

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020819\
 Data File : VN053683.D
 Acq On : 8 Feb 2019 15:58
 Operator : JC/SP
 Sample : K1348-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 09 02:36:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	843582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1373686	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1242407	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	510769	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	438394	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
35) Dibromofluoromethane	7.59	113	433711	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
50) Toluene-d8	10.09	98	1660830	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	12.40	95	549890	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	

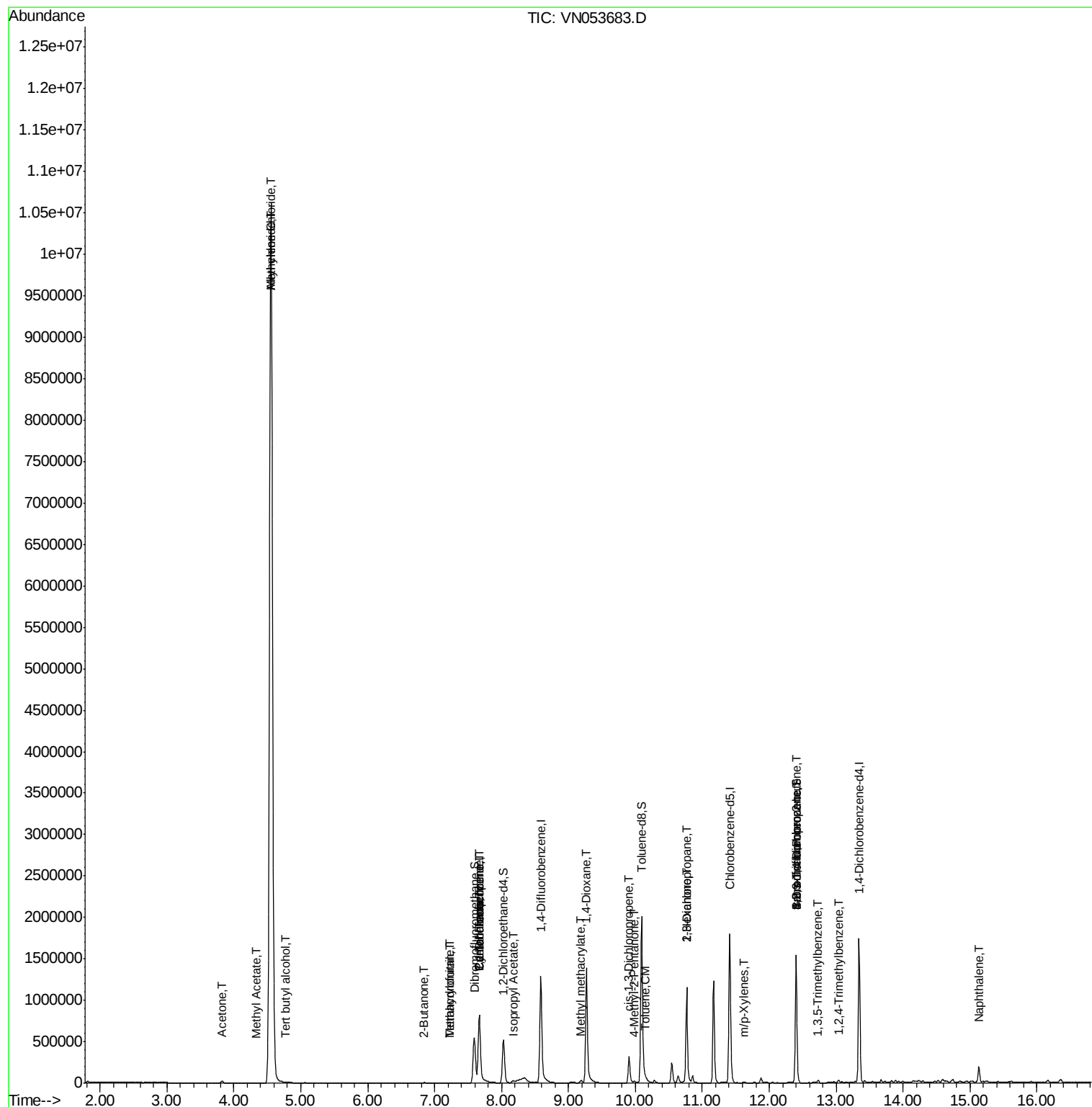
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	239	0.477	ug/l #	72
14) Allyl chloride	4.55	41	306889	24.673	ug/l #	28
16) Acetone	3.82	43	37456	17.255	ug/l	98
18) Methyl Acetate	4.34	43	3634	0.565	ug/l #	69
20) Methylene Chloride	4.55	84	8549704	938.801	ug/l	99
25) 2-Butanone	6.84	43	9552	3.085	ug/l	98
29) Tetrahydrofuran	7.21	42	3008	1.513	ug/l #	86
31) Cyclohexane	7.66	56	12929	0.736	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	50404	4.070	ug/l #	48
38) Carbon Tetrachloride	7.67	117	64620	5.180	ug/l #	16
41) Methacrylonitrile	7.22	41	1566	0.405	ug/l #	24
43) Isopropyl Acetate	8.17	43	35865	2.685	ug/l #	75
48) Methyl methacrylate	9.18	41	10949	1.717	ug/l #	12
49) 1,4-Dioxane	9.27	88	31	39.421	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	10039	1.530	ug/l	96
52) Toluene	10.16	92	6364	0.281	ug/l	99
54) cis-1,3-Dichloropropene	9.91	75	71574	4.927	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	13806	0.989	ug/l #	43
59) 2-Hexanone	10.77	43	172781	38.779	ug/l #	51
68) m/p-Xylenes	11.62	106	3579	0.216	ug/l	99
71) Bromoform	12.40	173	3441	0.545	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	252714	38.520	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8452	0.284	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	252714	108.316	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	19547	0.644	ug/l	94
95) Naphthalene	15.13	128	156914	8.487	ug/l	99

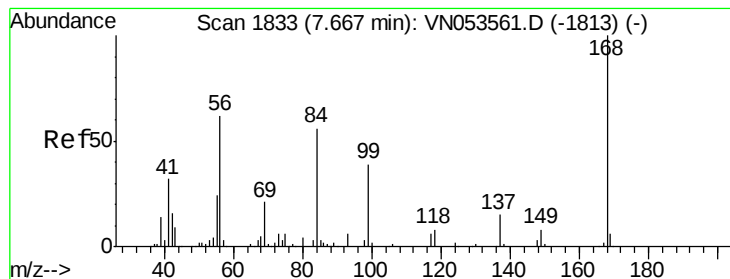
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

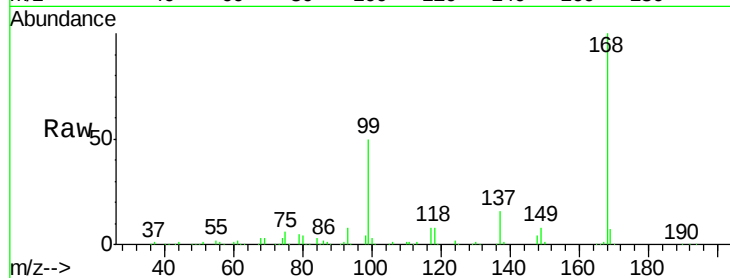
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 843582

Ion Ratio Lower Upper

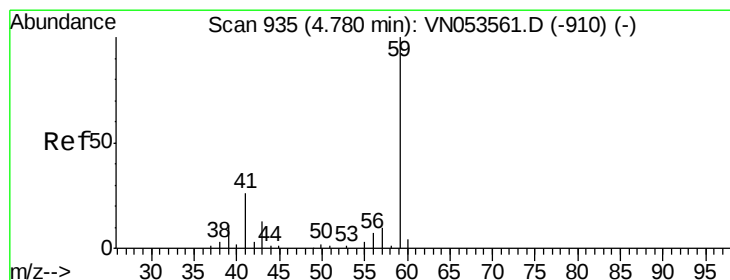
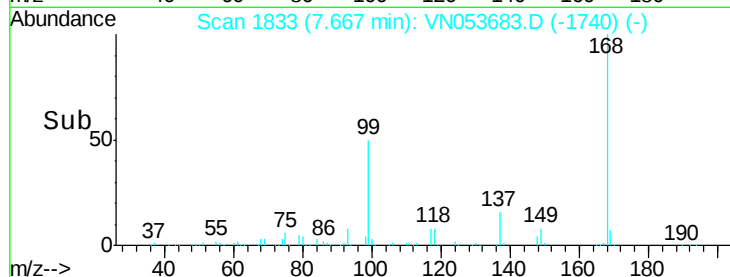
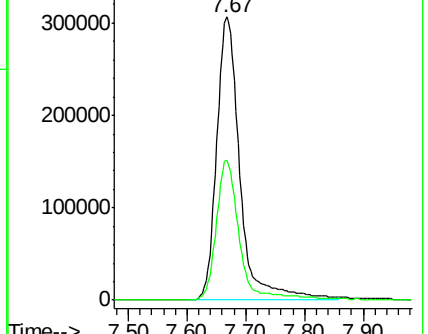
168 100

99 49.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.477 ug/l

RT: 4.78 min Scan# 935

Delta R.T. 0.00 min

Lab File: VN053683.D

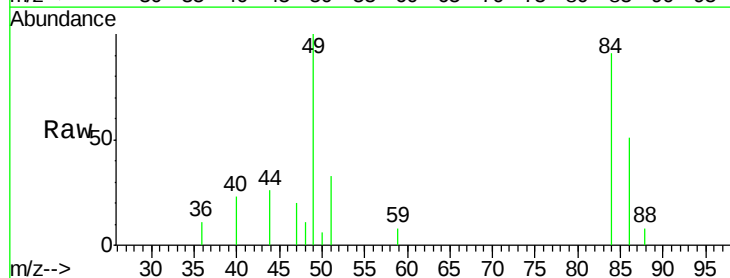
Acq: 8 Feb 2019 15:58

Tgt Ion: 59 Resp: 239

Ion Ratio Lower Upper

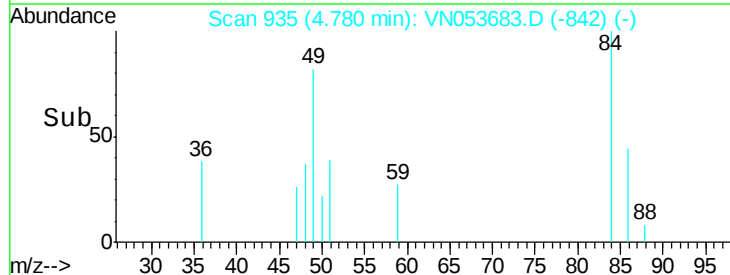
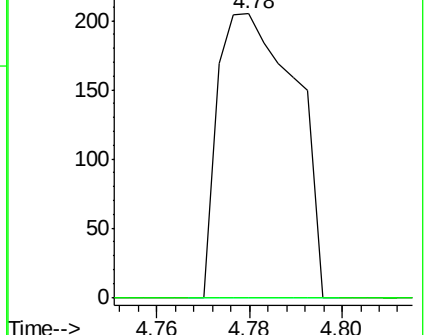
59 100

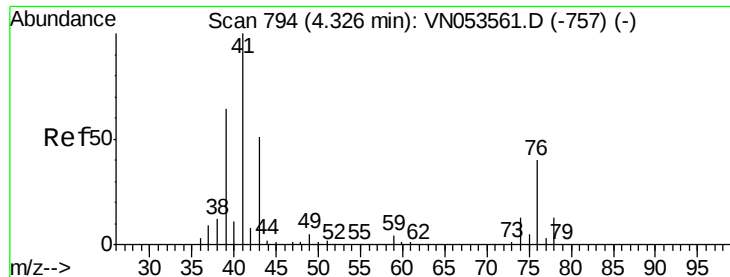
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

