

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054382.D
 Acq On : 18 Mar 2019 9:53
 Operator : JC/SP
 Sample : VN0318WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318WBL01

Quant Time: Mar 19 05:08:15 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	1872256	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2657028	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2208266	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	782004	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	914186	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	
35) Dibromofluoromethane	7.59	113	809241	47.22	ug/l	0.00
Spiked Amount			Recovery	=	94.44%	
50) Toluene-d8	10.09	98	3055011	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
62) 4-Bromofluorobenzene	12.40	95	907085	40.96	ug/l	0.00
Spiked Amount			Recovery	=	81.92%	

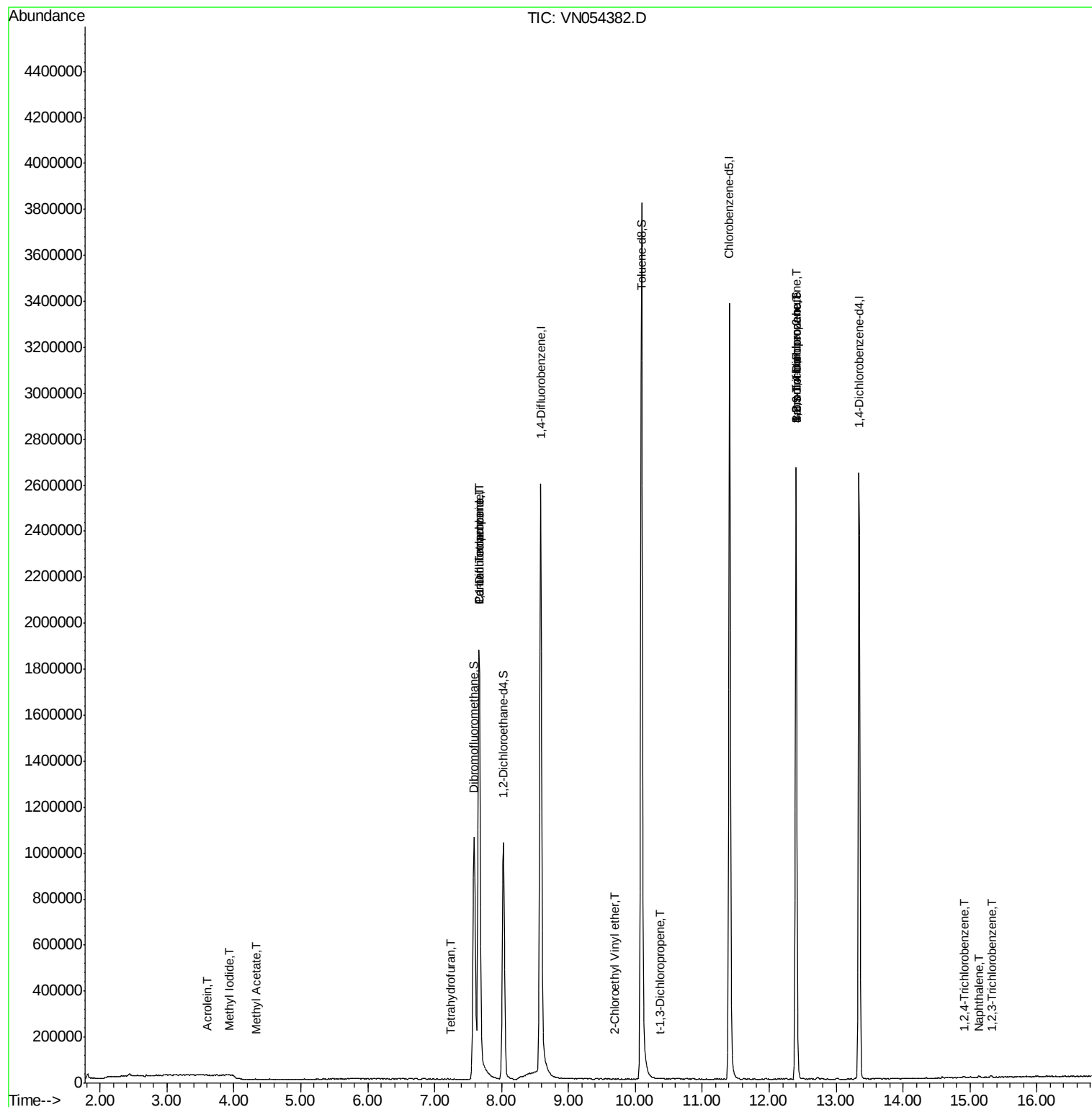
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	677	1.521	ug/l #	57
13) Acrolein	3.60	56	1150	0.890	ug/l #	29
18) Methyl Acetate	4.34	43	5027	0.436	ug/l #	88
29) Tetrahydrofuran	7.24	42	1574	0.366	ug/l #	41
31) Cyclohexane	7.66	56	27967	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	108052	4.416	ug/l #	43
38) Carbon Tetrachloride	7.67	117	150233	5.855	ug/l #	16
53) t-1,3-Dichloropropene	10.37	75	76	1.989	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.69	63	33	16.832	ug/l #	44
71) Bromoform	12.40	173	5628	2.750	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	432193	37.583	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	432193	128.475	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	2161	2.641	ug/l	88
95) Naphthalene	15.13	128	6253	3.639	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.32	180	2953	0.204	ug/l	91

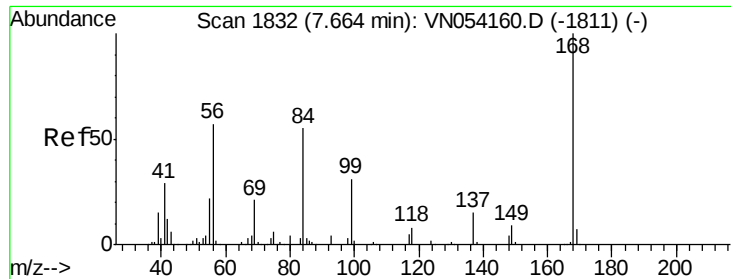
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 19 05:08:15 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: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

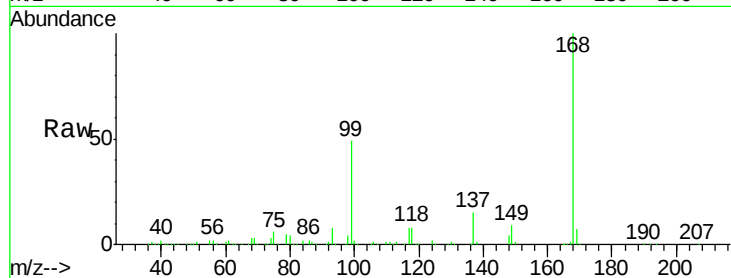
VN0318WBL01

Tot Ion:168 Resp: 1872256

Ion Ratio Lower Upper

168 100

99 49.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

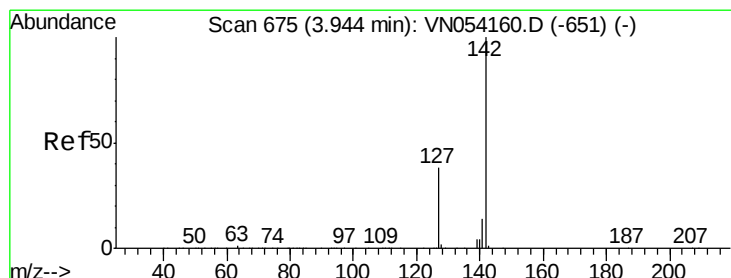
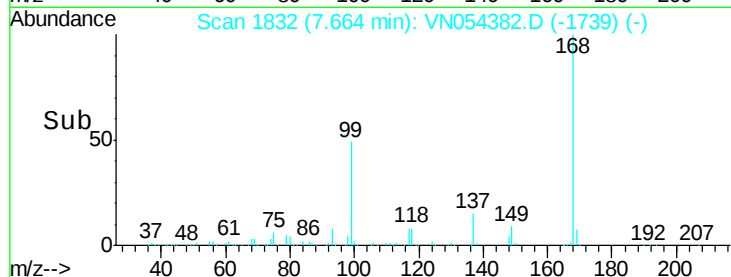
600000

