

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN010219\
 Data File : VN053246.D
 Acq On : 2 Jan 2019 16:01
 Operator : MD\SY
 Sample : K1023-01DL 10X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PURGE-WATERDL

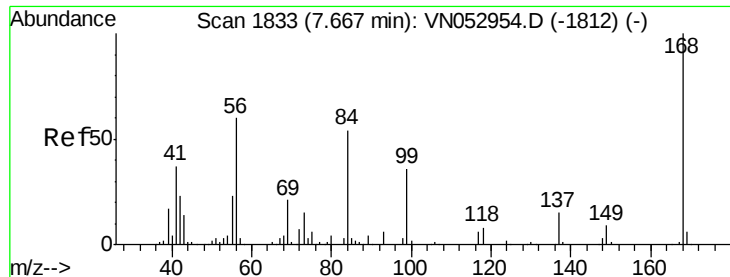
Quant Time: Jan 03 01:24:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1125329	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1722854	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1612665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	606134	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	545719	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	
35) Dibromofluoromethane	7.59	113	492105	62.53	ug/l	0.00
Spiked Amount			Recovery	=	125.06%	
50) Toluene-d8	10.09	98	2144935	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
62) 4-Bromofluorobenzene	12.40	95	734130	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	254	0.402	ug/l #	44
16) Acetone	3.82	43	12356	5.518	ug/l	98
18) Methyl Acetate	4.33	43	3401	1.320	ug/l #	77
25) 2-Butanone	6.84	43	1215	0.323	ug/l #	76
27) cis-1,2-Dichloroethene	6.83	96	42057	3.224	ug/l	89
31) Cyclohexane	7.66	56	17416	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	73591	4.450	ug/l #	49
38) Carbon Tetrachloride	7.66	117	96135	6.343	ug/l #	16
43) Isopropyl Acetate	8.20	43	6702	Below Cal	#	53
44) Trichloroethene	8.83	130	14919	1.049	ug/l	97
48) Methyl methacrylate	9.17	41	1932	0.216	ug/l #	37
60) Dibromochloromethane	10.63	129	681653	55.988	ug/l #	11
64) Tetrachloroethene	10.63	164	787656	45.089	ug/l	98
71) Bromoform	12.40	173	4744	0.528	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	344967	33.808	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	344967	108.968	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	554	0.646	ug/l #	83
95) Naphthalene	15.13	128	1654	1.214	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	808	0.590	ug/l #	72

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053246.D

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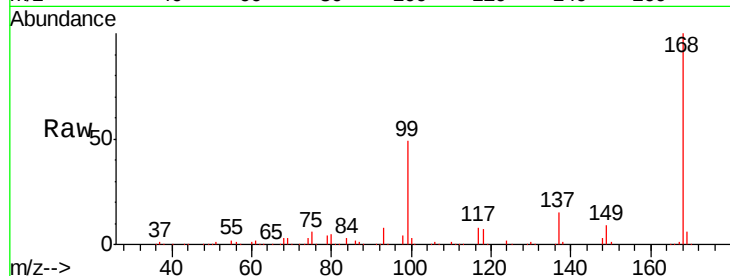
PURGE-WATERDL

Tgt Ion:168 Resp: 1125329

Ion Ratio Lower Upper

168 100

99 49.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053246.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053246.D (-1740) (-)

7.67

500000

400000

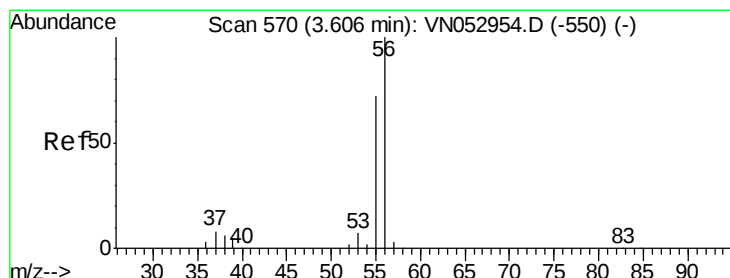
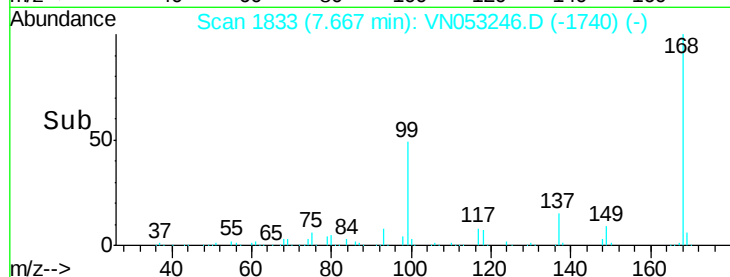
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.402 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053246.D

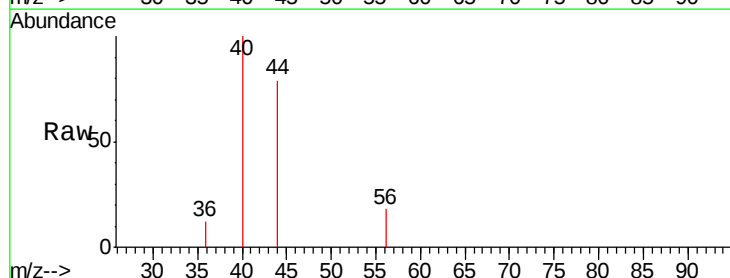
Acq: 2 Jan 2019 16:01

Tgt Ion: 56 Resp: 254

Ion Ratio Lower Upper

56 100

55 24.4 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN053246.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN053246.D (-477) (-)

3.61

250

200

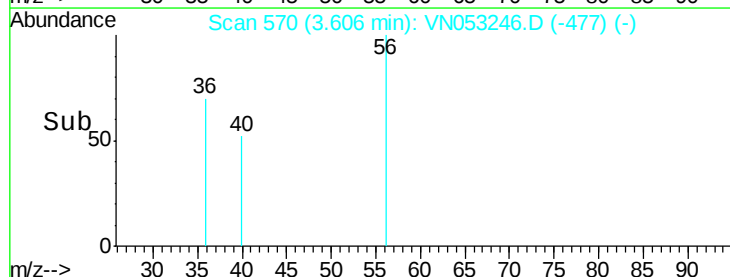
150

100

50

0

Time-->





#16

Acetone

Concen: 5.518 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

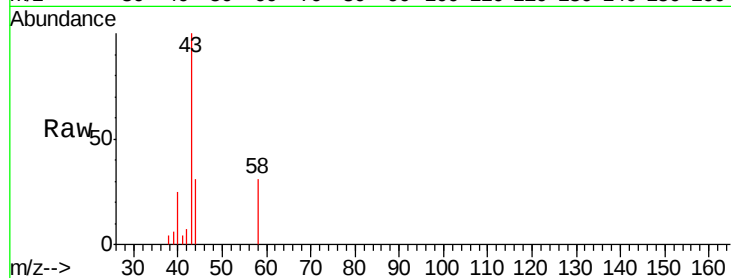
PURGE-WATERDL

Tgt Ion: 43 Resp: 12356

Ion Ratio Lower Upper

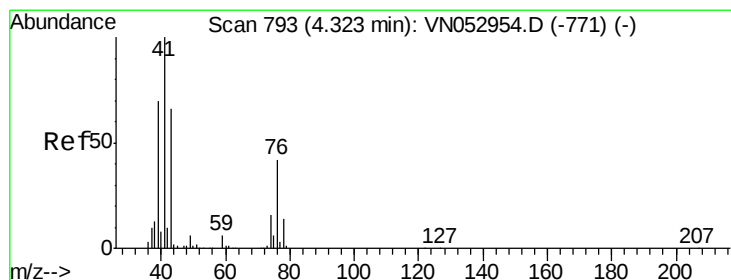
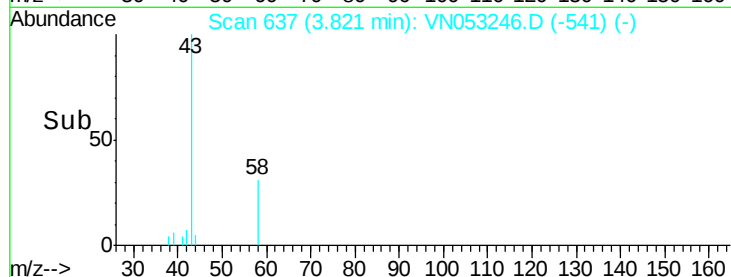
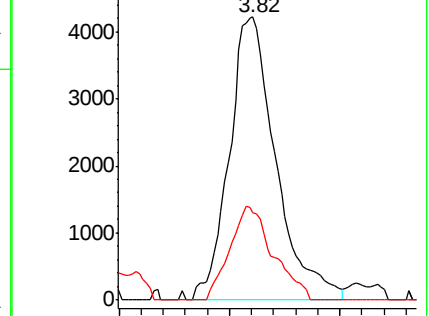
43 100