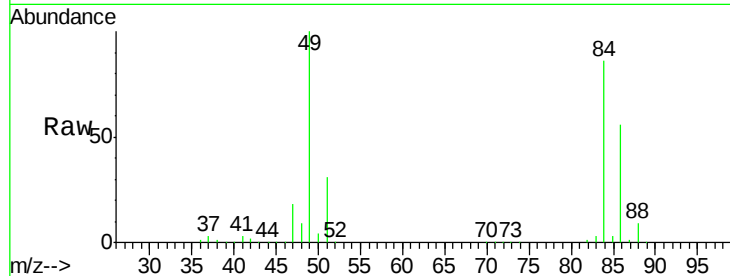




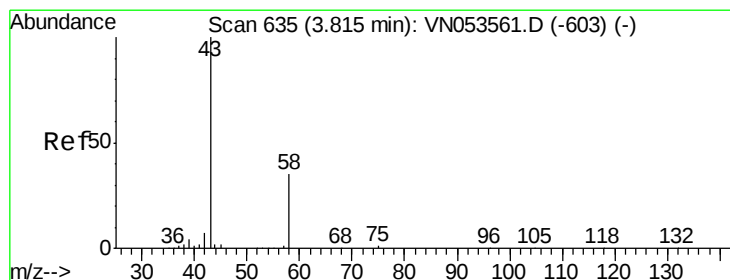
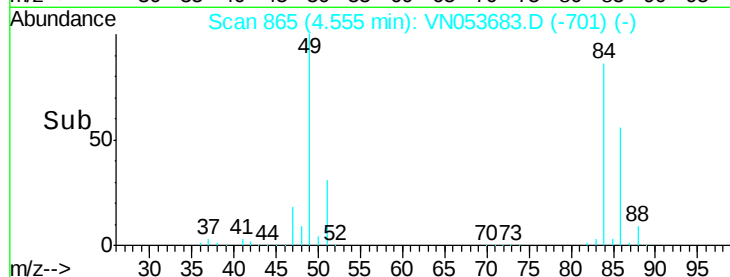
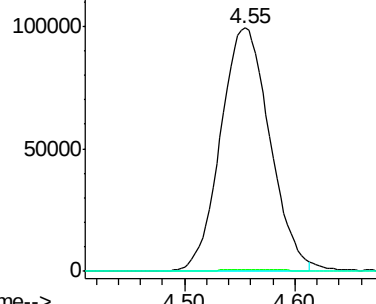
#14
Allvl chloride
Concen: 24.673 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.23 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 306889
Ion Ratio Lower Upper
41 100
39 0.9 48.9 73.3#
76 0.0 29.4 44.2#

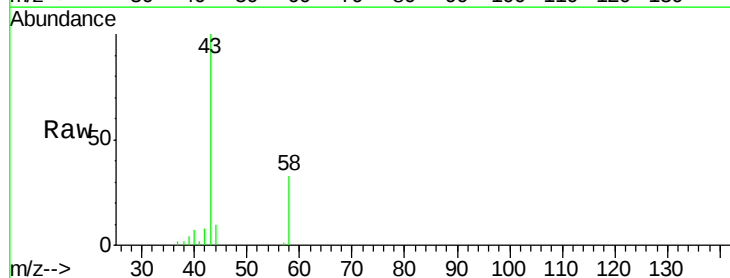


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 75.90 (75.60 to 76.60): VNC

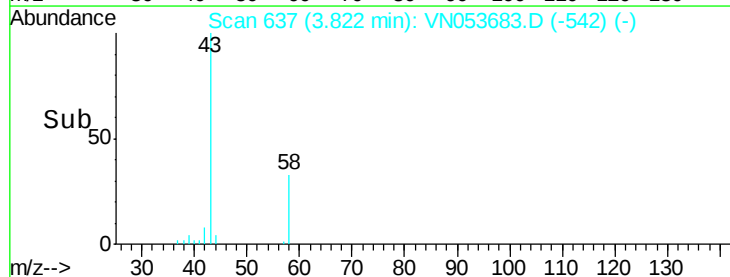
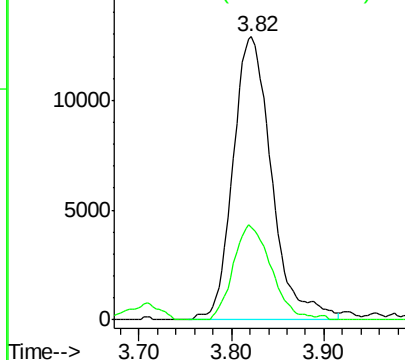


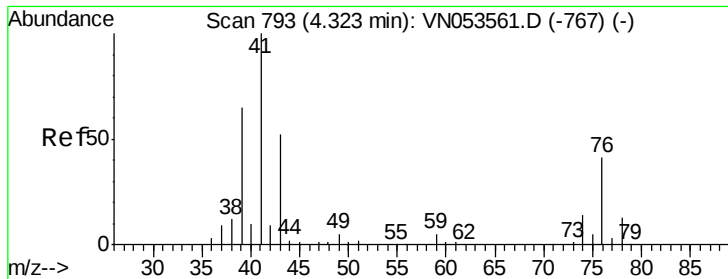
#16
Acetone
Concen: 17.255 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.01 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

Tgt Ion: 43 Resp: 37456
Ion Ratio Lower Upper
43 100
58 32.9 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#18

Methyl Acetate

Concen: 0.565 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Instrument :

MSVOA_N

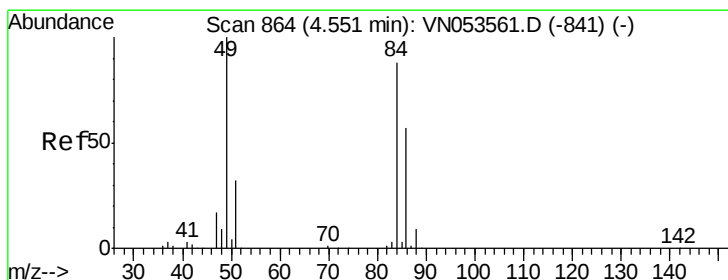
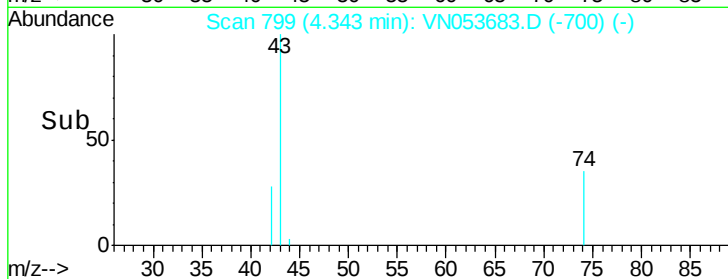
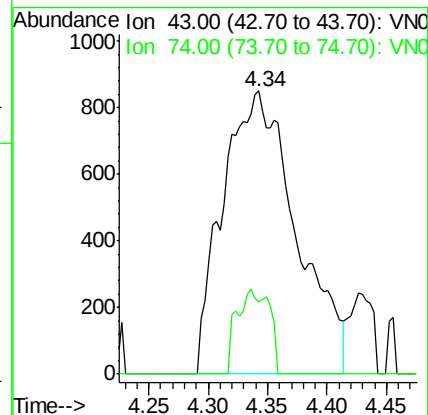
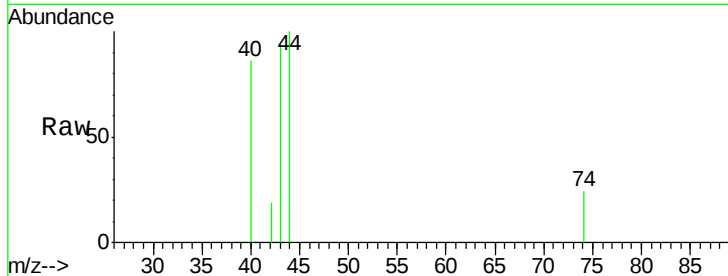
ClientSampled :

Tot Ion: 43 Resp: 3634

Ion Ratio Lower Upper

43 100

74 8.9 19.4 29.2#



#20

Methylene Chloride

Concen: 938.801 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Tgt Ion: 84 Resp: 8549704

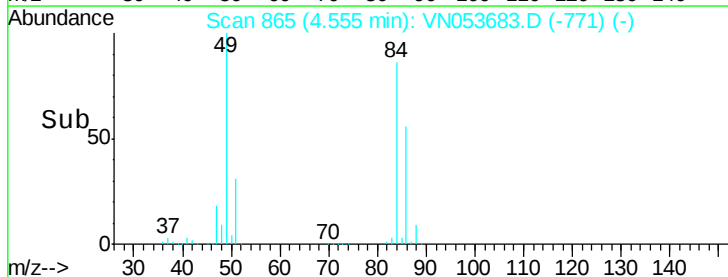
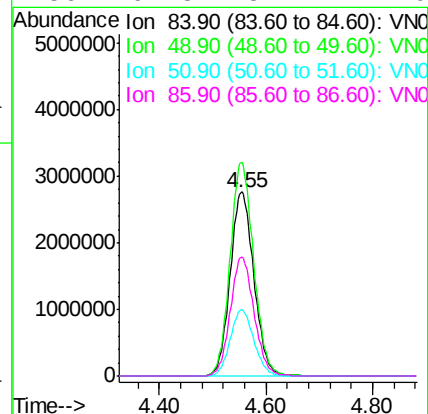
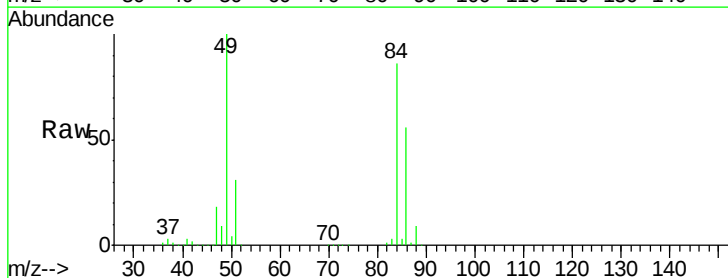
Ion Ratio Lower Upper

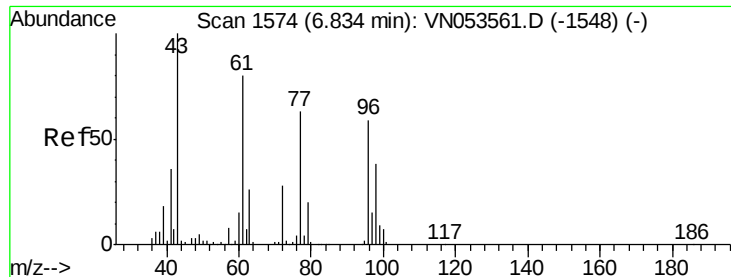
84 100

49 116.0 94.3 141.5

51 36.1 29.4 44.2

86 64.8 51.4 77.0

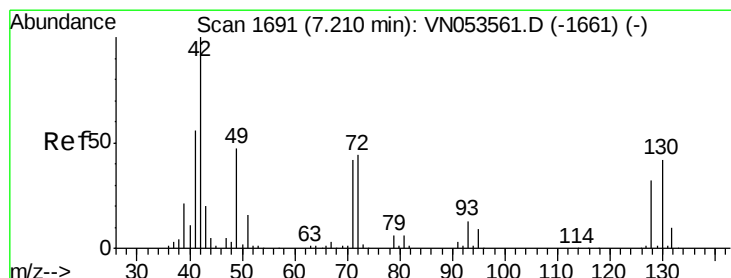
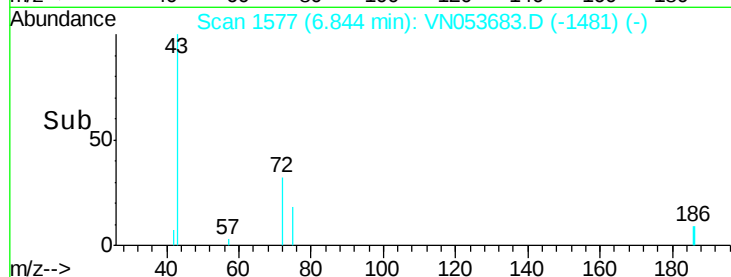
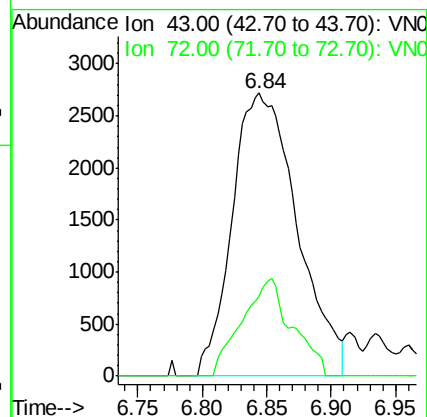
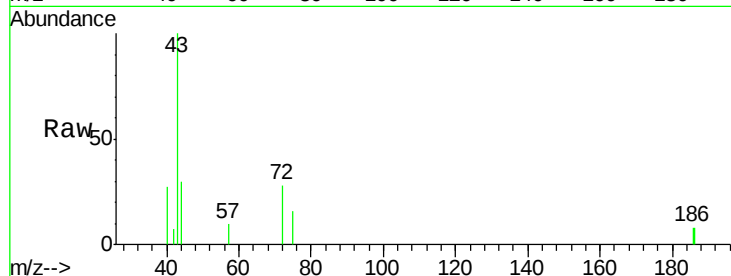




