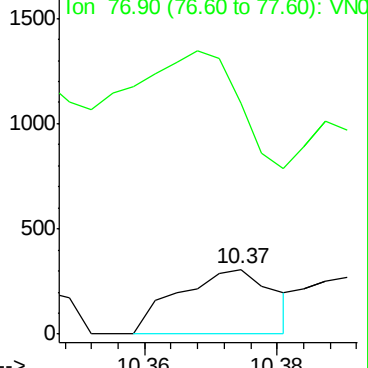
75 100

77 100.7 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 16.834 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054393.D

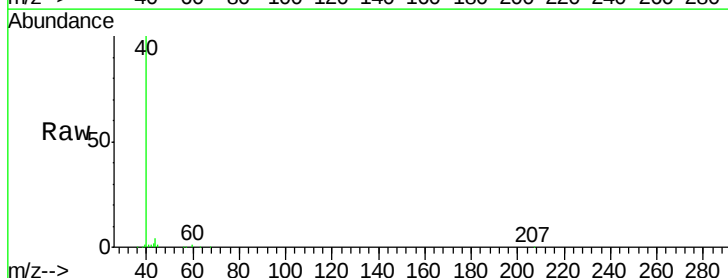
Acq: 18 Mar 2019 14:54

Tgt Ion: 63 Resp: 60

Ion Ratio Lower Upper

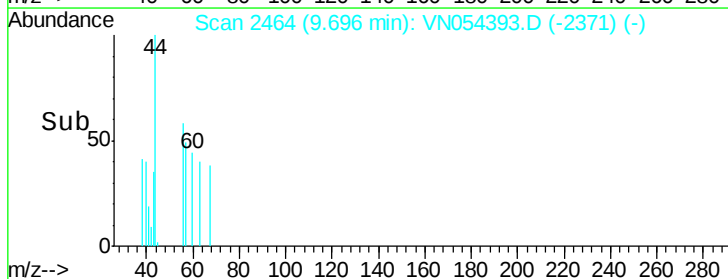
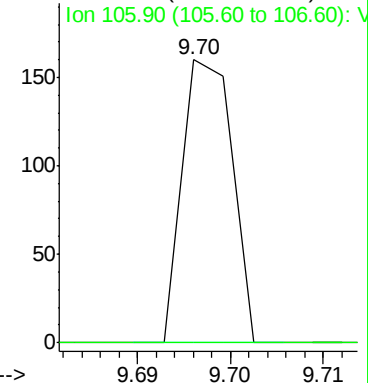
63 100

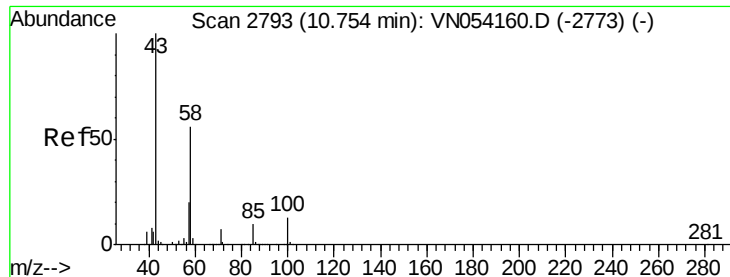
106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

