

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111319\
 Data File : VN059213.D
 Acq On : 13 Nov 2019 16:43
 Operator : JC/SP
 Sample : K5814-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30663

Quant Time: Nov 22 04:03:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	422582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	656927	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	569499	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	209809	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	274732	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
35) Dibromofluoromethane	7.57	113	211373	53.89	ug/l	0.00
Spiked Amount			Recovery	=	107.78%	
50) Toluene-d8	10.08	98	812232	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
62) 4-Bromofluorobenzene	12.40	95	256498	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	

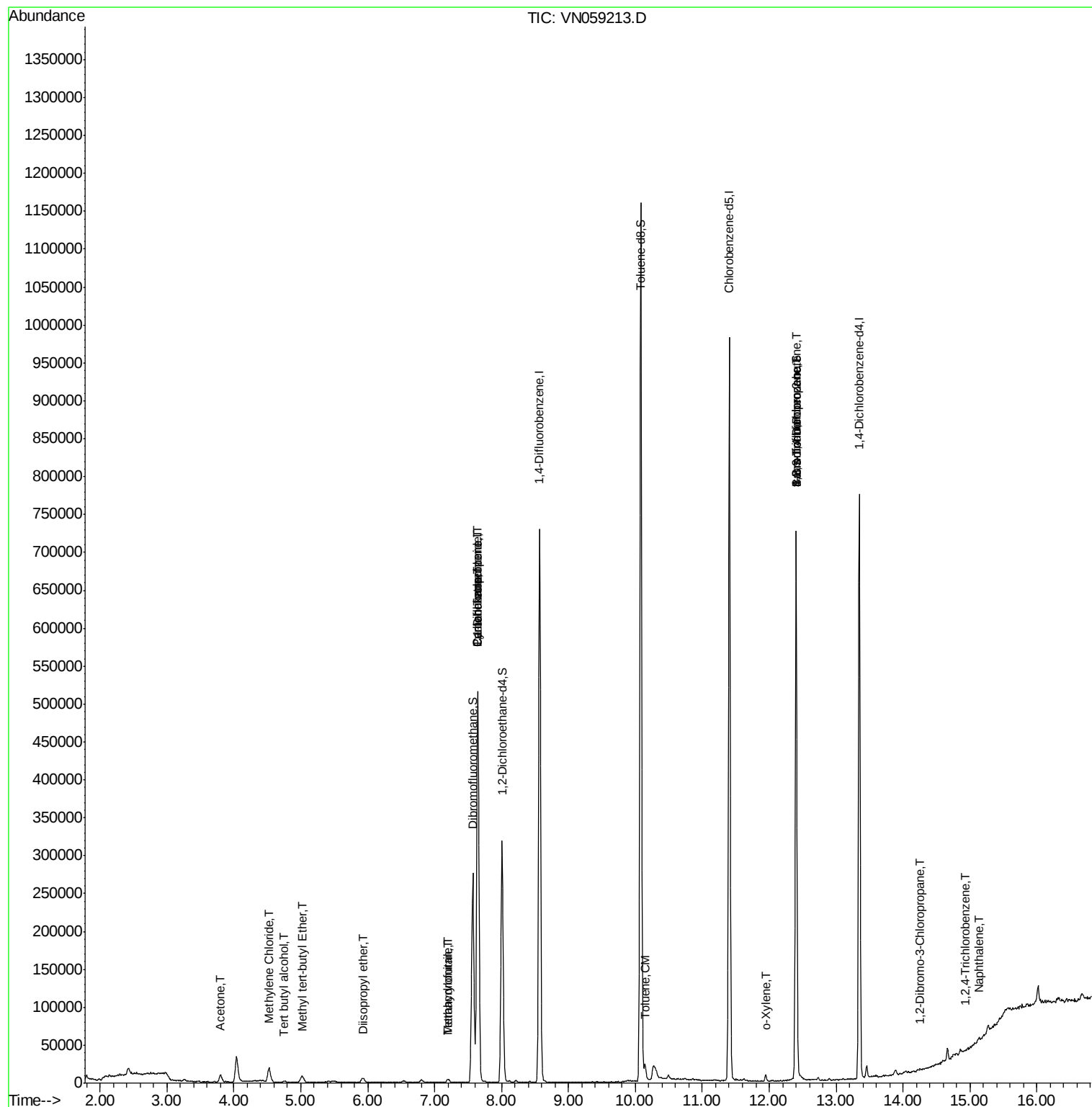
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	1335	1.349	ug/l #	72
16) Acetone	3.81	43	16294	6.032	ug/l	94
19) Methyl tert-butyl Ether	5.02	73	13560	0.999	ug/l	99
20) Methylene Chloride	4.53	84	14686	3.121	ug/l	99
22) Diisopropyl ether	5.93	45	7444	0.487	ug/l	93
29) Tetrahydrofuran	7.20	42	3889	1.719	ug/l	90
31) Cyclohexane	7.64	56	8996	1.112	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	33143	5.398	ug/l #	49
38) Carbon Tetrachloride	7.65	117	39921	6.532	ug/l #	17
41) Methacrylonitrile	7.20	41	2503	0.843	ug/l #	100
52) Toluene	10.15	92	8012	0.723	ug/l	99
69) o-Xylene	11.95	106	2381	0.334	ug/l	95
71) Bromoform	12.40	173	1673	0.516	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	128622	26.927	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	128622	71.122	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	223	0.241	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	104	3.071	ug/l #	11
95) Naphthalene	15.13	128	2416	3.254	ug/l #	90

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

Instrument :

MSVOA_N

ClientSampled :

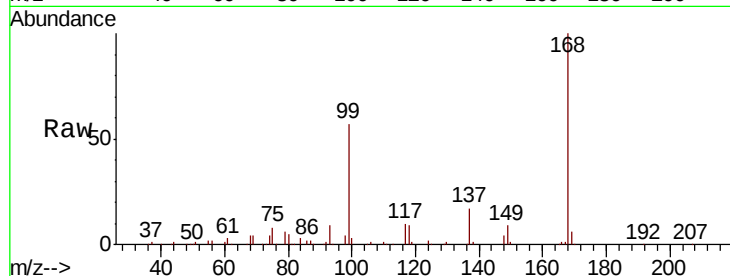
30663

Tot Ion:168 Resp: 422582

Ion Ratio Lower Upper

168 100

99 56.6 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059213.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN059213.D (-1733) (-)

7.64

150000

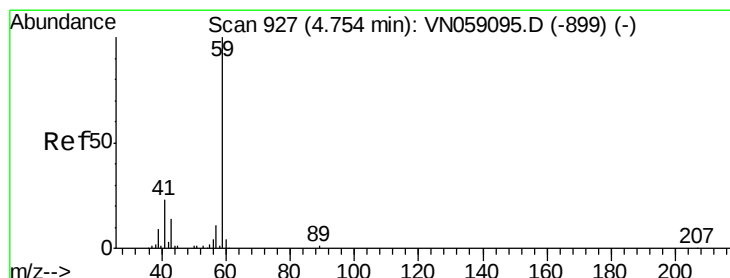
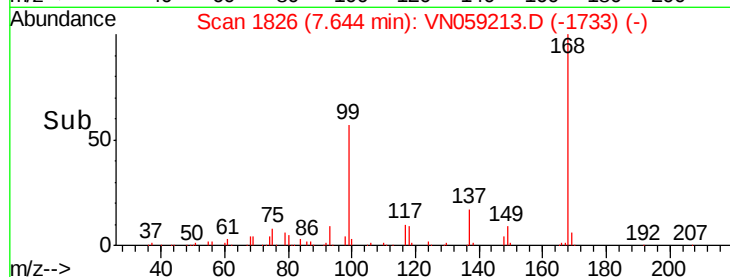
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 1.349 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.00 min

Lab File: VN059213.D

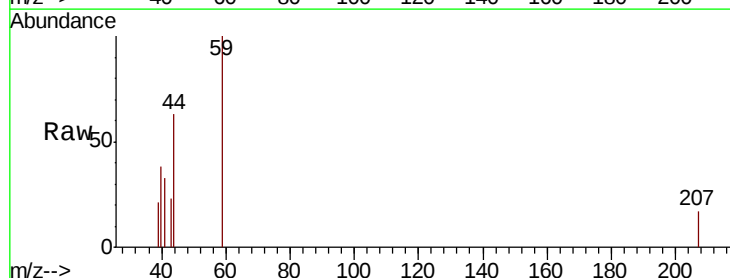
Acq: 13 Nov 2019 16:43

Tgt Ion: 59 Resp: 1335

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN059213.D (-834) (-)

Ion 57.00 (56.70 to 57.70): VN059213.D (-834) (-)

4.75

1000

800

600

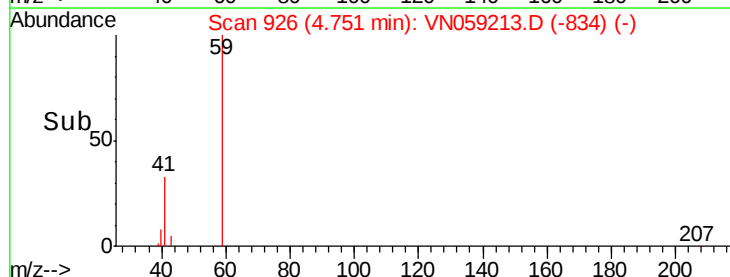
400

200

0

4.70 4.75

Time-->





#16

Acetone

Concen: 6.032 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.02 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