400000

200000

0

Time-->



#10

Methyl Iodide

Concen: 1.521 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

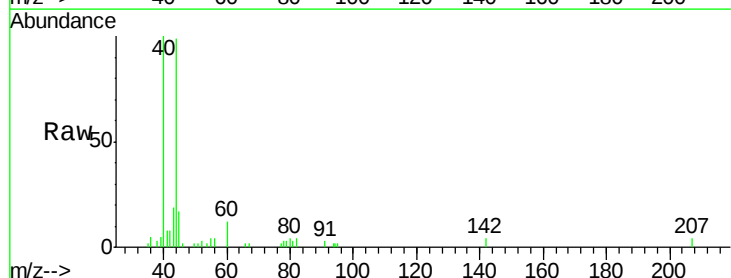
Tgt Ion:142 Resp: 677

Ion Ratio Lower Upper

142 100

127 10.2 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

3.94

600

500

400

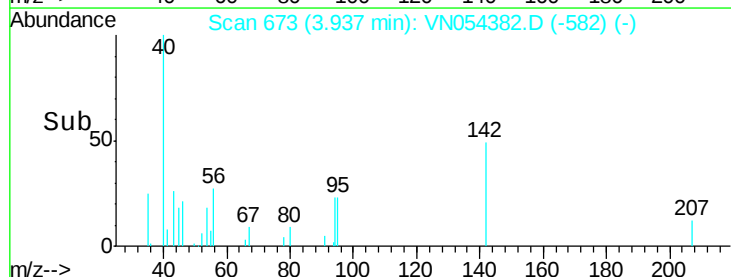
300

200

100

0

Time-->





#13

Acrolein

Concen: 0.890 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

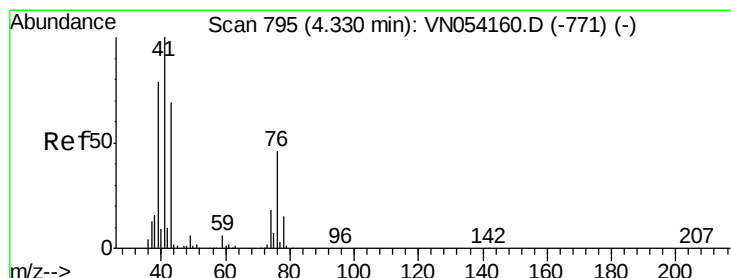
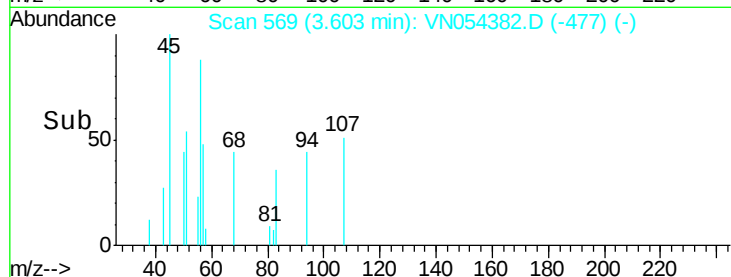
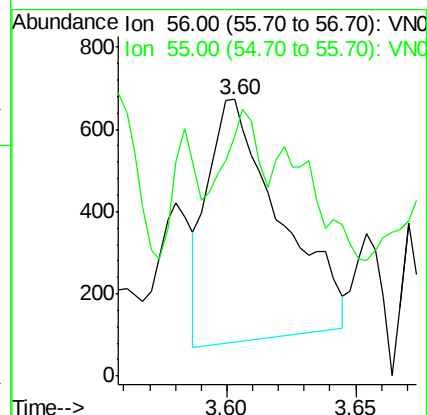
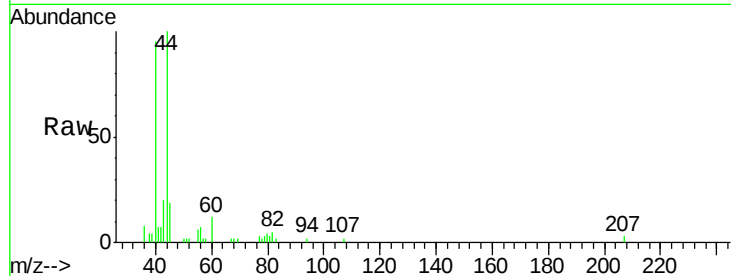
VN0318WBL01

Tot Ion: 56 Resp: 1150

Ion Ratio Lower Upper

56 100

55 12.3 56.7 85.1#



#18

Methyl Acetate

Concen: 0.436 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.01 min

Lab File: VN054382.D

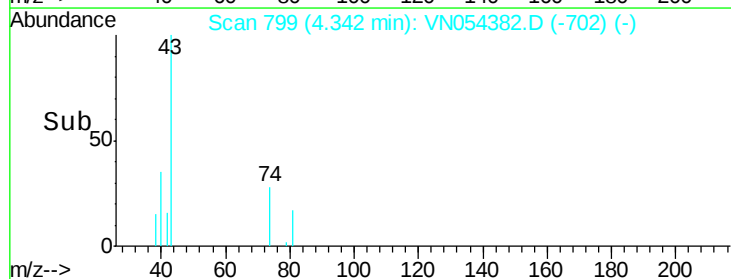
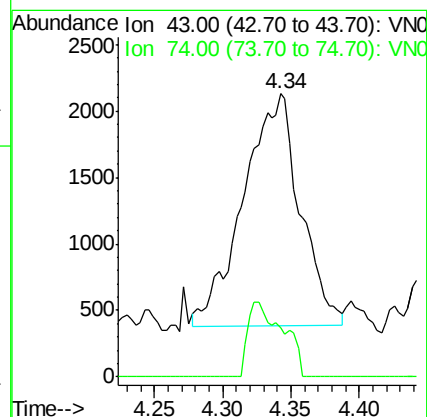
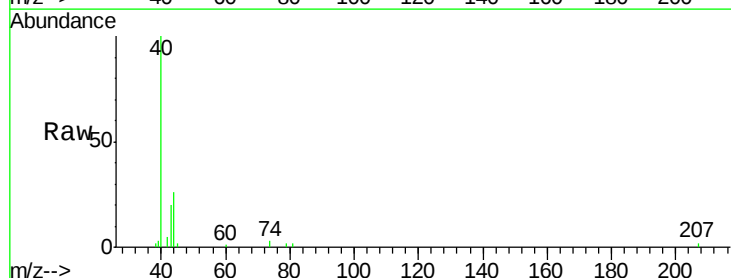
Acq: 18 Mar 2019 9:53