58 30.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.320 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053246.D

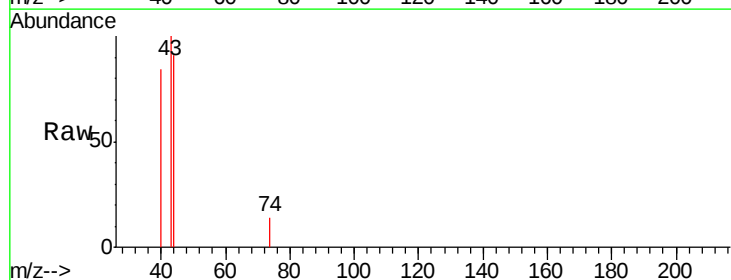
Acq: 2 Jan 2019 16:01

Tgt Ion: 43 Resp: 3401

Ion Ratio Lower Upper

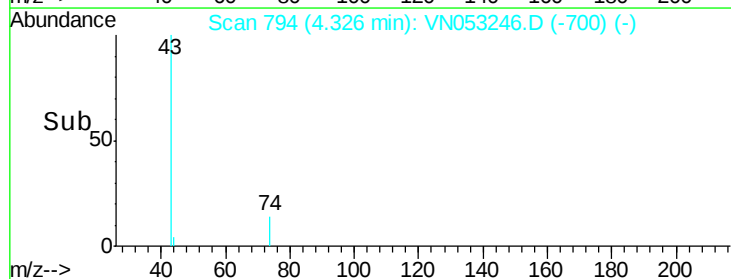
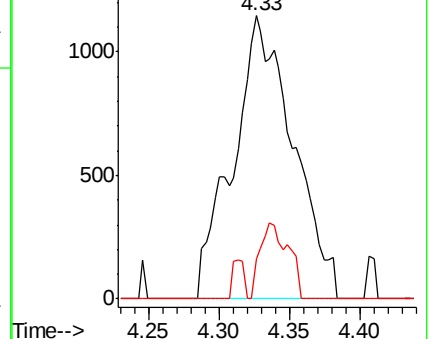
43 100

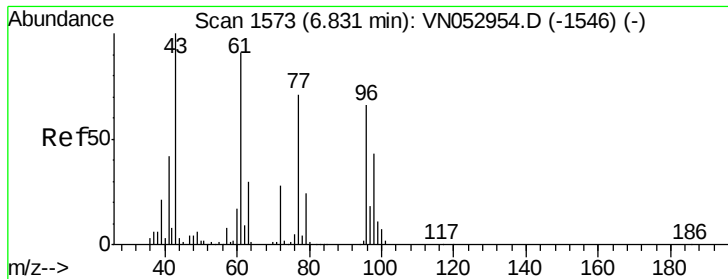
74 12.7 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 0.323 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

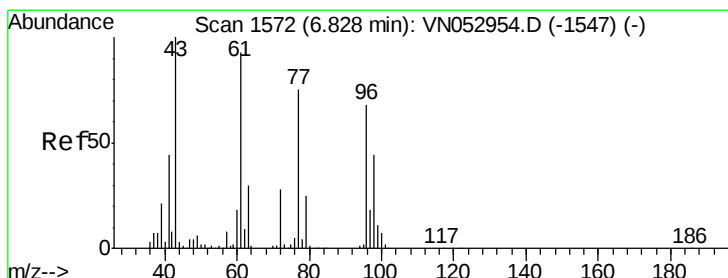
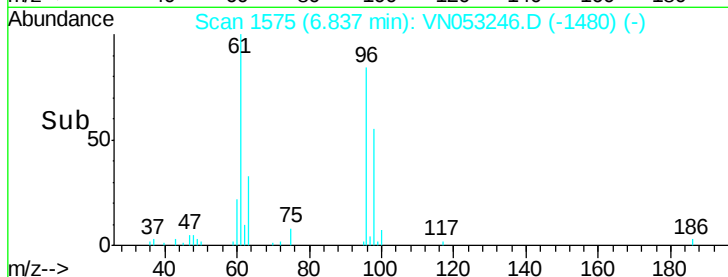
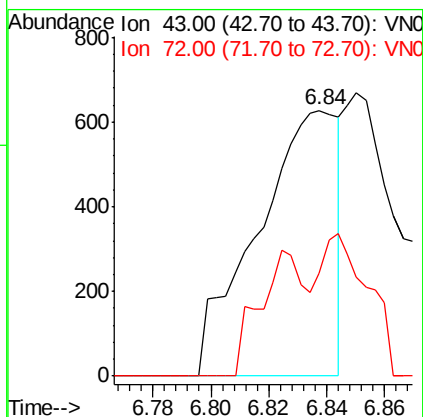
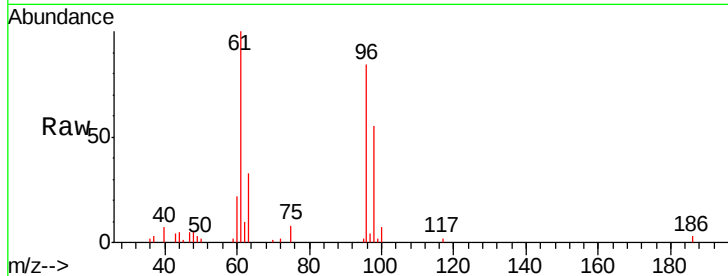
PURGE-WATERDL

Tgt Ion: 43 Resp: 1215

Ion Ratio Lower Upper

43 100

72 38.6 21.0 31.6#



#27

cis-1,2-Dichloroethene

Concen: 3.224 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

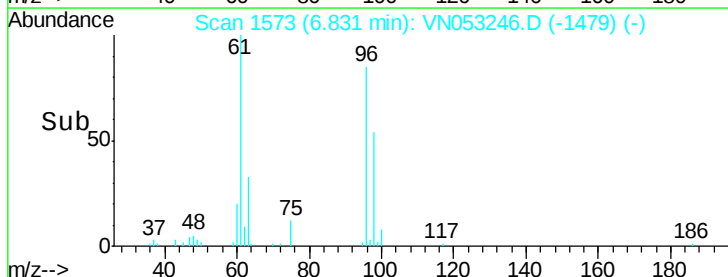
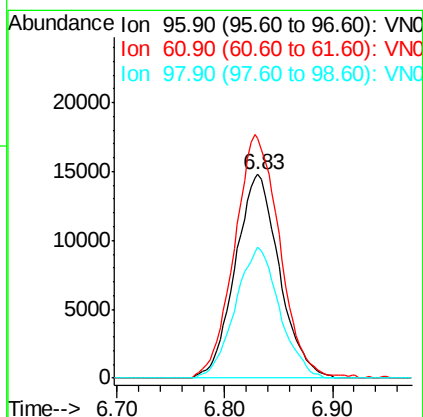
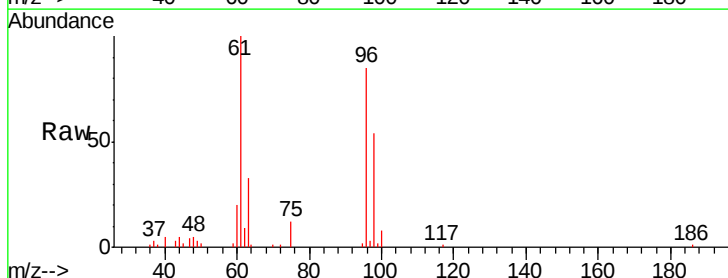
Tgt Ion: 96 Resp: 42057