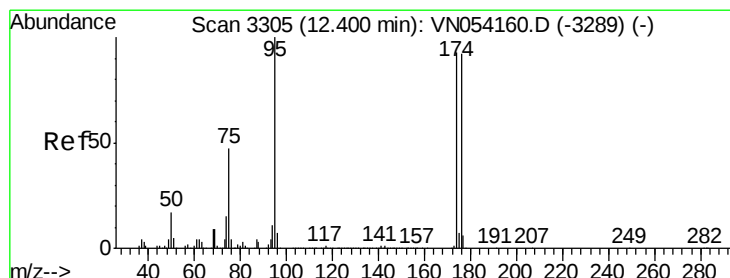
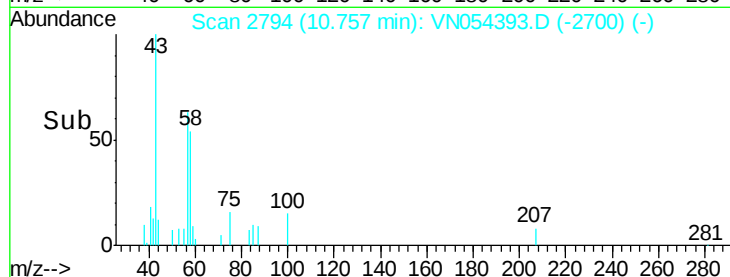
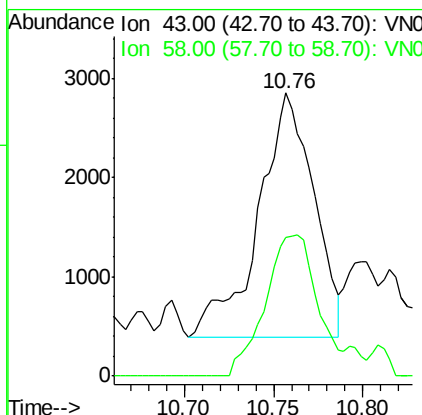
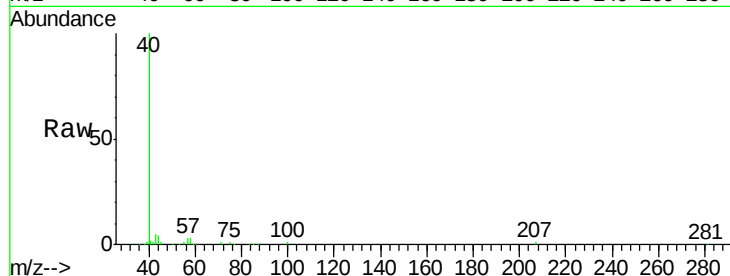




#59
2-Hexanone
Concen: 0.599 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN054393.D
Acq: 18 Mar 2019 14:54

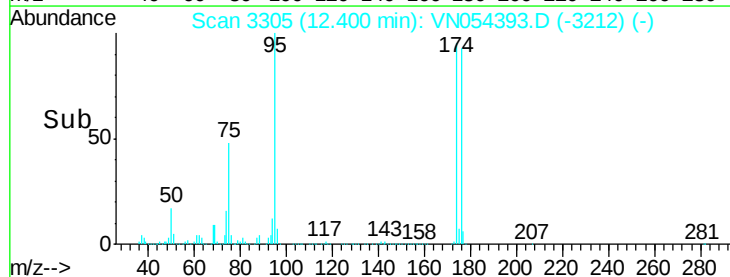
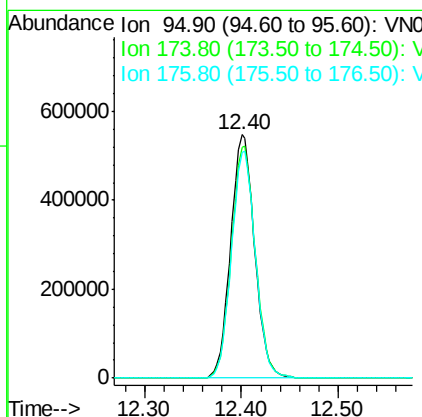
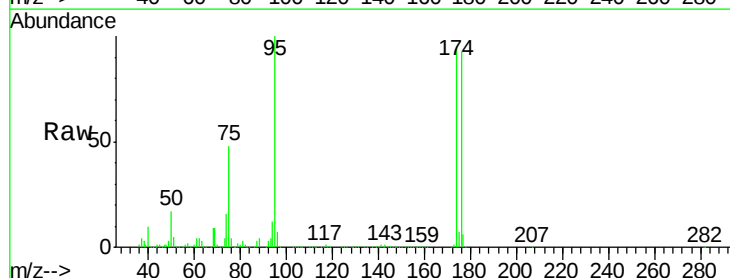
Instrument :
MSVOA_N
ClientSampled :

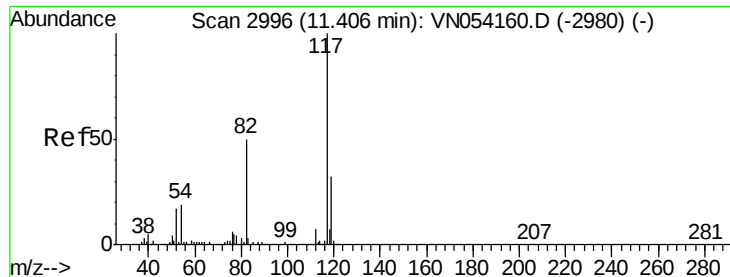
Tot Ion: 43 Resp: 5363
Ion Ratio Lower Upper
43 100
58 54.1 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 41.316 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054393.D
Acq: 18 Mar 2019 14:54

