

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057963.D
 Acq On : 12 Sep 2019 12:20
 Operator : JC/SP
 Sample : K4644-20
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D1-(4)

Quant Time: Sep 13 04:43:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

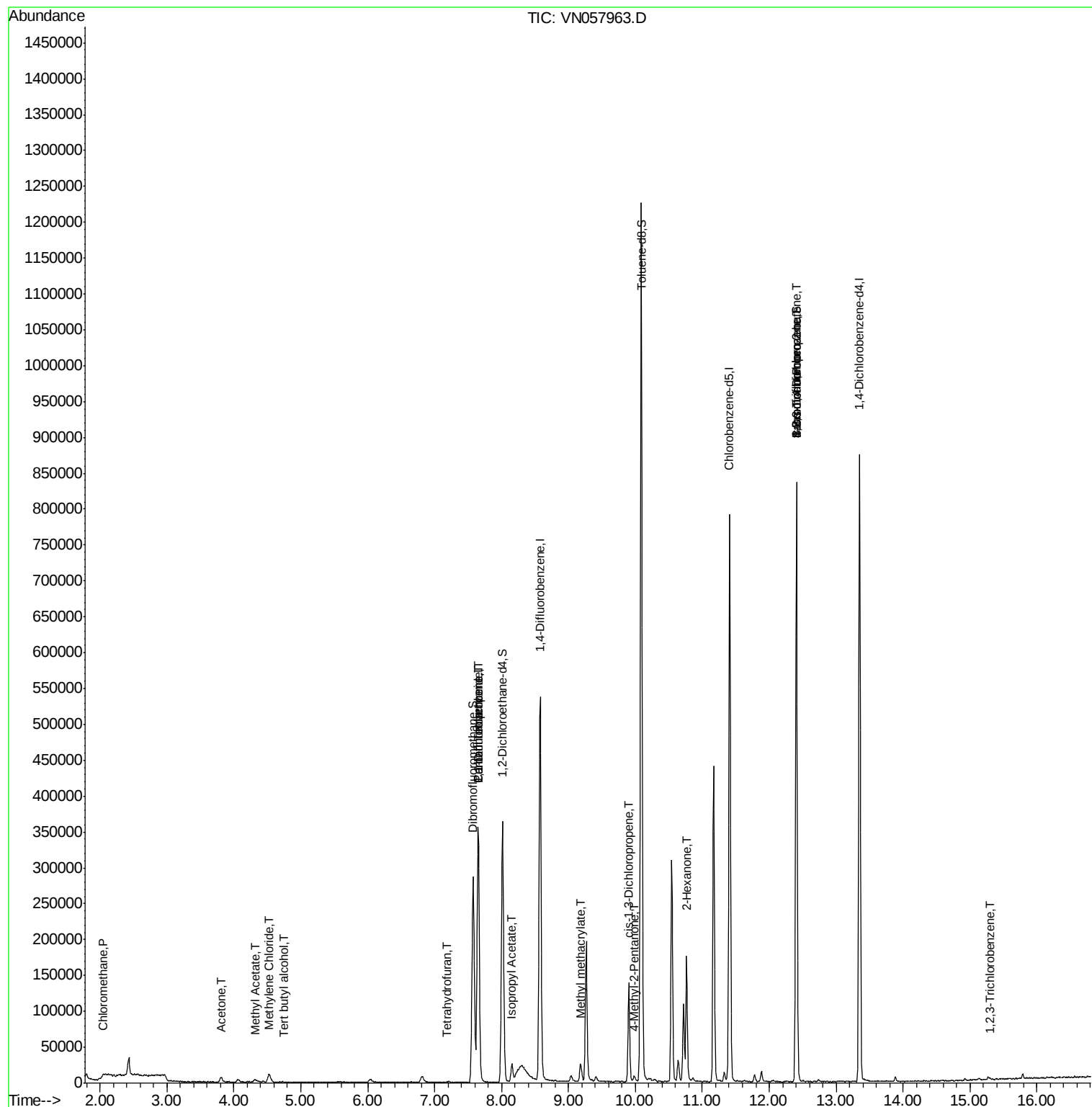
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	272206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	461395	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	423900	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	221409	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	312475	56.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.36%	
35) Dibromofluoromethane	7.57	113	217426	51.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.12%	
50) Toluene-d8	10.09	98	834285	50.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.92%	
62) 4-Bromofluorobenzene	12.41	95	277645	44.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.12%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	943	0.246	ug/l #	72
5) Bromomethane	2.51	94	181	Below Cal	#	74
11) Tert butyl alcohol	4.74	59	182	0.273	ug/l #	72
16) Acetone	3.81	43	12488	6.910	ug/l #	89
18) Methyl Acetate	4.31	43	5319	1.104	ug/l	92
20) Methylene Chloride	4.53	84	8018	1.127	ug/l	89
29) Tetrahydrofuran	7.19	42	425	0.264	ug/l #	34
31) Cyclohexane	7.65	56	7249	Below Cal	#	11
36) 1,1-Dichloropropene	7.65	75	23886	4.464	ug/l #	49
38) Carbon Tetrachloride	7.65	117	28013	5.734	ug/l #	15
43) Isopropyl Acetate	8.16	43	29744	3.199	ug/l #	87
48) Methyl methacrylate	9.18	41	4834	1.025	ug/l #	32
51) 4-Methyl-2-Pentanone	9.98	43	5350	0.972	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	22903	3.482	ug/l #	70
59) 2-Hexanone	10.76	43	25993	6.303	ug/l #	57
71) Bromoform	12.40	173	772	0.322	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	153349	30.617	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	153349	107.741	ug/l #	6
95) Naphthalene	15.14	128	2732	Below Cal	#	82
96) 1,2,3-Trichlorobenzene	15.30	180	491	1.106	ug/l	94

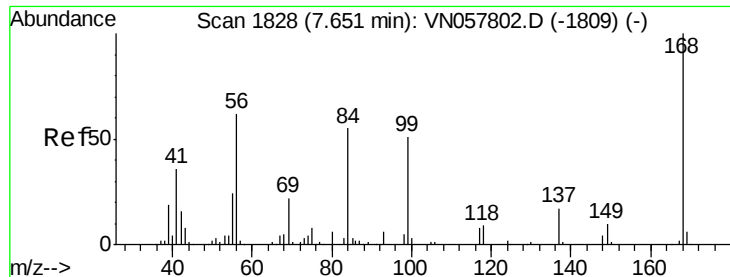
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

Instrument :

MSVOA_N

ClientSampled :

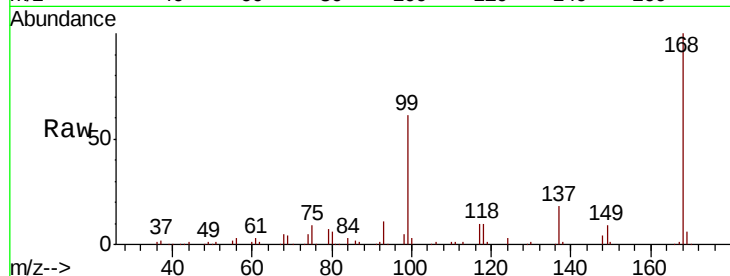
T11-D1-(4)

Tgt Ion:168 Resp: 272206

Ion Ratio Lower Upper

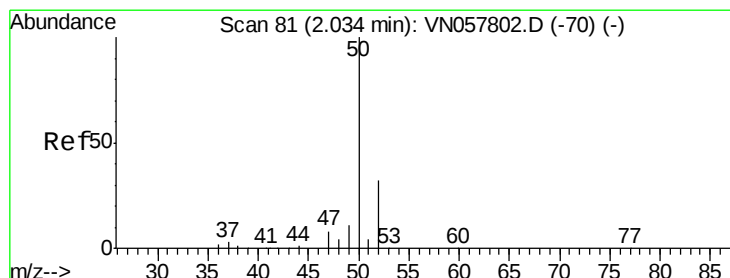
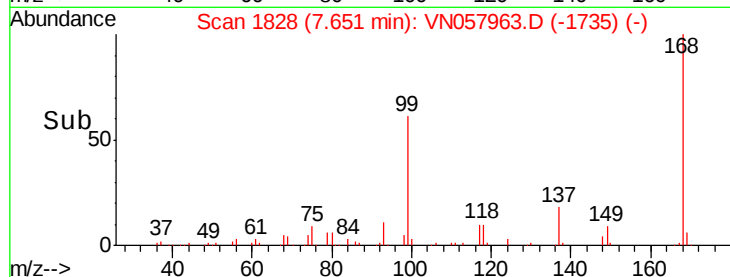
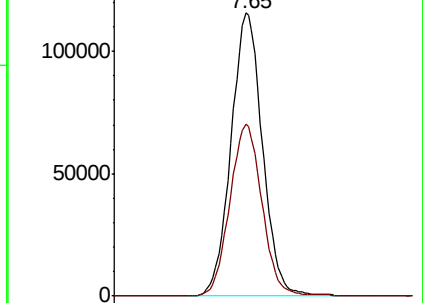
168 100

99 60.6 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)



#3

Chloromethane

Concen: 0.246 ug/l

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN057963.D

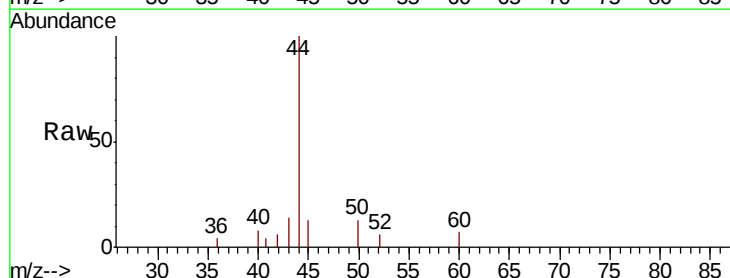
Acq: 12 Sep 2019 12:20

Tgt Ion: 50 Resp: 943

Ion Ratio Lower Upper

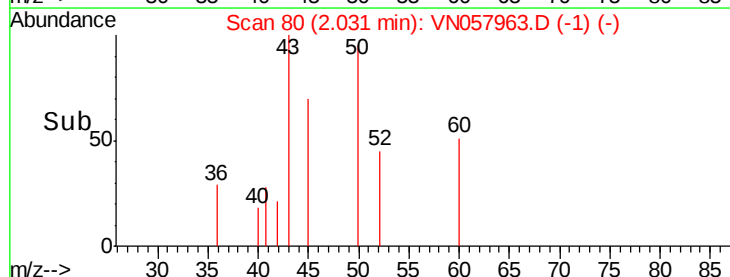
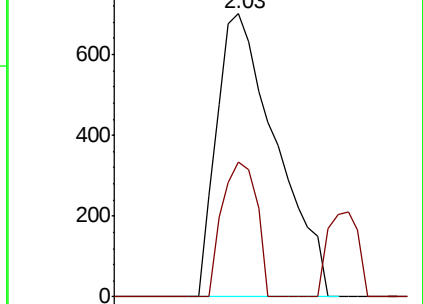
50 100

