

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111219\
 Data File : VN059186.D
 Acq On : 12 Nov 2019 13:39
 Operator : JC/SP
 Sample : K5723-11
 Misc : 4.87µ/5mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 13 05:39:00 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	367787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	568543	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	491369	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	193997	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	234268	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
35) Dibromofluoromethane	7.56	113	178261	52.51	ug/l	0.00
Spiked Amount			Recovery	=	105.02%	
50) Toluene-d8	10.08	98	690158	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
62) 4-Bromofluorobenzene	12.40	95	214042	44.40	ug/l	0.00
Spiked Amount			Recovery	=	88.80%	

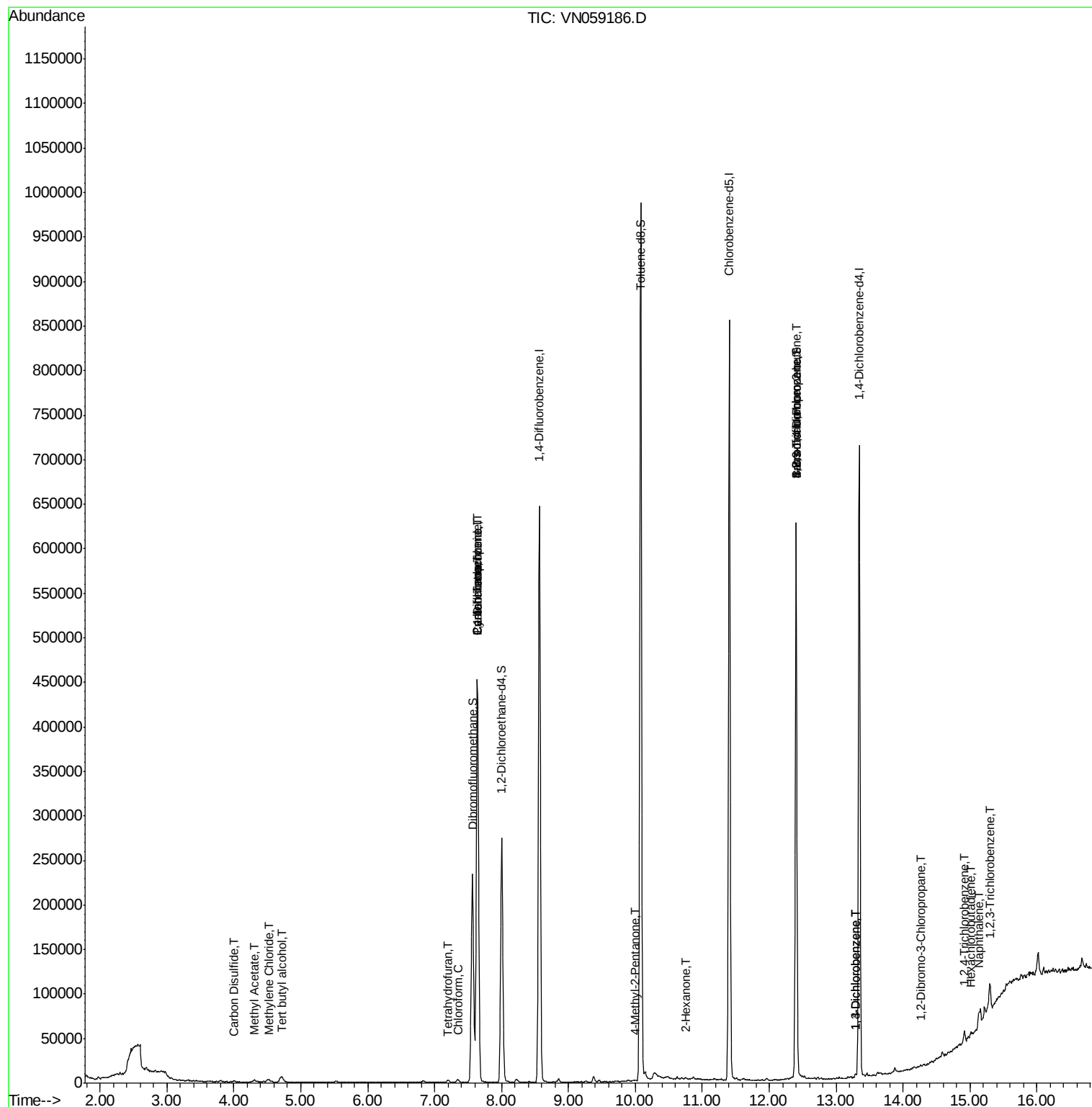
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	6661	7.731	ug/l #	72
17) Carbon Disulfide	4.00	76	2892	0.272	ug/l #	83
18) Methyl Acetate	4.31	43	3349	0.600	ug/l #	72
20) Methylene Chloride	4.52	84	1666	0.407	ug/l #	78
29) Tetrahydrofuran	7.19	42	1069	0.543	ug/l #	76
30) Chloroform	7.34	83	3360	0.471	ug/l #	79
31) Cyclohexane	7.64	56	7691	1.093	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	28916	5.441	ug/l #	46
38) Carbon Tetrachloride	7.64	117	34647	6.550	ug/l #	17
51) 4-Methyl-2-Pentanone	9.98	43	1211	0.227	ug/l #	36
59) 2-Hexanone	10.75	43	1361	0.332	ug/l	95
71) Bromoform	12.41	173	1182	0.423	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	108086	24.472	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	108086	64.638	ug/l #	13
87) 1,3-Dichlorobenzene	13.29	146	1234	0.203	ug/l	97
88) 1,4-Dichlorobenzene	13.29	146	1234	0.203	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.26	75	425	0.469	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	3425	3.934	ug/l	92
94) Hexachlorobutadiene	15.00	225	640	0.311	ug/l	77
95) Naphthalene	15.13	128	11141	4.086	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	3887	1.161	ug/l	93