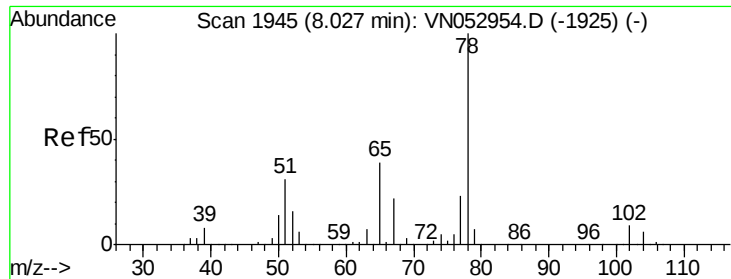
Ion Ratio Lower Upper

96 100

61 122.2 0.0 284.2

98 64.2 0.0 129.2

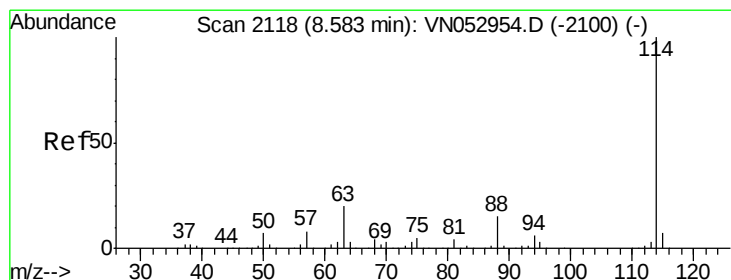
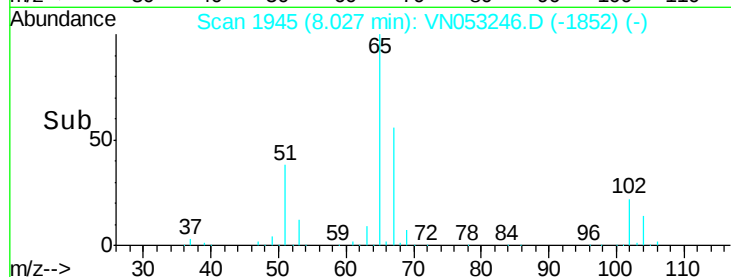
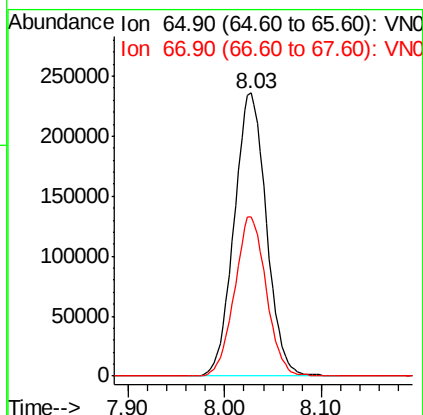
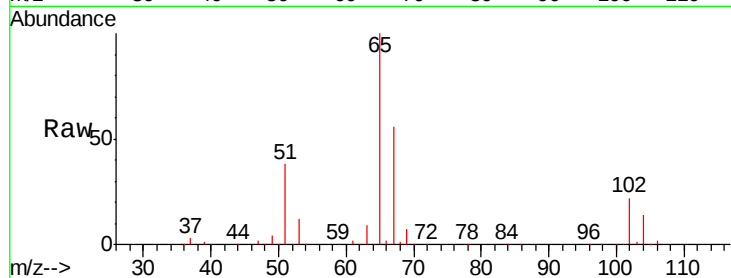




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053246.D
 Acq: 2 Jan 2019 16:01

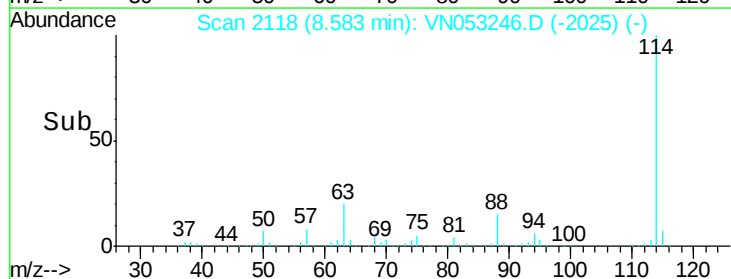
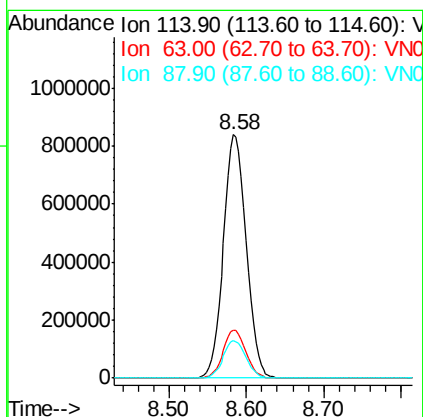
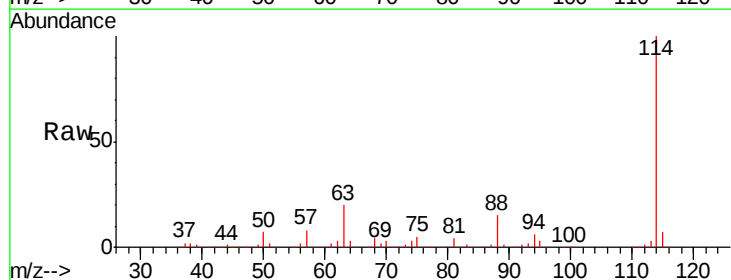
Instrument :
 MSVOA_N
 ClientSampleId :
 PURGE-WATERDL

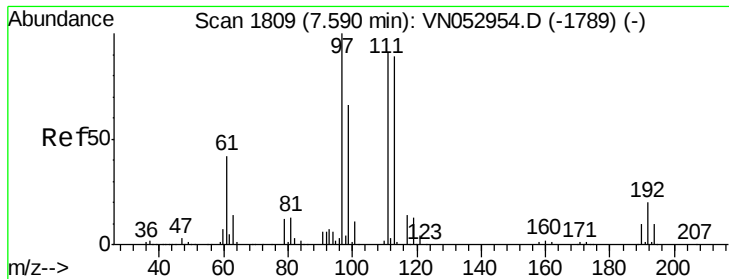
Tgt Ion: 65 Resp: 545719
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053246.D
 Acq: 2 Jan 2019 16:01

Tgt Ion: 114 Resp: 1722854
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.8
 88 15.4 0.0 31.0

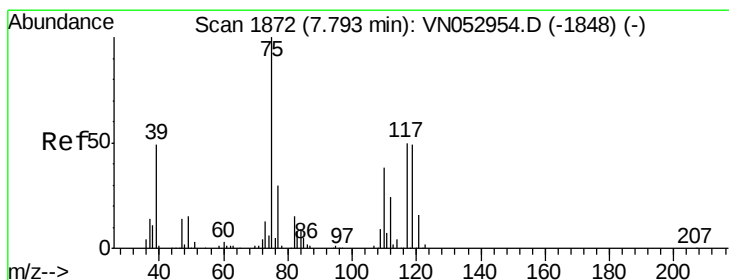
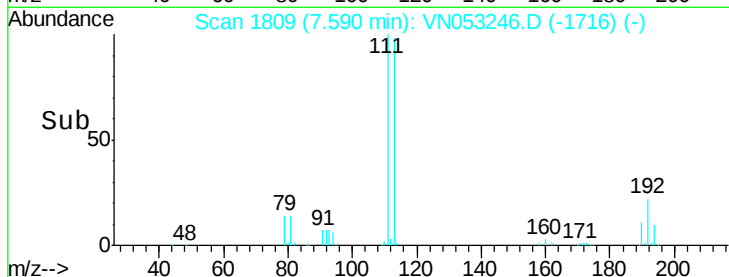
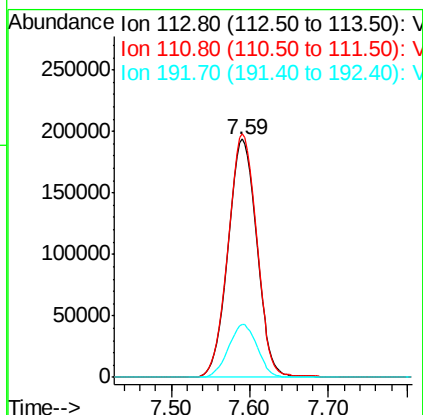
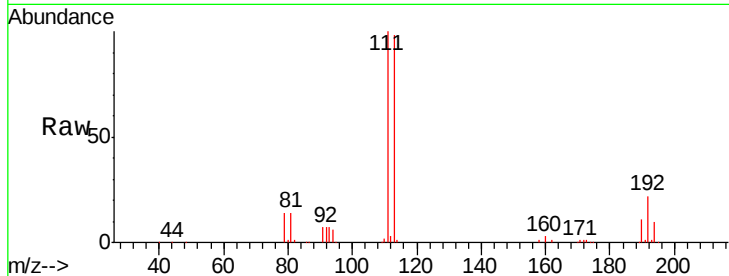




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053246.D
 Acq: 2 Jan 2019 16:01