Tgt Ion: 95 Resp: 943170
Ion Ratio Lower Upper
95 100
174 95.3 0.0 191.0
176 93.3 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: VN054393.D

Acq: 18 Mar 2019 14:54

Instrument :

MSVOA_N

ClientSampleId :

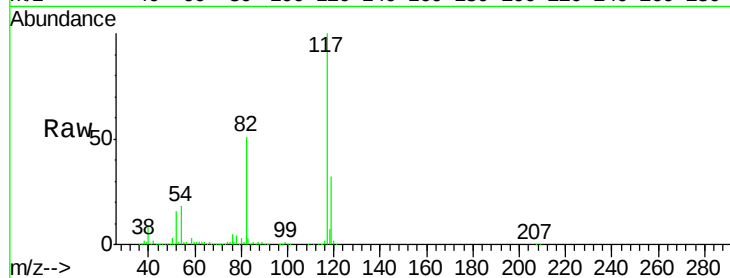
Tot Ion:117 Resp: 2309606

Ion Ratio Lower Upper

117 100

82 50.9 40.0 60.0

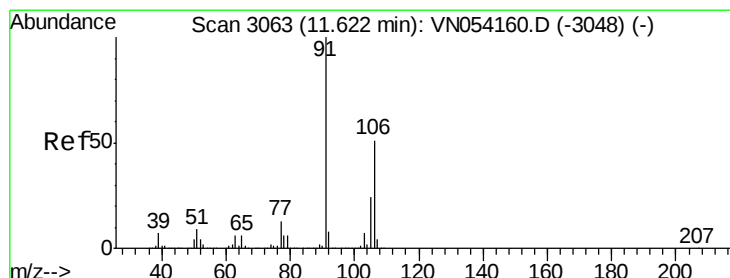
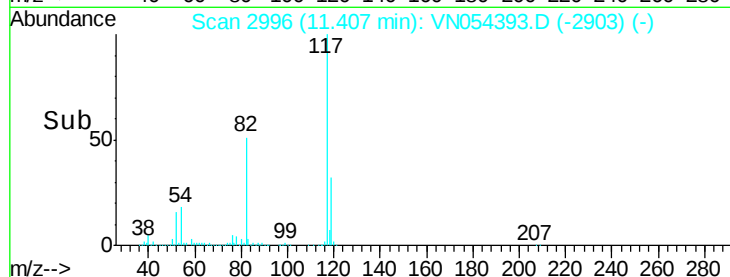
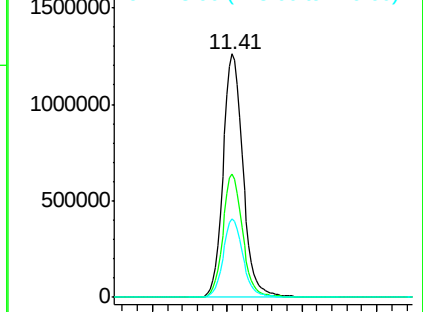
119 32.1 25.8 38.6