#25
2-Butanone
Concen: 3.085 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

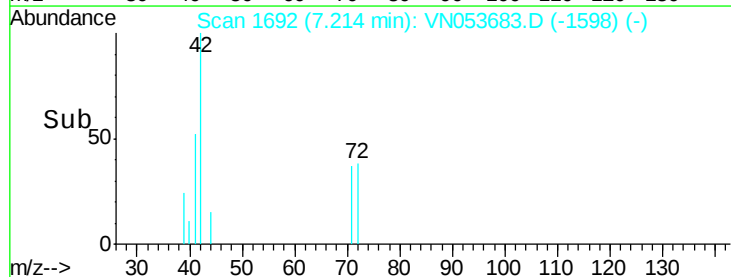
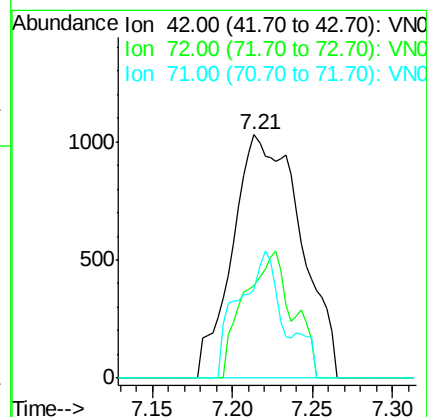
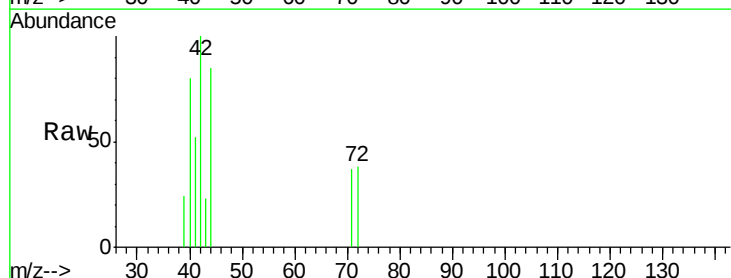
Instrument :
MSVOA_N
ClientSampled :

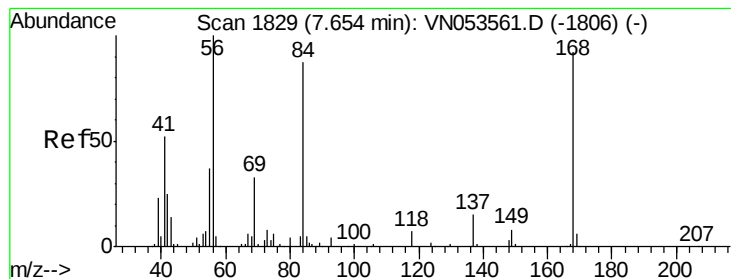
Tot Ion: 43 Resp: 9552
Ion Ratio Lower Upper
43 100
72 28.4 22.0 33.0



#29
Tetrahydrofuran
Concen: 1.513 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

Tgt Ion: 42 Resp: 3008
Ion Ratio Lower Upper
42 100
72 36.9 35.2 52.8
71 30.5 33.0 49.4#





#31

Cyclohexane

Concen: 0.736 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :

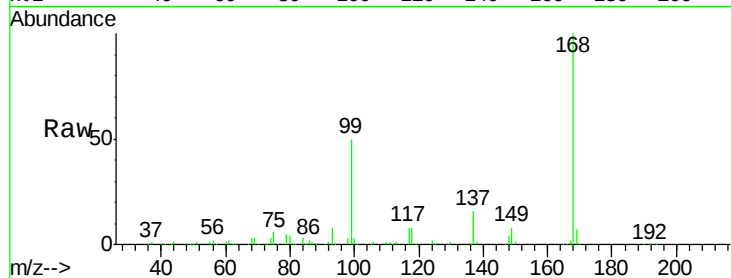
Tot Ion: 56 Resp: 12929

Ion Ratio Lower Upper

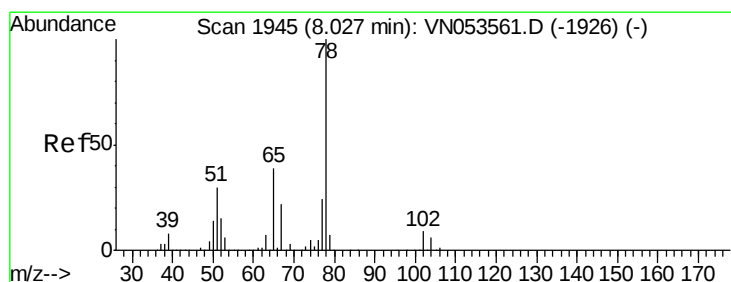
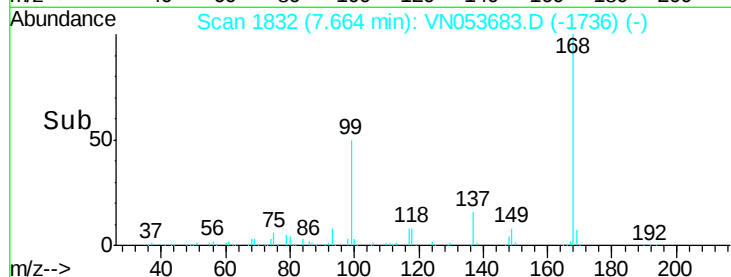
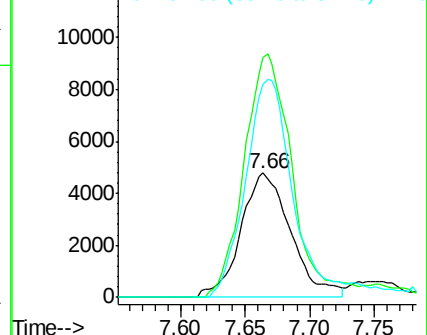
56 100

69 193.5 26.4 39.6#

84 171.3 67.9 101.9#



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: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053683.D

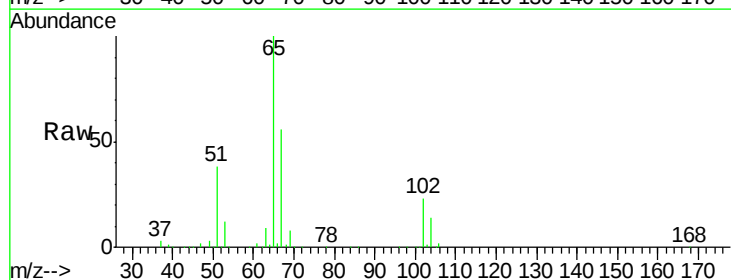
Acq: 8 Feb 2019 15:58

Tgt Ion: 65 Resp: 438394

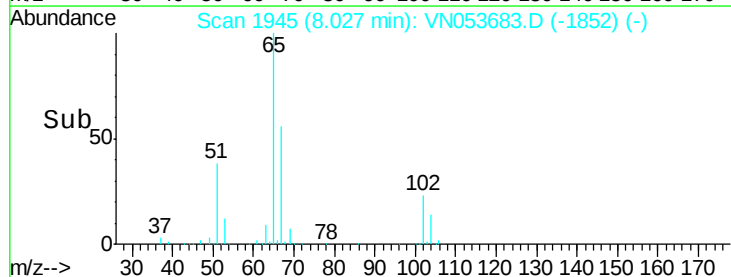
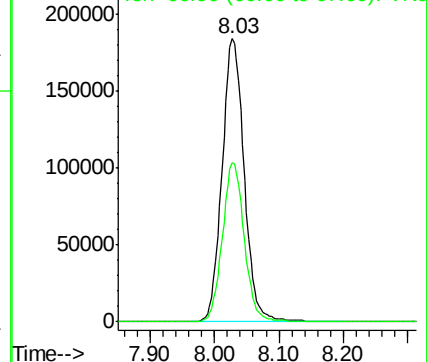
Ion Ratio Lower Upper

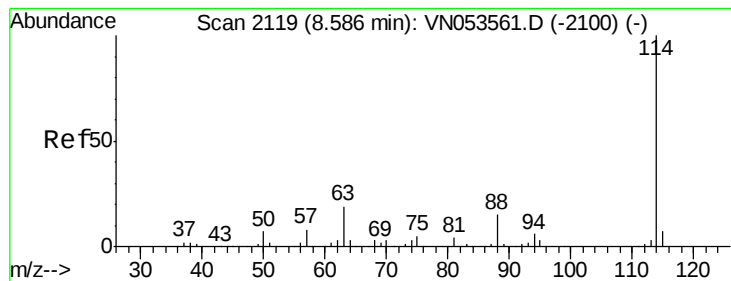
65 100

67 55.5 0.0 111.2



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: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

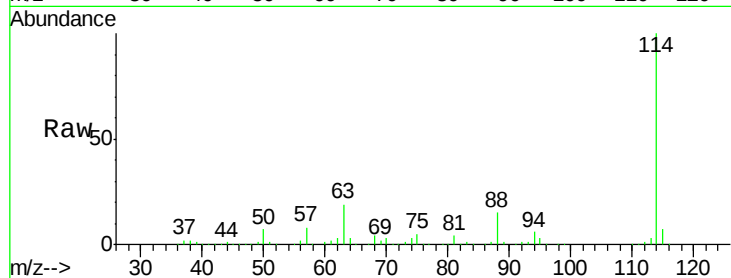
Tot Ion:114 Resp: 1373686

Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.6

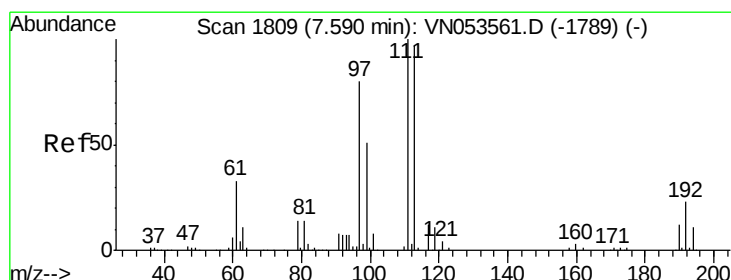
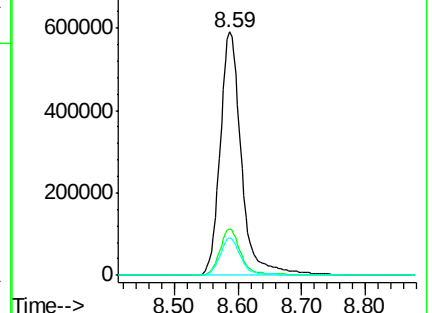
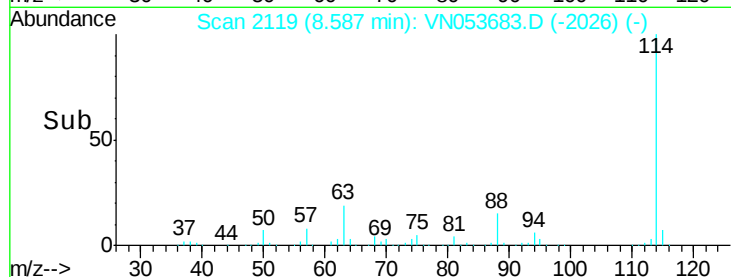
88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