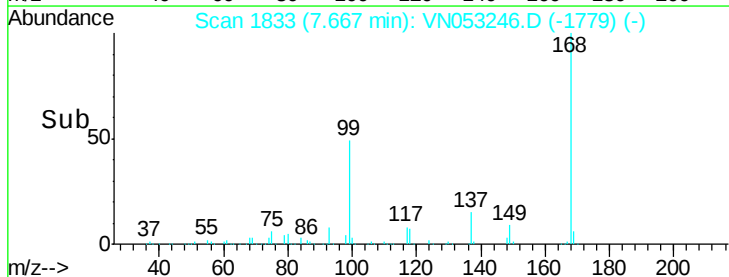
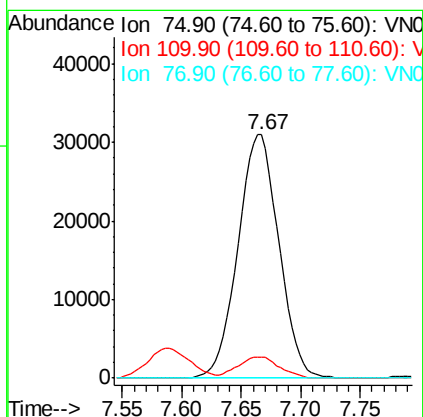
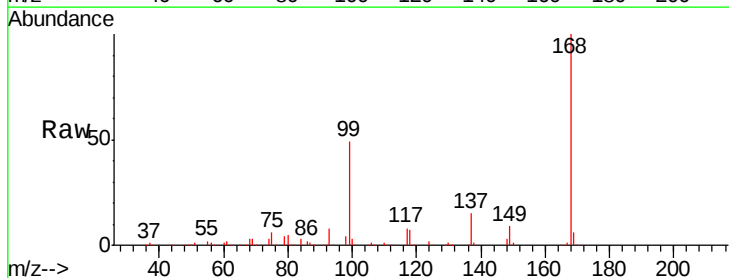
Instrument :
 MSVOA_N
 ClientSampleId :
 PURGE-WATERDL

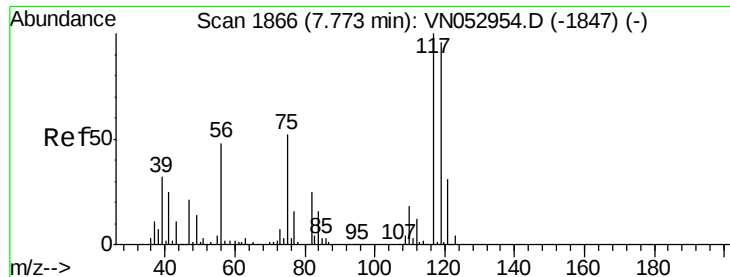
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.0	124.4
192	22.3	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 4.450 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053246.D
 Acq: 2 Jan 2019 16:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.2	54.6#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.343 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

PURGE-WATERDL

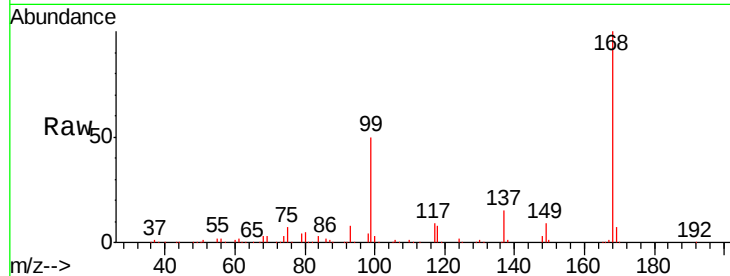
Tgt Ion:117 Resp: 96135

Ion Ratio Lower Upper

117 100

119 5.0 77.1 115.7#

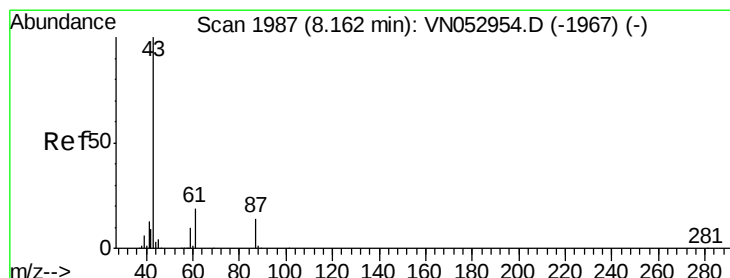
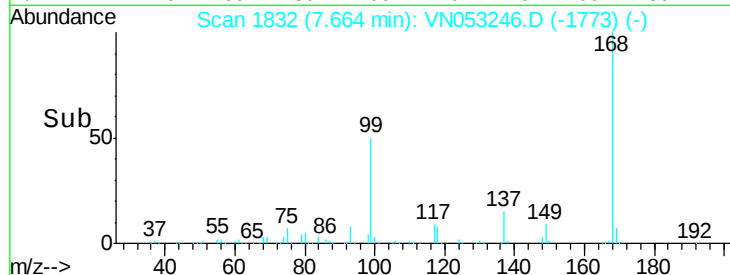
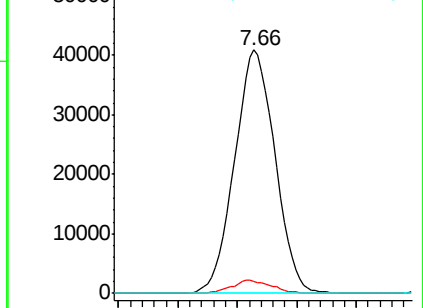
121 0.0 24.9 37.3#



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



#43

Isopropyl Acetate

Concen: Below Cal

RT: 8.20 min Scan# 2000

Delta R.T. 0.04 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

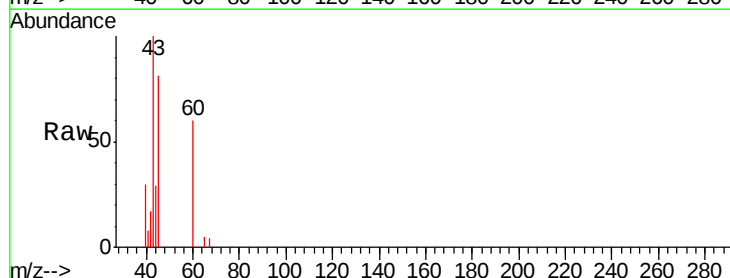
Tgt Ion: 43 Resp: 6702

Ion Ratio Lower Upper

43 100

61 0.0 22.9 34.3#

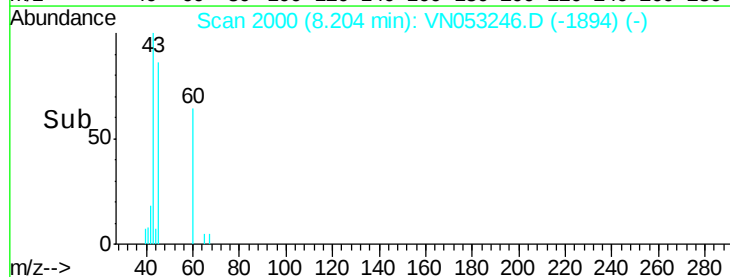
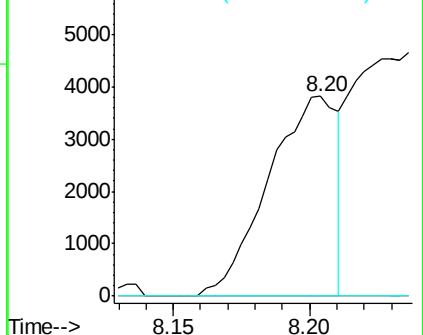
87 0.0 10.6 15.8#