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

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QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

Instrument :

MSVOA_N

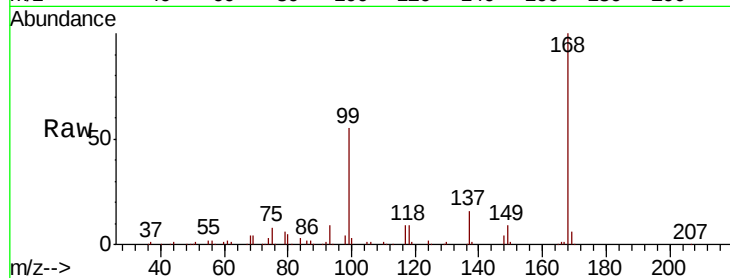
ClientSampled :

Tot Ion:168 Resp: 367787

Ion Ratio Lower Upper

168 100

99 55.2 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059095.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN059095.D (-1806) (-)

7.64

150000

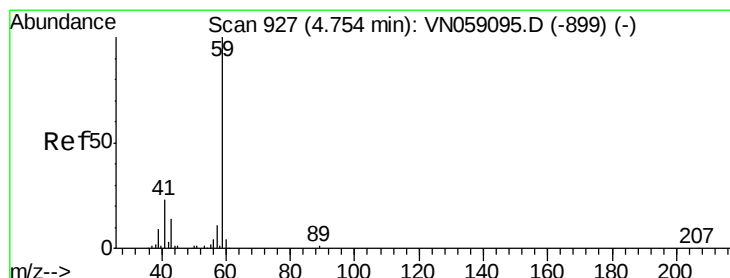
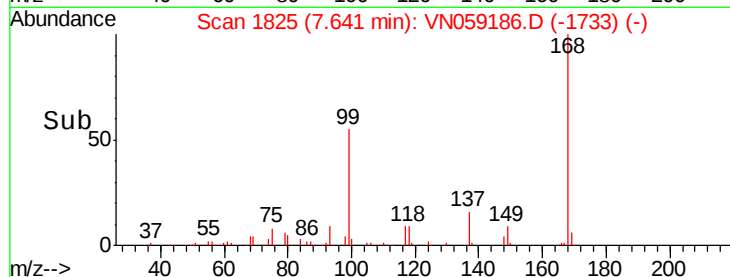
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 7.731 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.04 min

Lab File: VN059186.D

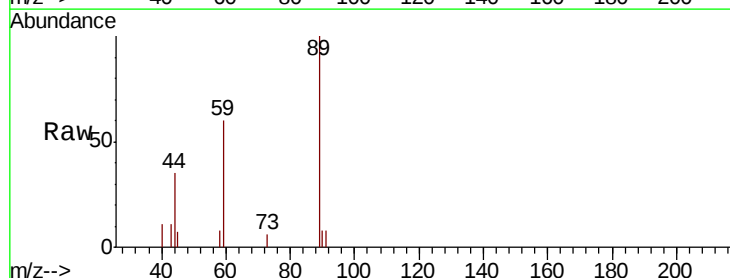
Acq: 12 Nov 2019 13:39

Tgt Ion: 59 Resp: 6661

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN059095.D (-899) (-)

Ion 57.00 (56.70 to 57.70): VN059095.D (-899) (-)