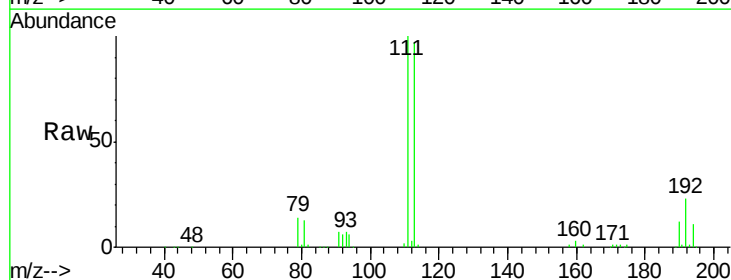
Tgt Ion:113 Resp: 433711

Ion Ratio Lower Upper

113 100

111 101.8 81.1 121.7

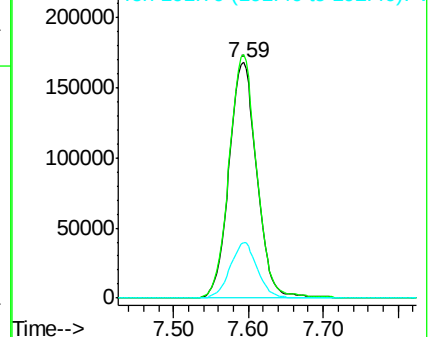
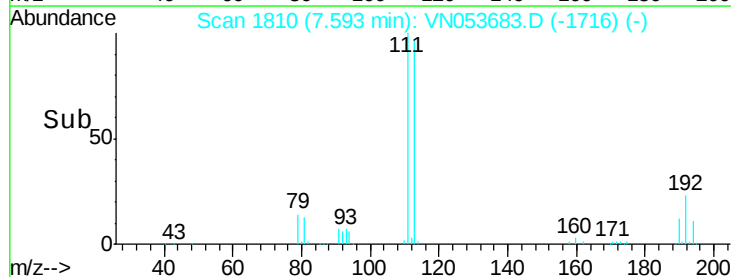
192 22.8 18.2 27.2

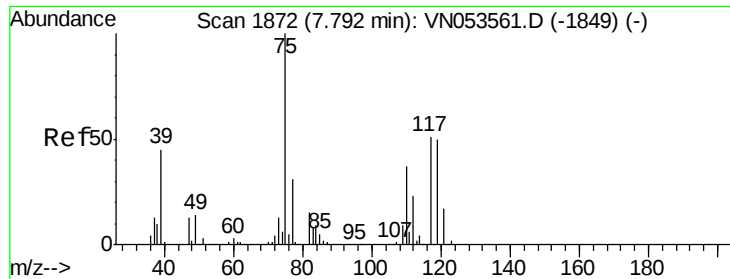


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.070 ug/l

RT: 7.67 min Scan# 1833

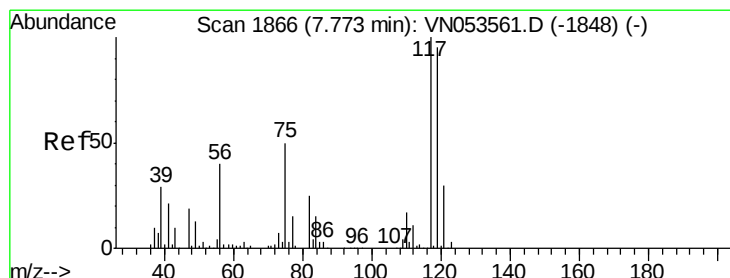
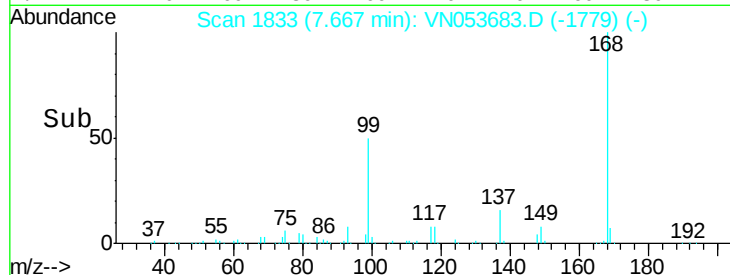
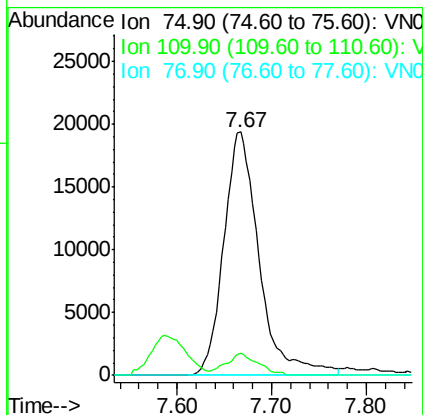
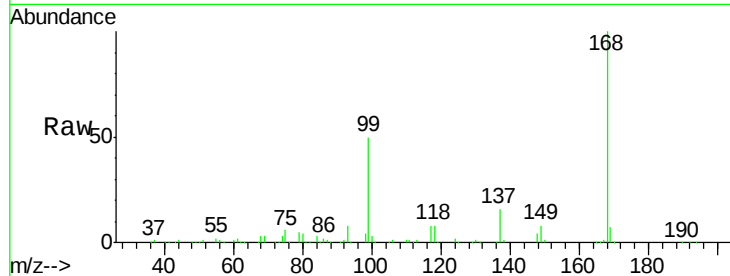
Delta R.T. -0.13 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	75	Resp:	50404
Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.1	54.3#
77	0.0	25.1	37.7#



#38

Carbon Tetrachloride

Concen: 5.180 ug/l

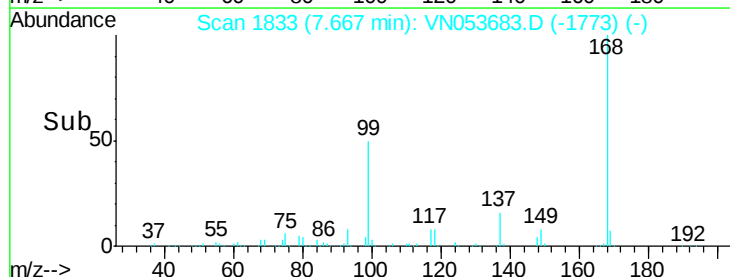
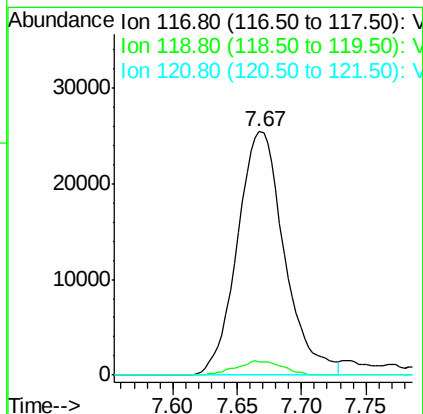
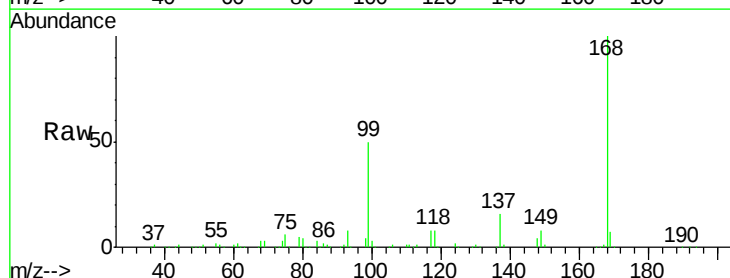
RT: 7.67 min Scan# 1833

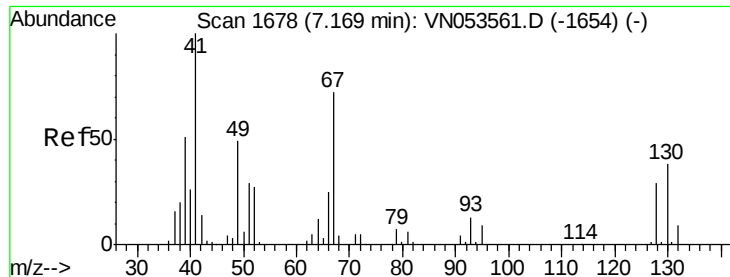
Delta R.T. -0.11 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Tgt Ion:	117	Resp:	64620
Ion	Ratio	Lower	Upper
117	100		
119	5.5	77.2	115.8#
121	0.0	24.6	37.0#

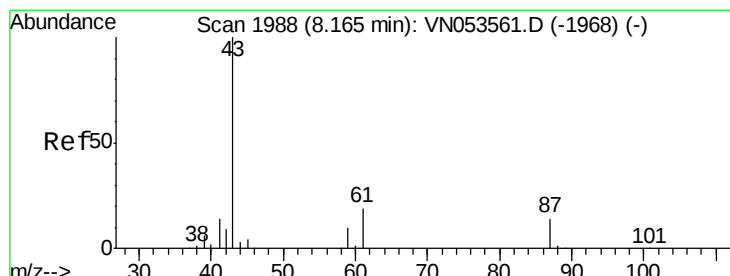
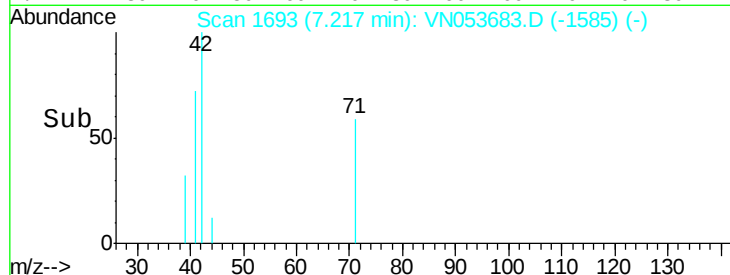
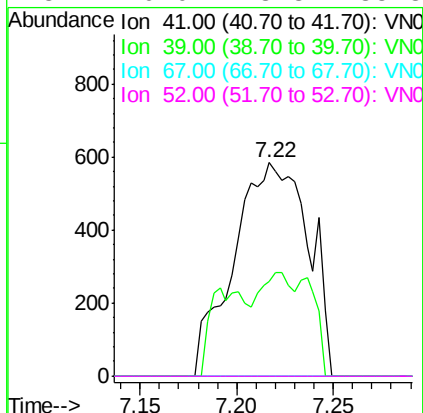
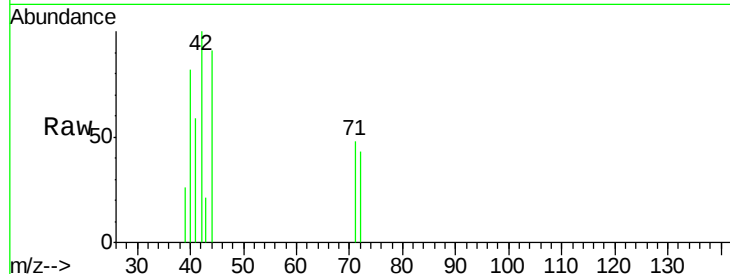




#41
Methacrylonitrile
Concen: 0.405 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.05 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

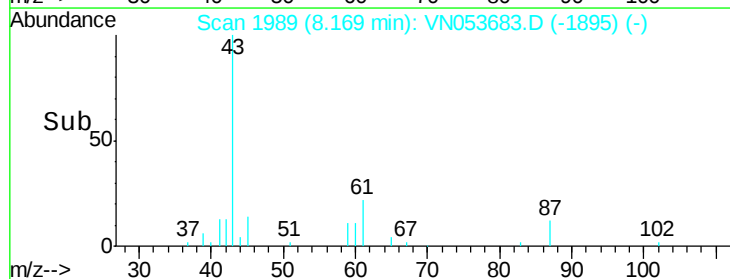
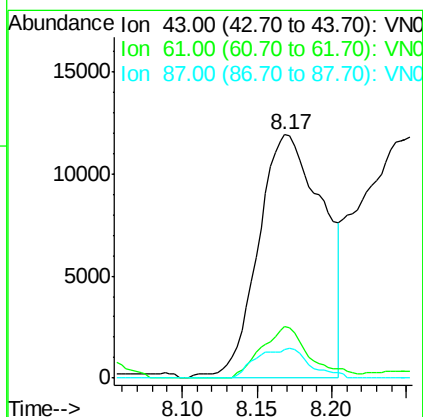
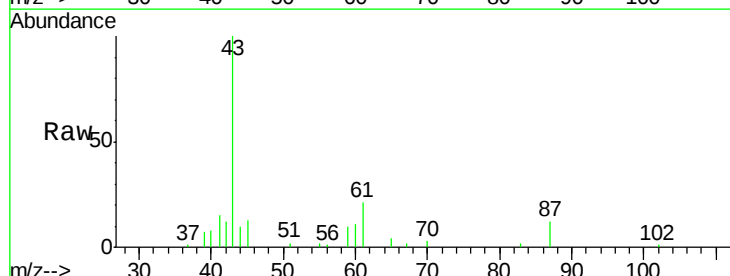
Instrument :
MSVOA_N
ClientSampled :