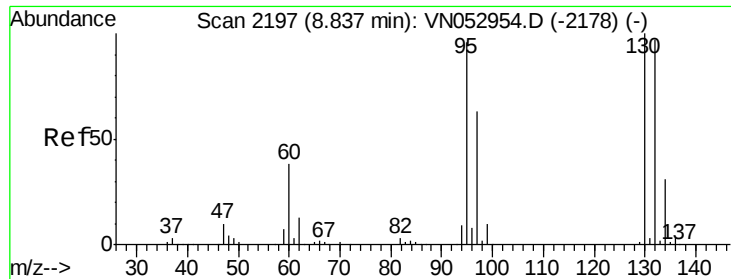


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#44

Trichloroethene

Concen: 1.049 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

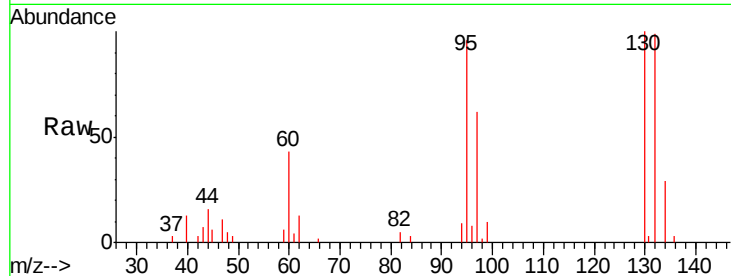
PURGE-WATERDL

Tgt Ion:130 Resp: 14919

Ion Ratio Lower Upper

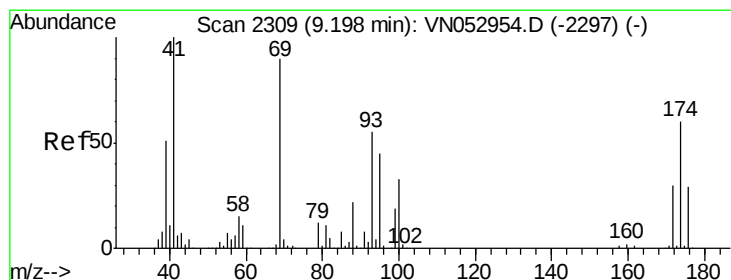
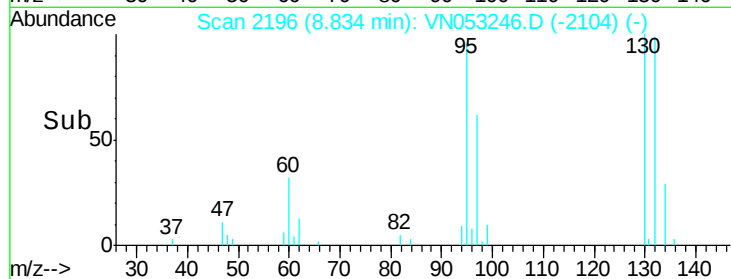
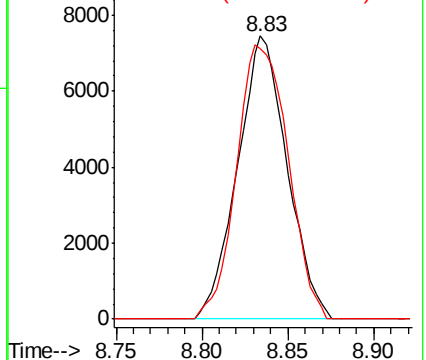
130 100

95 95.7 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#48

Methyl methacrylate

Concen: 0.216 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

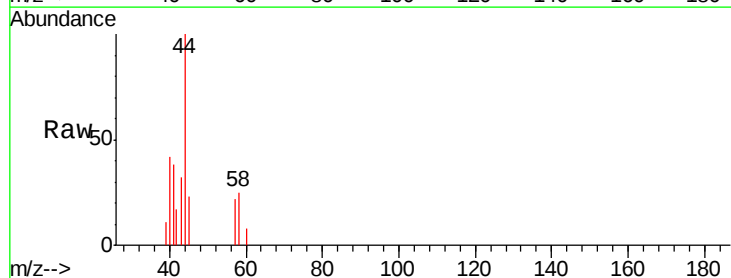
Tgt Ion: 41 Resp: 1932

Ion Ratio Lower Upper

41 100

69 0.0 72.2 108.2#

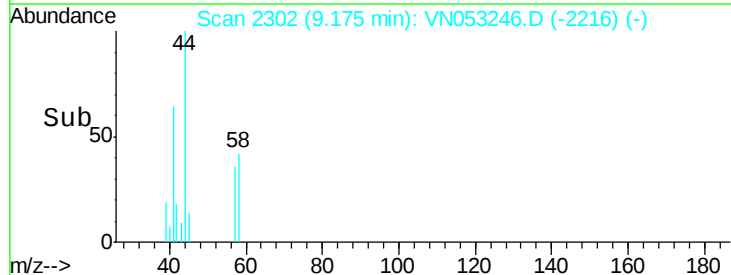
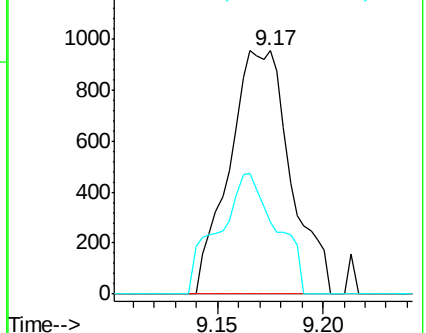
39 46.8 41.9 62.9

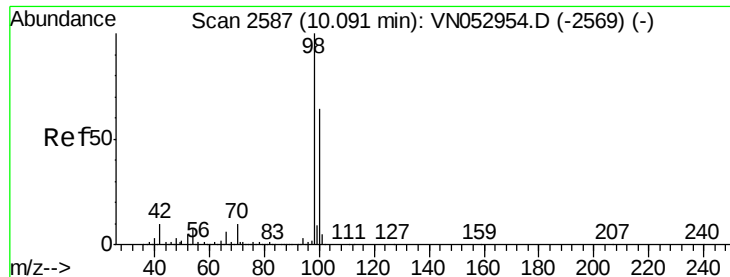


Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 69.00 (68.70 to 69.70): VN

Ion 39.00 (38.70 to 39.70): VN





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

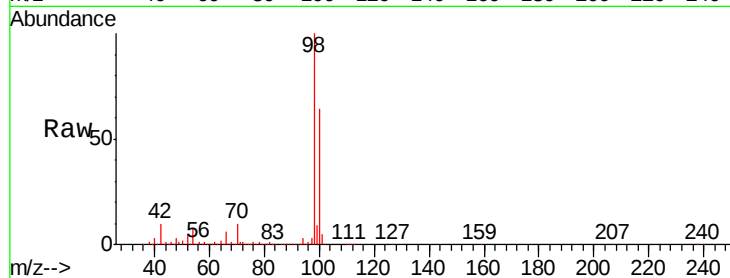
PURGE-WATERDL

Tgt Ion: 98 Resp: 2144935

Ion Ratio Lower Upper

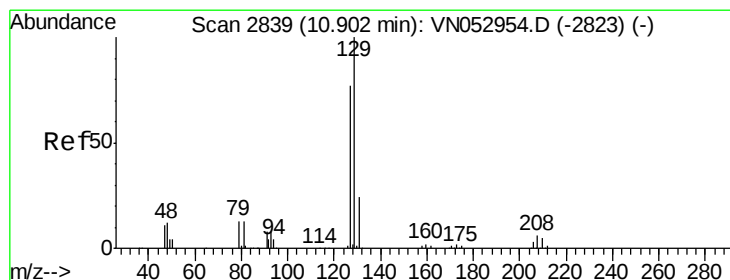
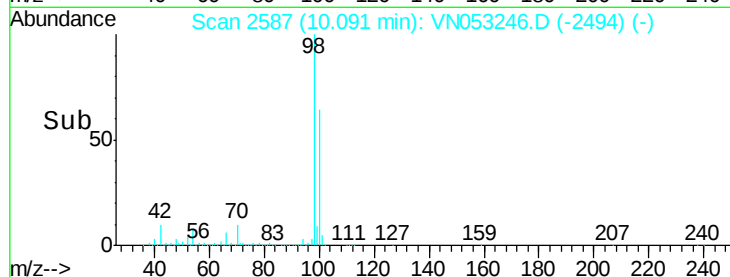
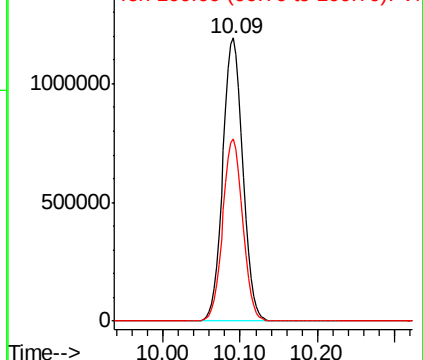
98 100

100 64.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN053246.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN053246.D (-2494) (-)



#60

Dibromochloromethane

Concen: 55.988 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN053246.D

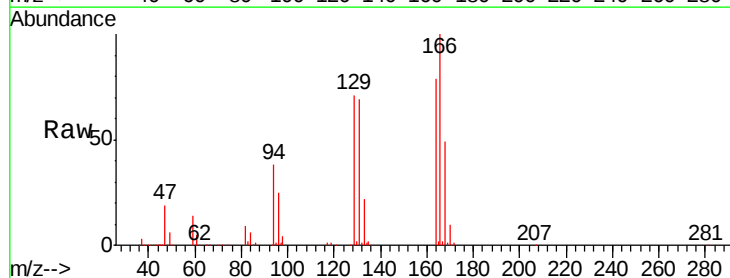
Acq: 2 Jan 2019 16:01

Tgt Ion: 129 Resp: 681653

Ion Ratio Lower Upper

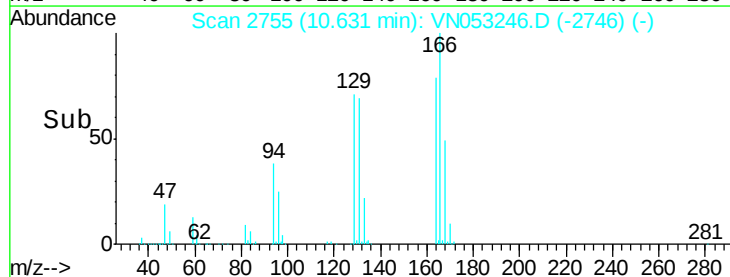
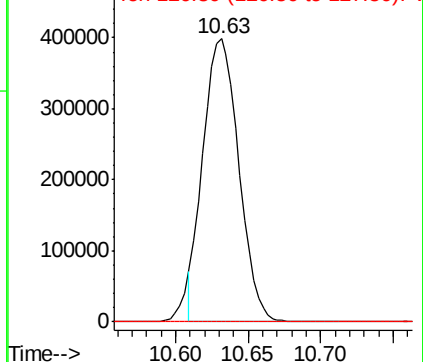
129 100