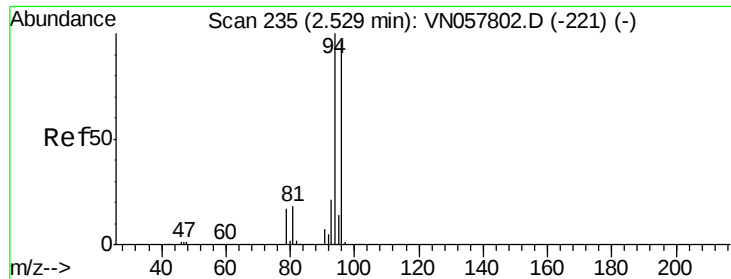
52 47.5 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN057802.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057802.D (-70) (-)





#5

Bromomethane

Concen: Below Cal

RT: 2.51 min Scan# 230

Delta R.T. -0.02 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

Instrument :

MSVOA_N

ClientSampled :

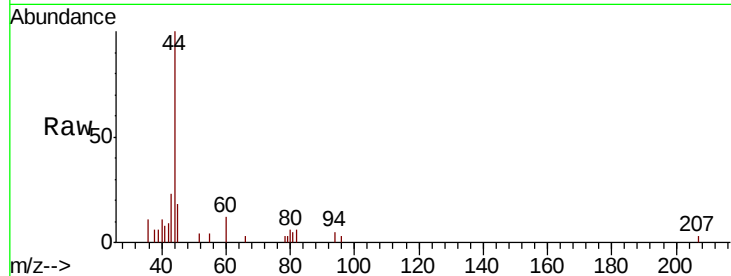
T11-D1-(4)

Tgt Ion: 94 Resp: 181

Ion Ratio Lower Upper

94 100

96 70.3 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.51

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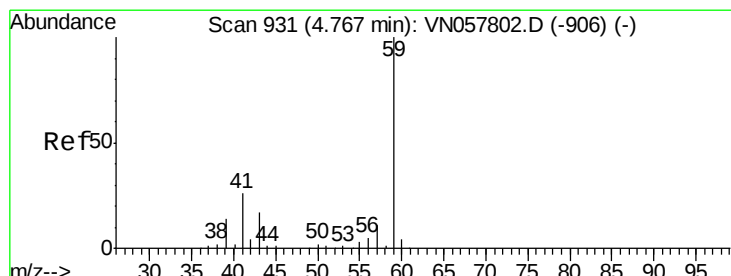
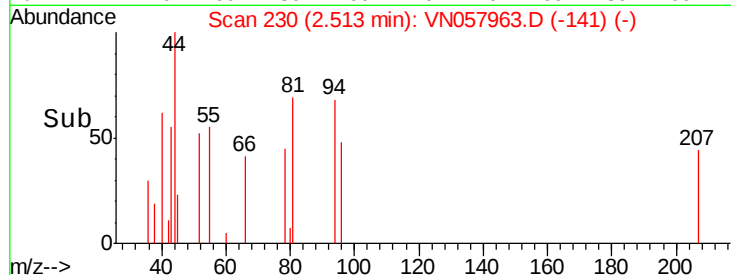
2.51

2.51

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2.51

2.51



#11

Tert butyl alcohol

Concen: 0.273 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.03 min

Lab File: VN057963.D

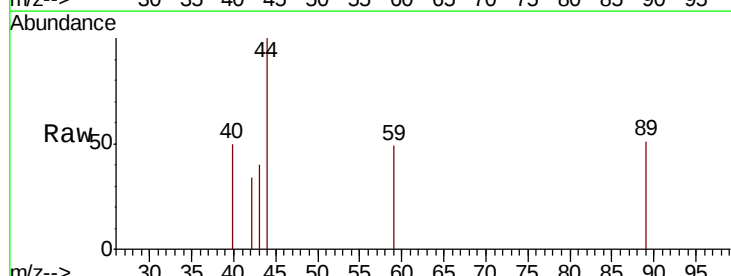
Acq: 12 Sep 2019 12:20

Tgt Ion: 59 Resp: 182

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.74

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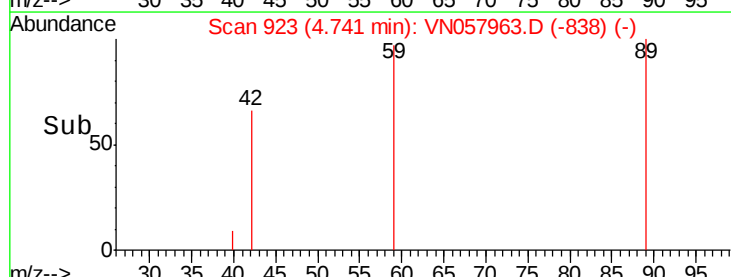
4.74

4.74

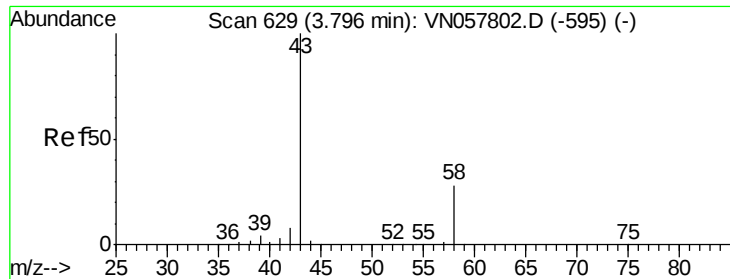
4.74

4.74

4.74



Time-->



#16

Acetone

Concen: 6.910 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.02 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

Instrument :

MSVOA_N

ClientSampleId :

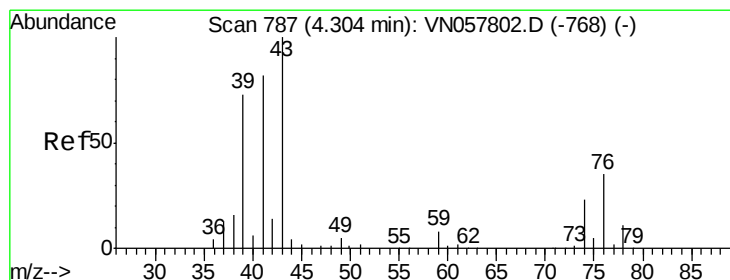
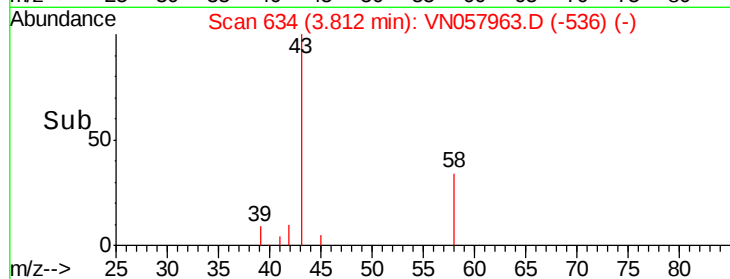
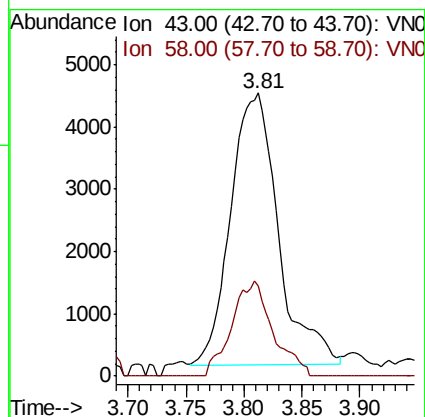
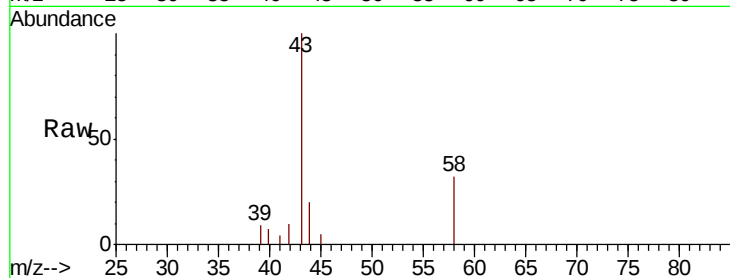
T11-D1-(4)

Tgt Ion: 43 Resp: 12488

Ion Ratio Lower Upper

43 100

58 33.4 22.2 33.2#



#18

Methyl Acetate

Concen: 1.104 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057963.D

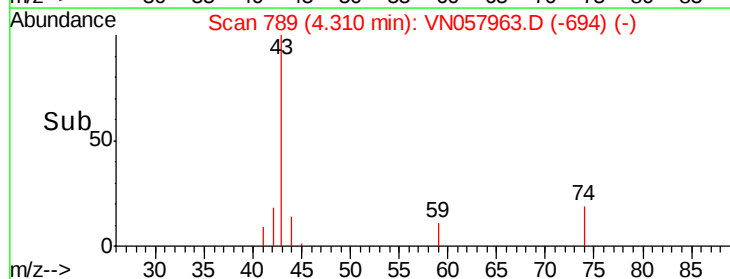
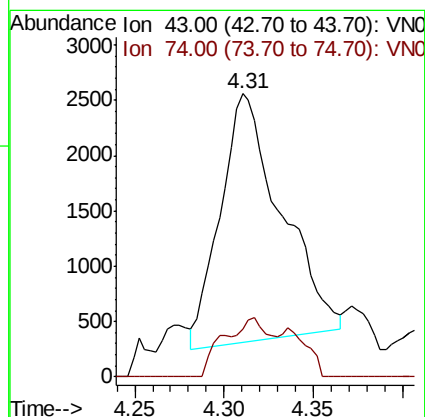
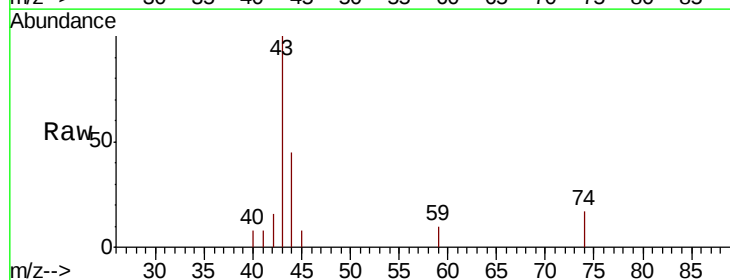
Acq: 12 Sep 2019 12:20