Instrument :

MSVOA_N

ClientSampleId :

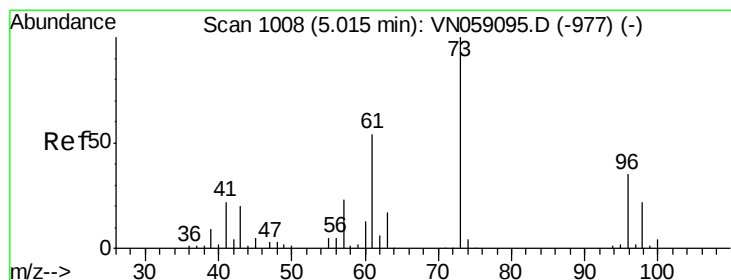
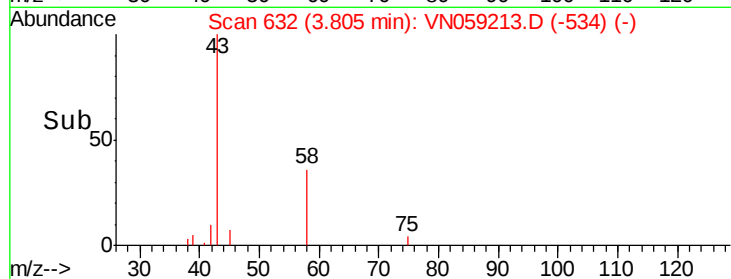
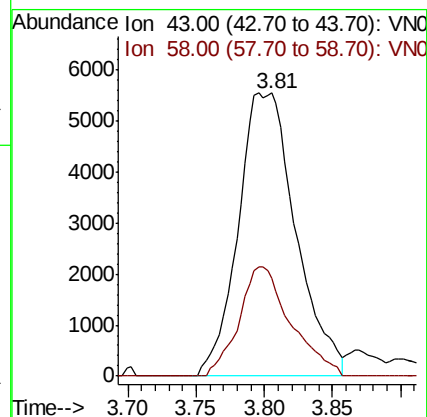
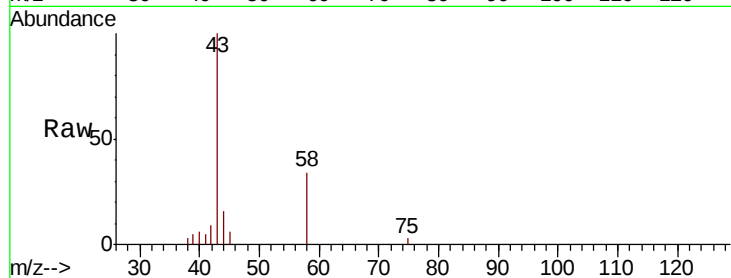
30663

Tot Ion: 43 Resp: 16294

Ion Ratio Lower Upper

43 100

58 34.5 24.9 37.3



#19

Methyl tert-butyl Ether

Concen: 0.999 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.01 min

Lab File: VN059213.D

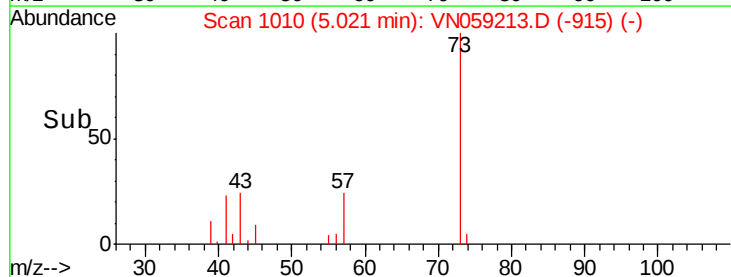
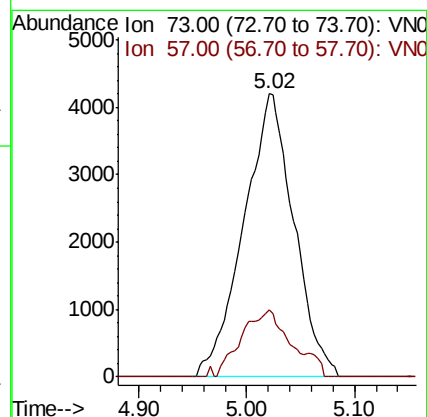
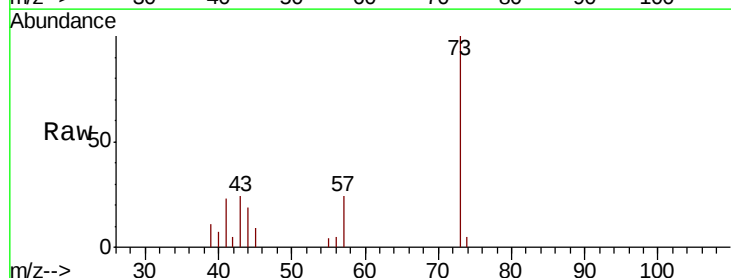
Acq: 13 Nov 2019 16:43

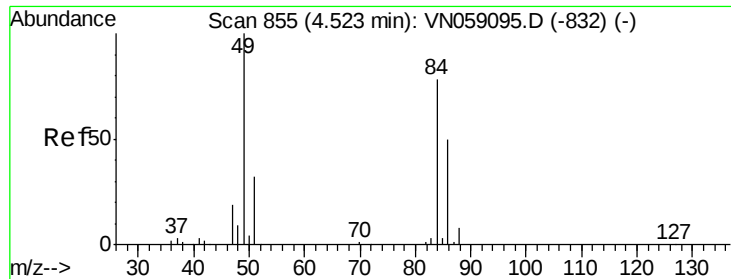
Tgt Ion: 73 Resp: 13560

Ion Ratio Lower Upper

73 100

57 23.5 18.4 27.6

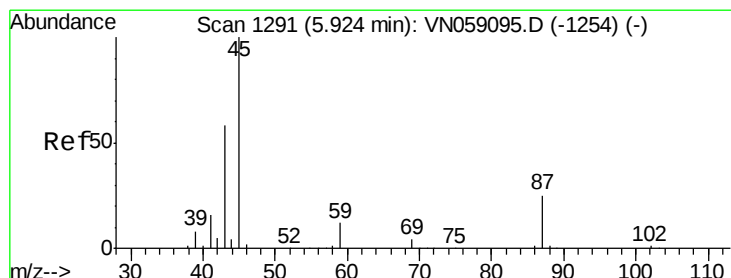
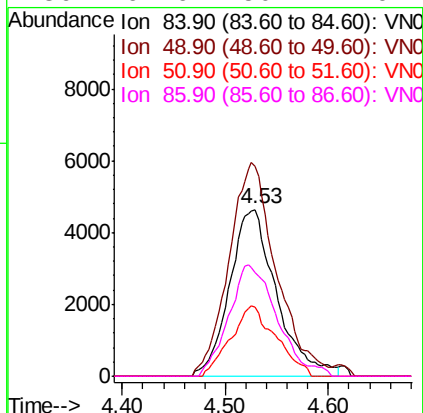
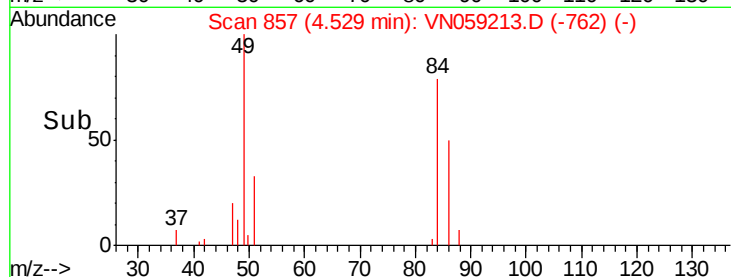
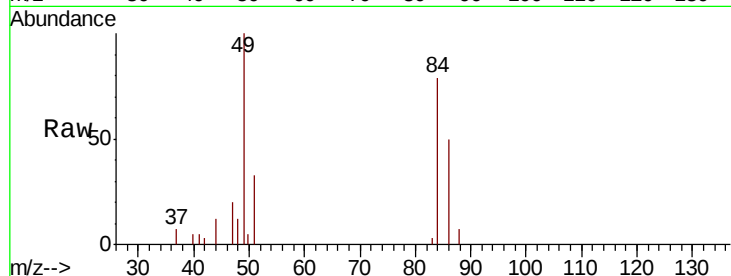




#20
Methvlene Chloride
Concen: 3.121 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059213.D
Acq: 13 Nov 2019 16:43