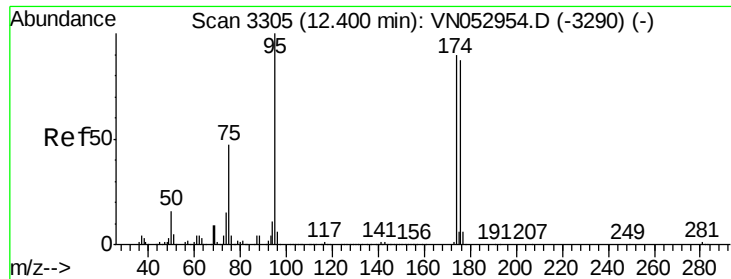
127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): VN053246.D (-2746) (-)

Ion 126.80 (126.50 to 127.50): VN053246.D (-2746) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

PURGE-WATERDL

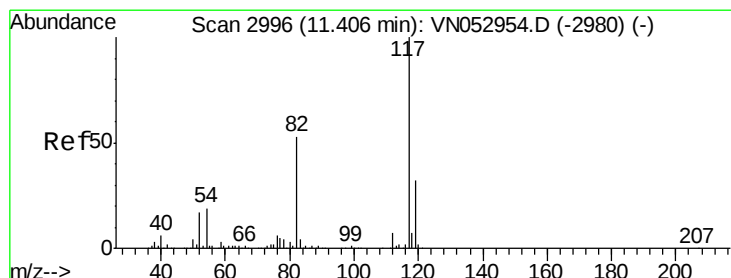
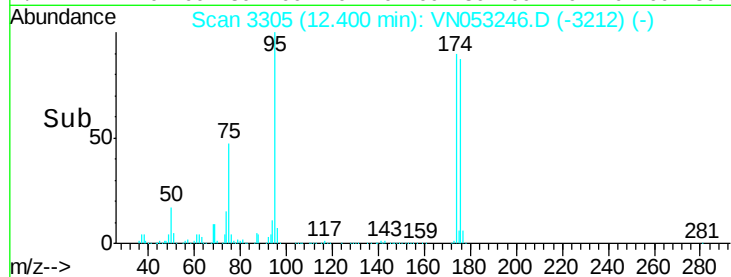
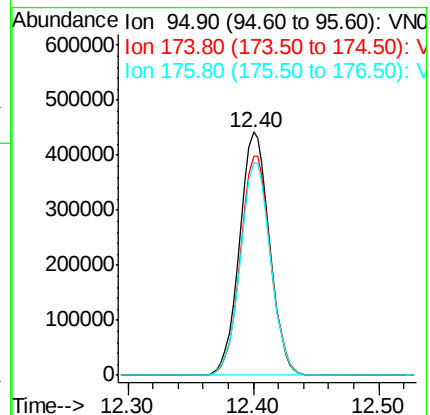
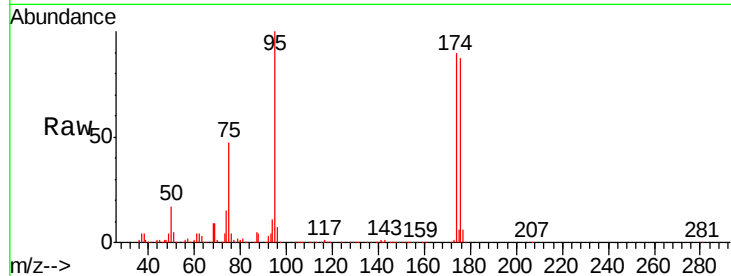
Tgt Ion: 95 Resp: 734130

Ion Ratio Lower Upper

95 100

174 90.5 0.0 178.8

176 87.9 0.0 173.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

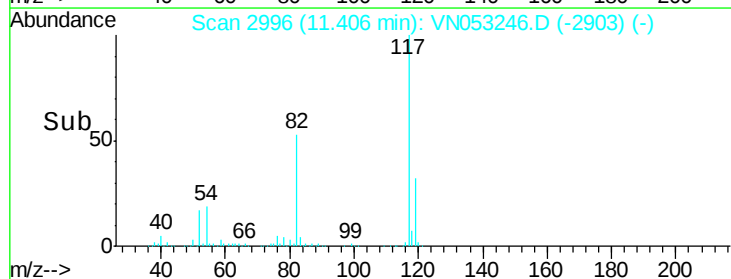
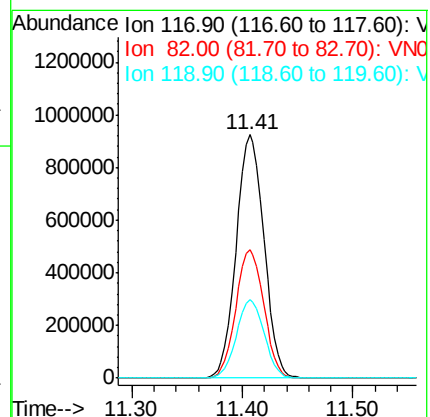
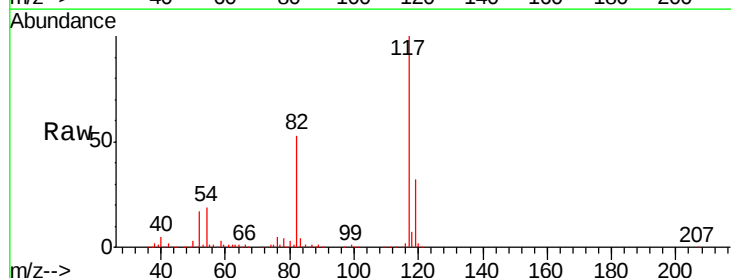
Tgt Ion: 117 Resp: 1612665

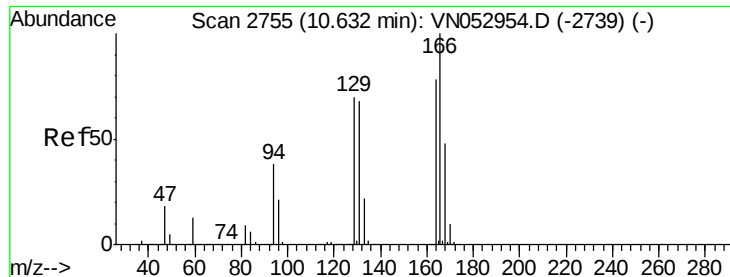
Ion Ratio Lower Upper

117 100

82 52.7 42.8 64.2

119 32.1 25.5 38.3





#64

Tetrachloroethene

Concen: 45.089 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

PURGE-WATERDL

Tgt Ion:164 Resp: 787656

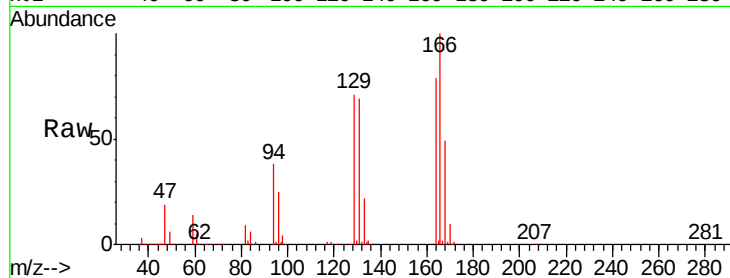
Ion Ratio Lower Upper

164 100

166 126.5 102.9 154.3

129 90.0 73.7 110.5

131 86.9 70.7 106.1

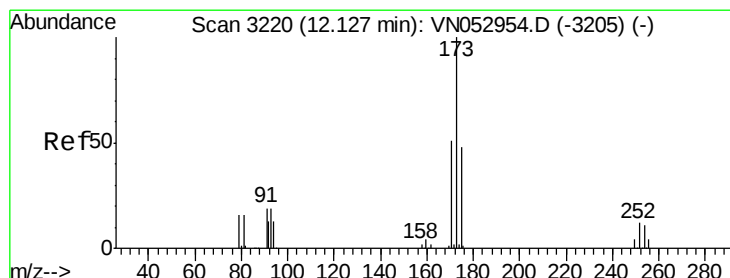
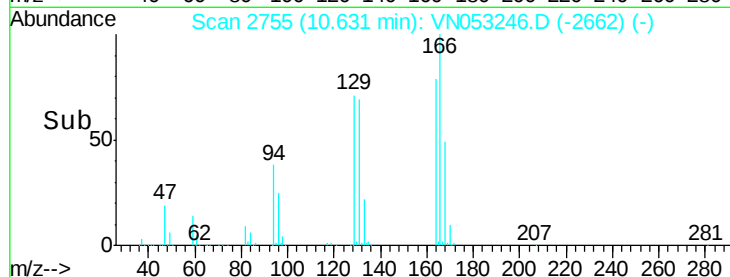
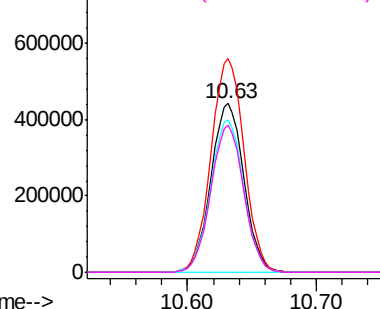