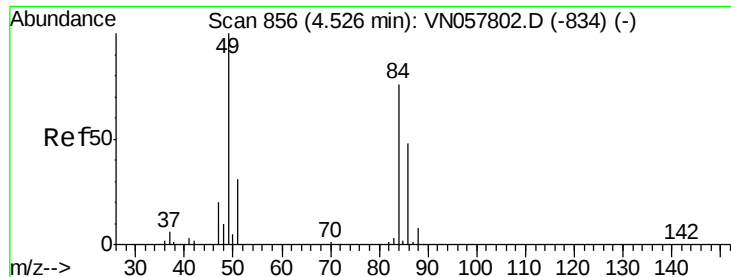
Tgt Ion: 43 Resp: 5319

Ion Ratio Lower Upper

43 100

74 18.3 17.9 26.9

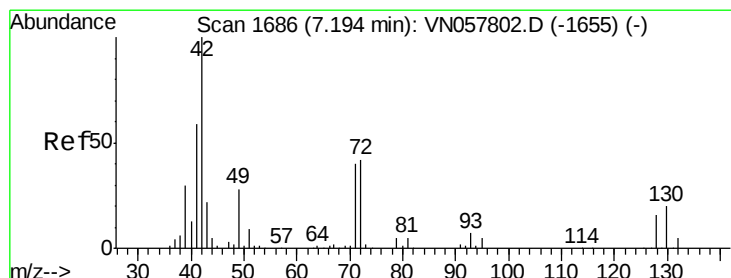
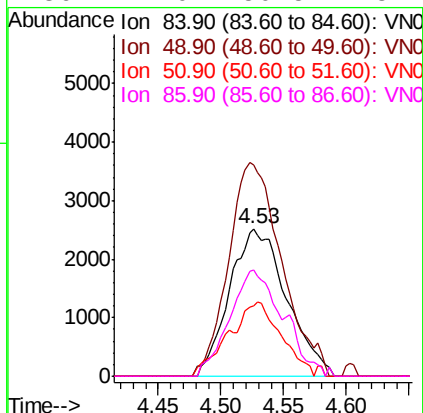
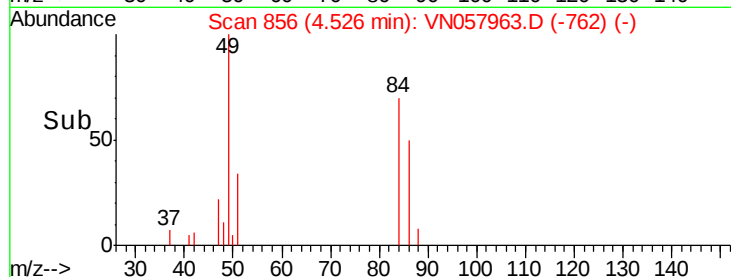
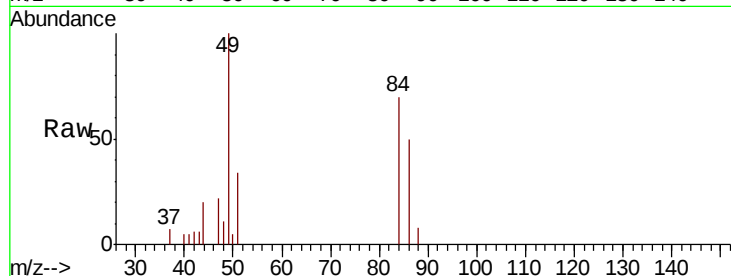




#20
Methylene Chloride
Concen: 1.127 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057963.D
Acq: 12 Sep 2019 12:20

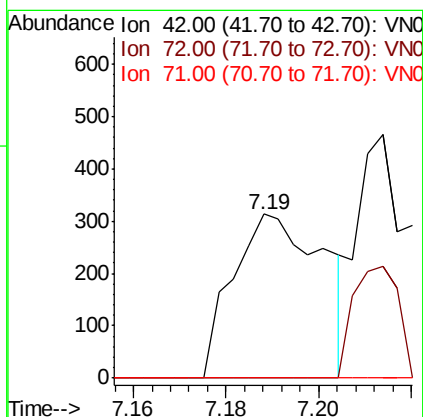
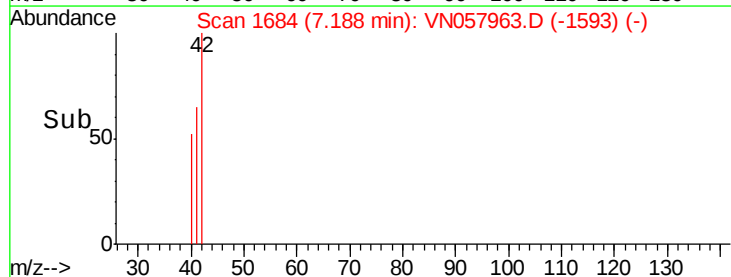
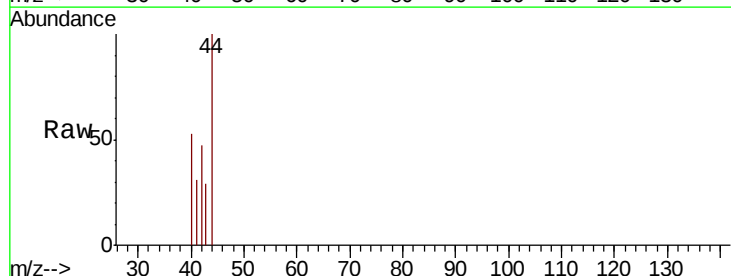
Instrument :
MSVOA_N
ClientSampled :
T11-D1-(4)

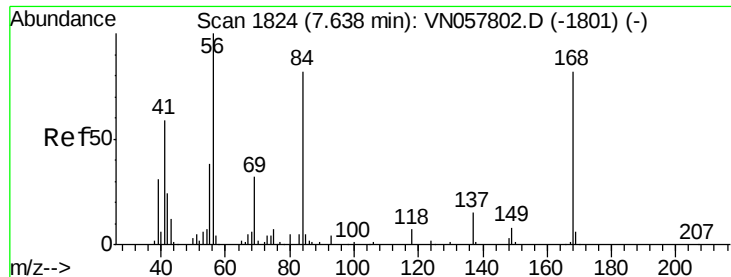
Tgt Ion: 84 Resp: 8018
Ion Ratio Lower Upper
84 100
49 143.1 104.8 157.2
51 48.1 33.0 49.4
86 72.0 50.5 75.7



#29
Tetrahydrofuran
Concen: 0.264 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. -0.01 min
Lab File: VN057963.D
Acq: 12 Sep 2019 12:20

Tgt Ion: 42 Resp: 425
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.9 47.9#

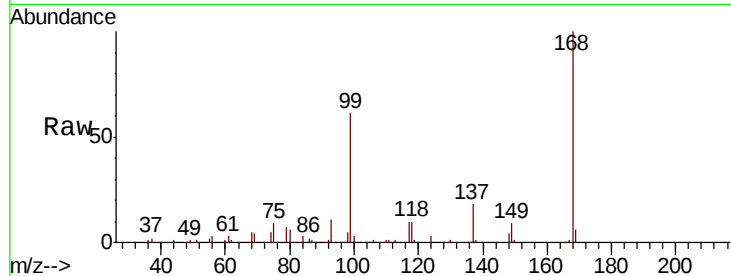




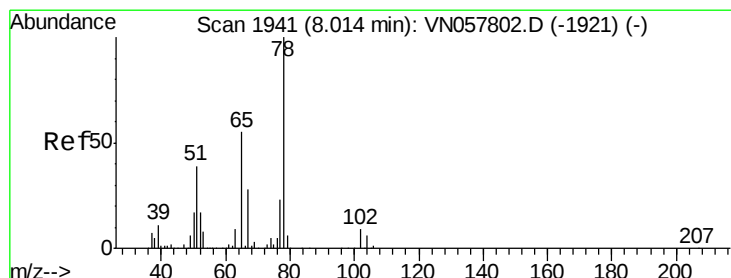
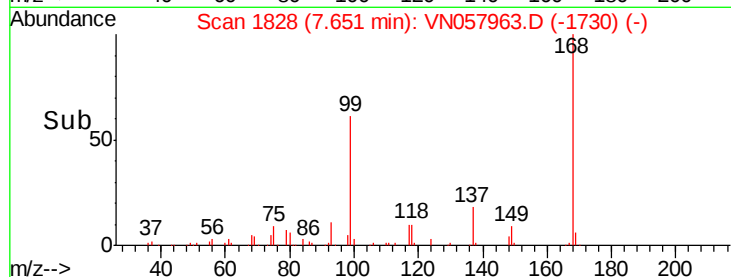
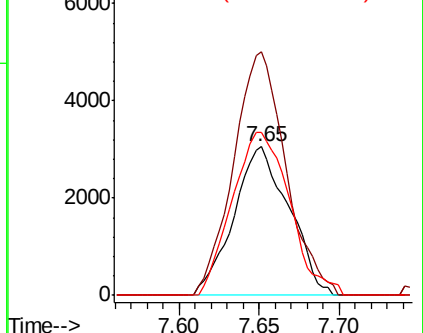
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057963.D
Acq: 12 Sep 2019 12:20

Instrument :
MSVOA_N
ClientSampleId :
T11-D1-(4)