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



#68

m/p-Xylenes

Concen: 0.298 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.01 min

Lab File: VN054393.D

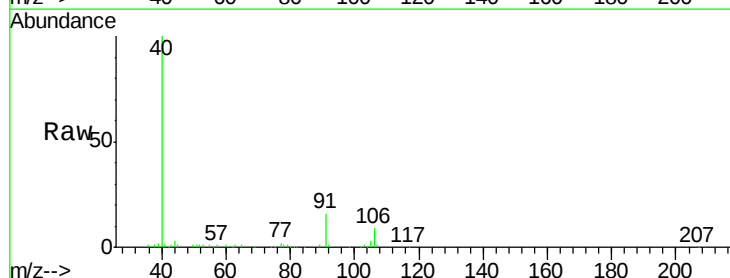
Acq: 18 Mar 2019 14:54

Tgt Ion:106 Resp: 9794

Ion Ratio Lower Upper

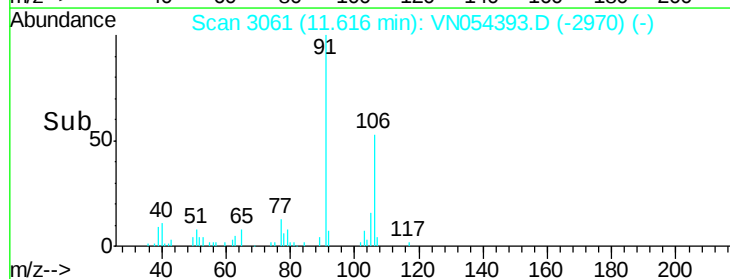
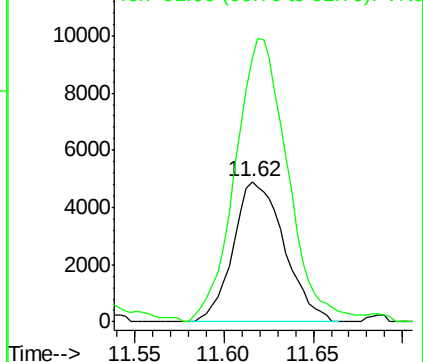
106 100

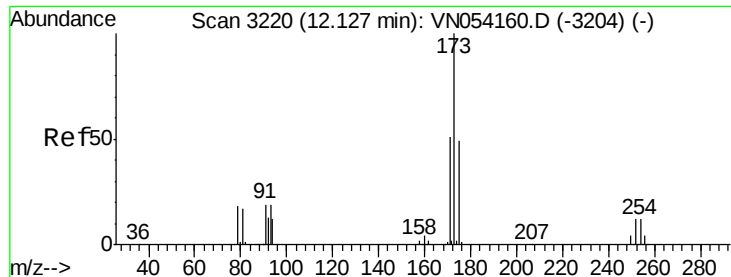
91 207.9 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 2.736 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

Instrument :

MSVOA_N

ClientSampled :

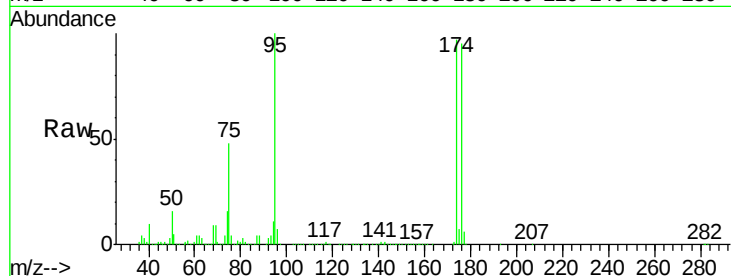
Tot Ion:173 Resp: 5678

Ion Ratio Lower Upper

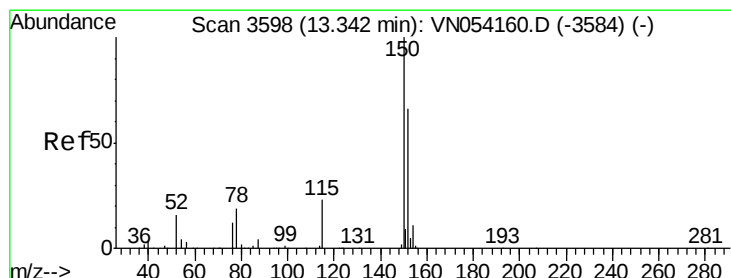
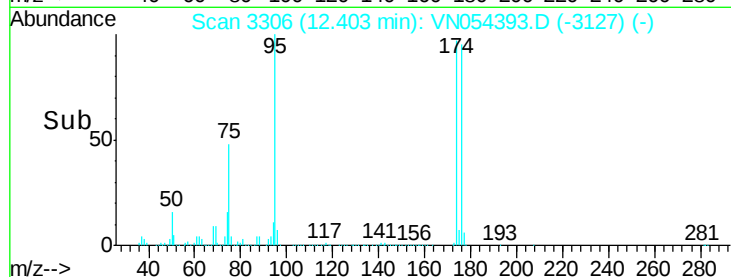
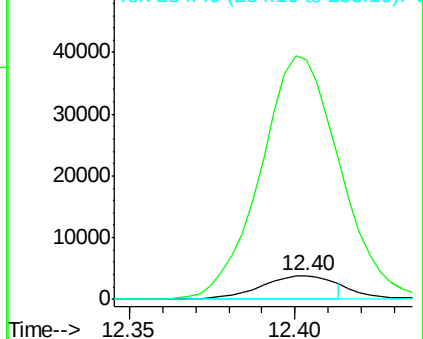
173 100