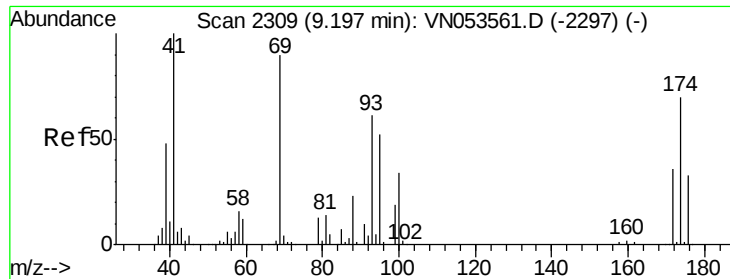
Tot Ion: 41 Resp: 1566
Ion Ratio Lower Upper
41 100
39 8.1 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 2.685 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

Tgt Ion: 43 Resp: 35865
Ion Ratio Lower Upper
43 100
61 15.6 23.9 35.9#
87 4.3 11.0 16.6#

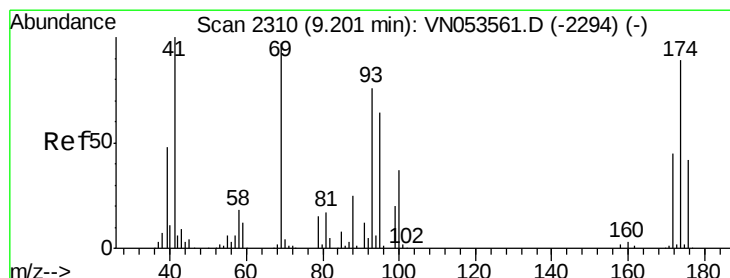
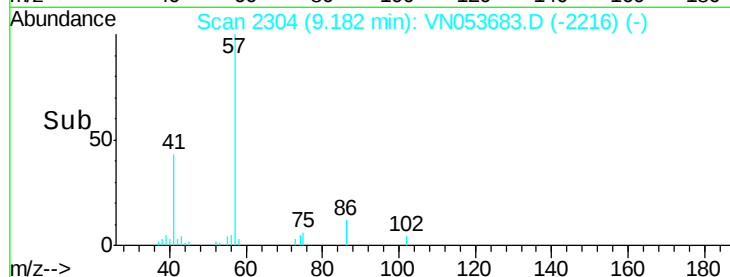
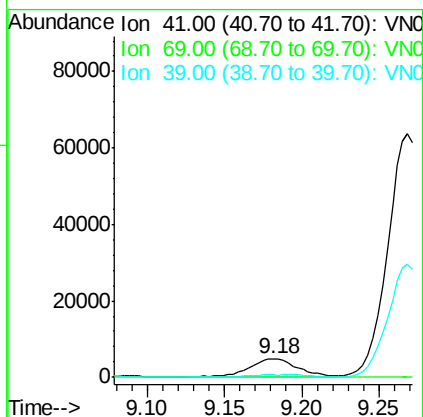
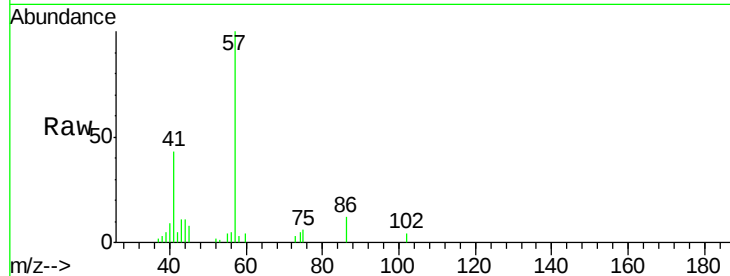




#48
Methvl methacrvlate
Concen: 1.717 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

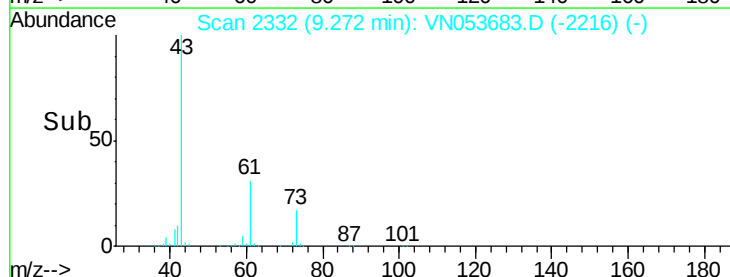
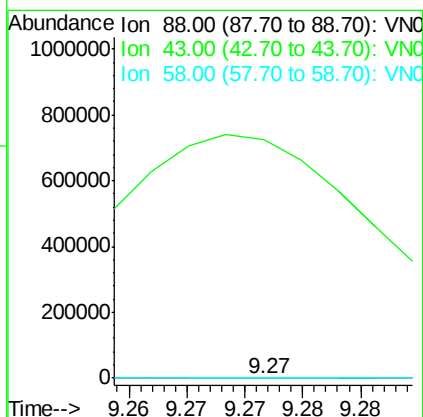
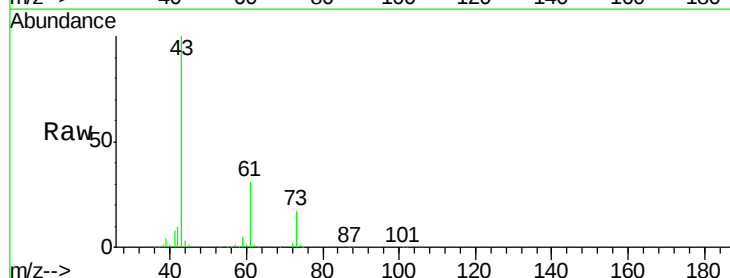
Instrument :
MSVOA_N
ClientSampleId :

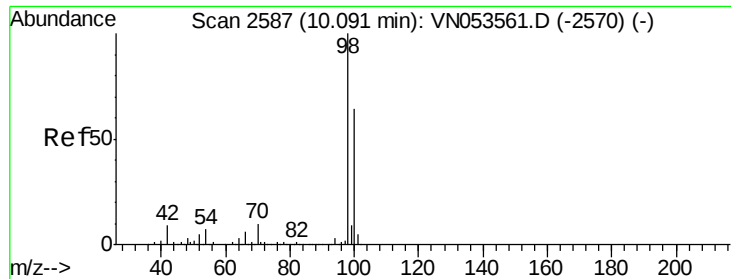
Tot Ion: 41 Resp: 10949
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 39.421 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 4908445.2 27.8 41.6#
58 22364.5 56.5 84.7#

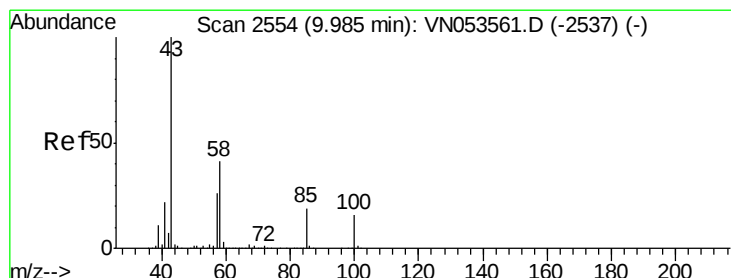
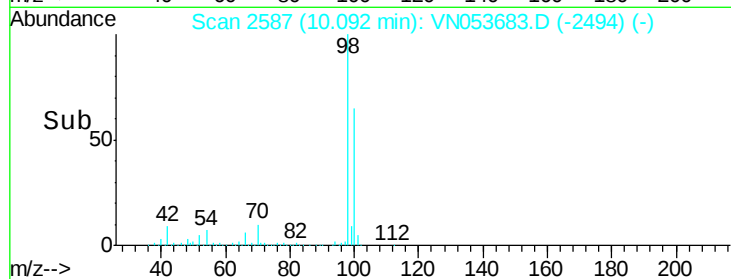
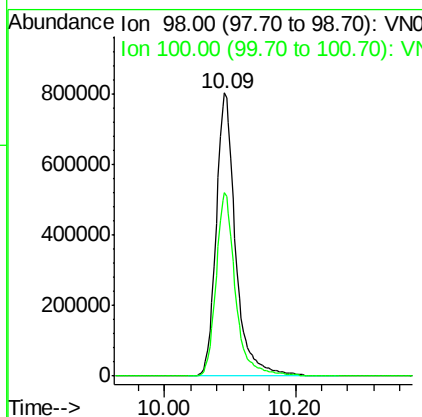
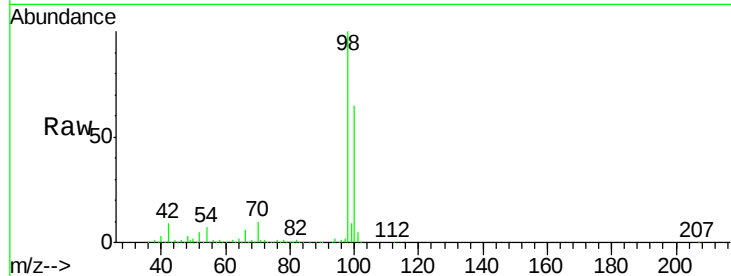




#50
Toluene-d8
Concen: 39.421 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

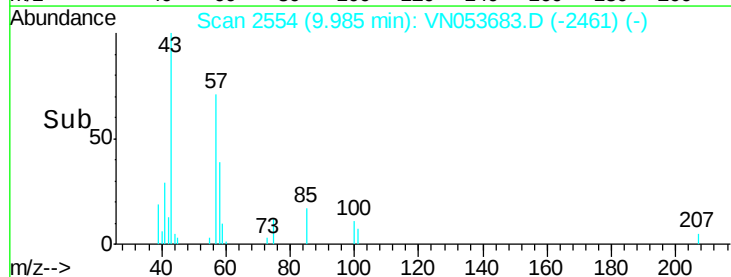
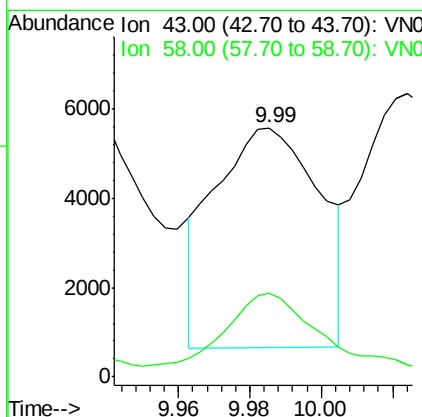
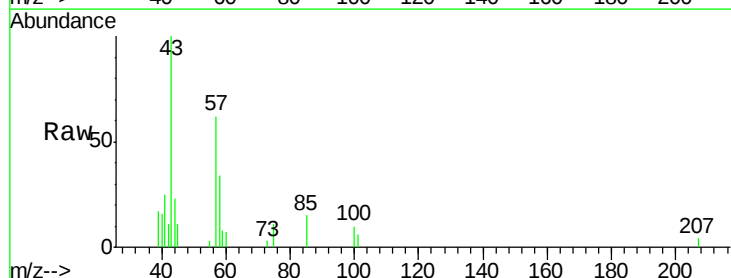
Instrument :
MSVOA_N
ClientSampled :

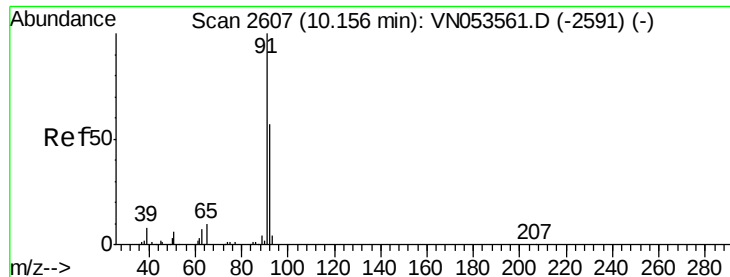
Tot Ion: 98 Resp: 1660830
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.530 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

Tgt Ion: 43 Resp: 10039
Ion Ratio Lower Upper
43 100
58 38.7 32.8 49.2





#52

Toluene

Concen: 0.281 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Instrument :