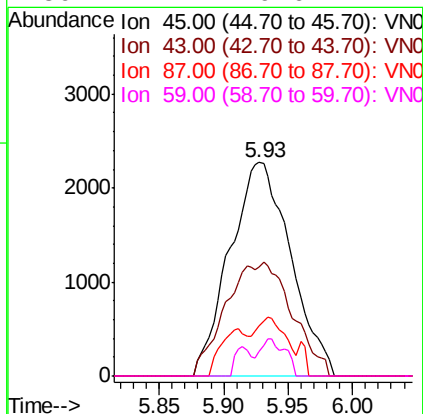
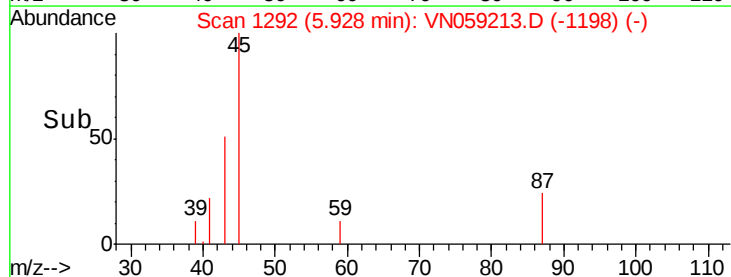
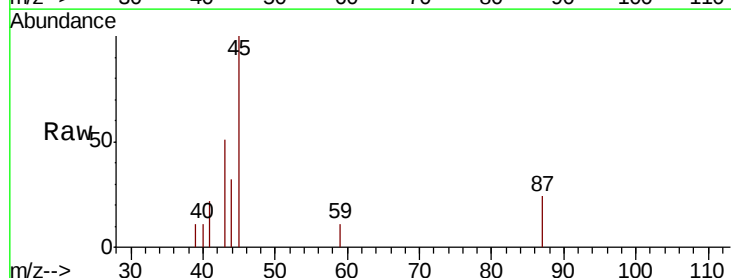
Instrument :
MSVOA_N
ClientSampleId :
30663

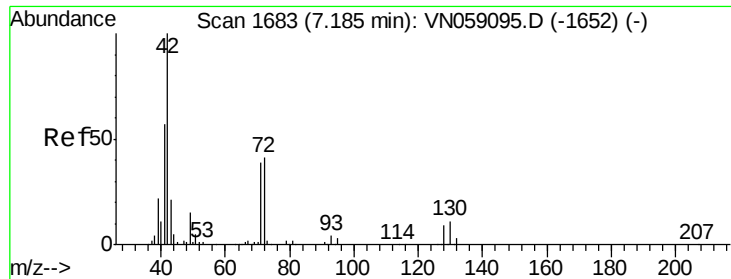
Tot Ion: 84 Resp: 14686
Ion Ratio Lower Upper
84 100
49 126.1 102.0 153.0
51 41.3 32.2 48.2
86 62.6 50.7 76.1



#22
Diisopropyl ether
Concen: 0.487 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. 0.00 min
Lab File: VN059213.D
Acq: 13 Nov 2019 16:43

Tgt Ion: 45 Resp: 7444
Ion Ratio Lower Upper
45 100
43 50.8 46.7 70.1
87 23.6 20.5 30.7
59 11.4 9.6 14.4





#29

Tetrahydrofuran

Concen: 1.719 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.02 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

Instrument :

MSVOA_N

ClientSampleId :

30663

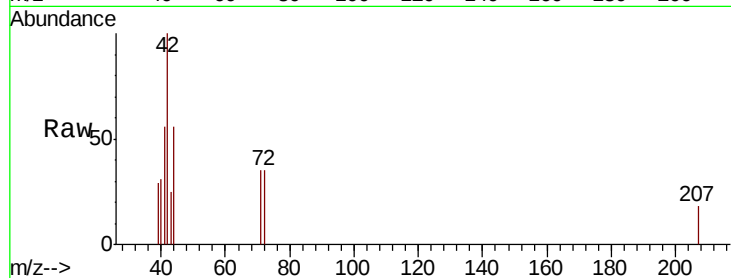
Tot Ion: 42 Resp: 3889

Ion Ratio Lower Upper

42 100

72 33.3 33.1 49.7

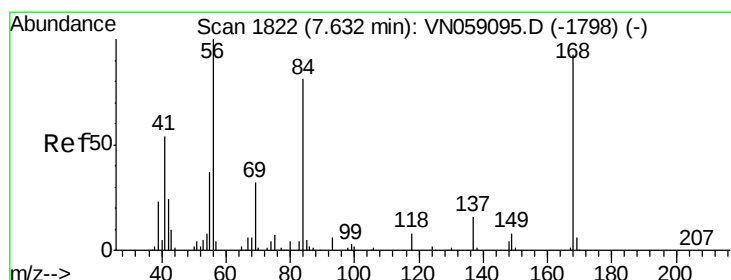
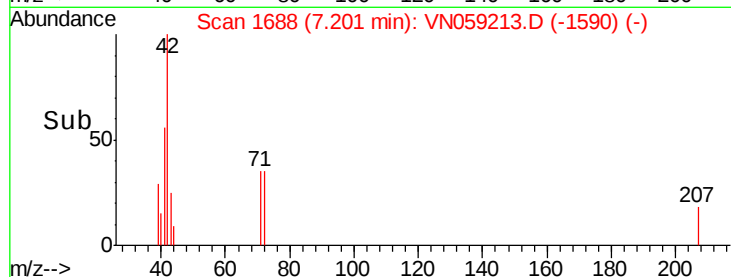
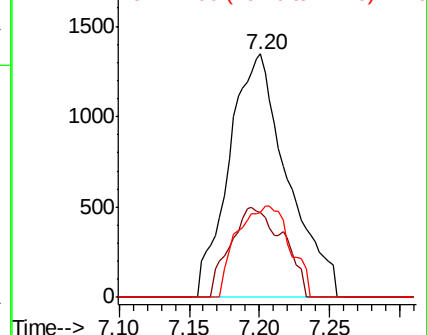
71 34.1 30.9 46.3



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.112 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

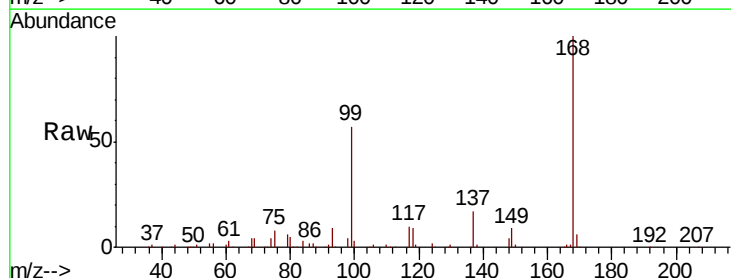
Tgt Ion: 56 Resp: 8996

Ion Ratio Lower Upper

56 100

69 168.7 25.8 38.8#

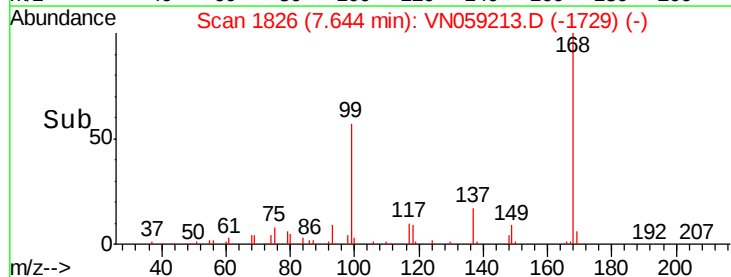
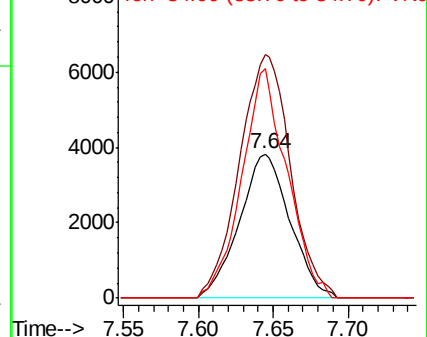
84 159.3 65.0 97.4#