175 1012.2 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: VN054393.D

Acq: 18 Mar 2019 14:54

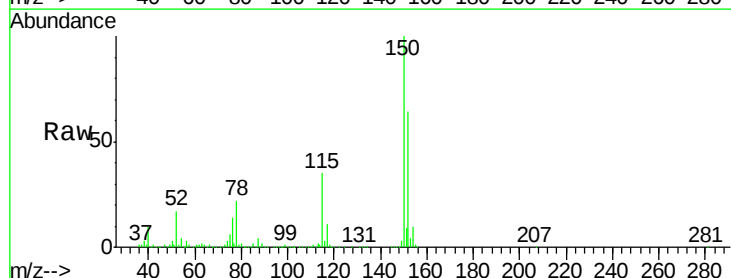
Tgt Ion:152 Resp: 829089

Ion Ratio Lower Upper

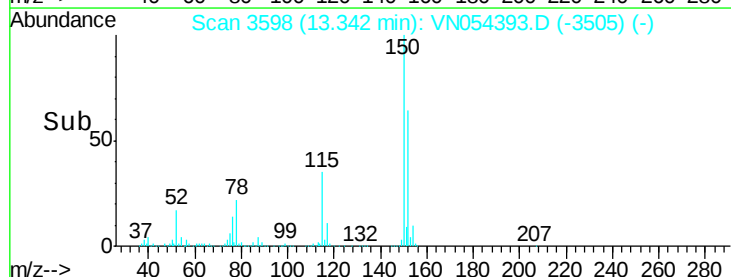
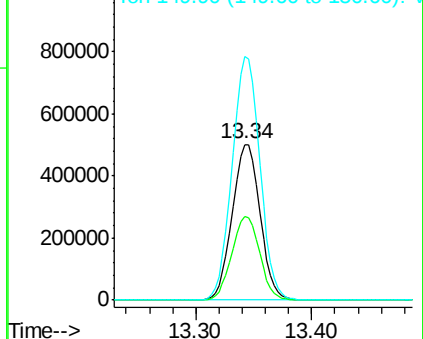
152 100

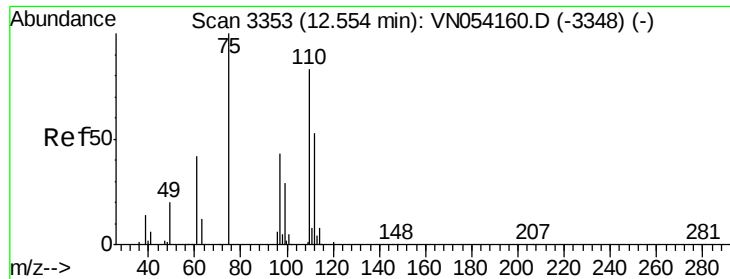
115 54.1 27.2 81.6

150 156.2 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: 36.589 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

Instrument :

MSVOA_N

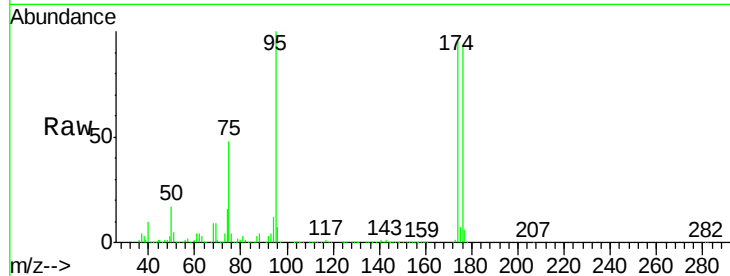
ClientSampleId :

Tot Ion: 75 Resp: 446103

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

250000

200000

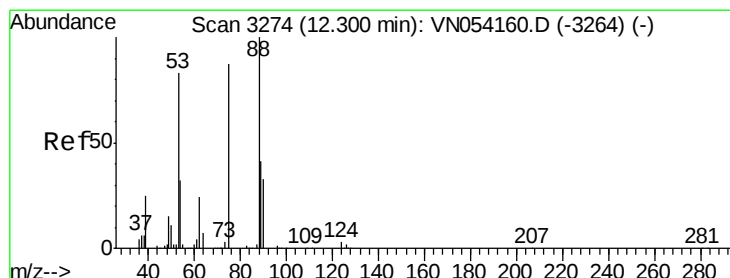
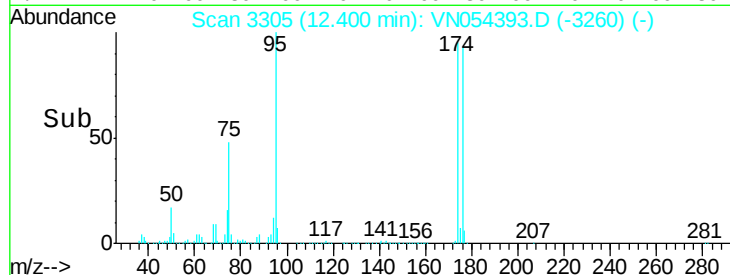
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 125.079 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