Tgt Ion: 56 Resp: 7249
Ion Ratio Lower Upper
56 100
69 164.0 25.9 38.9#
84 109.7 65.6 98.4#

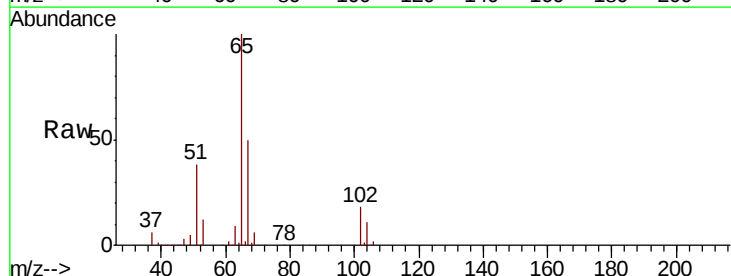


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

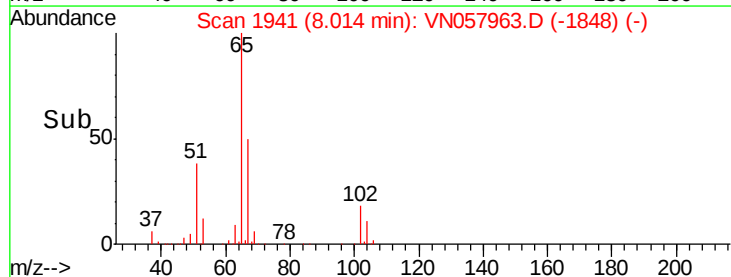
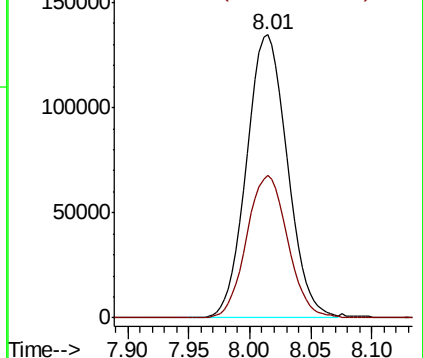


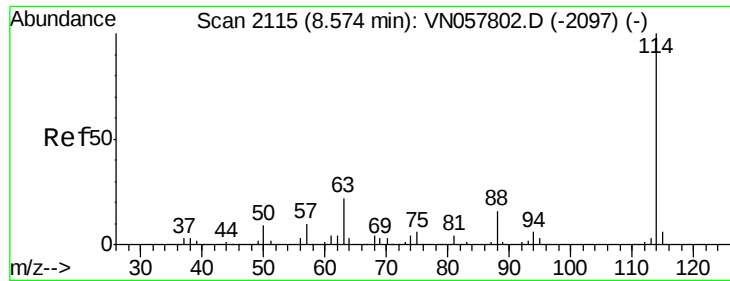
#33
1,2-Dichloroethane-d4
Concen: 56.676 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057963.D
Acq: 12 Sep 2019 12:20

Tgt Ion: 65 Resp: 312475
Ion Ratio Lower Upper
65 100
67 50.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

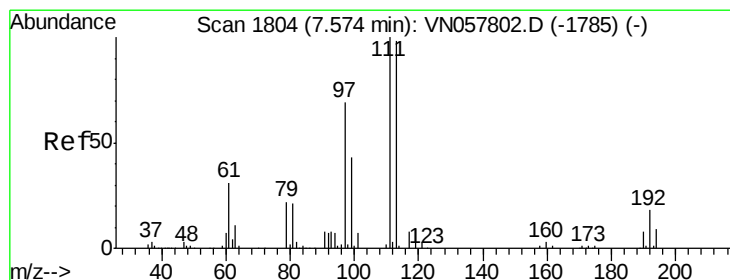
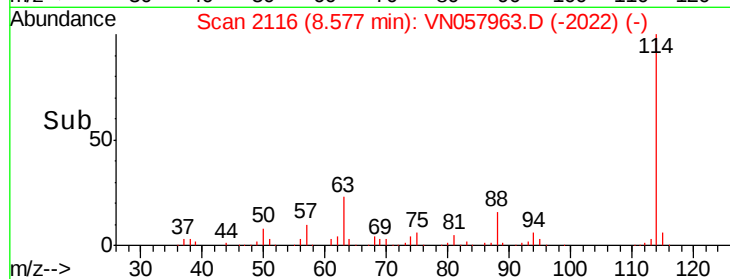
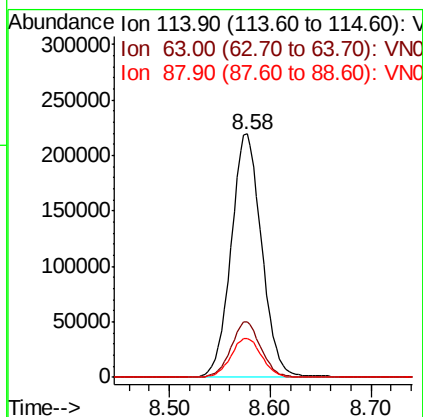
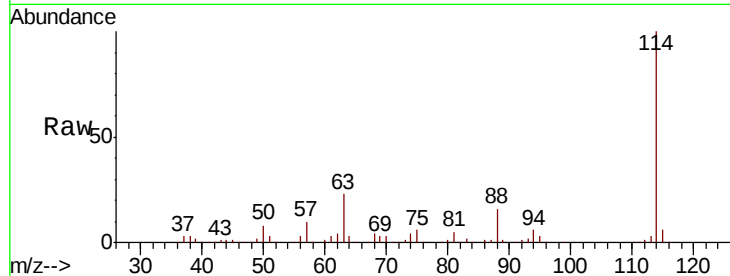




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057963.D
 Acq: 12 Sep 2019 12:20

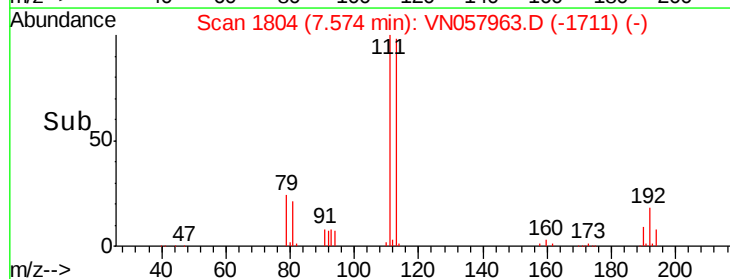
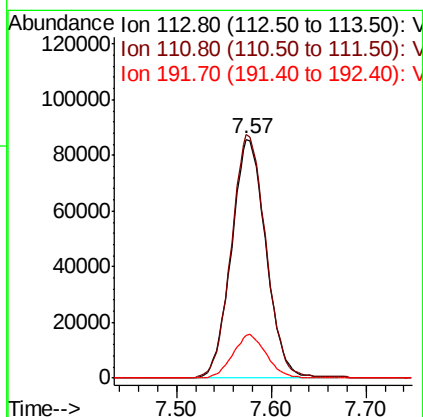
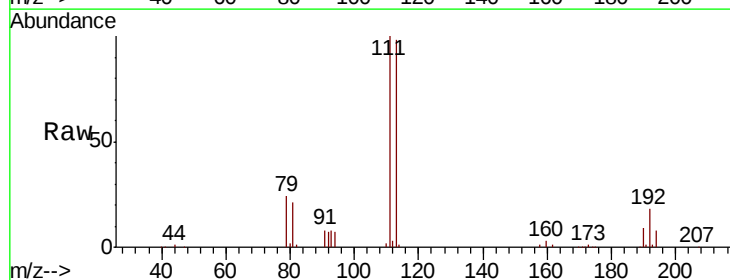
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D1-(4)

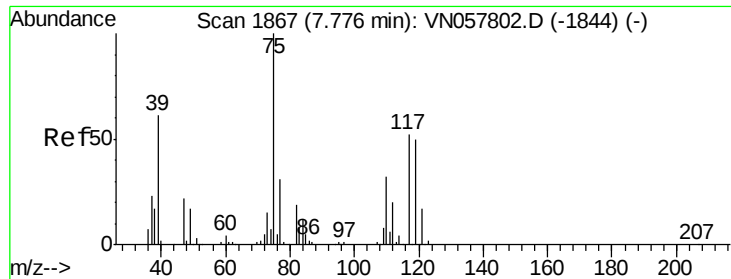
Tgt Ion:114 Resp: 461395
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 44.0
 88 15.8 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 51.057 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN057963.D
 Acq: 12 Sep 2019 12:20

Tgt Ion:113 Resp: 217426
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.3 121.9
 192 17.7 14.6 22.0

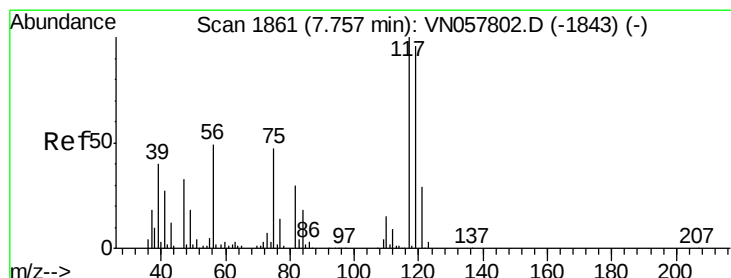
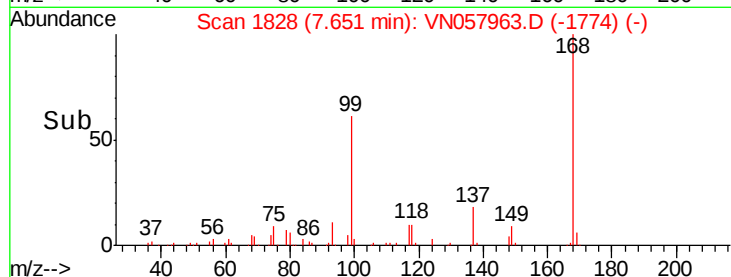
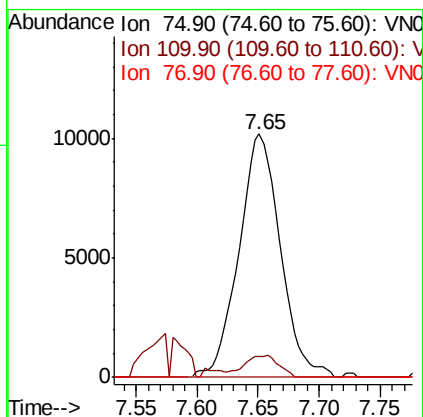
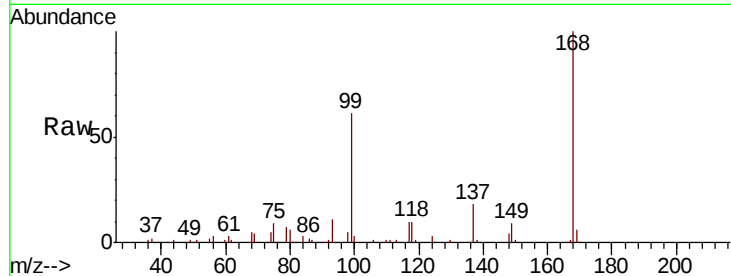