4.71

2000

1500

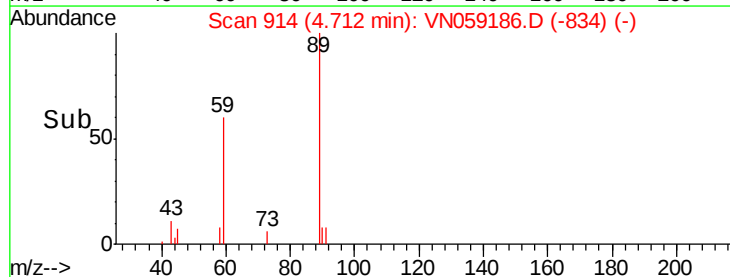
1000

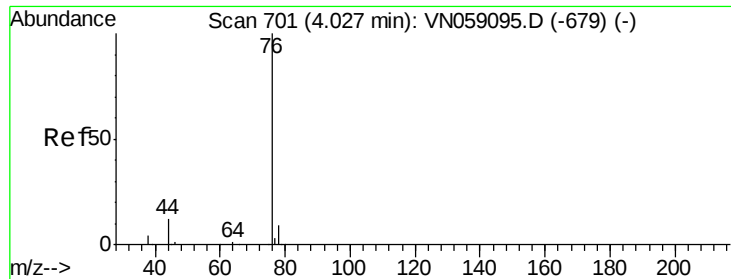
500

0

4.60 4.70 4.80

Time-->

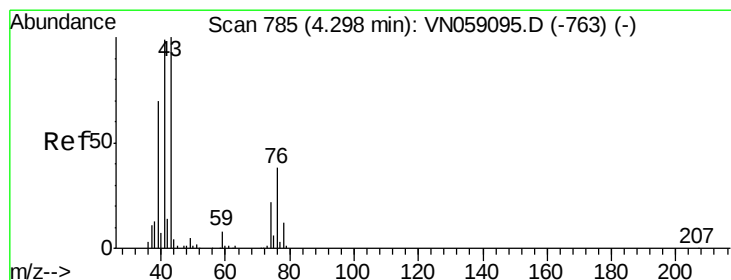
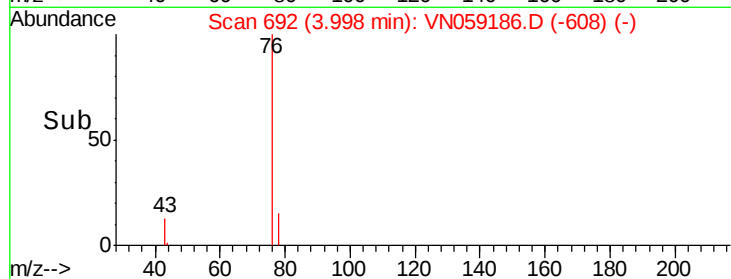
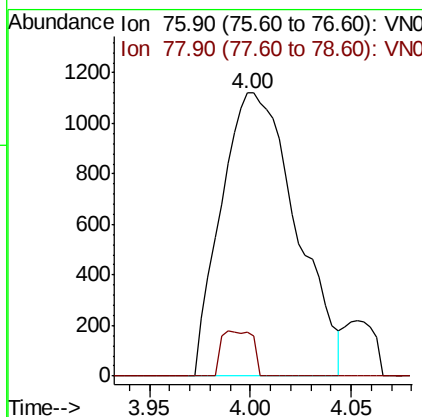
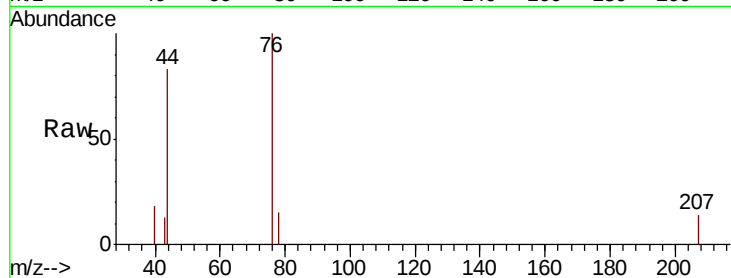




#17
Carbon Disulfide
Concen: 0.272 ug/l
RT: 4.00 min Scan# 692
Delta R.T. -0.03 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