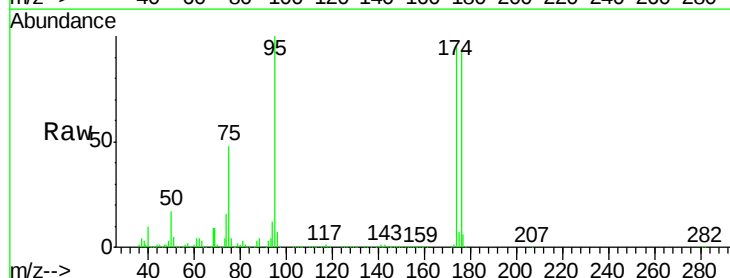
Tgt Ion: 75 Resp: 446103

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

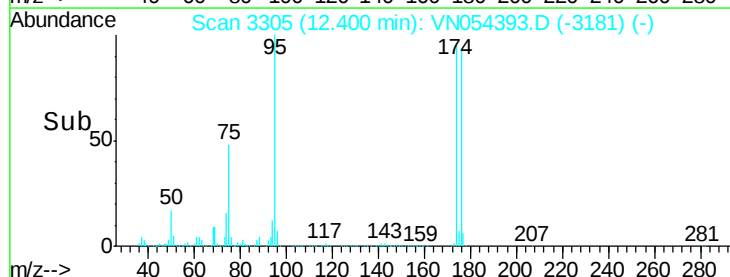
300000

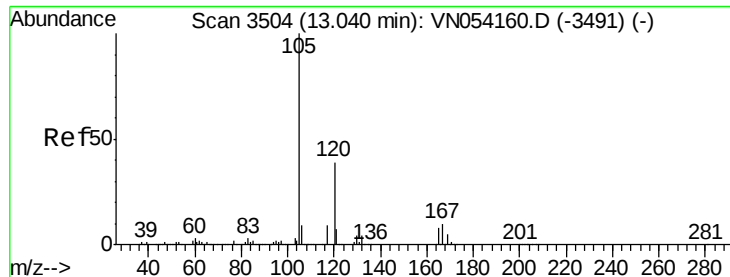
200000

100000

0

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 0.265 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

Instrument :

MSVOA_N

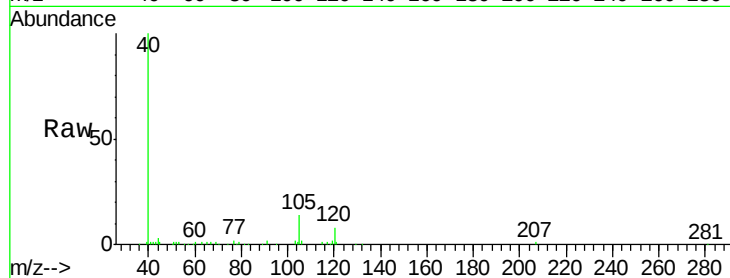
ClientSampled :

Tot Ion:105 Resp: 14361

Ion Ratio Lower Upper

105 100

120 52.6 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.04

8000

6000

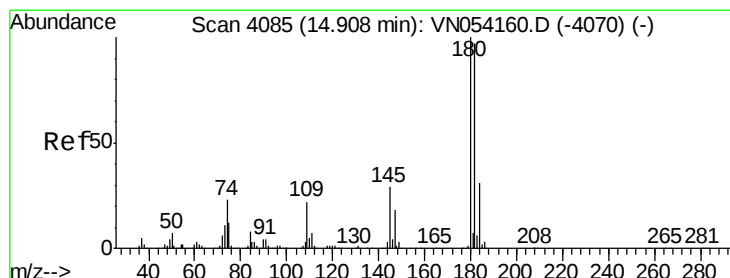
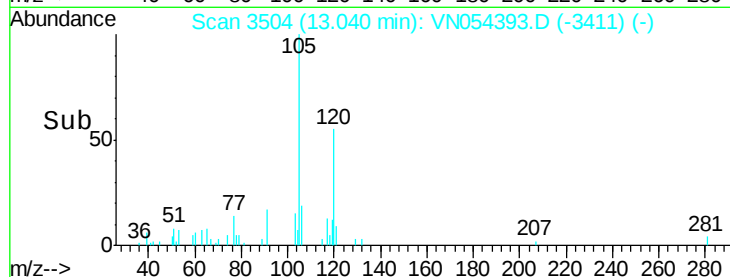
4000