#36
 1,1-Dichloropropene
 Concen: 4.464 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057963.D
 Acq: 12 Sep 2019 12:20

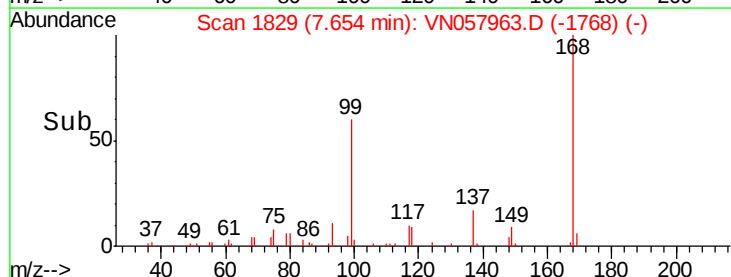
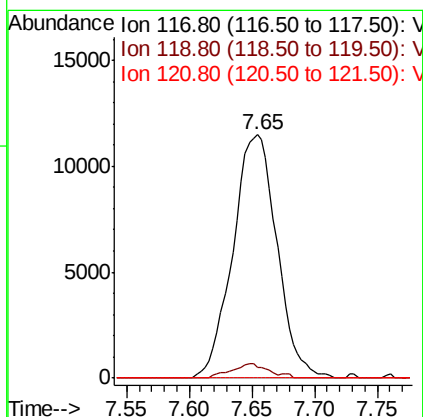
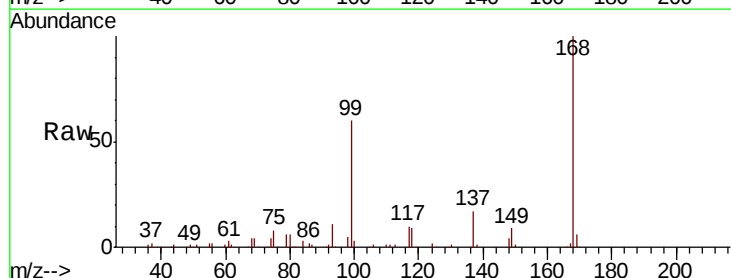
Instrument :
 MSVOA_N
 ClientSampled :
 T11-D1-(4)

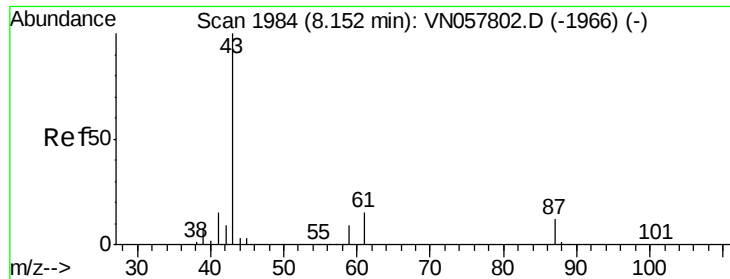
Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.4	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.734 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057963.D
 Acq: 12 Sep 2019 12:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 3.199 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

Instrument :

MSVOA_N

ClientSampleId :

T11-D1-(4)

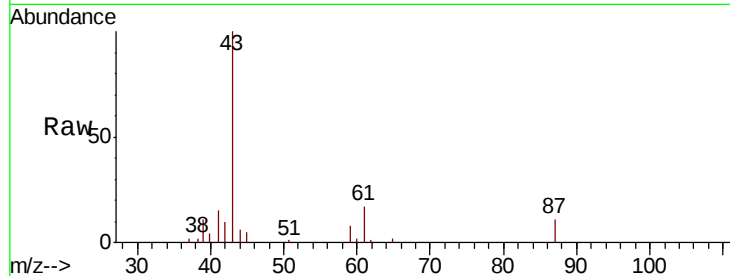
Tgt Ion: 43 Resp: 29744

Ion Ratio Lower Upper

43 100

61 18.5 20.1 30.1#

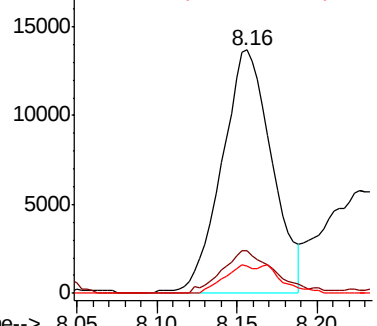
87 7.4 9.5 14.3#



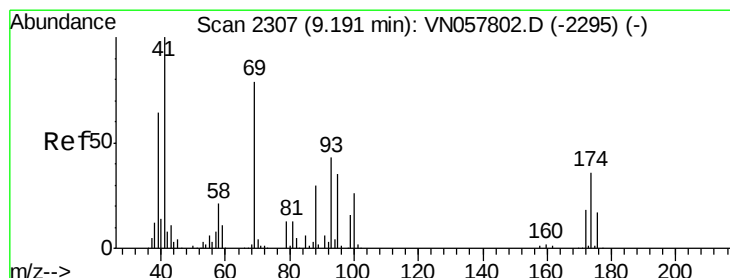
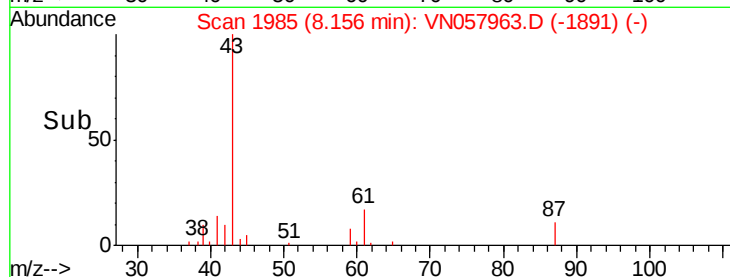
Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)



Time-->



#48

Methyl methacrylate

Concen: 1.025 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

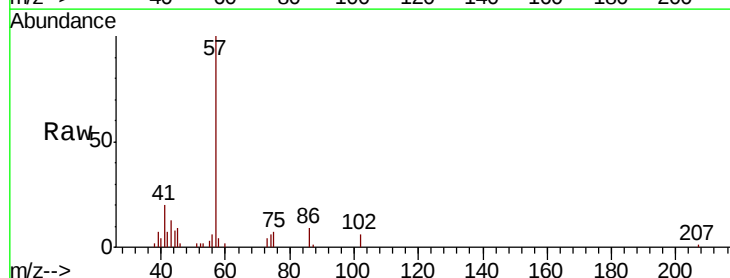
Tgt Ion: 41 Resp: 4834

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

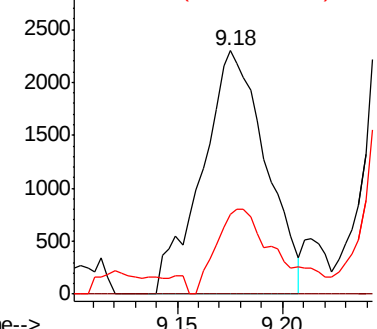
39 33.1 52.7 79.1#



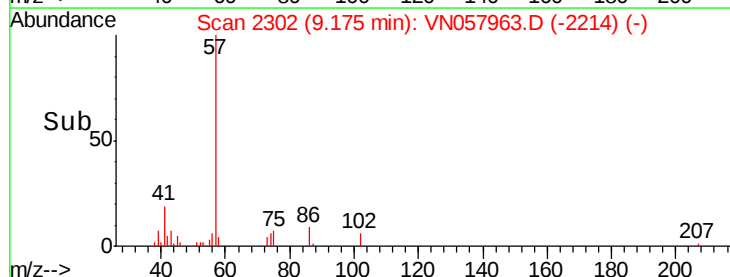
Abundance Ion 41.00 (40.70 to 41.70): VN057802.D (-2295) (-)

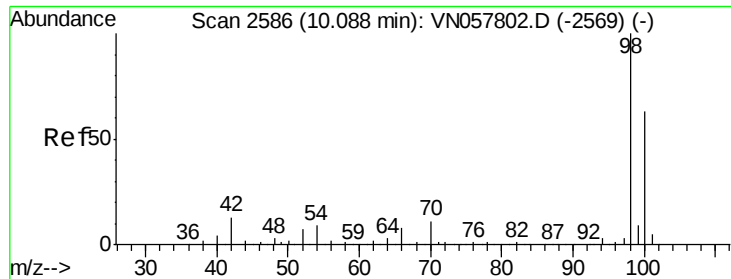
Ion 69.00 (68.70 to 69.70): VN057802.D (-2295) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2295) (-)