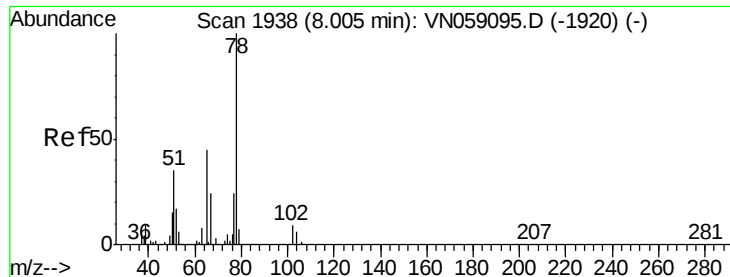


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

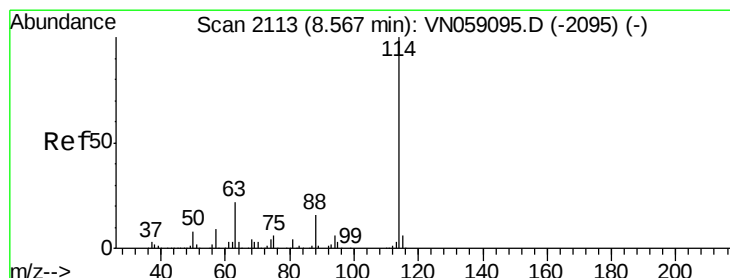
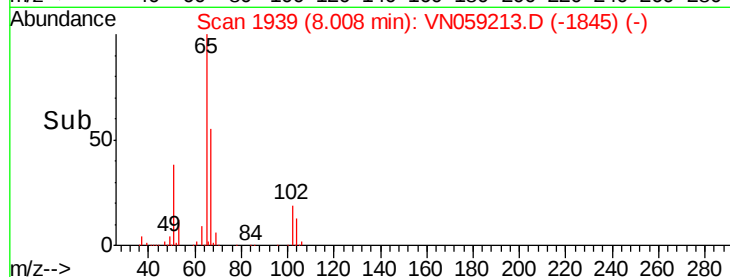
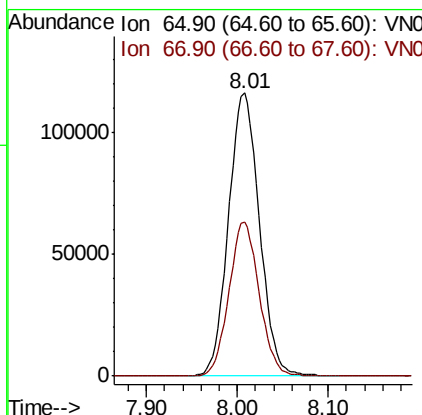
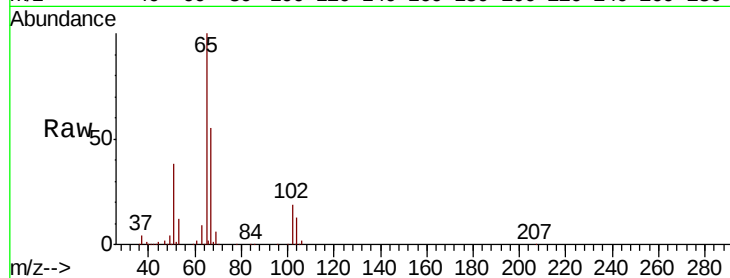




#33
 1,2-Dichloroethane-d4
 Concen: 52.888 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059213.D
 Acq: 13 Nov 2019 16:43

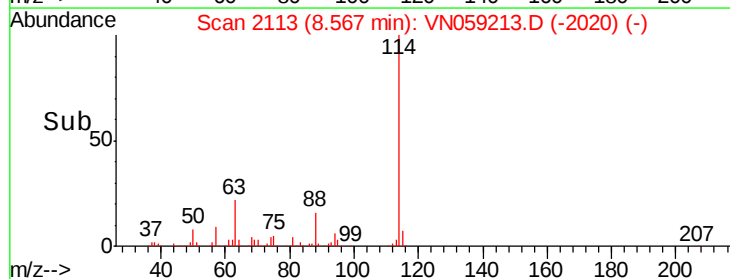
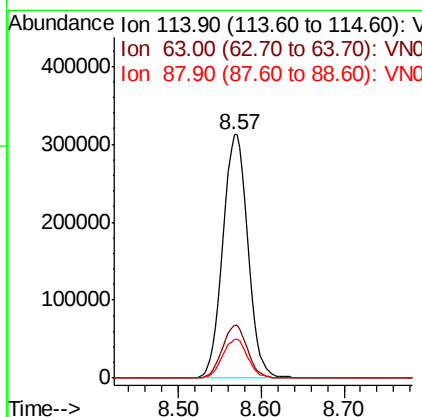
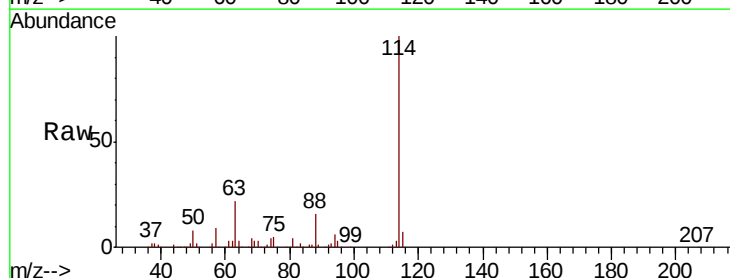
Instrument :
 MSVOA_N
 ClientSampleId :
 30663

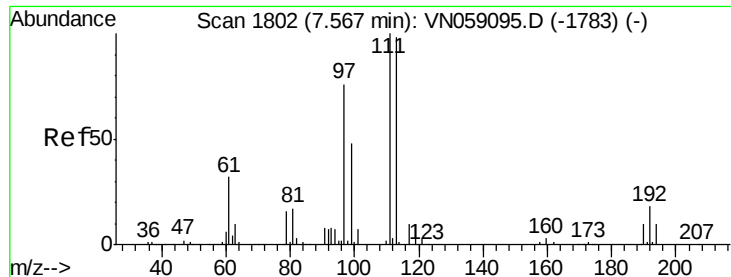
Tot Ion: 65 Resp: 274732
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059213.D
 Acq: 13 Nov 2019 16:43

Tgt Ion: 114 Resp: 656927
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.4
 88 15.9 0.0 32.2

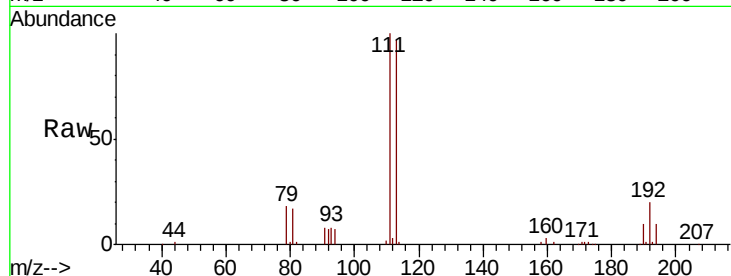




#35
 Dibromofluoromethane
 Concen: 53.887 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059213.D
 Acq: 13 Nov 2019 16:43

Instrument :
 MSVOA_N
 ClientSampled :
 30663

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.8	124.2
192	20.0	16.1	24.1

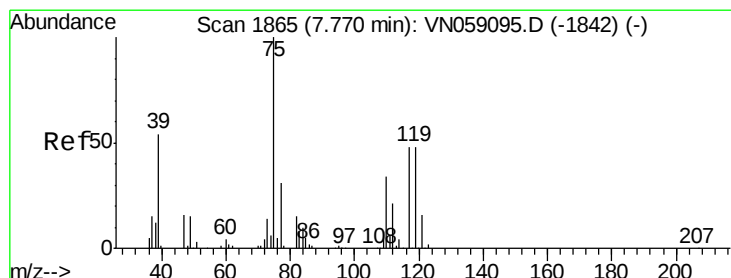
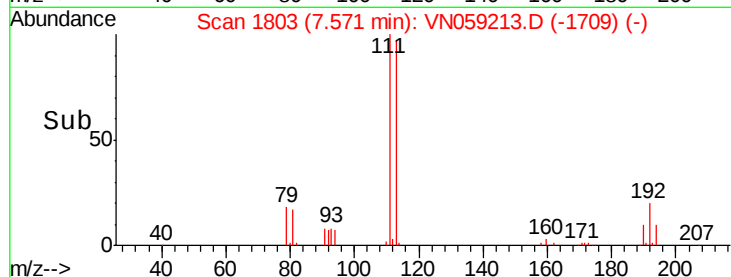
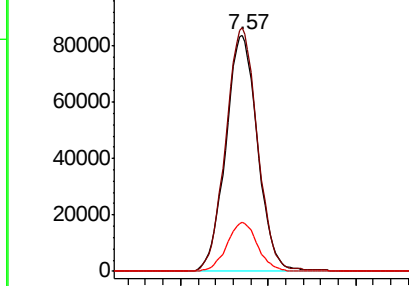


Abundance

Ion 112.80 (112.50 to 113.50): V

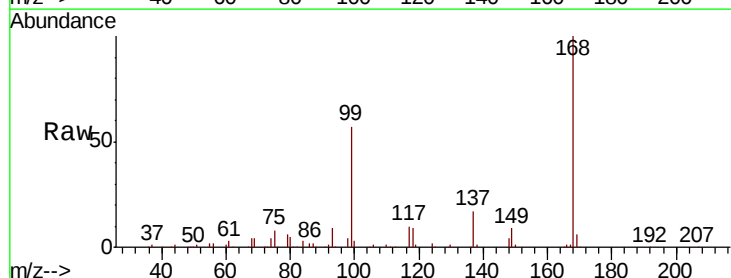
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.398 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059213.D
 Acq: 13 Nov 2019 16:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.1	51.2#
77	0.0	24.8	37.2#

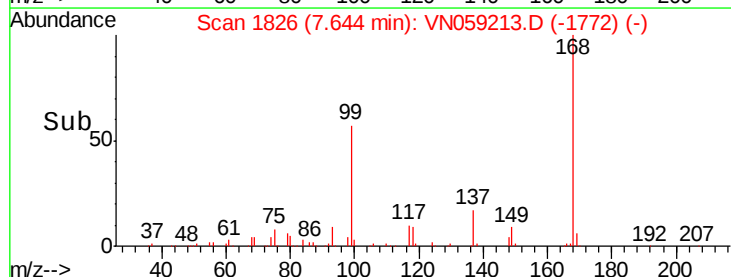
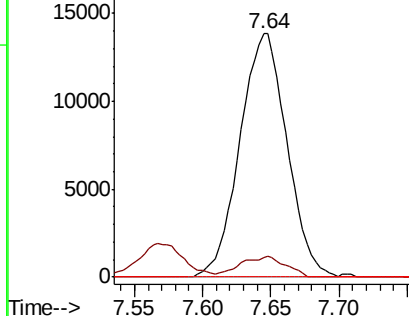