MSVOA_N

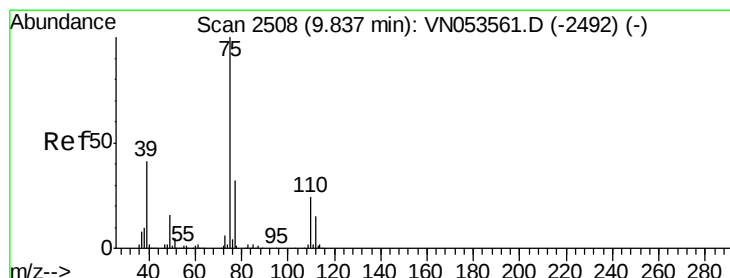
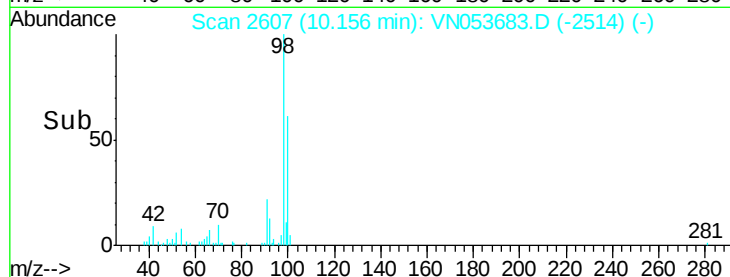
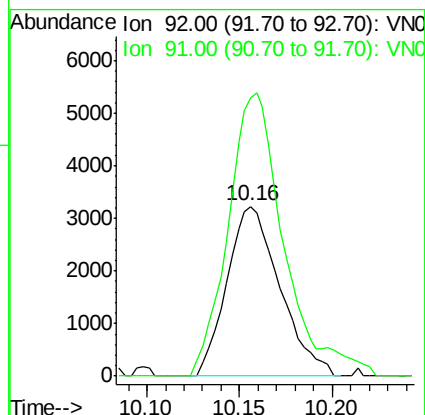
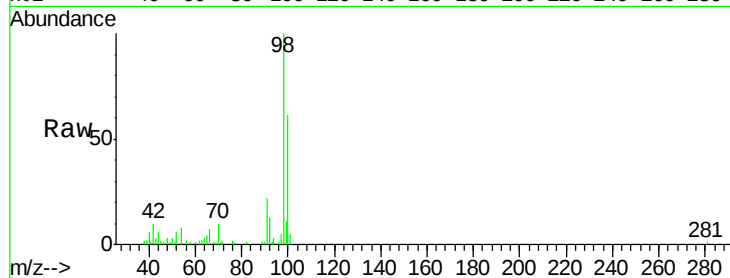
ClientSampled :

Tot Ion: 92 Resp: 6364

Ion Ratio Lower Upper

92 100

91 176.0 139.9 209.9



#54

cis-1,3-Dichloropropene

Concen: 4.927 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

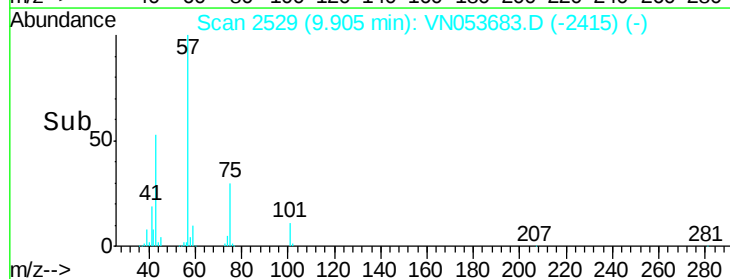
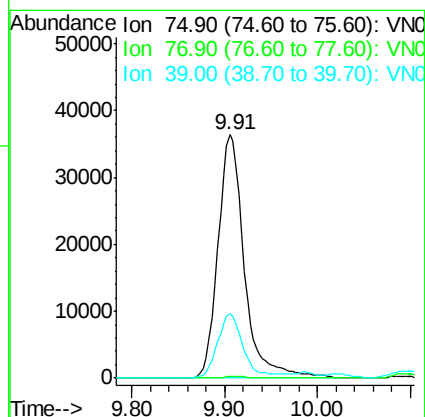
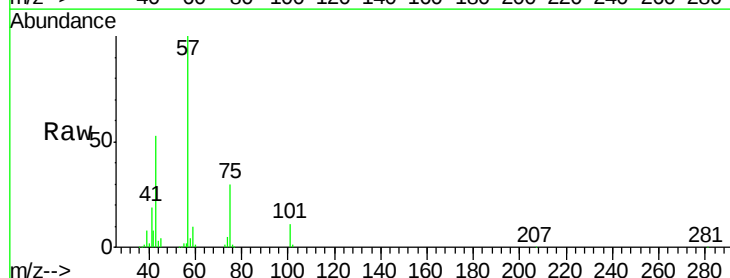
Tgt Ion: 75 Resp: 71574

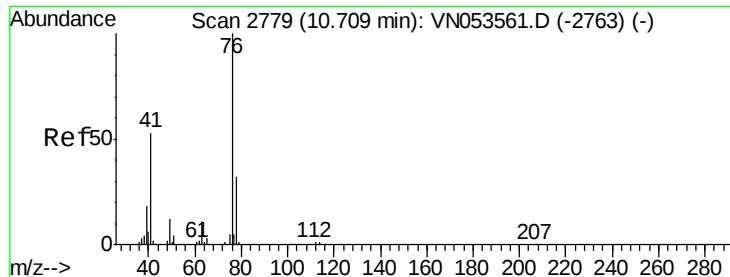
Ion Ratio Lower Upper

75 100

77 0.8 25.8 38.6#

39 26.7 33.4 50.0#

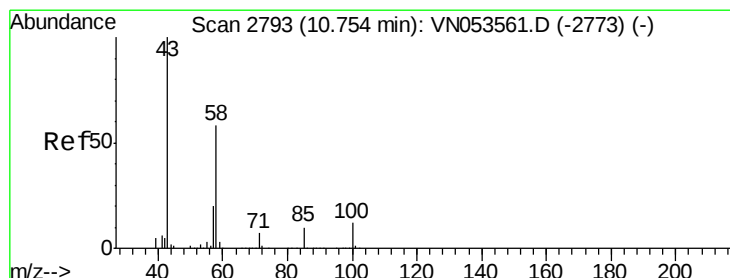
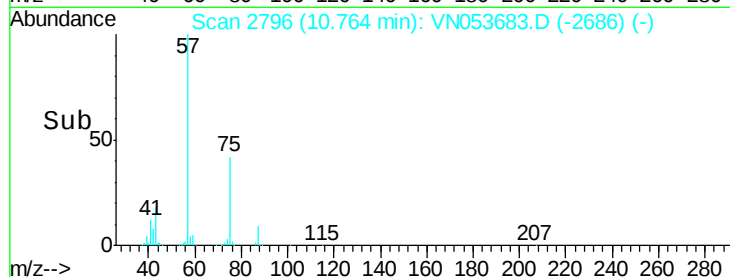
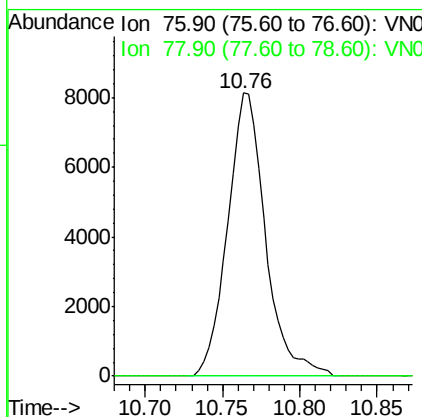
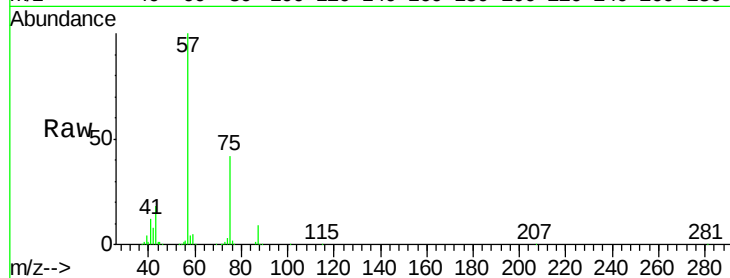




#57
 1,3-Dichloropropane
 Concen: 0.989 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053683.D
 Acq: 8 Feb 2019 15:58

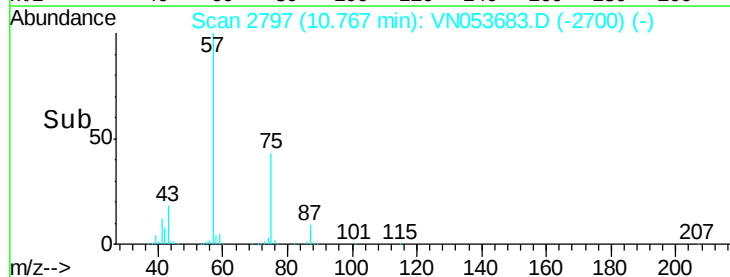
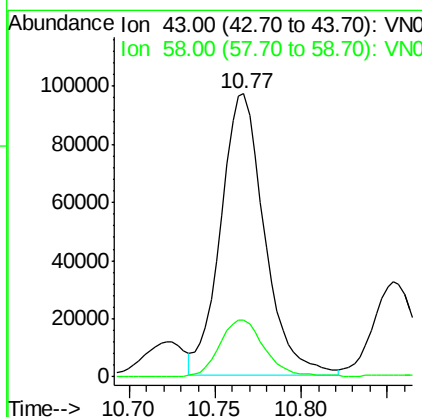
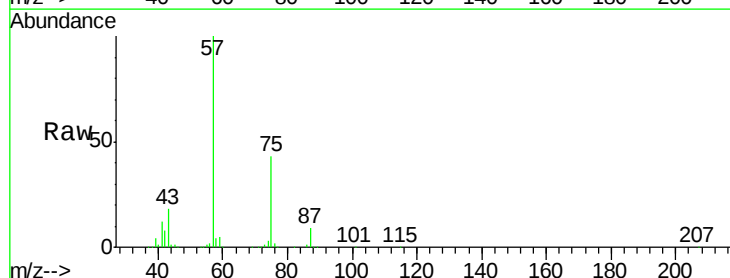
Instrument :
 MSVOA_N
 ClientSampleId :

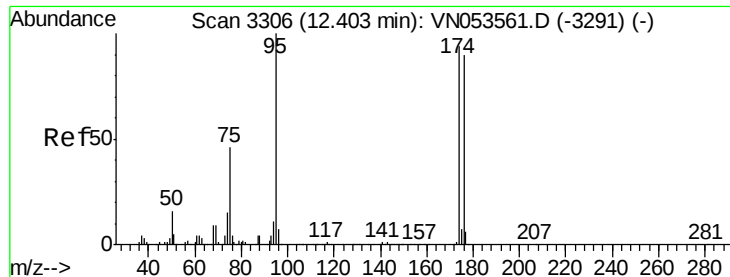
Tot Ion: 76 Resp: 13806
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 38.779 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN053683.D
 Acq: 8 Feb 2019 15:58

Tgt Ion: 43 Resp: 172781
 Ion Ratio Lower Upper
 43 100
 58 21.0 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