Time-->

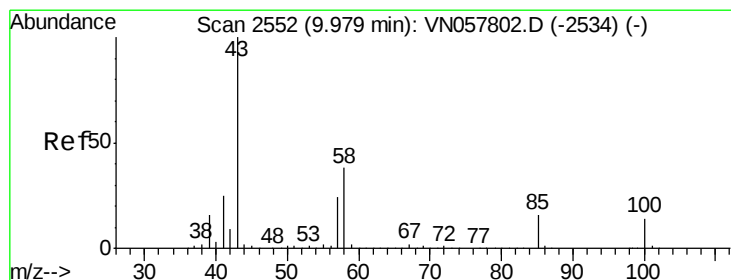
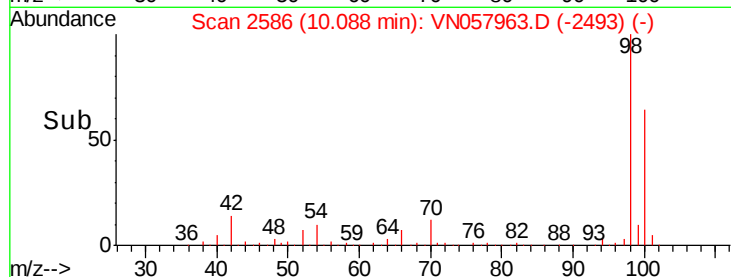
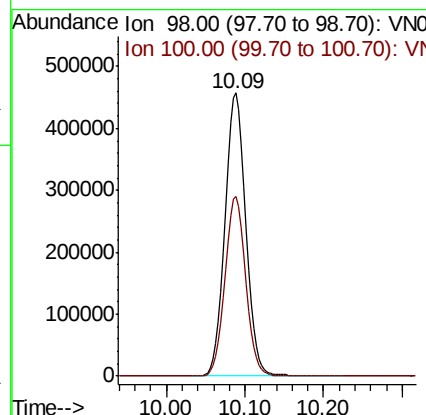
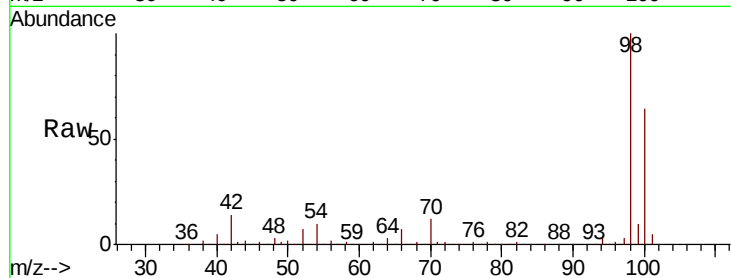




#50
Toluene-d8
Concen: 50.459 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057963.D
Acq: 12 Sep 2019 12:20

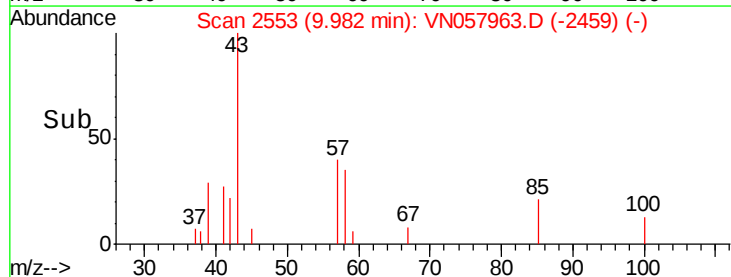
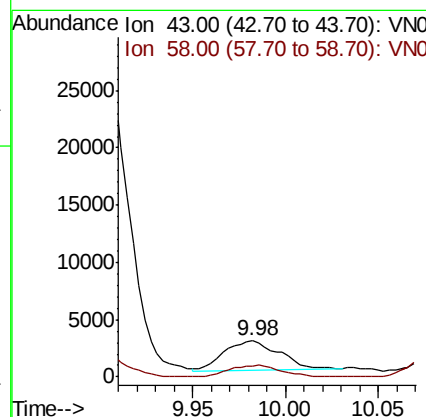
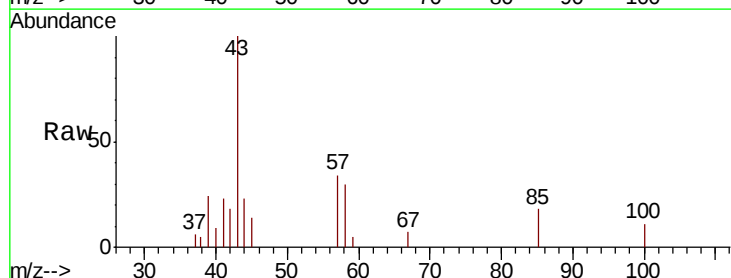
Instrument :
MSVOA_N
ClientSampled :
T11-D1-(4)

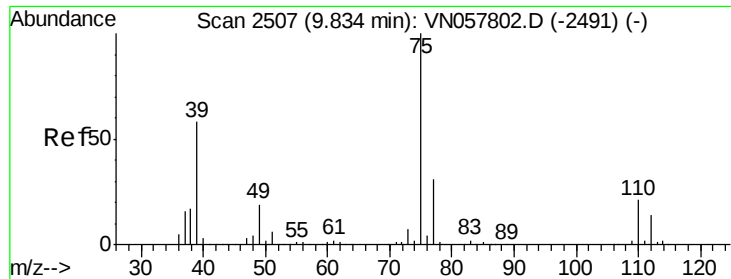
Tgt Ion: 98 Resp: 834285
Ion Ratio Lower Upper
98 100
100 63.1 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 0.972 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN057963.D
Acq: 12 Sep 2019 12:20

Tgt Ion: 43 Resp: 5350
Ion Ratio Lower Upper
43 100
58 36.5 29.8 44.6

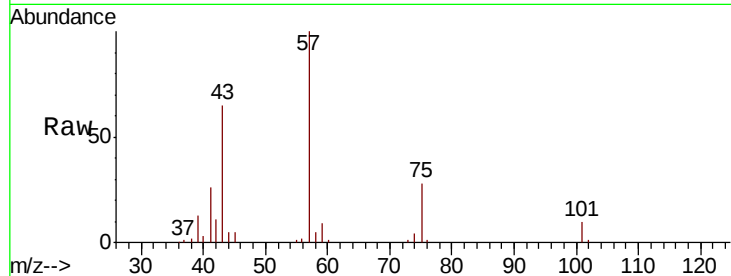




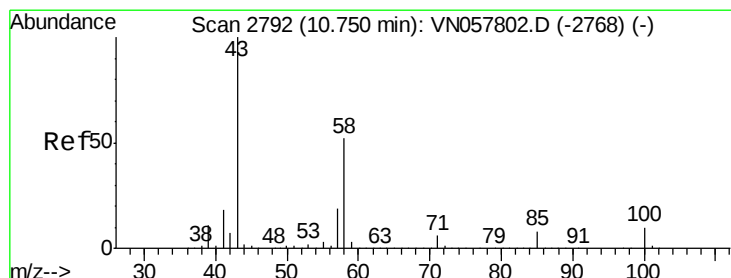
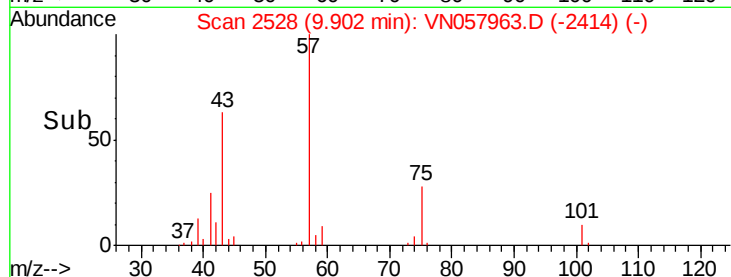
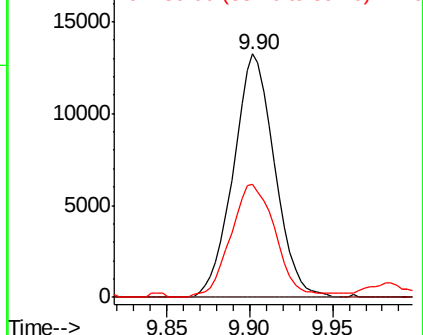
#54
 cis-1,3-Dichloropropene
 Concen: 3.482 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057963.D
 Acq: 12 Sep 2019 12:20

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D1-(4)

Tgt Ion: 75 Resp: 22903
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 46.6 46.2 69.4

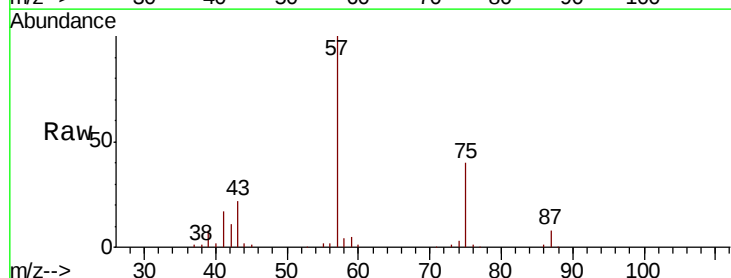


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0

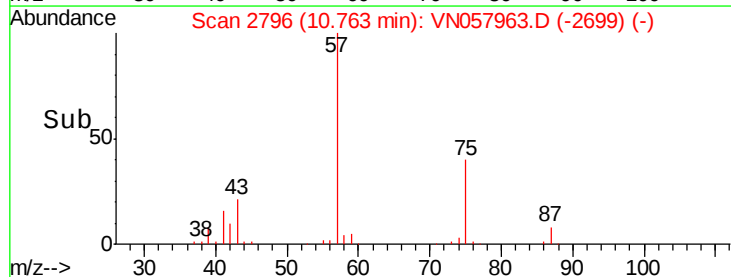
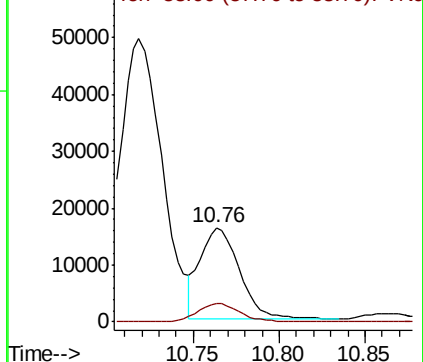


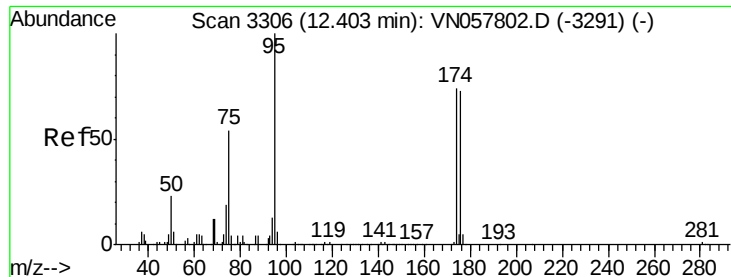
#59
 2-Hexanone
 Concen: 6.303 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057963.D
 Acq: 12 Sep 2019 12:20