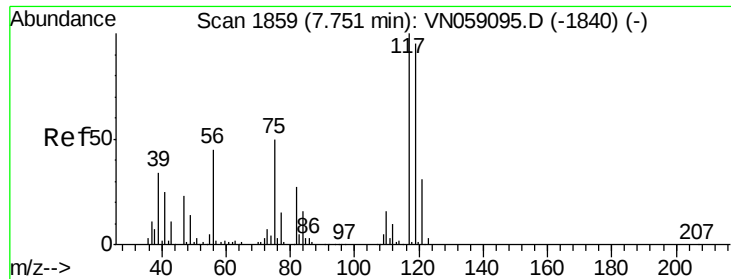
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.532 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.10 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

Instrument :

MSVOA_N

ClientSampleId :

30663

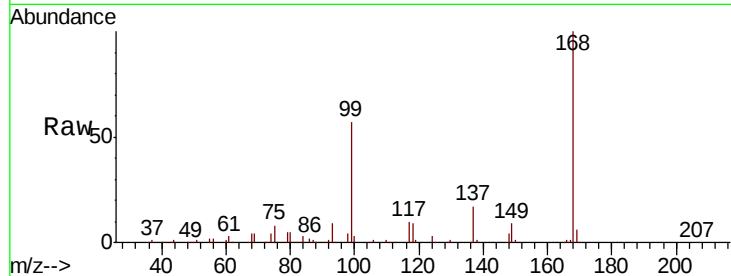
Tot Ion:117 Resp: 39921

Ion Ratio Lower Upper

117 100

119 6.1 75.6 113.4#

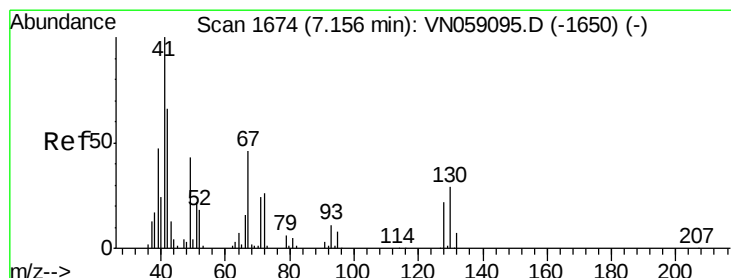
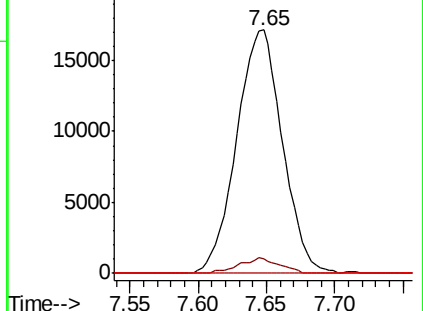
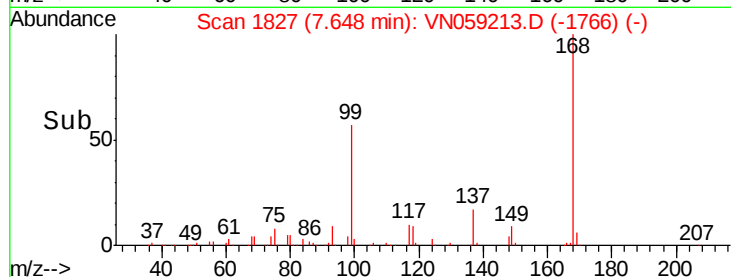
121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 0.843 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.04 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

Tgt Ion: 41 Resp: 2503

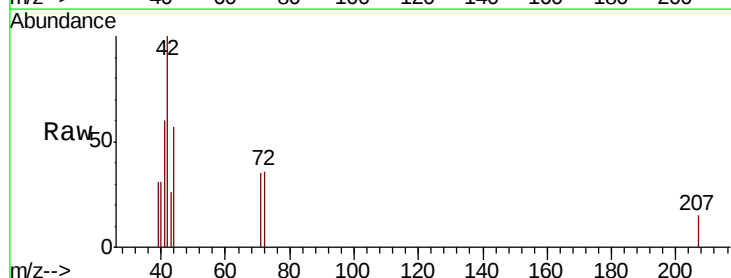
Ion Ratio Lower Upper

41 100

39 40.0 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

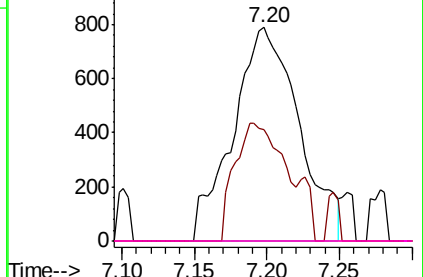
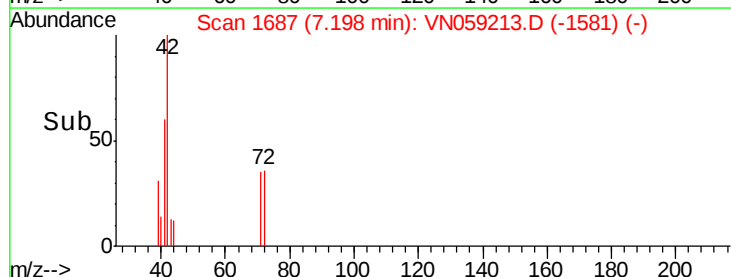


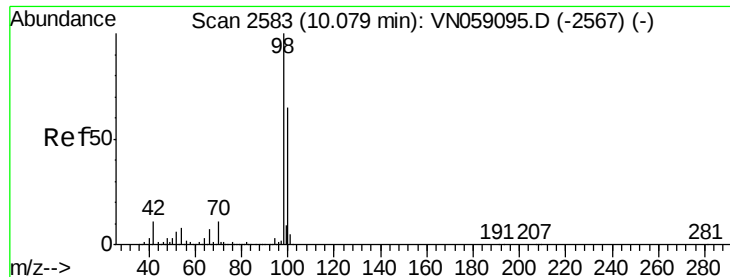
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#50

Toluene-d8

Concen: 52.570 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

Instrument :

MSVOA_N

ClientSampleId :

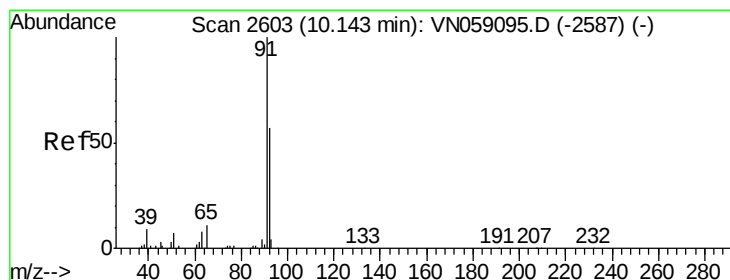
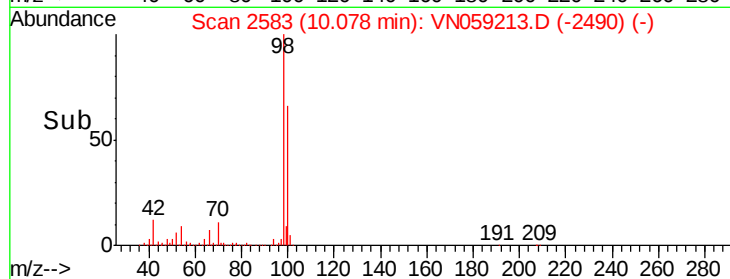
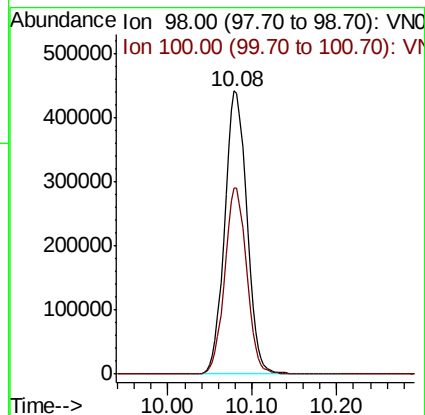
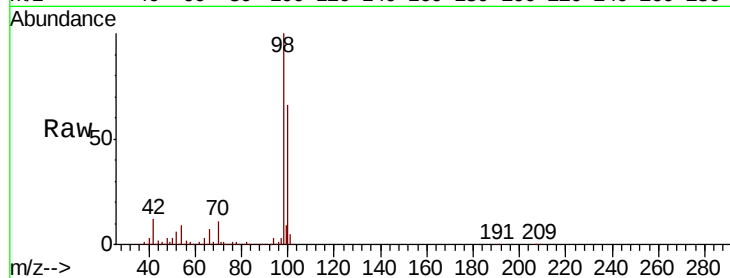
30663