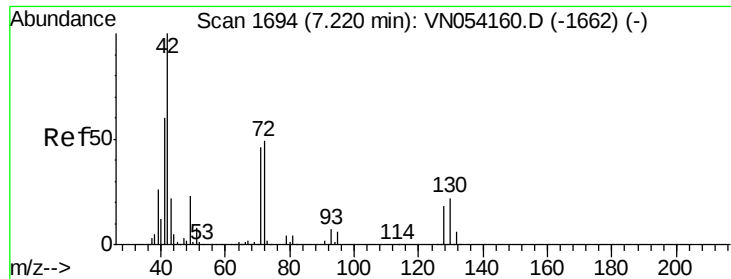
Tgt Ion: 43 Resp: 5027

Ion Ratio Lower Upper

43 100

74 19.6 20.8 31.2#

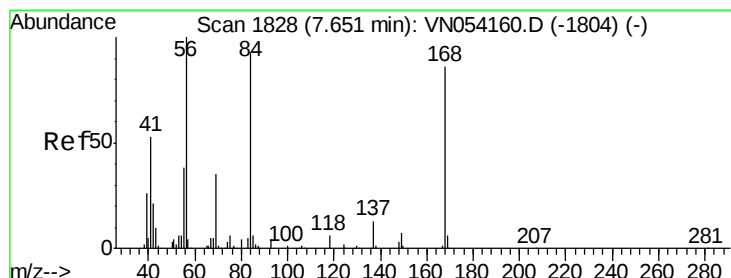
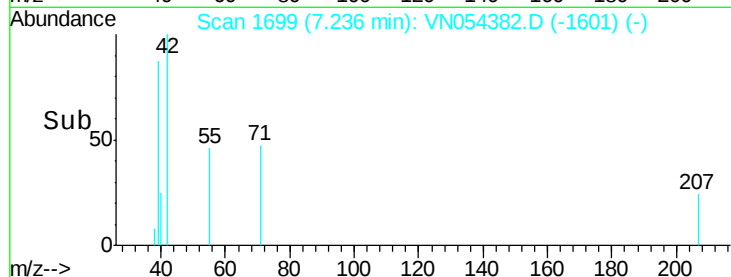
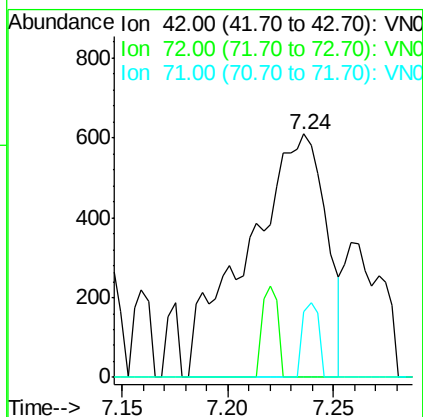
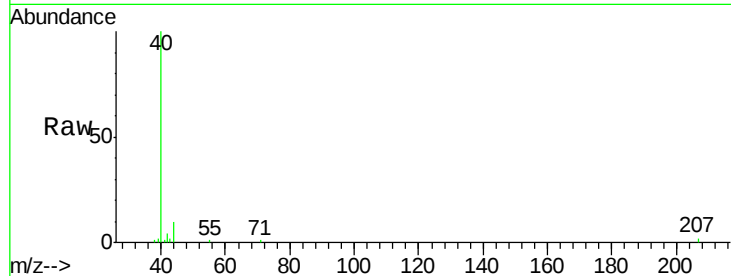




#29
Tetrahydrofuran
Concen: 0.366 ug/l
RT: 7.24 min Scan# 1699
Delta R.T. 0.02 min
Lab File: VN054382.D
Acq: 18 Mar 2019 9:53

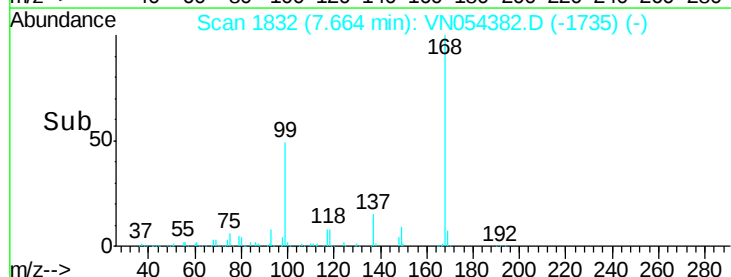
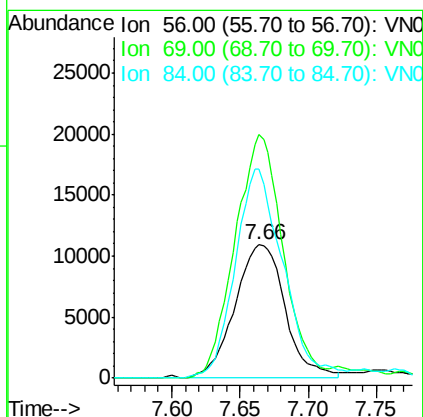
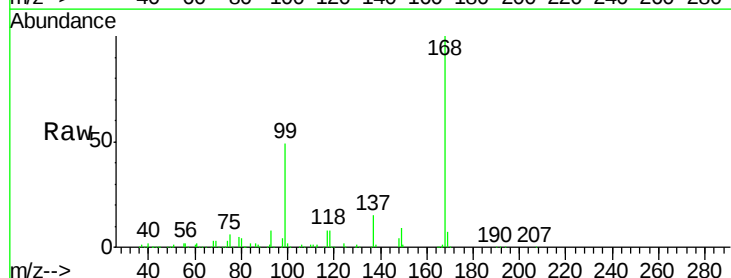
Instrument :
MSVOA_N
ClientSampleId :
VN0318WBL01

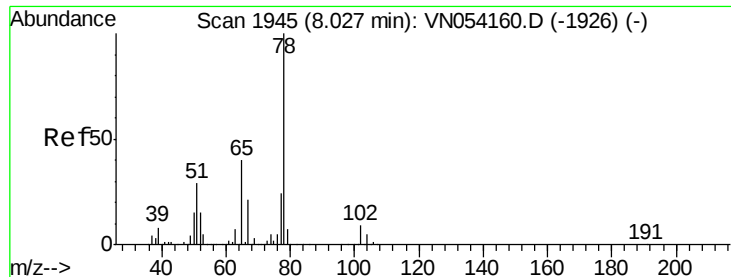
Tot Ion: 42 Resp: 1574
Ion Ratio Lower Upper
42 100
72 7.6 37.8 56.6#
71 6.4 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054382.D
Acq: 18 Mar 2019 9:53

Tgt Ion: 56 Resp: 27967
Ion Ratio Lower Upper
56 100
69 182.7 27.8 41.6#
84 155.7 74.6 111.8#





#33

1,2-Dichloroethane-d4

Concen: 45.977 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

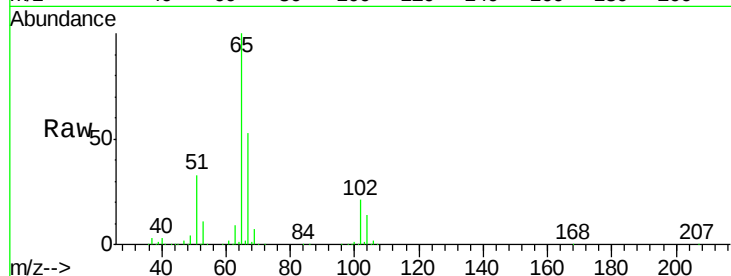
VN0318WBL01

Tot Ion: 65 Resp: 914186

Ion Ratio Lower Upper

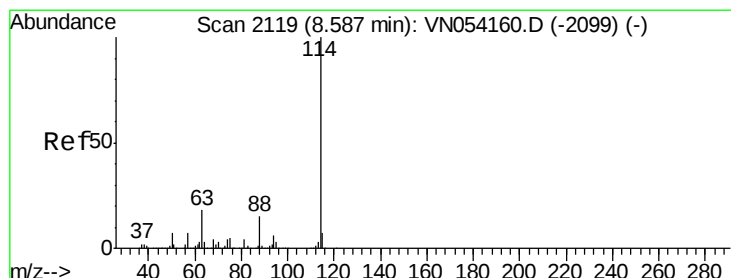
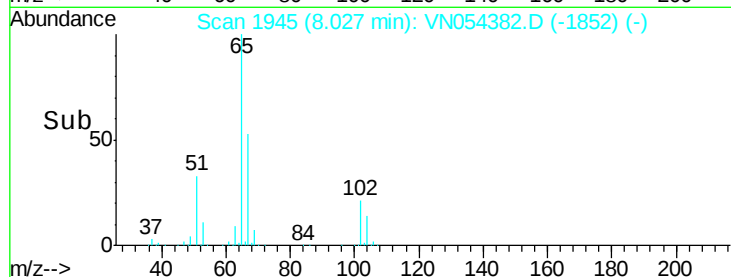
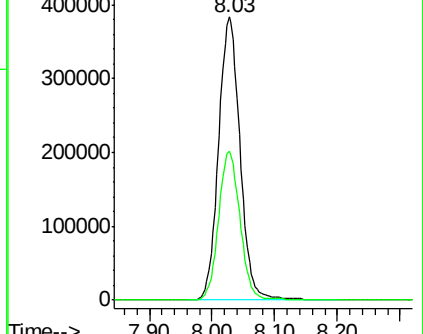
65 100