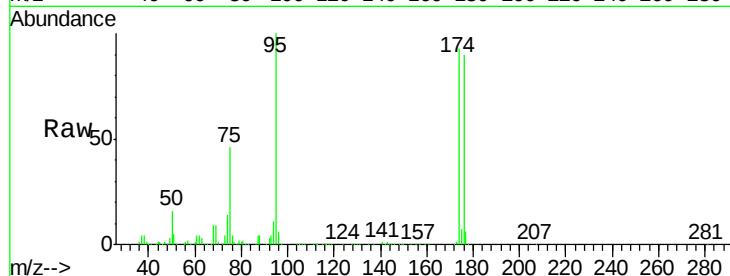
Tot Ion: 95 Resp: 549890

Ion Ratio Lower Upper

95 100

174 91.7 0.0 183.2

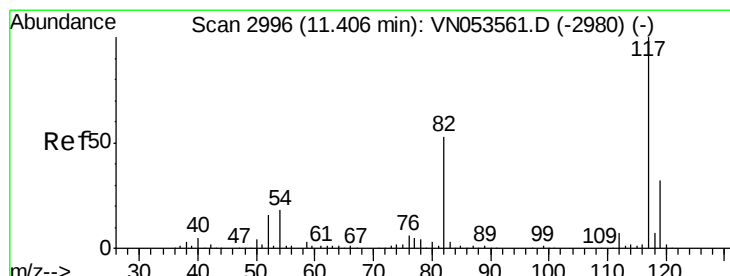
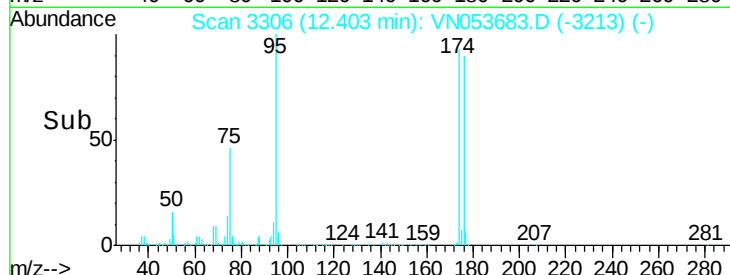
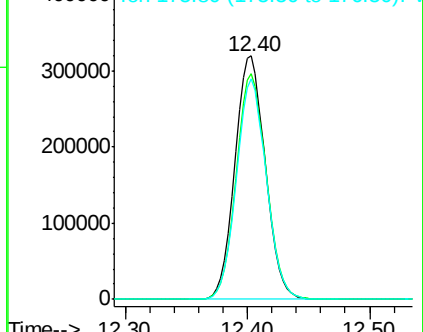
176 88.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053683.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053683.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053683.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

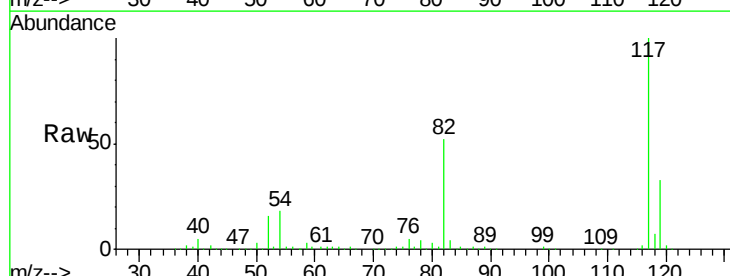
Tgt Ion: 117 Resp: 1242407

Ion Ratio Lower Upper

117 100

82 52.2 42.9 64.3

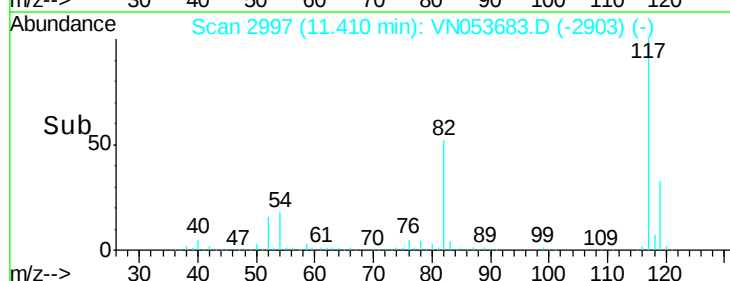
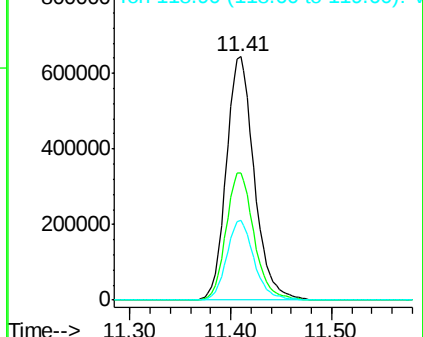
119 32.6 26.0 39.0

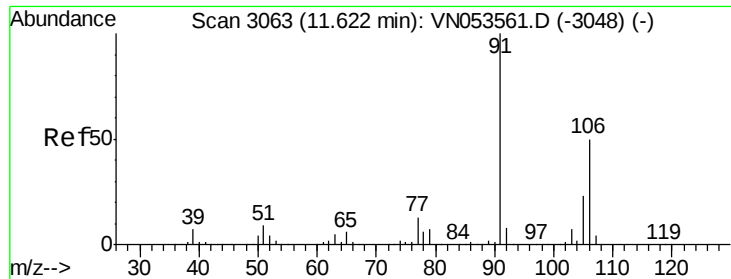


Abundance Ion 116.90 (116.60 to 117.60): VN053683.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053683.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053683.D (-2903) (-)

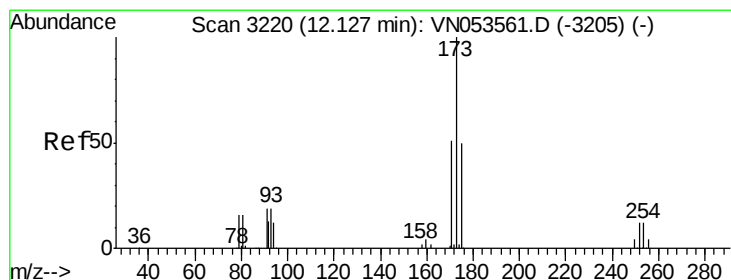
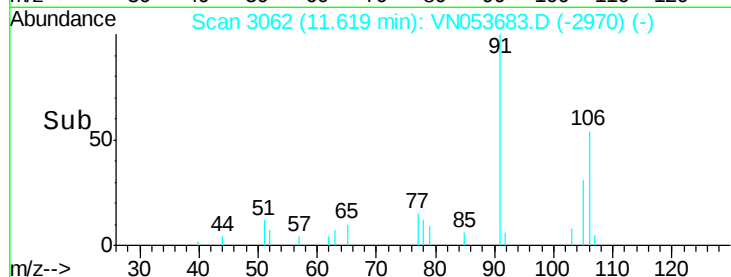
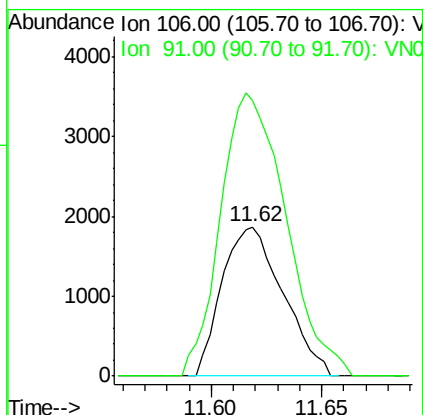
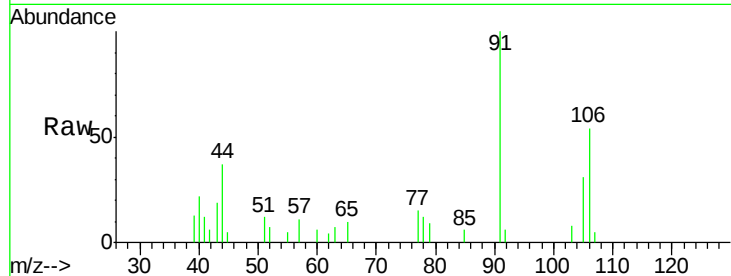




#68
m/p-Xvlenes
Concen: 0.216 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

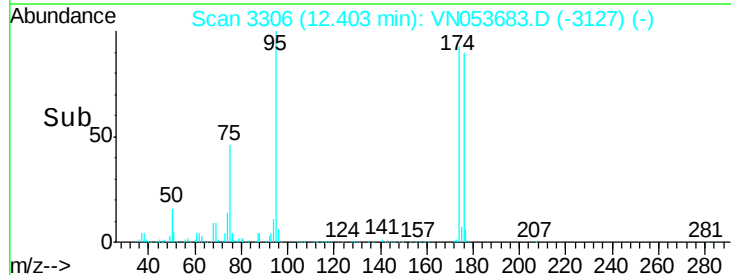
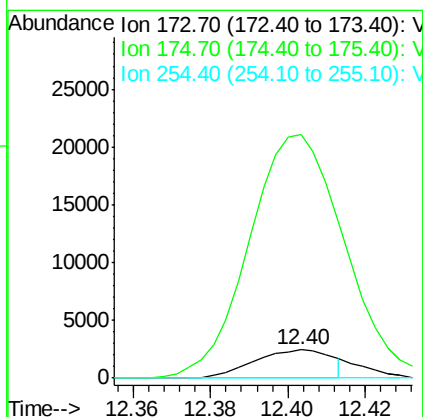
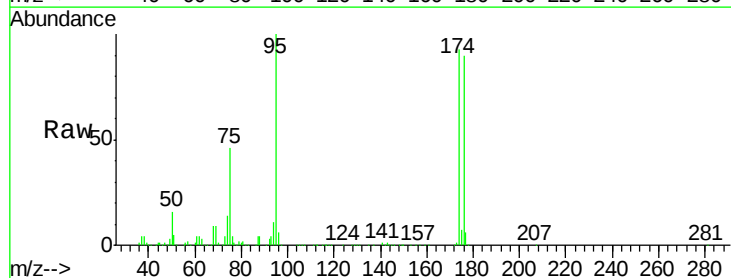
Instrument :
MSVOA_N
ClientSampleId :

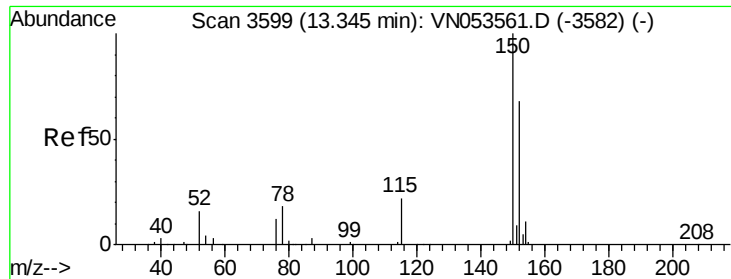
Tot Ion:106 Resp: 3579
Ion Ratio Lower Upper
106 100
91 203.4 161.4 242.2



#71
Bromoform
Concen: 0.545 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053683.D
Acq: 8 Feb 2019 15:58

Tgt Ion:173 Resp: 3441
Ion Ratio Lower Upper
173 100
175 895.8 24.6 74.0#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

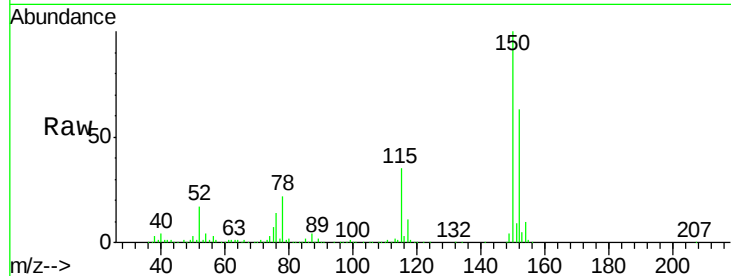
Tot Ion:152 Resp: 510769

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

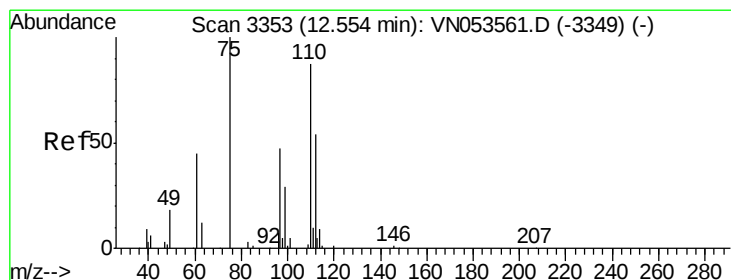
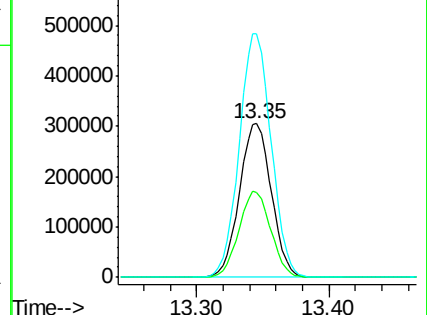
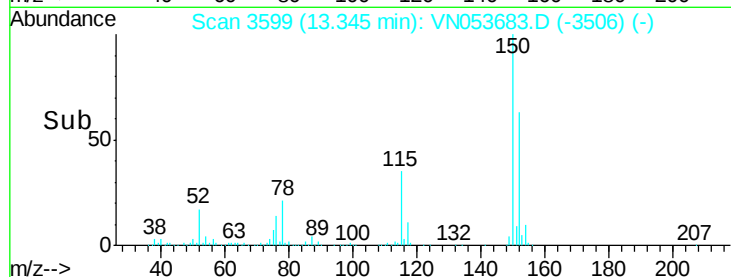
150 157.8 0.0 349.0