Tot Ion: 98 Resp: 812232

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2



#52

Toluene

Concen: 0.723 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059213.D

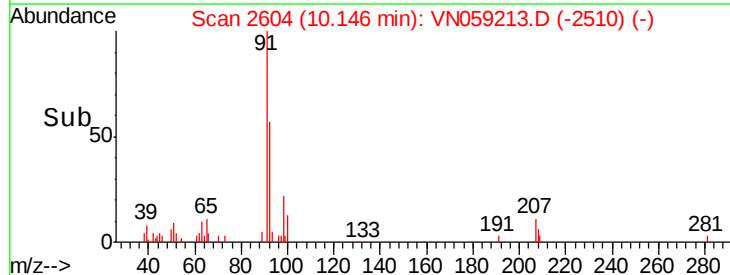
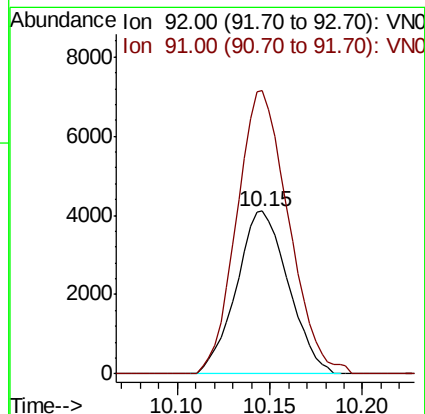
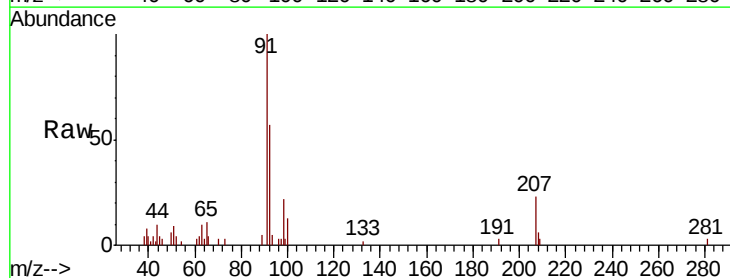
Acq: 13 Nov 2019 16:43

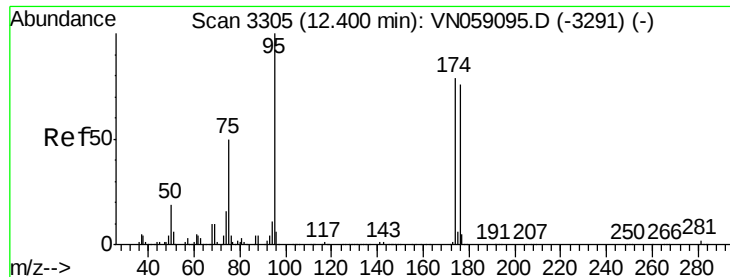
Tgt Ion: 92 Resp: 8012

Ion Ratio Lower Upper

92 100

91 173.3 139.5 209.3





#62

4-Bromofluorobenzene

Concen: 46.043 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

Instrument :

MSVOA_N

ClientSampled :

30663

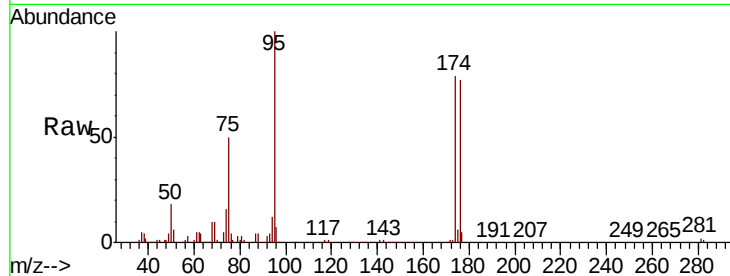
Tot Ion: 95 Resp: 256498

Ion Ratio Lower Upper

95 100

174 78.9 0.0 158.2

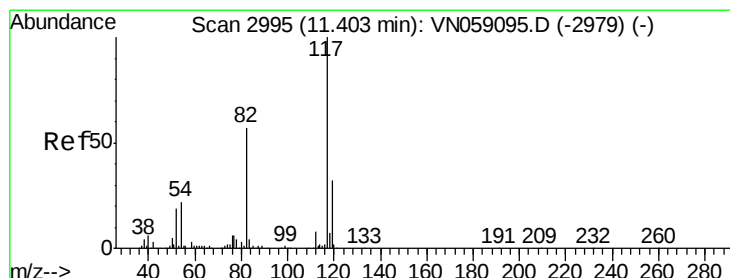
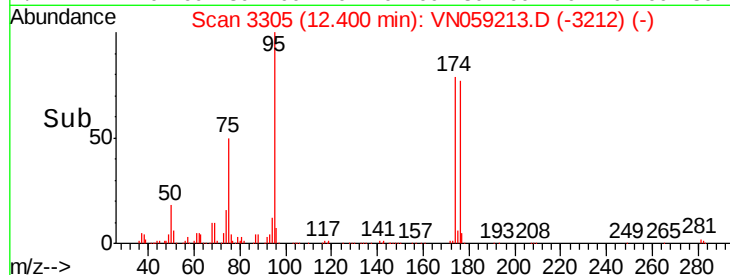
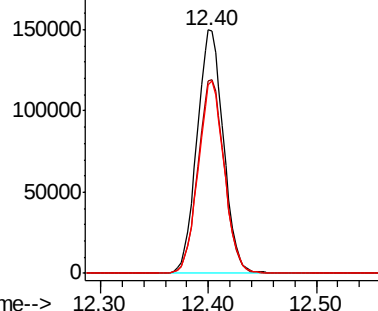
176 77.6 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN059213.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN059213.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN059213.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

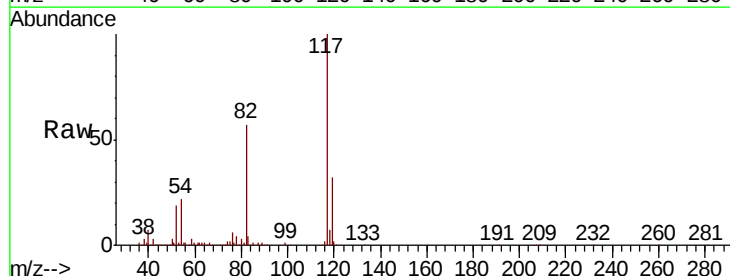
Tgt Ion: 117 Resp: 569499

Ion Ratio Lower Upper

117 100

82 56.9 45.8 68.8

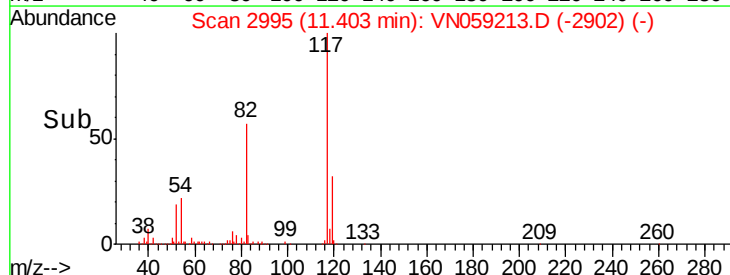
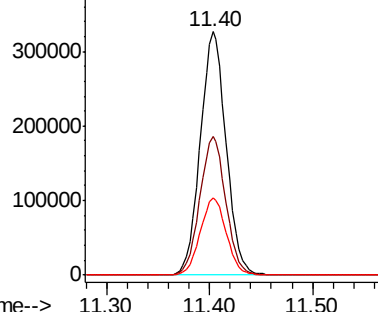
119 31.7 25.8 38.6

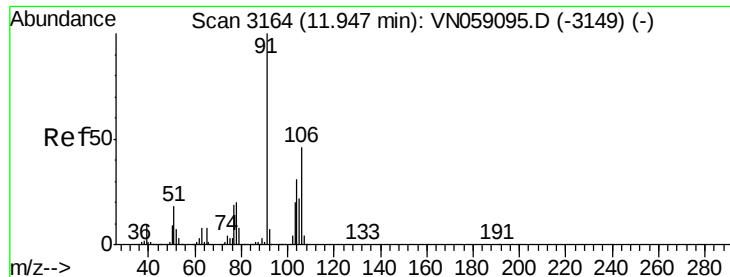


Abundance Ion 116.90 (116.60 to 117.60): VN059213.D (-2902) (-)

Ion 82.00 (81.70 to 82.70): VN059213.D (-2902) (-)

Ion 118.90 (118.60 to 119.60): VN059213.D (-2902) (-)

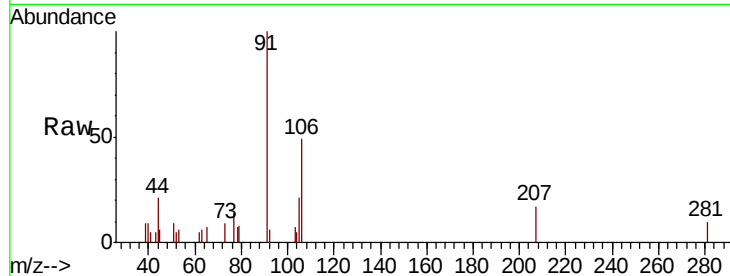




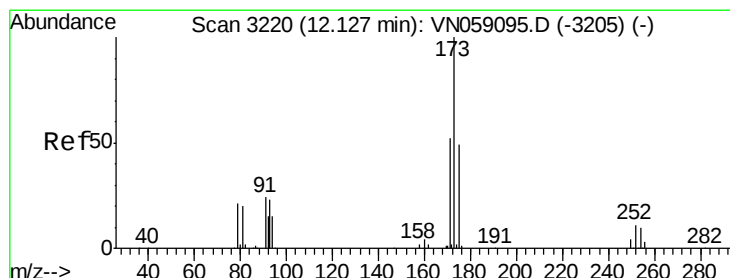
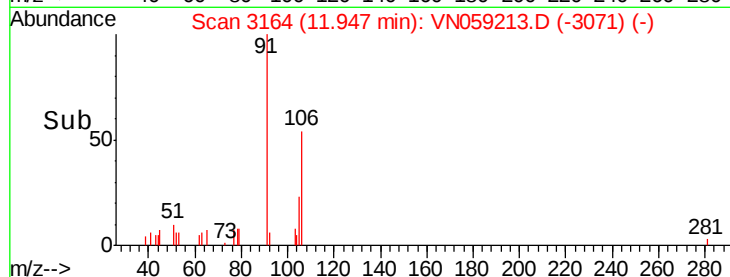
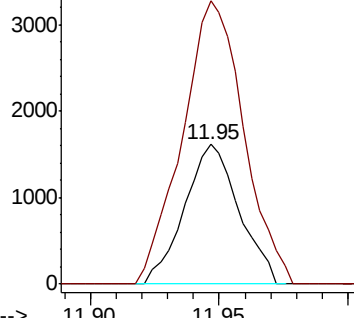
#69
o-Xylene
Concen: 0.334 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059213.D
Acq: 13 Nov 2019 16:43