67 52.5 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

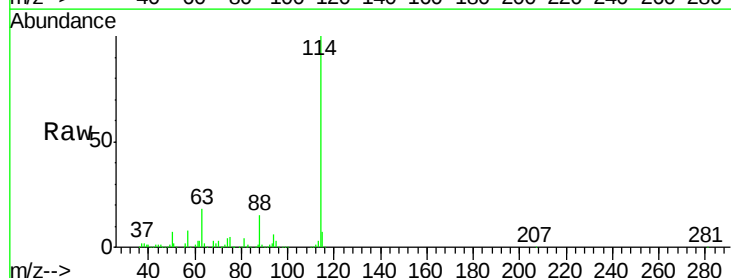
Tgt Ion: 114 Resp: 2657028

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.2

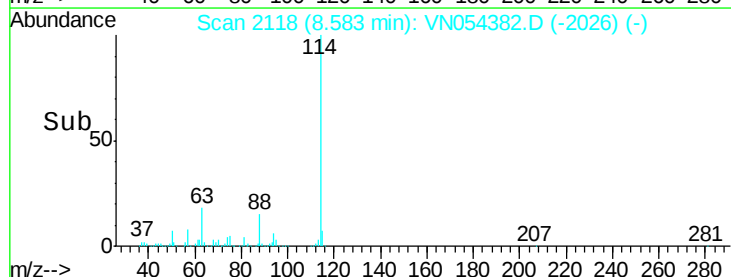
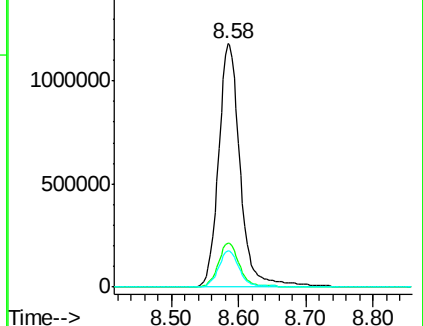
88 14.9 0.0 30.2

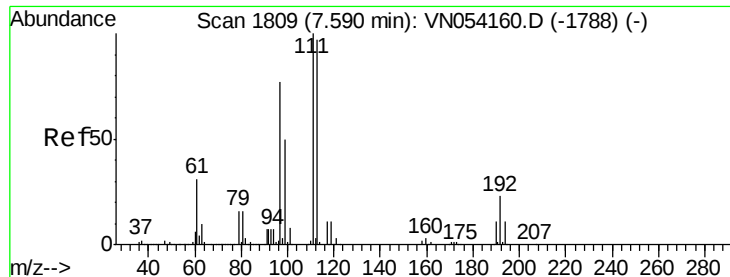


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

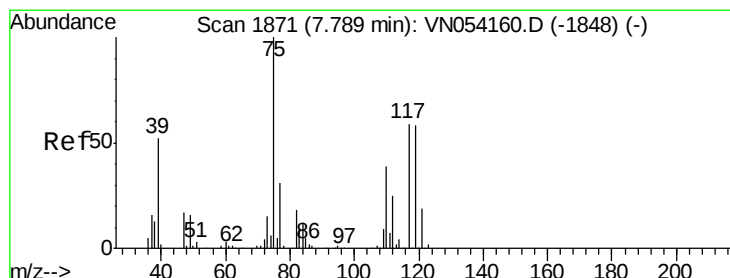
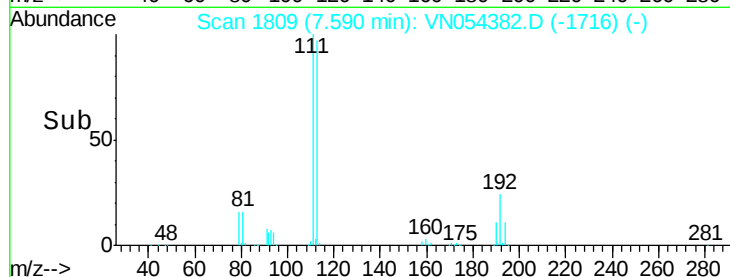
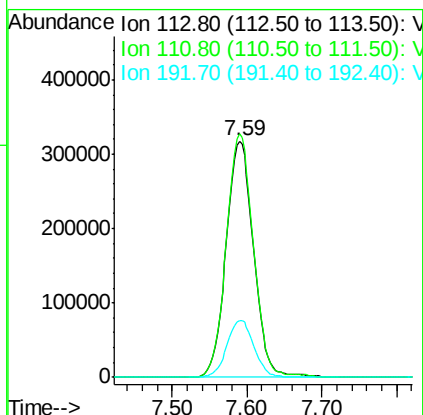
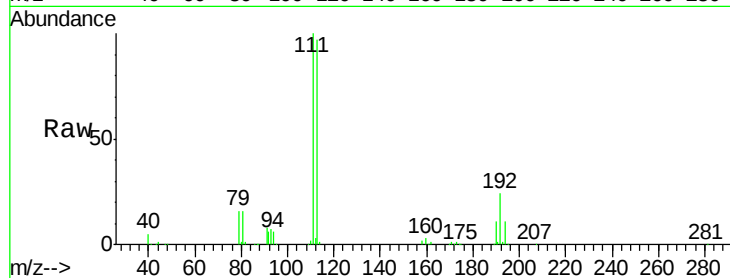




#35
 Dibromofluoromethane
 Concen: 47.223 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054382.D
 Acq: 18 Mar 2019 9:53

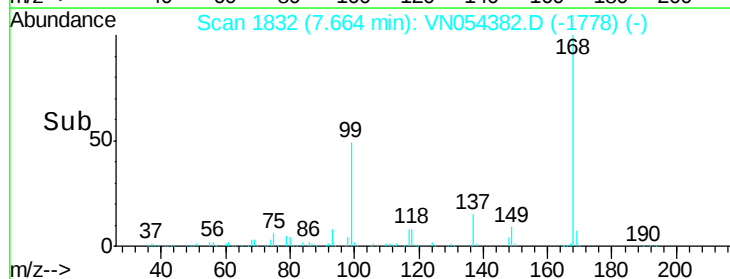
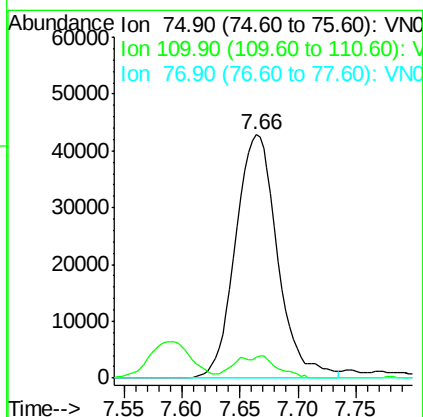
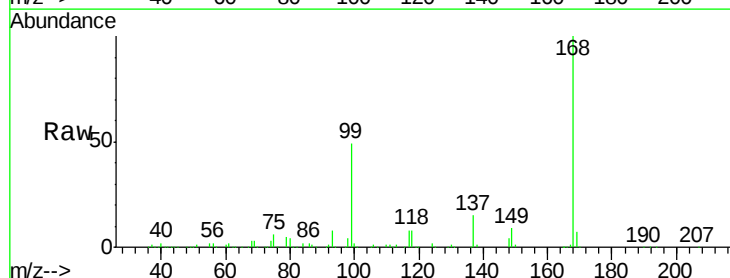
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318WBL01

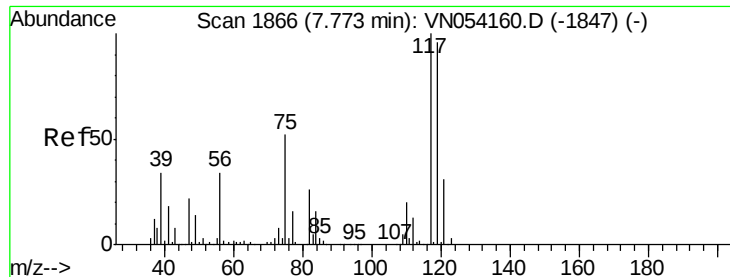
Tot Ion:113 Resp: 809241
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.2 123.4
 192 23.8 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 4.416 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054382.D
 Acq: 18 Mar 2019 9:53