Tgt Ion: 43 Resp: 25993
 Ion Ratio Lower Upper
 43 100
 58 21.2 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.065 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

Instrument :

MSVOA_N

ClientSampleId :

T11-D1-(4)

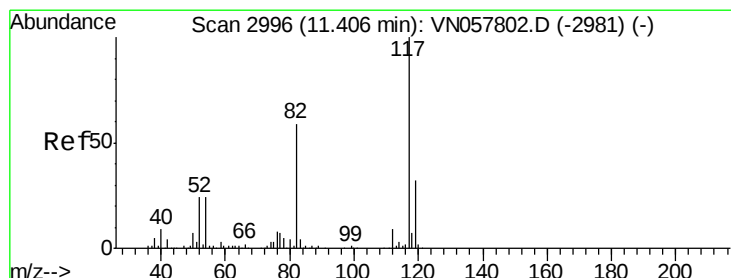
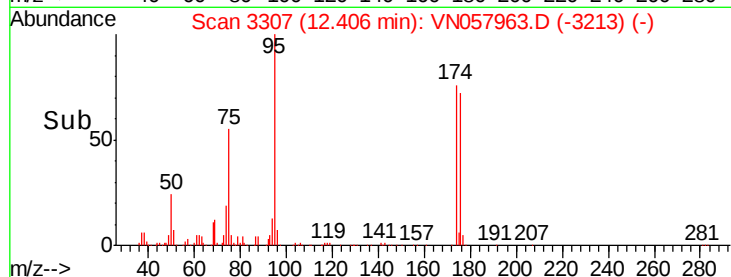
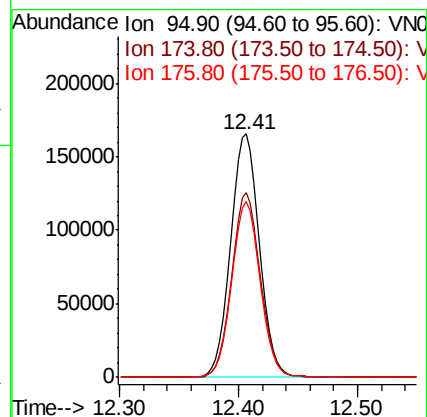
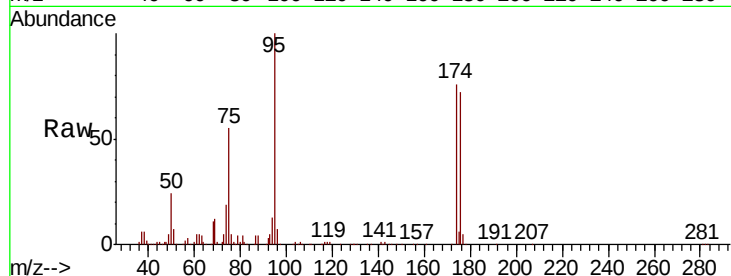
Tgt Ion: 95 Resp: 277645

Ion Ratio Lower Upper

95 100

174 75.7 0.0 150.2

176 71.4 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

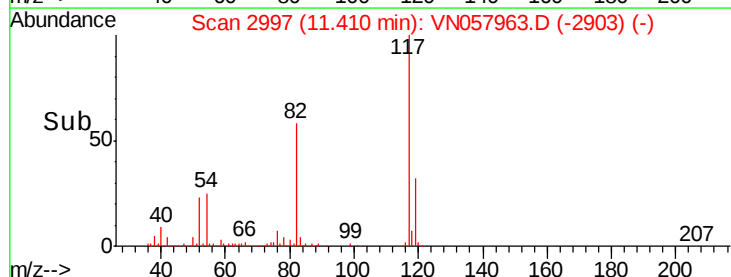
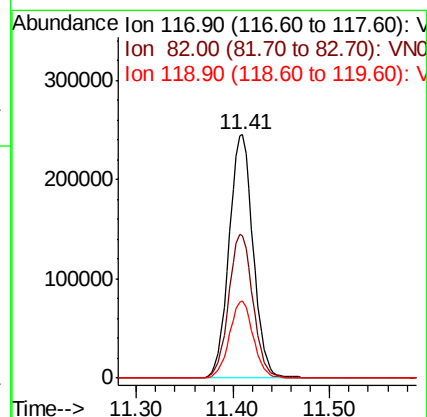
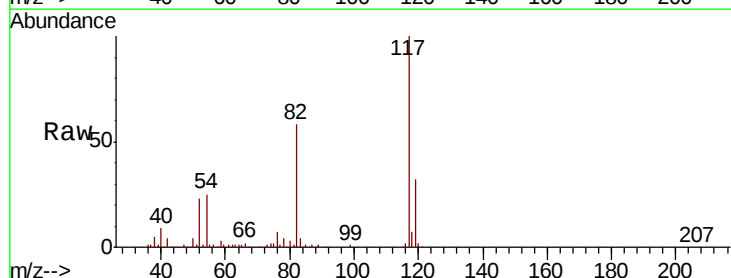
Tgt Ion: 117 Resp: 423900

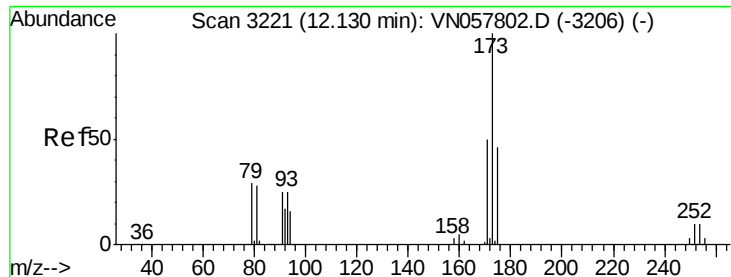
Ion Ratio Lower Upper

117 100

82 58.3 47.2 70.8

119 31.7 25.3 37.9





#71

Bromoform

Concen: 0.322 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

Instrument :

MSVOA_N

ClientSampleId :

T11-D1-(4)

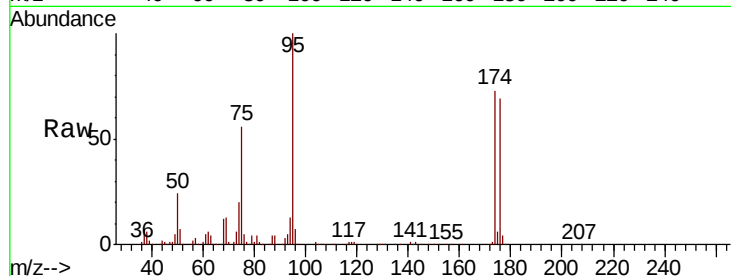
Tgt Ion:173 Resp: 772

Ion Ratio Lower Upper

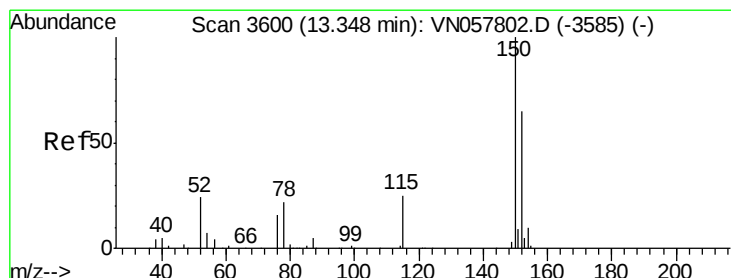
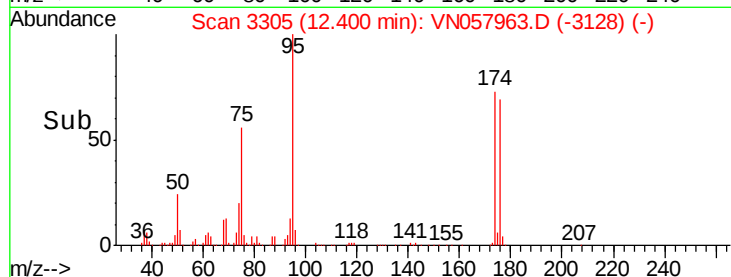
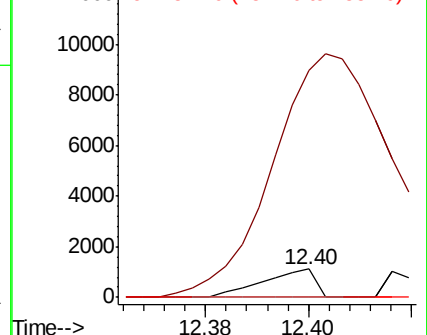
173 100

175 1757.0 23.5 70.6#

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# 3600

Delta R.T. 0.00 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

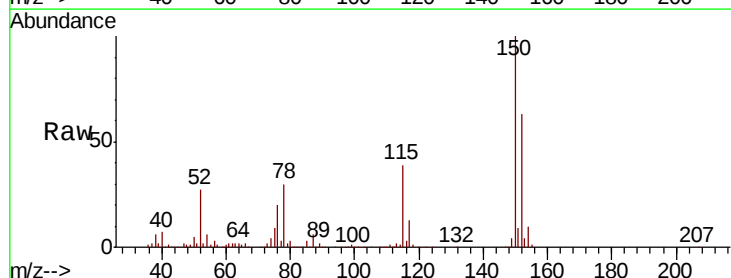
Tgt Ion:152 Resp: 221409

Ion Ratio Lower Upper

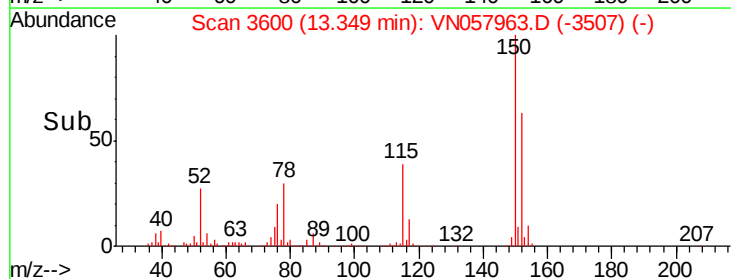
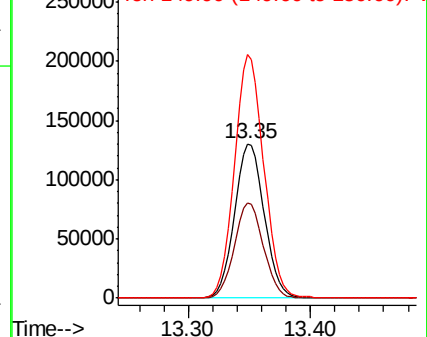
152 100