Instrument :
MSVOA_N
ClientSampleId :
30663

Tot Ion:106 Resp: 2381
Ion Ratio Lower Upper
106 100
91 228.5 110.1 330.3

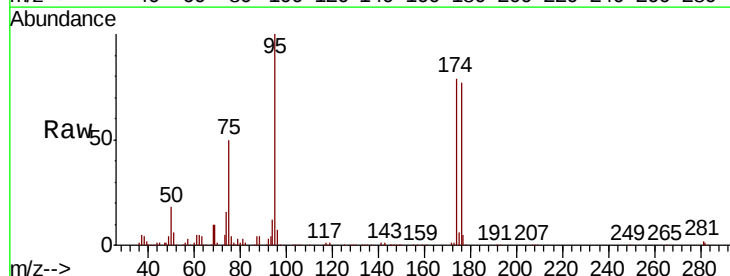


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

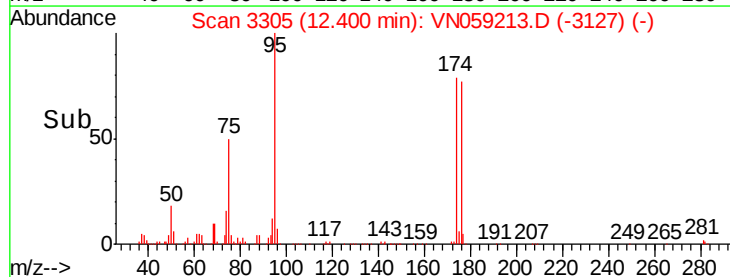
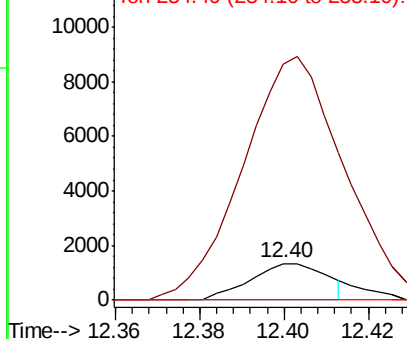


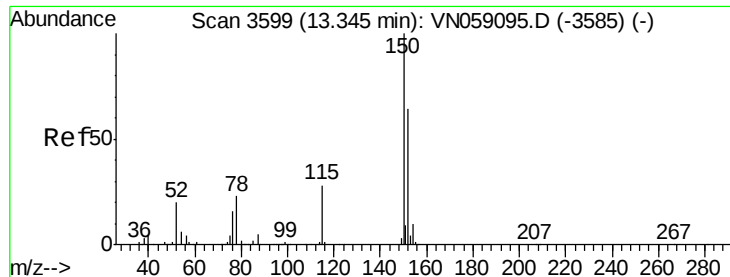
#71
Bromoform
Concen: 0.516 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN059213.D
Acq: 13 Nov 2019 16:43

Tgt Ion:173 Resp: 1673
Ion Ratio Lower Upper
173 100
175 756.5 24.2 72.6#
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: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

Instrument :

MSVOA_N

ClientSampleId :

30663

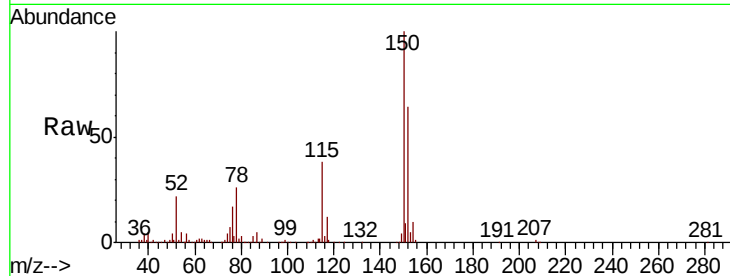
Tot Ion:152 Resp: 209809

Ion Ratio Lower Upper

152 100

115 60.0 29.4 88.2

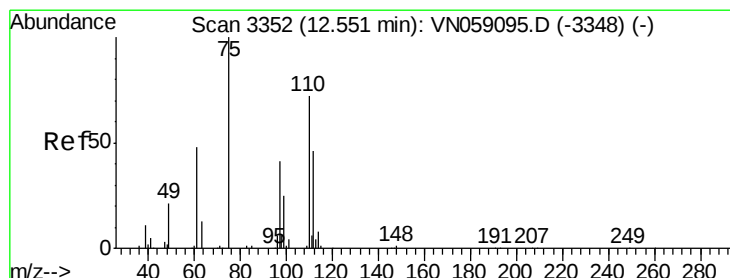
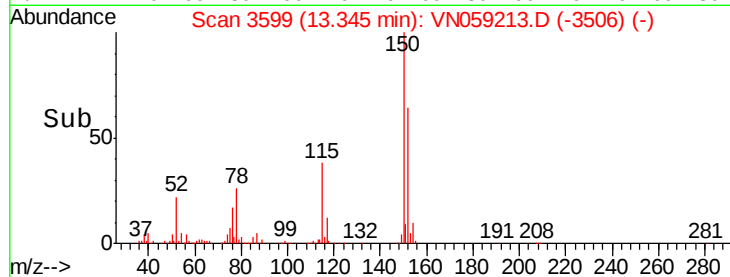
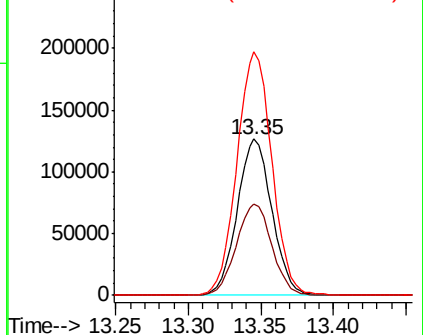
150 157.6 0.0 345.8



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: 26.927 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059213.D

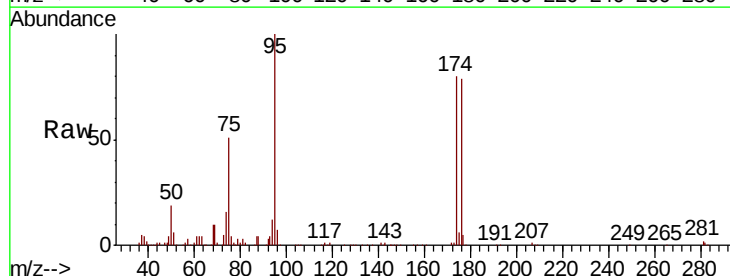
Acq: 13 Nov 2019 16:43

Tgt Ion: 75 Resp: 128622

Ion Ratio Lower Upper

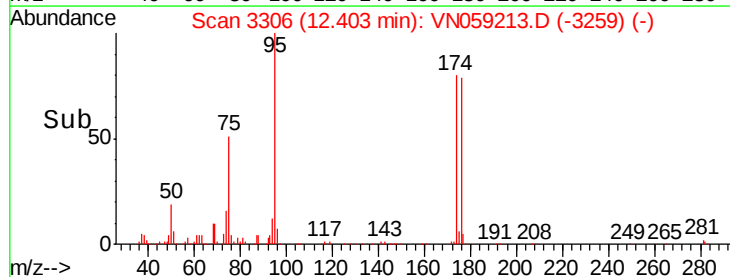
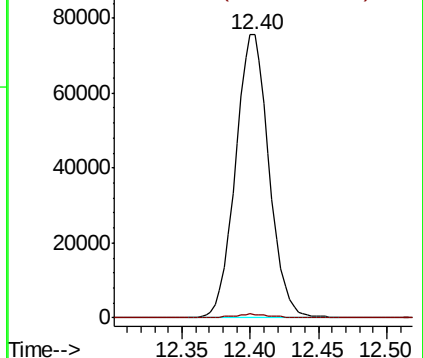
75 100

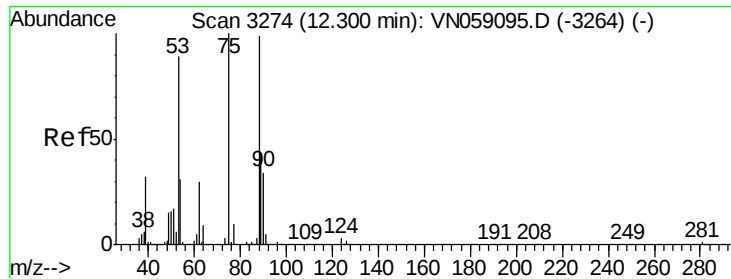
77 1.5 0.0 0.0#



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: 71.122 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