2000

0

13.00 13.10

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.811 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN054393.D

Acq: 18 Mar 2019 14:54

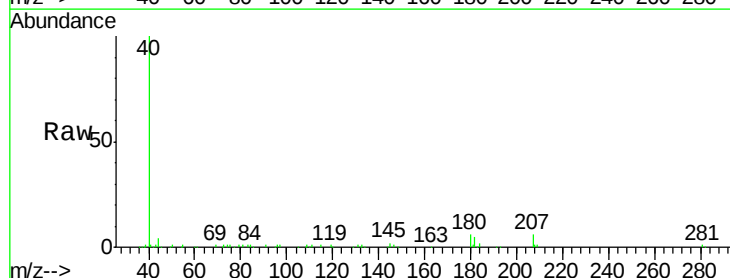
Tgt Ion:180 Resp: 5407

Ion Ratio Lower Upper

180 100

182 87.8 48.0 144.2

145 38.3 14.2 42.8



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

14.90

4000

3000

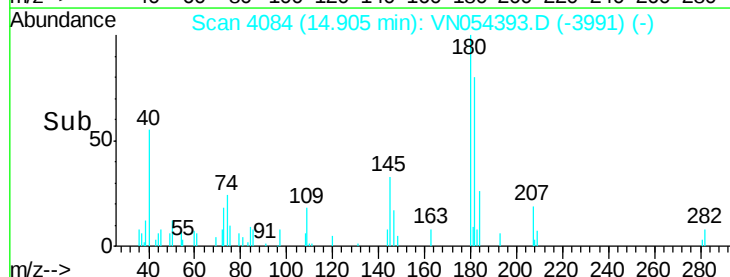
2000

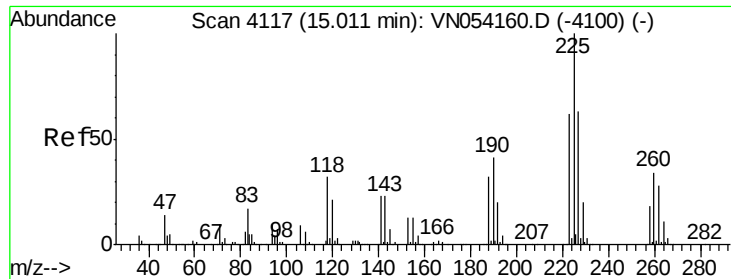
1000

0

14.85 14.90 14.95

Time-->





#94

Hexachlorobutadiene

Concen: 0.232 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN054393.D

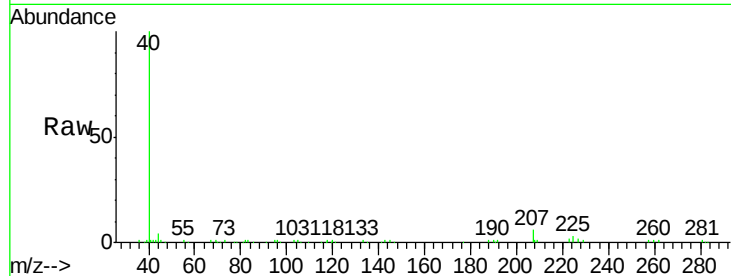
Acq: 18 Mar 2019 14:54

Instrument :