Tgt Ion: 75 Resp: 108052
 Ion Ratio Lower Upper
 75 100
 110 3.1 19.1 57.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.855 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBL01

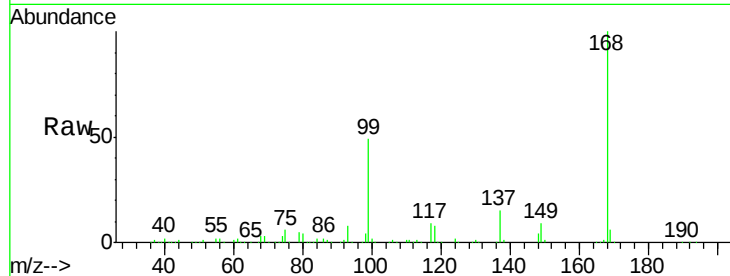
Tot Ion:117 Resp: 150233

Ion Ratio Lower Upper

117 100

119 4.8 76.3 114.5#

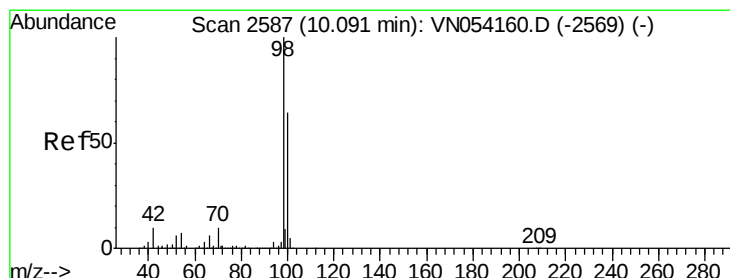
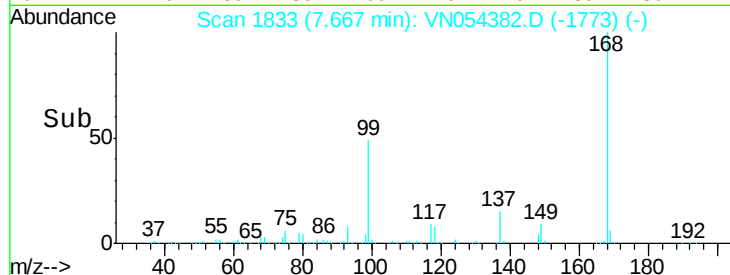
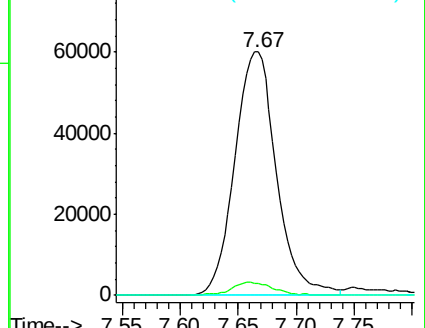
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 48.271 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054382.D

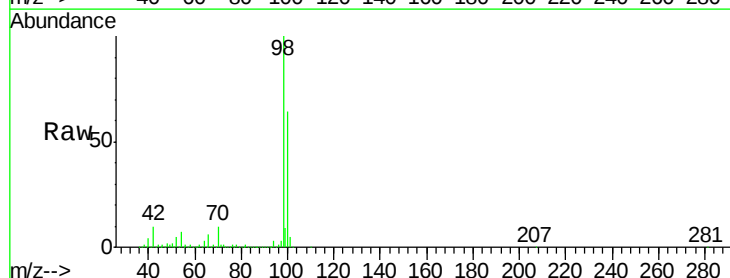
Acq: 18 Mar 2019 9:53

Tgt Ion: 98 Resp: 3055011

Ion Ratio Lower Upper

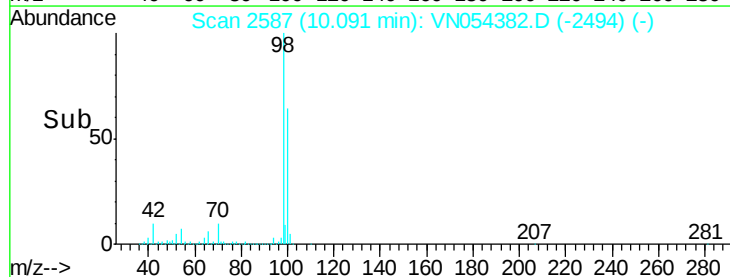
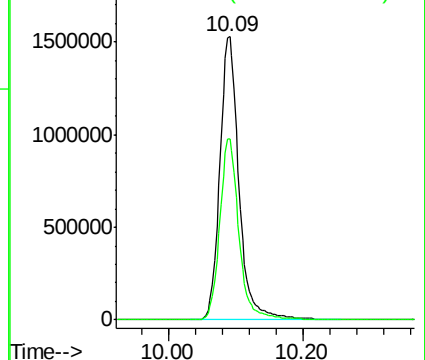
98 100

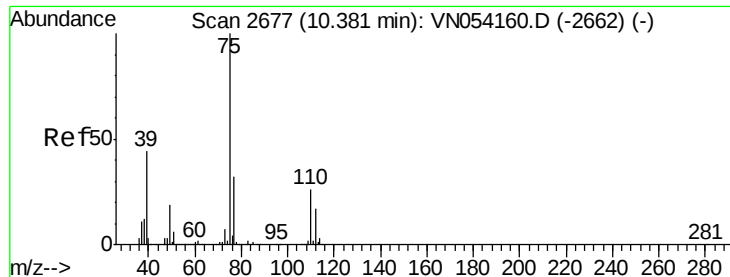
100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#53

t-1,3-Dichloropropene

Concen: 1.989 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.01 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

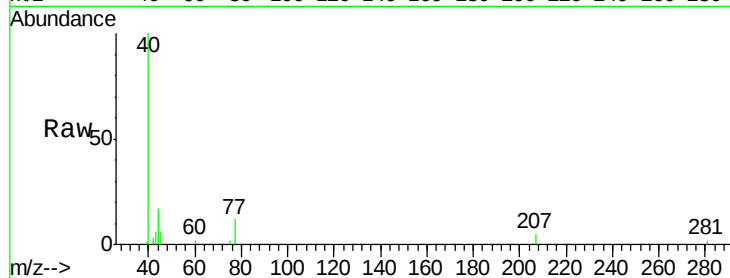
VN0318WBL01

Tot Ion: 75 Resp: 76

Ion Ratio Lower Upper

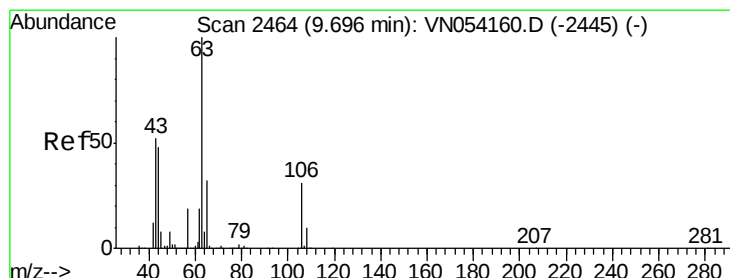
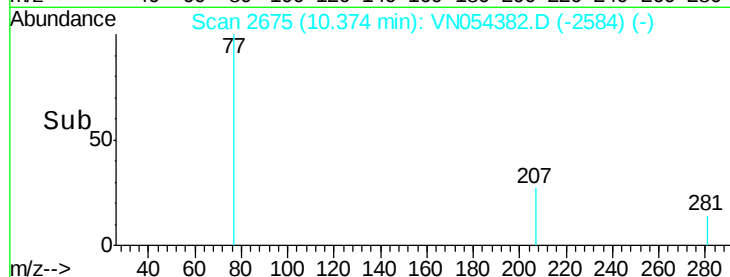
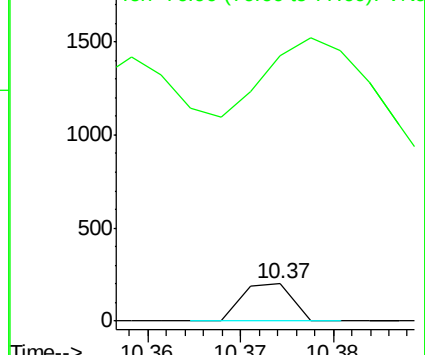
75 100