Instrument :

MSVOA_N

ClientSampleId :

30663

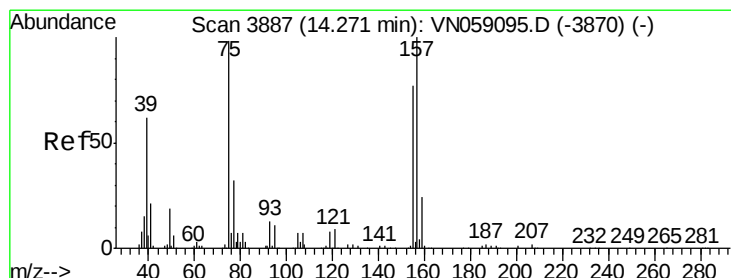
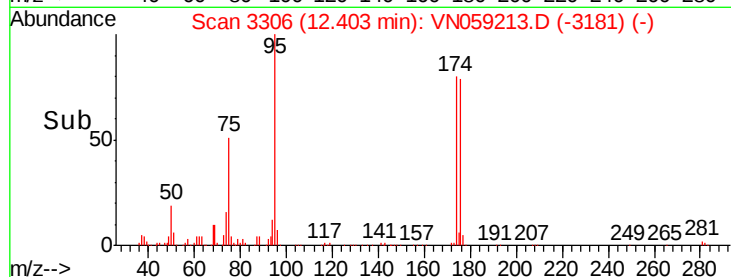
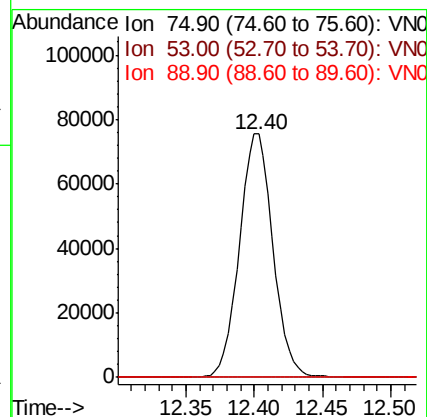
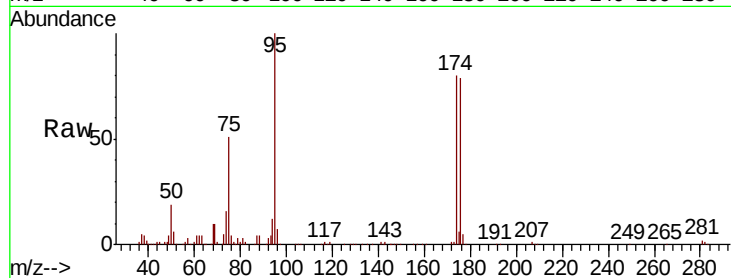
Tot Ion: 75 Resp: 128622

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

89 0.0 35.8 53.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.241 ug/l

RT: 14.26 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VN059213.D

Acq: 13 Nov 2019 16:43

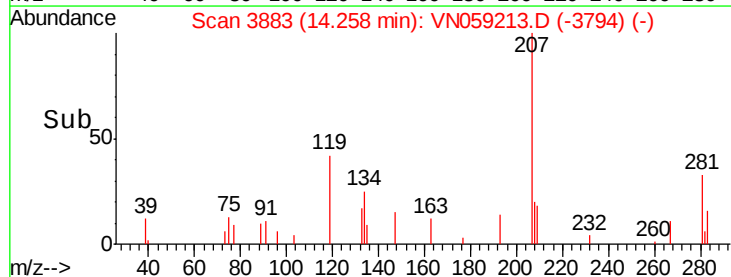
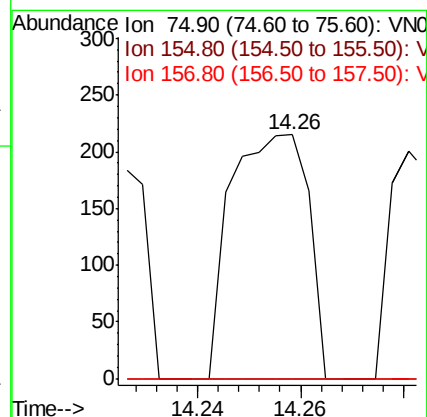
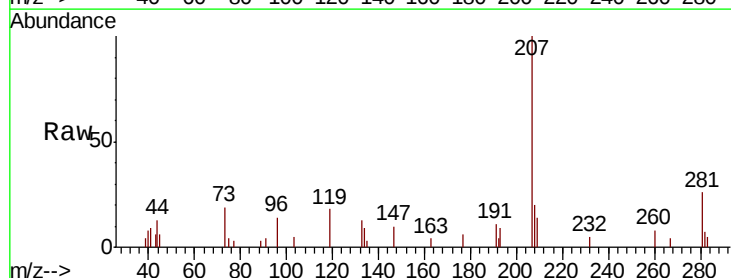
Tgt Ion: 75 Resp: 223

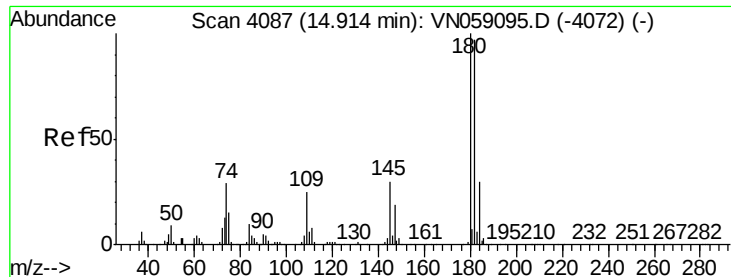
Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

157 0.0 51.8 155.5#

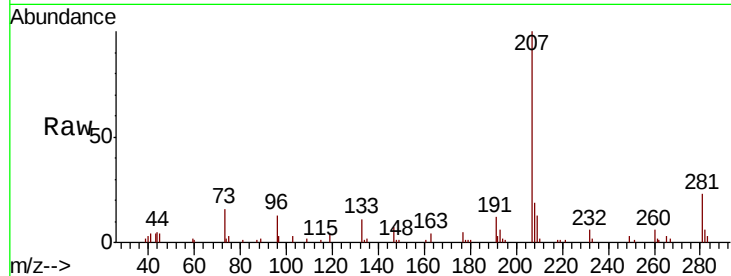




#93
 1,2,4-Trichlorobenzene
 Concen: 3.071 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059213.D
 Acq: 13 Nov 2019 16:43

Instrument :
 MSVOA_N
 ClientSampled :
 30663

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.3#
145	62.5	15.1	45.3#

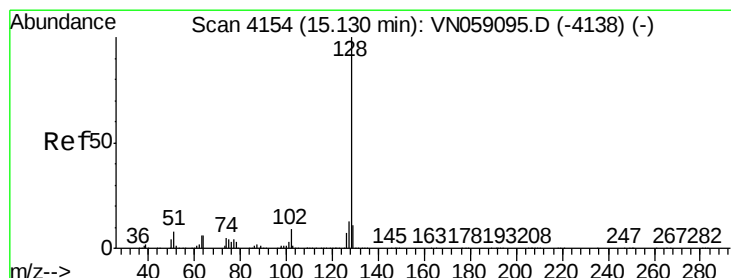
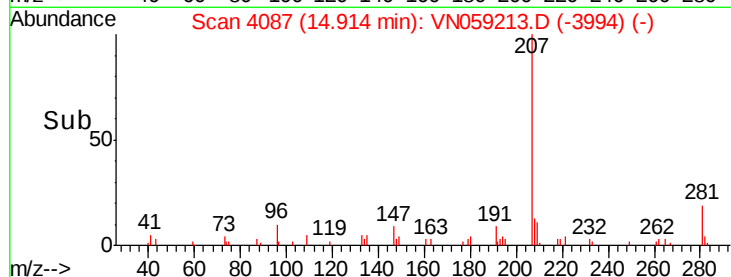
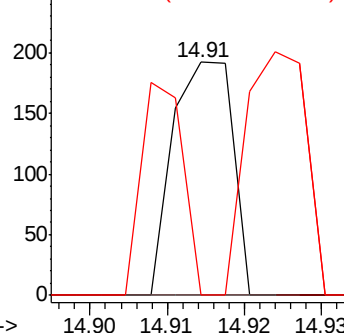


Abundance

Ion 179.80 (179.50 to 180.50): V

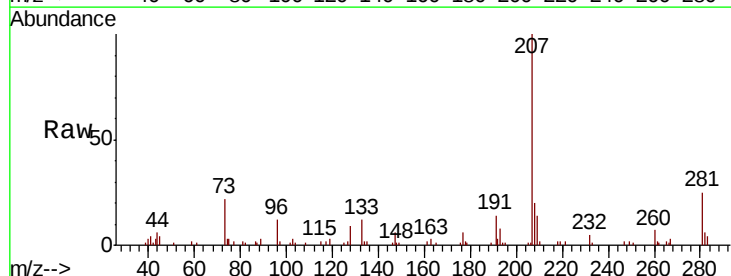
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.254 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN059213.D
 Acq: 13 Nov 2019 16:43

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	2.8	8.6	12.8#



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