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.528 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

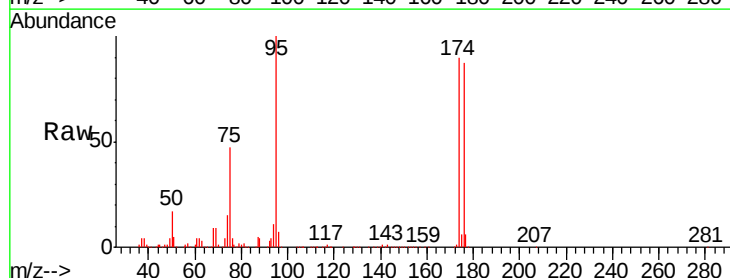
Tgt Ion:173 Resp: 4744

Ion Ratio Lower Upper

173 100

175 880.9 24.3 72.9#

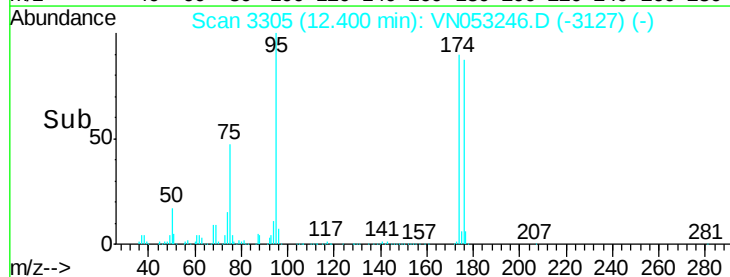
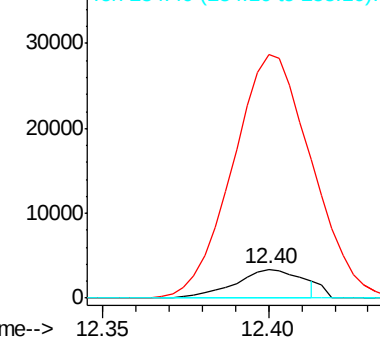
254 0.0 0.1 0.1#

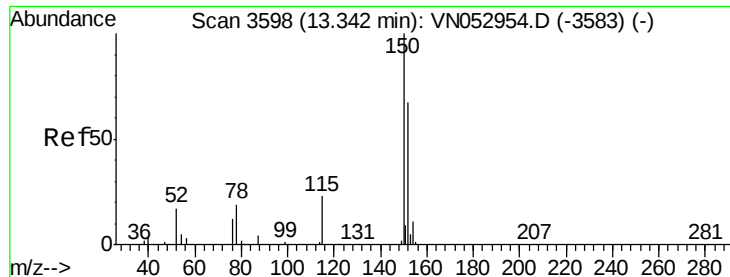


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

PURGE-WATERDL

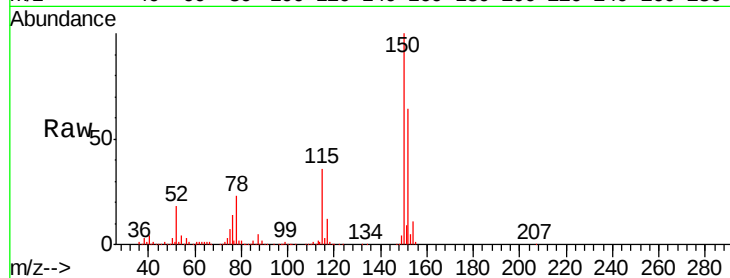
Tgt Ion:152 Resp: 606134

Ion Ratio Lower Upper

152 100

115 55.9 28.3 85.0

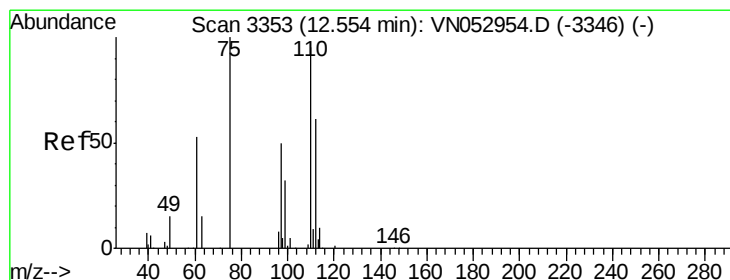
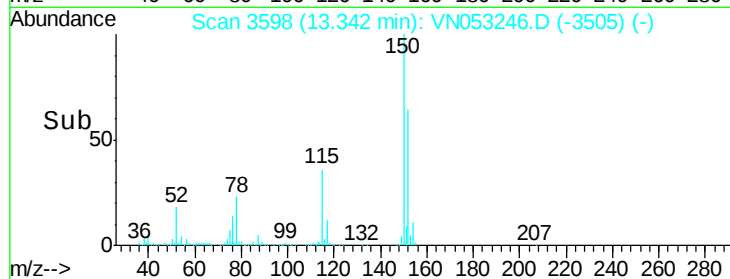
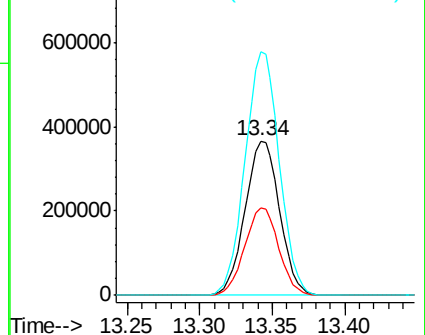
150 156.6 0.0 347.8



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: 33.808 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053246.D

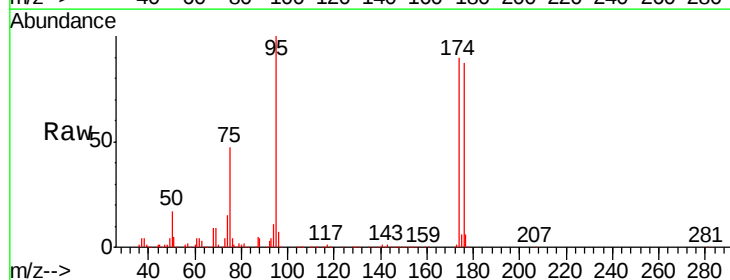
Acq: 2 Jan 2019 16:01

Tgt Ion: 75 Resp: 344967

Ion Ratio Lower Upper

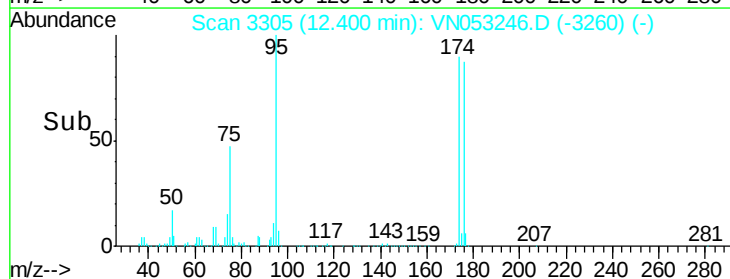
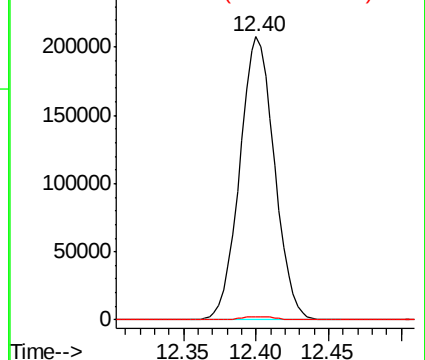
75 100

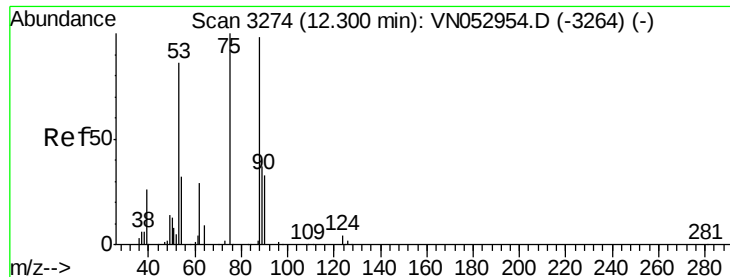
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 108.968 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