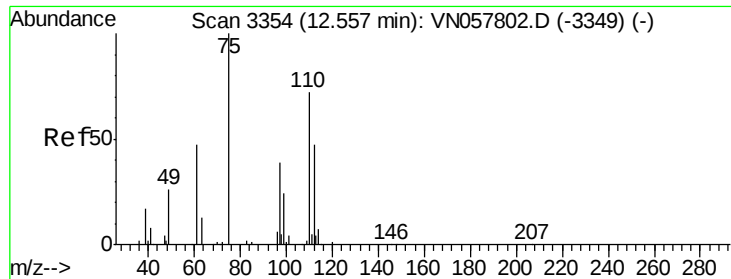
115 60.5 30.3 91.0

150 155.6 0.0 352.4



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

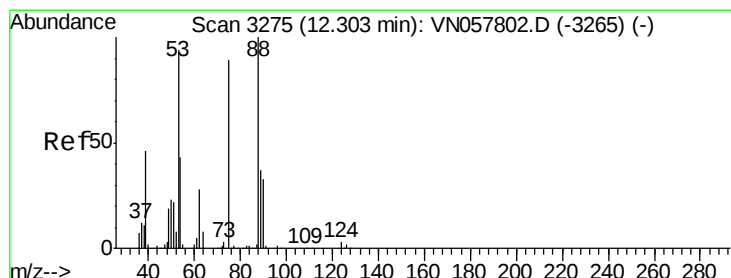
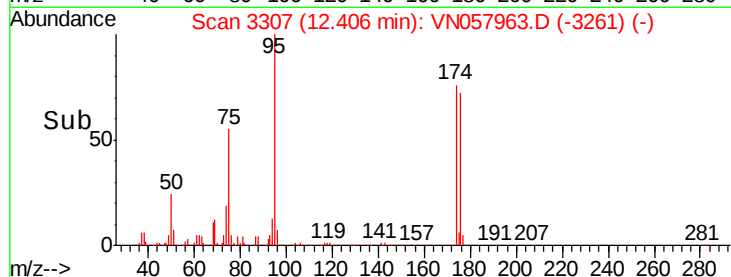
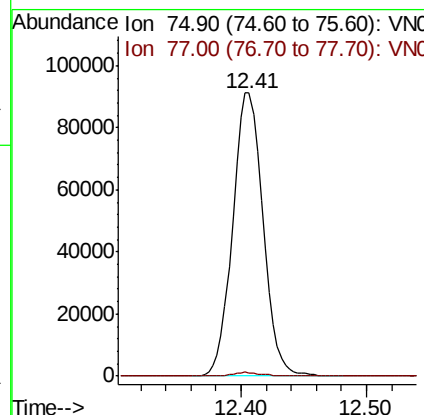
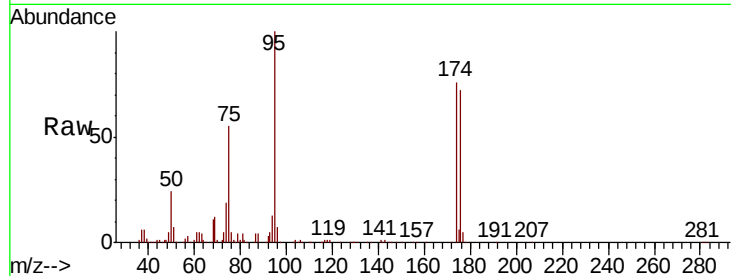




#76
 1,2,3-Trichloropropane
 Concen: 30.617 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN057963.D
 Acq: 12 Sep 2019 12:20

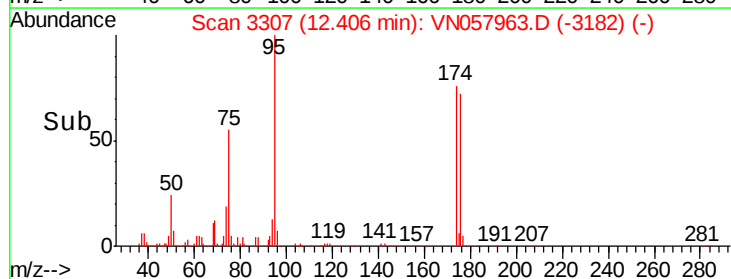
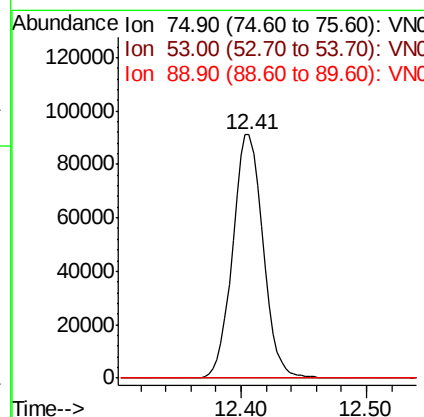
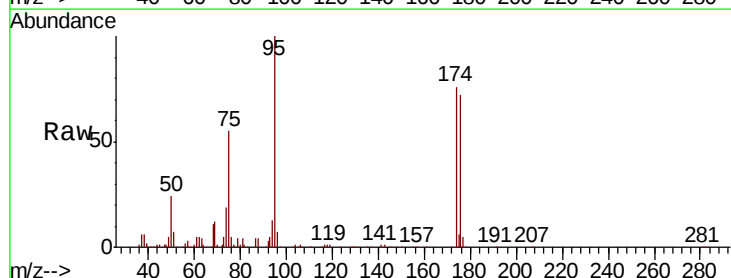
Instrument :
 MSVOA_N
 ClientSampled :
 T11-D1-(4)

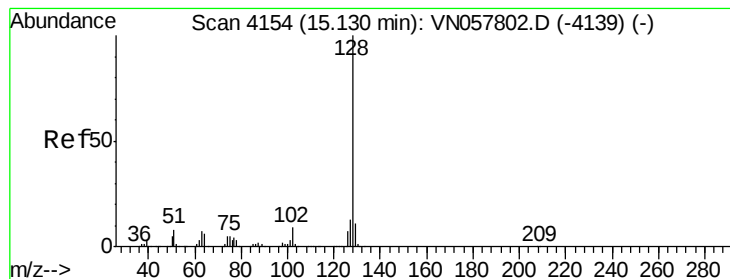
Tgt Ion: 75 Resp: 153349
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.741 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN057963.D
 Acq: 12 Sep 2019 12:20

Tgt Ion: 75 Resp: 153349
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

Instrument :

MSVOA_N

ClientSampleId :

T11-D1-(4)

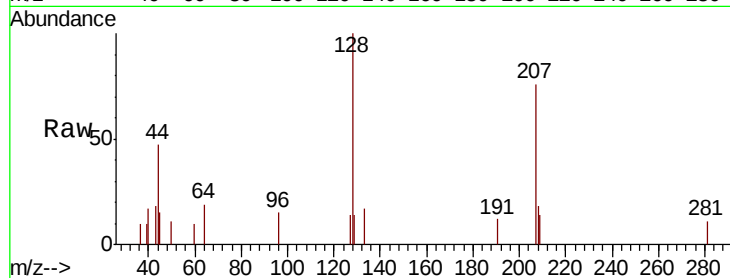
Tgt Ion:128 Resp: 2732

Ion Ratio Lower Upper

128 100

127 4.3 10.3 15.5#

129 5.4 8.6 12.8#



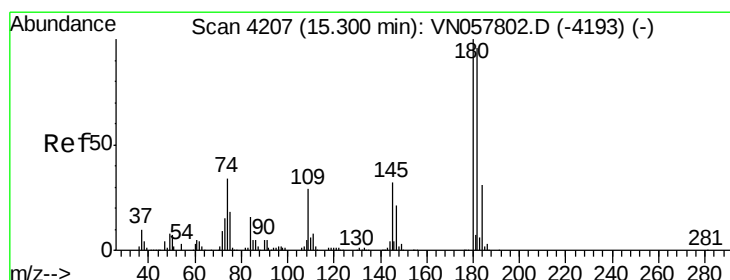
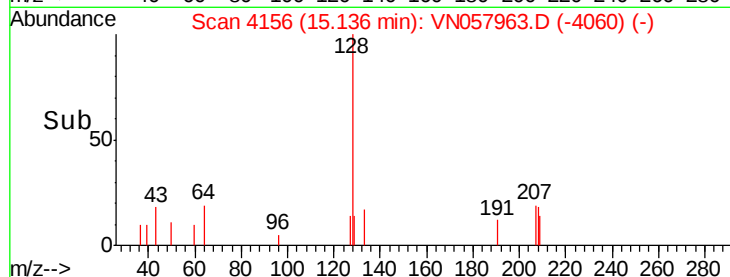
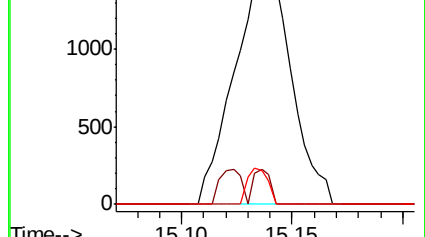
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.14

15.10 15.15



#96

1,2,3-Trichlorobenzene

Concen: 1.106 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057963.D

Acq: 12 Sep 2019 12:20

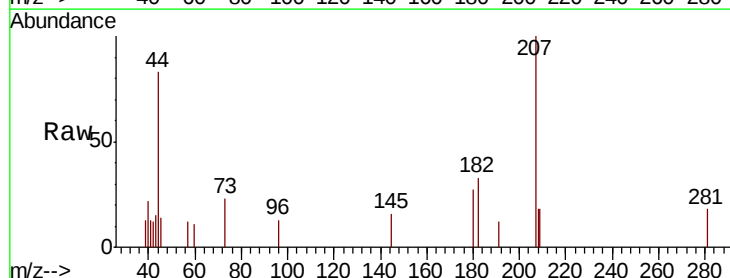
Tgt Ion:180 Resp: 491

Ion Ratio Lower Upper

180 100

182 103.9 48.3 144.8

145 31.2 16.3 48.8



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

15.30

15.28 15.32