77 138.3 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: 16.832 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. -0.01 min

Lab File: VN054382.D

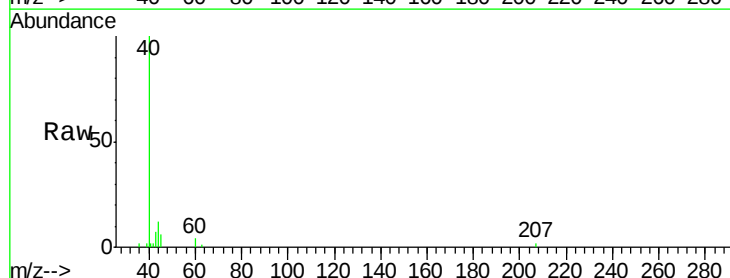
Acq: 18 Mar 2019 9:53

Tgt Ion: 63 Resp: 33

Ion Ratio Lower Upper

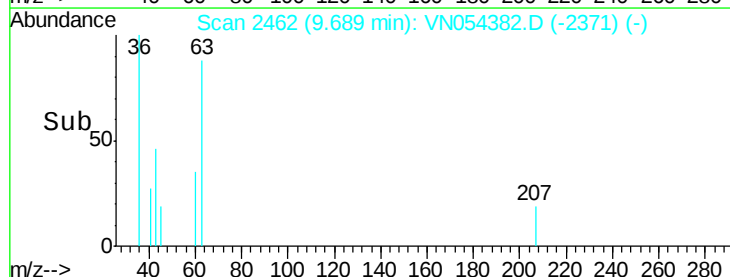
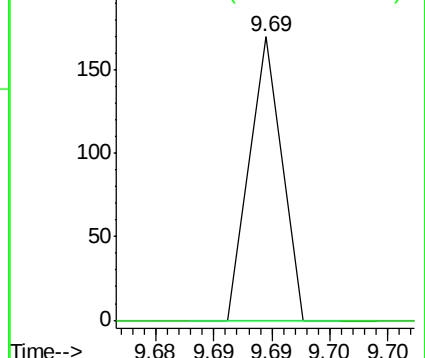
63 100

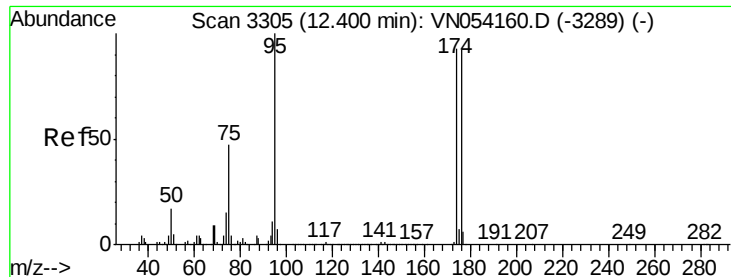
106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 40.962 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBL01

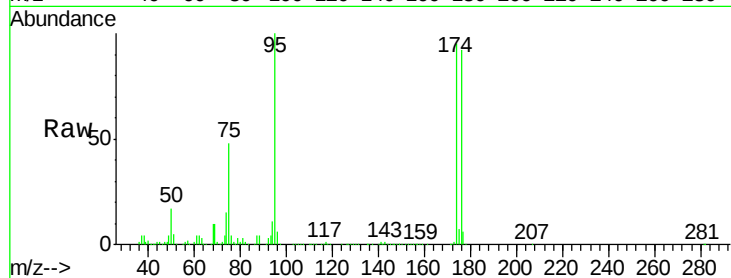
Tot Ion: 95 Resp: 907085

Ion Ratio Lower Upper

95 100

174 95.8 0.0 191.0

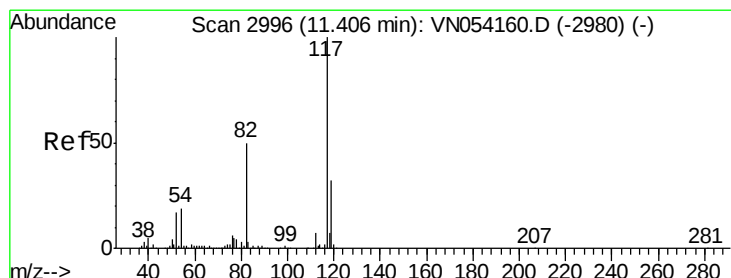
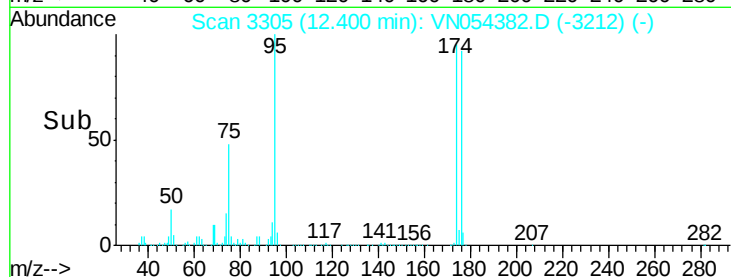
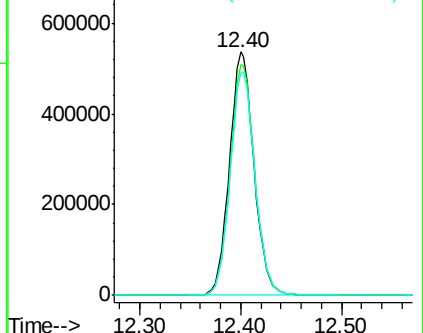
176 93.0 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054160.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN054160.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN054160.D (-3289) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

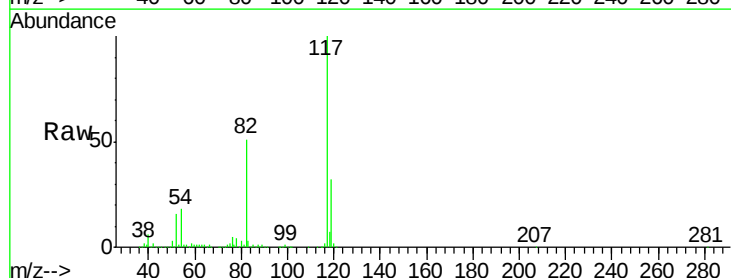
Tgt Ion: 117 Resp: 2208266

Ion Ratio Lower Upper

117 100

82 50.6 40.0 60.0

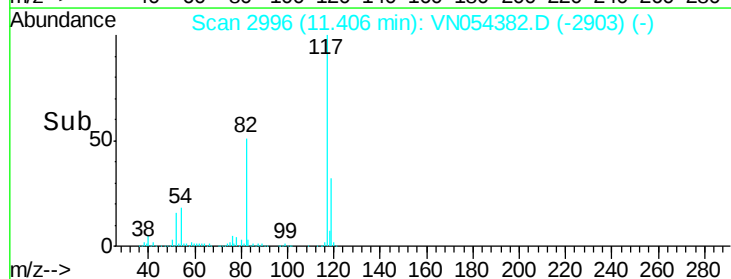
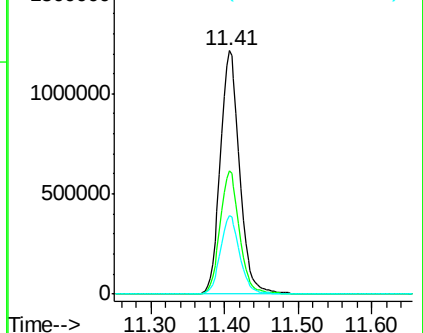
119 32.3 25.8 38.6