PURGE-WATERDL

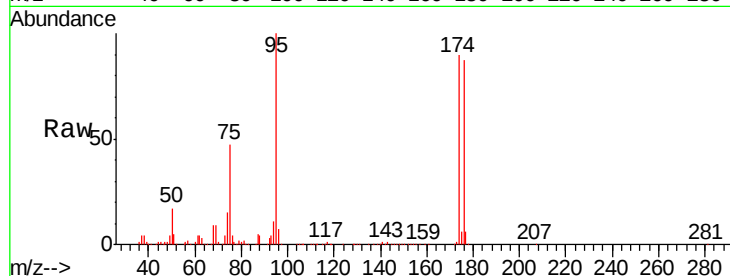
Tgt Ion: 75 Resp: 344967

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

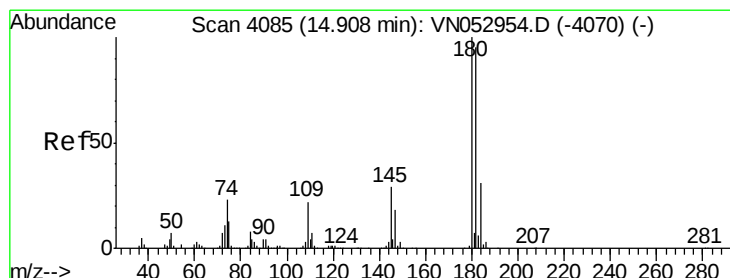
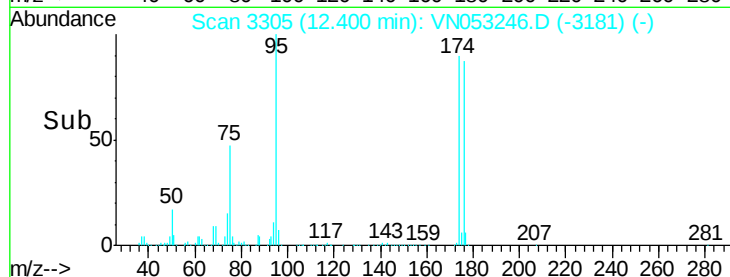
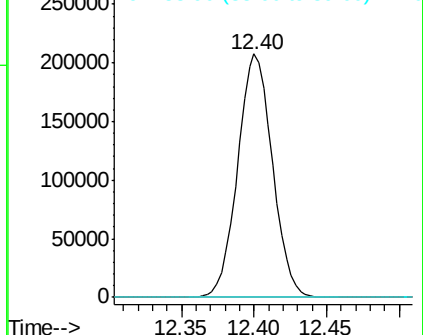
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 0.646 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

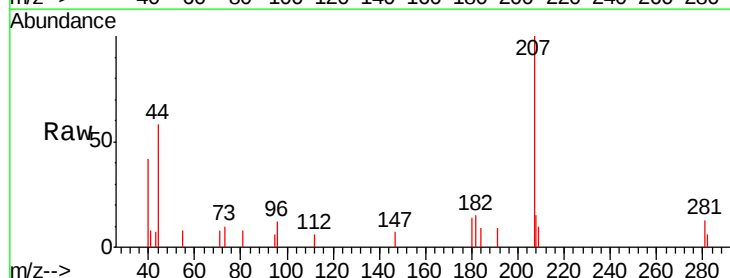
Tgt Ion: 180 Resp: 554

Ion Ratio Lower Upper

180 100

182 101.1 47.8 143.3

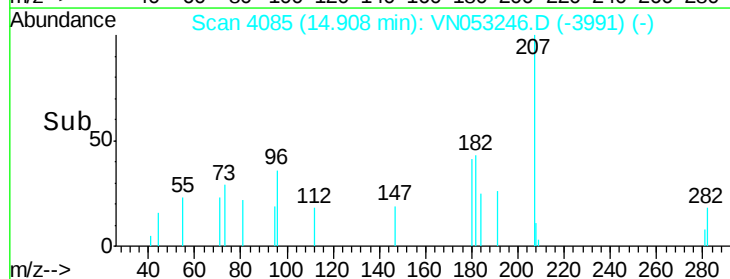
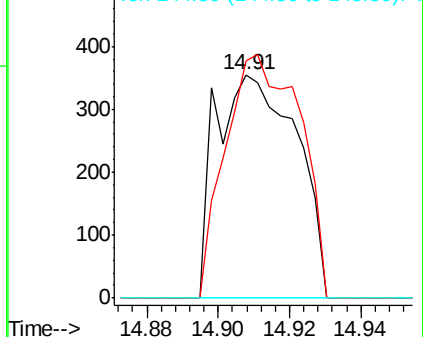
145 0.0 14.2 42.6#

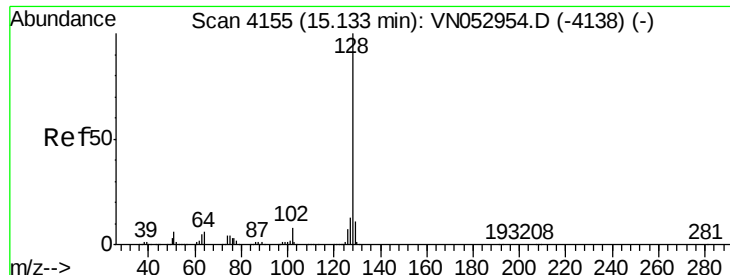


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 1.214 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

PURGE-WATERDL

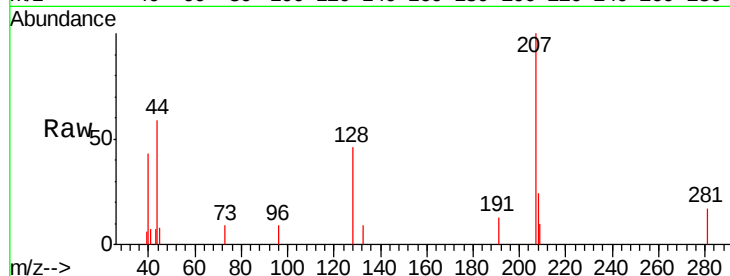
Tgt Ion:128 Resp: 1654

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

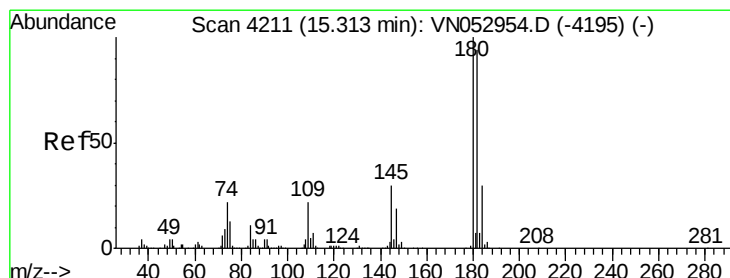
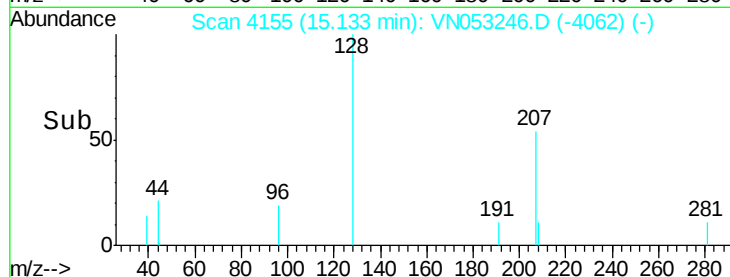
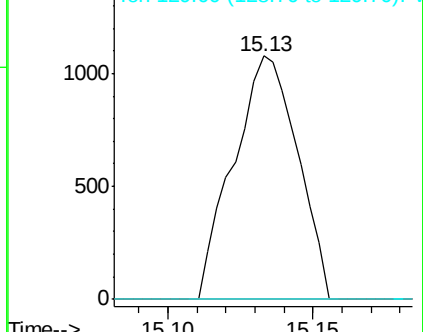
129 0.0 8.6 13.0#



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: 0.590 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN053246.D

Acq: 2 Jan 2019 16:01

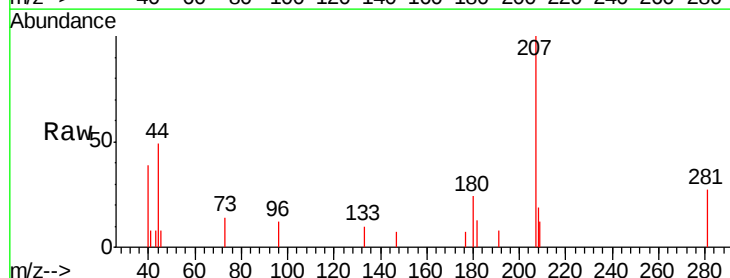
Tgt Ion:180 Resp: 808

Ion Ratio Lower Upper

180 100

182 77.2 47.9 143.7

145 0.0 15.0 45.0#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