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: 38.520 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053683.D

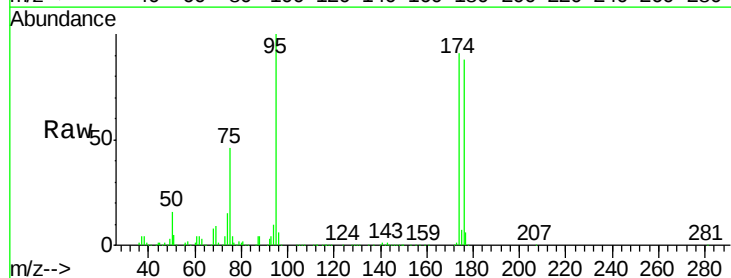
Acq: 8 Feb 2019 15:58

Tgt Ion: 75 Resp: 252714

Ion Ratio Lower Upper

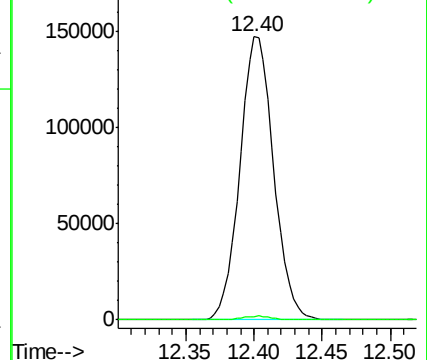
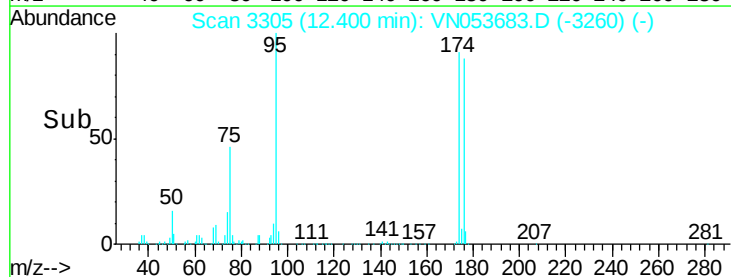
75 100

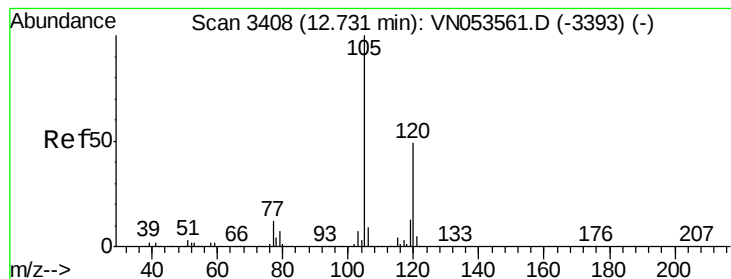
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.284 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Instrument :

MSVOA_N

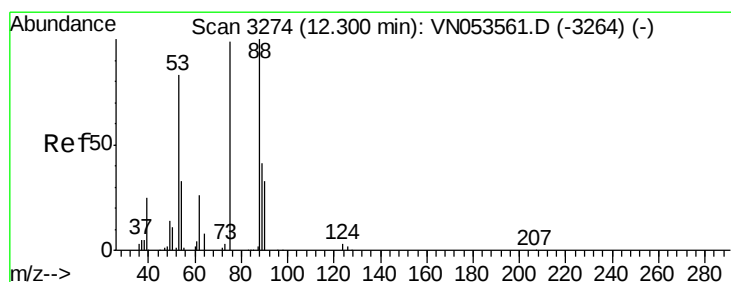
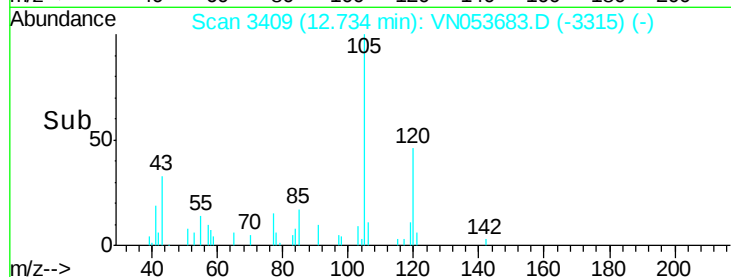
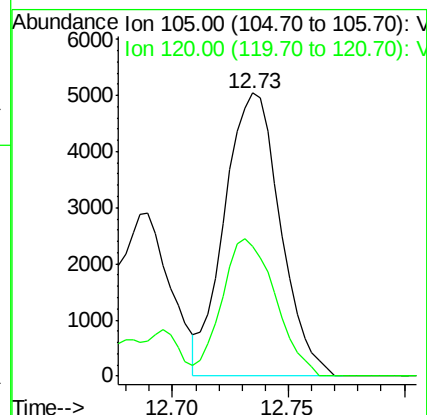
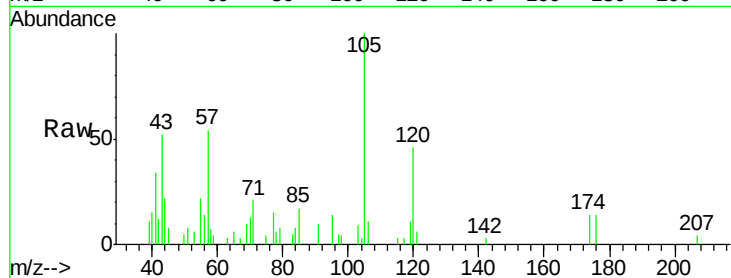
ClientSampled :

Tot Ion:105 Resp: 8452

Ion Ratio Lower Upper

105 100

120 46.5 24.9 74.6



#81

trans-1,4-Dichloro-2-butene

Concen: 108.316 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

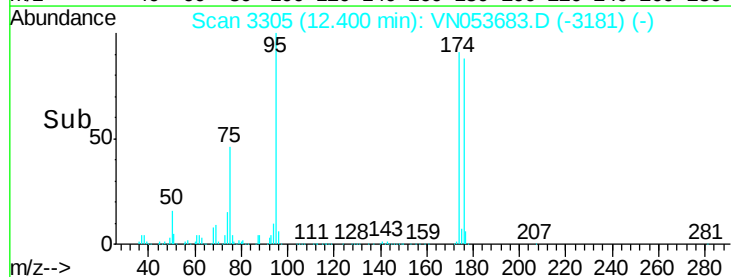
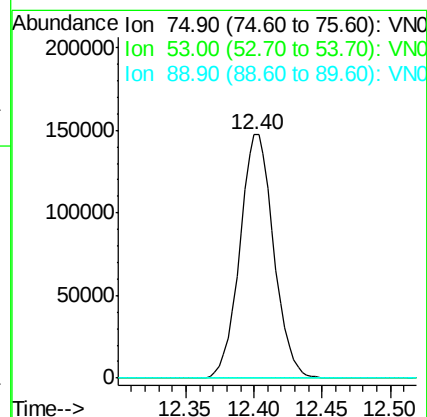
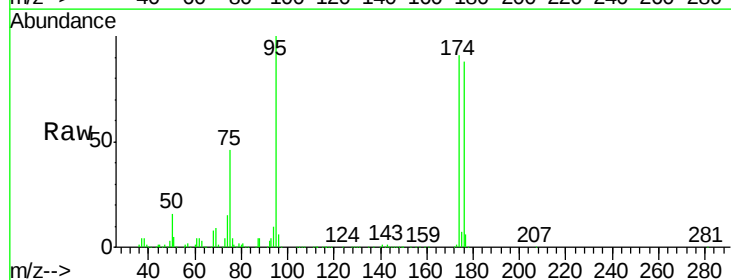
Tgt Ion: 75 Resp: 252714

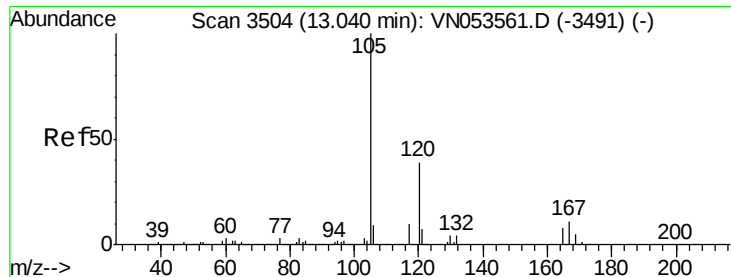
Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#





#84

1,2,4-Trimethylbenzene

Concen: 0.644 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

Instrument :

MSVOA_N

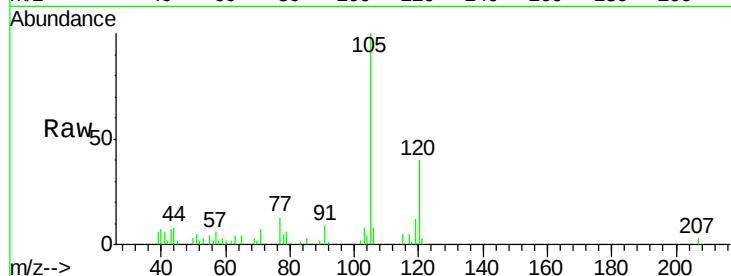
ClientSampled :

Tot Ion:105 Resp: 19547

Ion Ratio Lower Upper

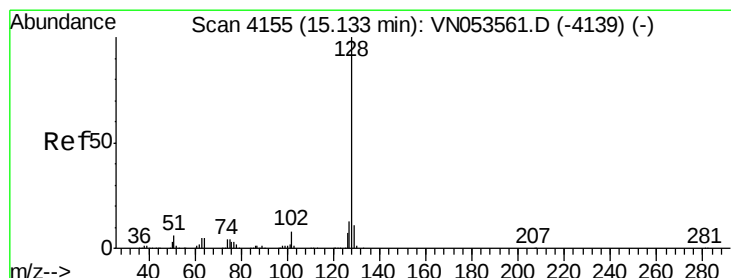
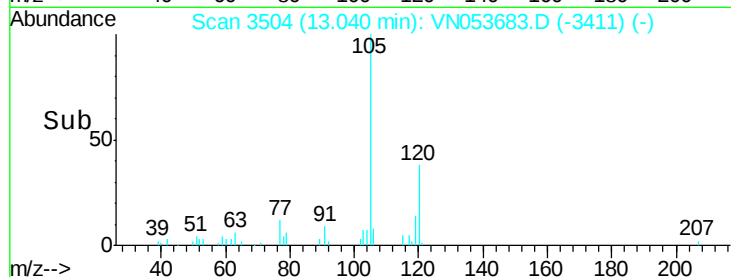
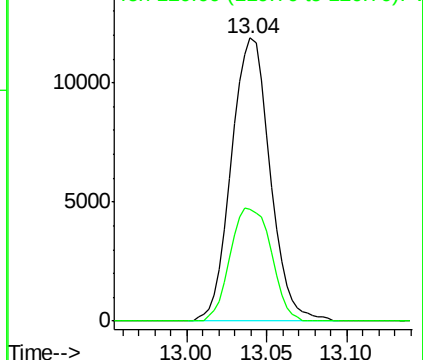
105 100

120 42.3 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 8.487 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053683.D

Acq: 8 Feb 2019 15:58

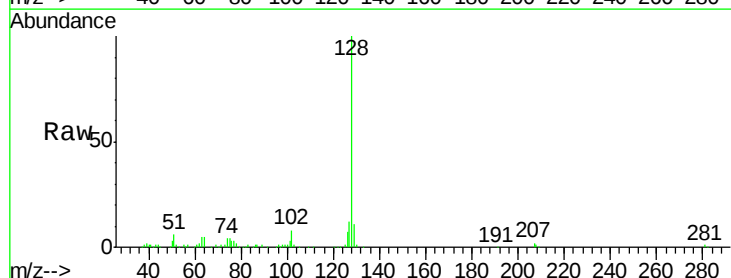
Tgt Ion:128 Resp: 156914

Ion Ratio Lower Upper

128 100

127 12.2 10.3 15.5

129 11.1 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