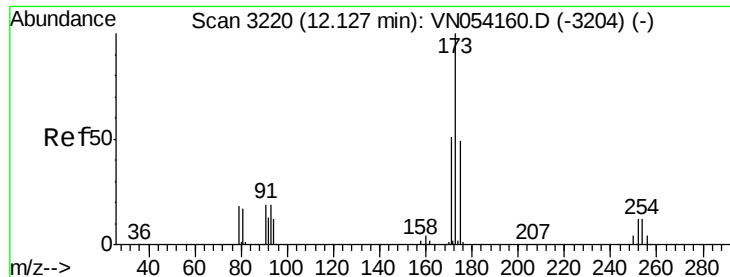


Abundance Ion 116.90 (116.60 to 117.60): VN054160.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN054160.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN054160.D (-2980) (-)





#71

Bromoform

Concen: 2.750 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

Instrument :

MSVOA_N

ClientSampled :

VN0318WBL01

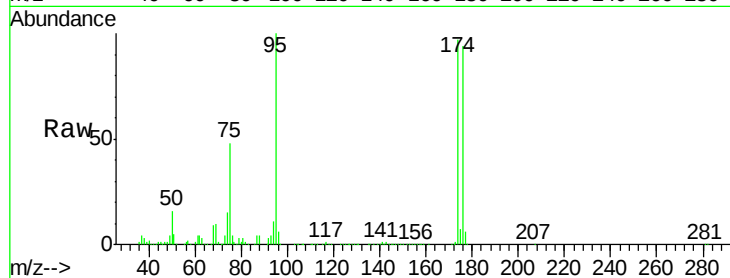
Tot Ion:173 Resp: 5628

Ion Ratio Lower Upper

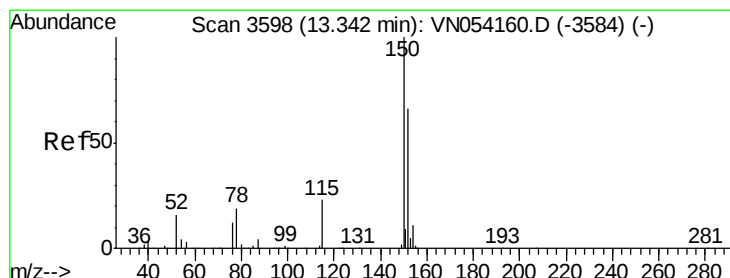
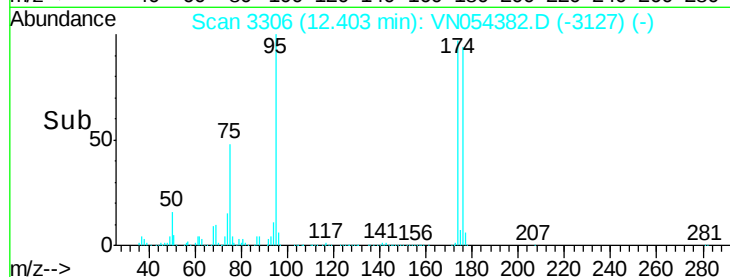
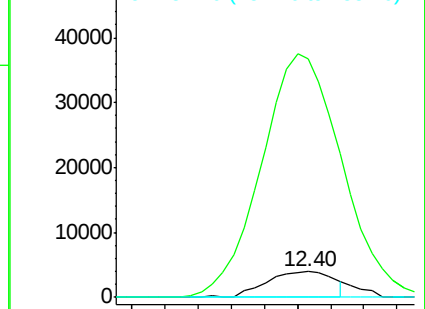
173 100

175 984.6 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: VN054382.D

Acq: 18 Mar 2019 9:53

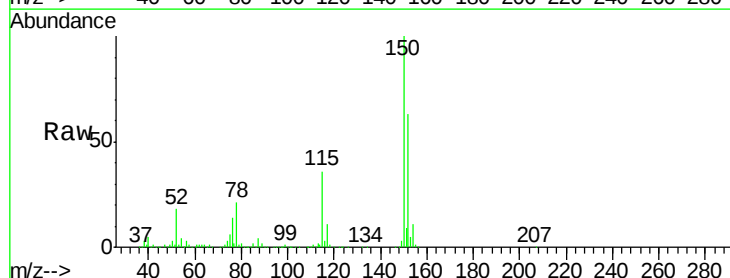
Tgt Ion:152 Resp: 782004

Ion Ratio Lower Upper

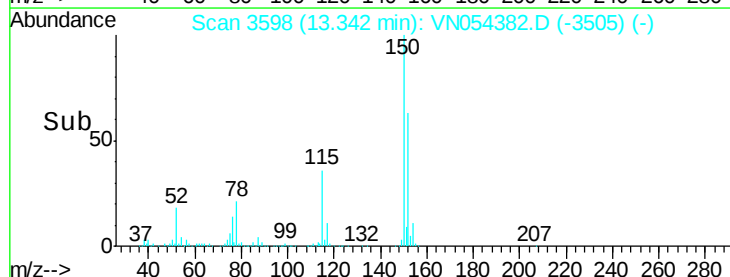
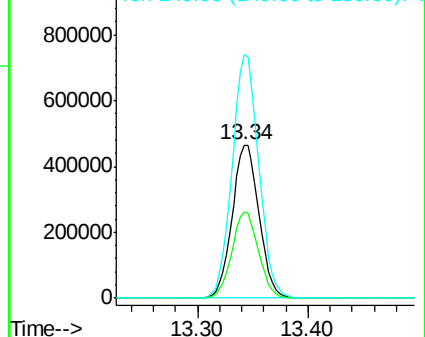
152 100

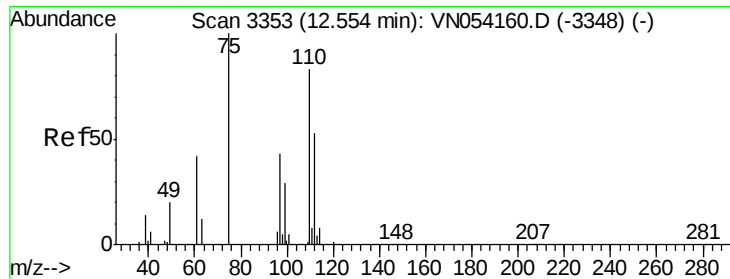
115 56.1 27.2 81.6

150 158.6 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: 37.583 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

Instrument :

MSVOA_N

ClientSampled :

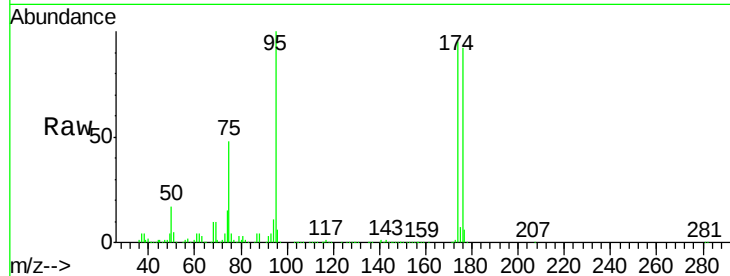
VN0318WBL01

Tot Ion: 75 Resp: 432193

Ion Ratio Lower Upper

75 100

77 1.2 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

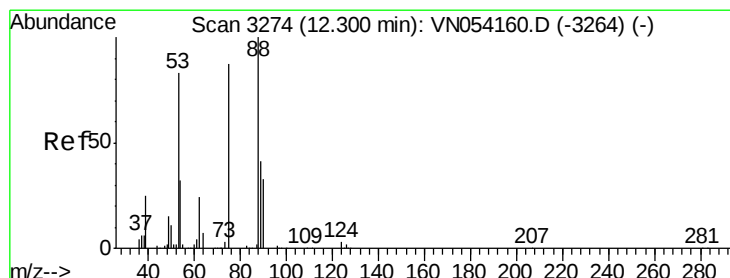
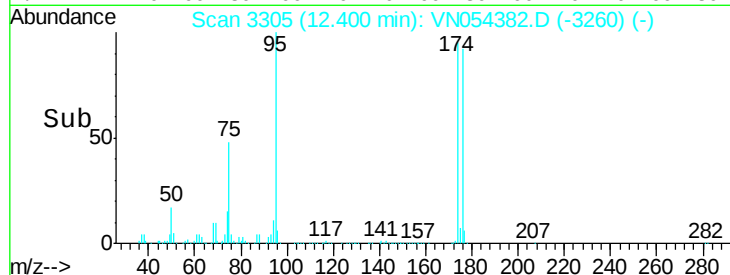
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 128.475 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