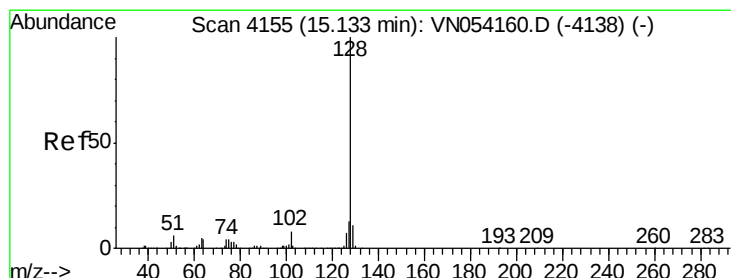
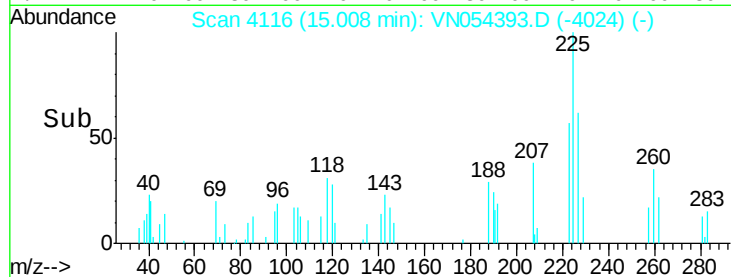
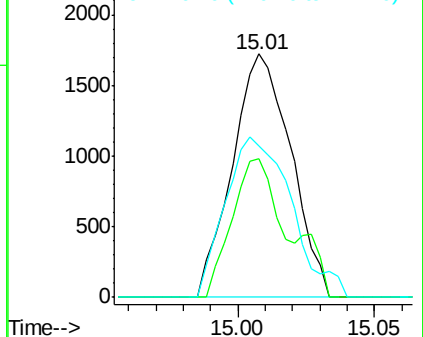
MSVOA_N

ClientSampled :

Tot Ion:	225	Resp:	2556
Ion	Ratio	Lower	Upper
225	100		
223	46.0	31.1	93.5
227	74.8	31.9	95.9



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



#95

Naphthalene

Concen: 4.110 ug/l

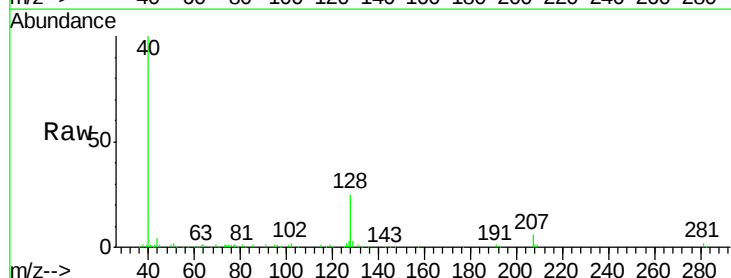
RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

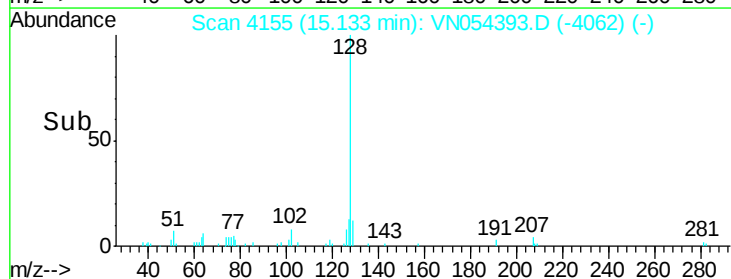
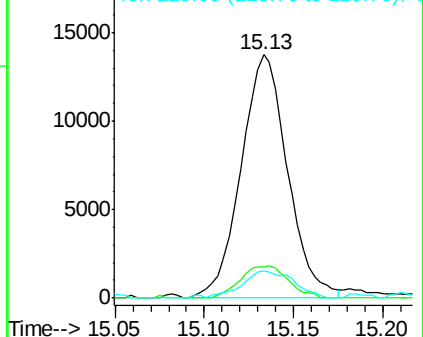
Lab File: VN054393.D

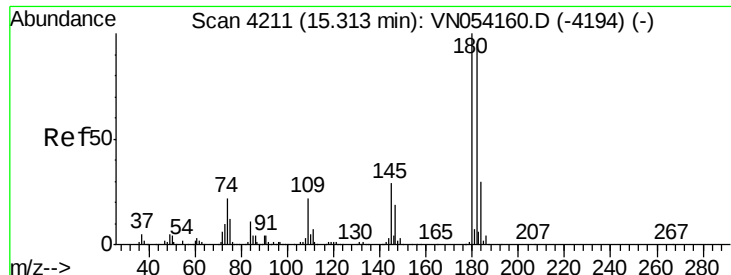
Acq: 18 Mar 2019 14:54

Tgt Ion:	128	Resp:	25006
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.1	15.1
129	12.4	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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.429 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN054393.D
 Acq: 18 Mar 2019 14:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.8	47.5	142.6
145	39.5	14.8	44.3