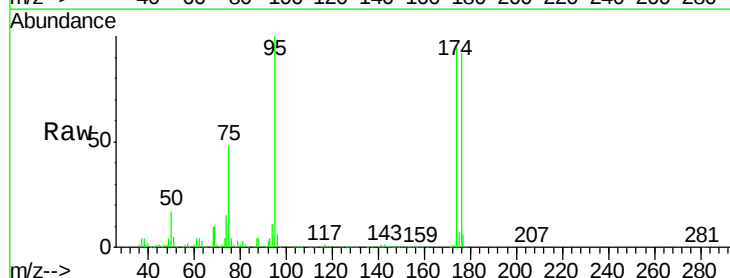
Tgt Ion: 75 Resp: 432193

Ion Ratio Lower Upper

75 100

53 0.0 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

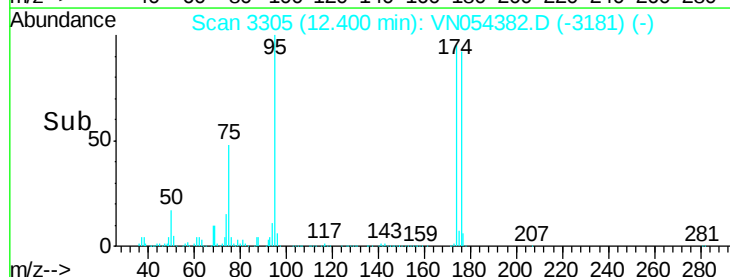
300000

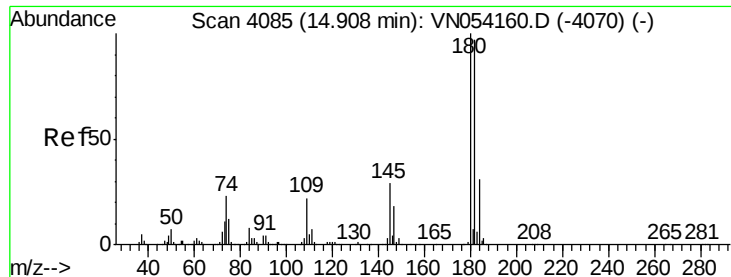
200000

100000

0

Time--> 12.30 12.40 12.50





#93

1,2,4-Trichlorobenzene

Concen: 2.641 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBL01

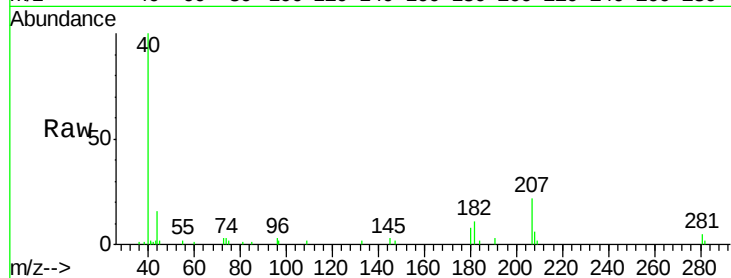
Tot Ion:180 Resp: 2161

Ion Ratio Lower Upper

180 100

182 108.7 48.0 144.2

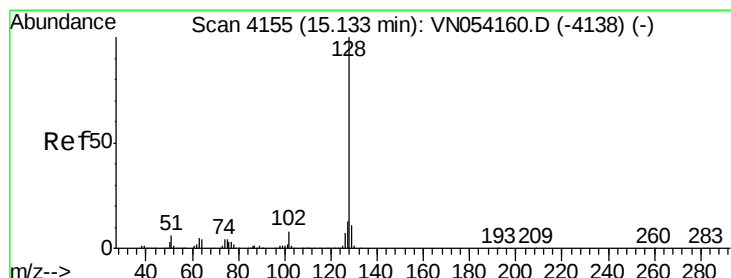
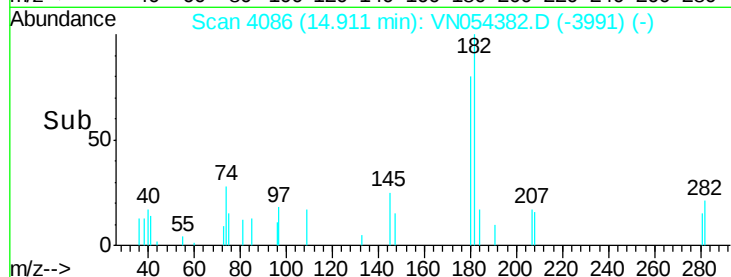
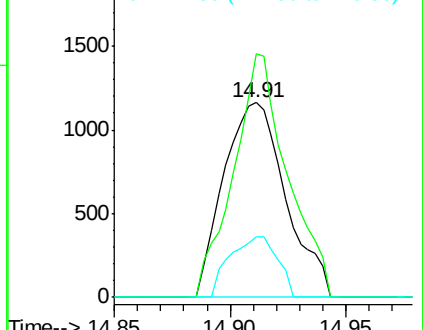
145 24.0 14.2 42.8



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



#95

Naphthalene

Concen: 3.639 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054382.D

Acq: 18 Mar 2019 9:53

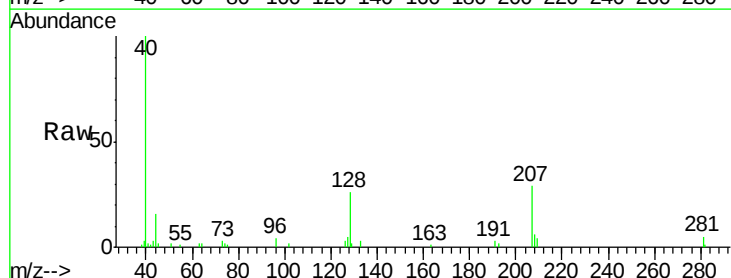
Tgt Ion:128 Resp: 6253

Ion Ratio Lower Upper

128 100

127 14.8 10.1 15.1

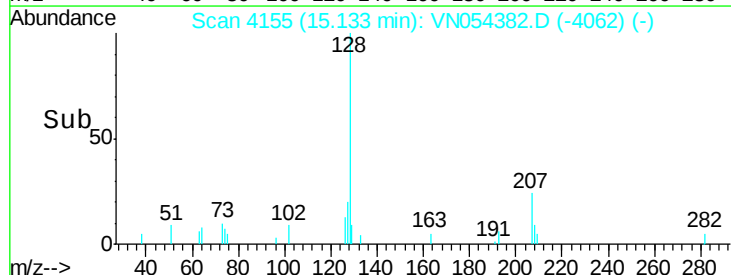
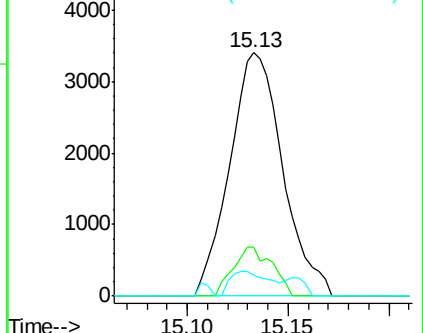
129 7.4 8.7 13.1#

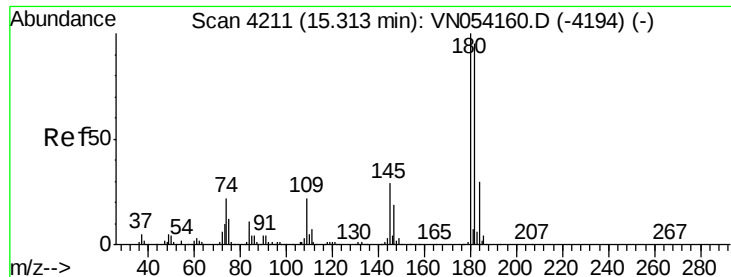


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.204 ug/l
 RT: 15.32 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN054382.D
 Acq: 18 Mar 2019 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.6	47.5	142.6
145	32.0	14.8	44.3