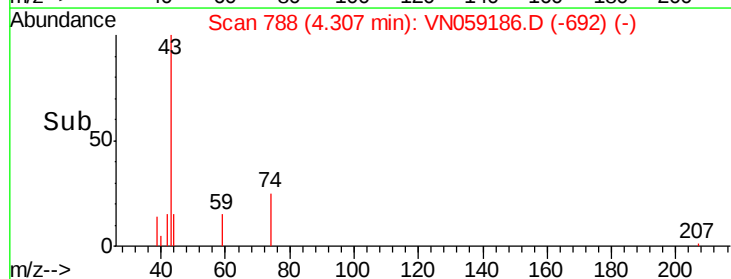
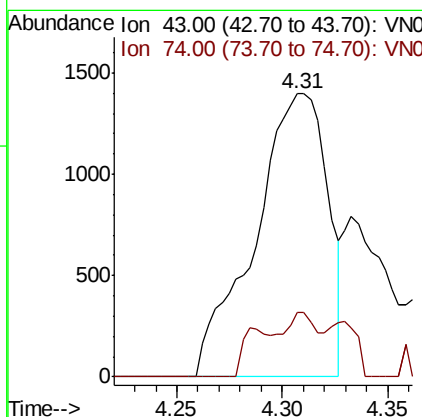
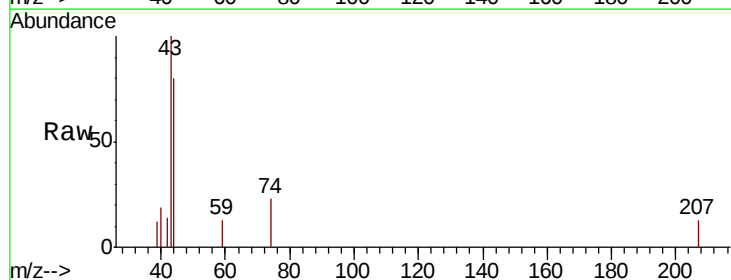
Instrument :
MSVOA_N
ClientSampled :

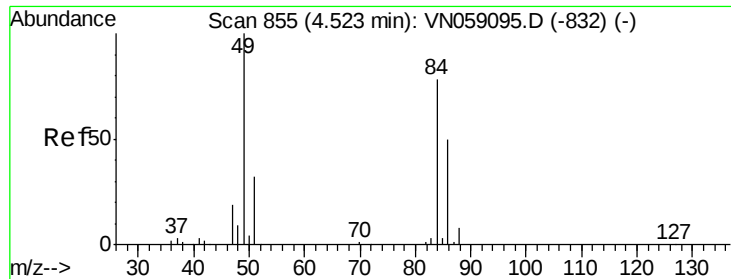
Tot Ion: 76 Resp: 2892
Ion Ratio Lower Upper
76 100
78 15.4 7.4 11.0#



#18
Methyl Acetate
Concen: 0.600 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

Tgt Ion: 43 Resp: 3349
Ion Ratio Lower Upper
43 100
74 9.1 17.8 26.8#

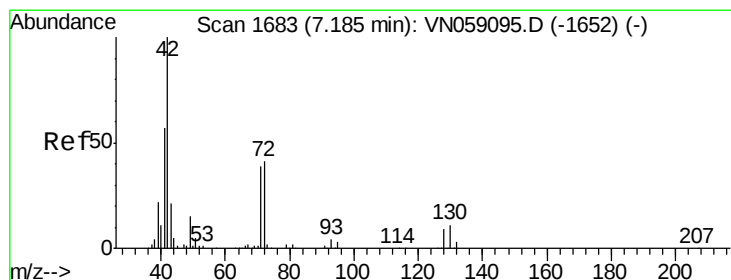
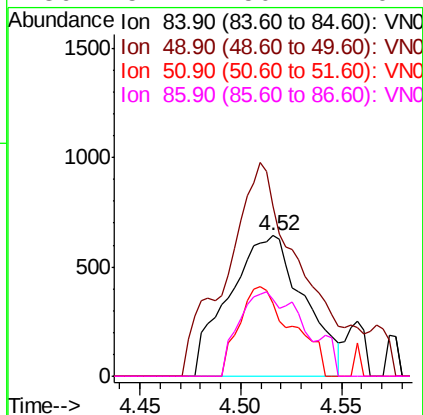
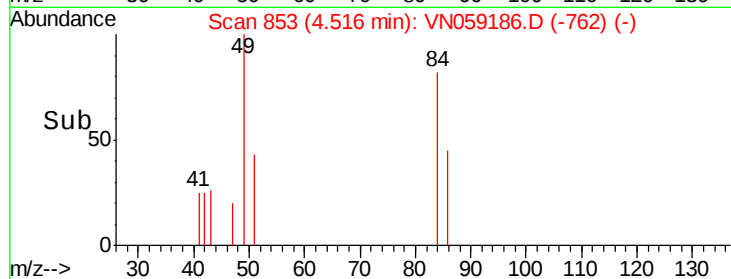
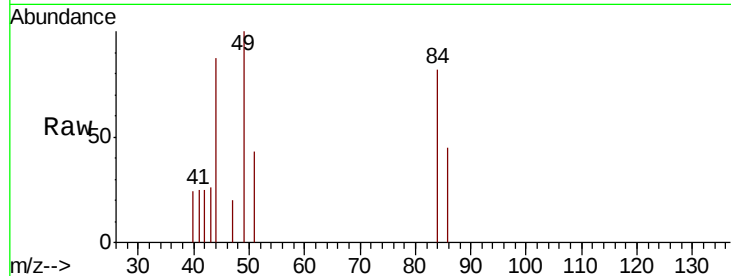




#20
Methvlene Chloride
Concen: 0.407 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

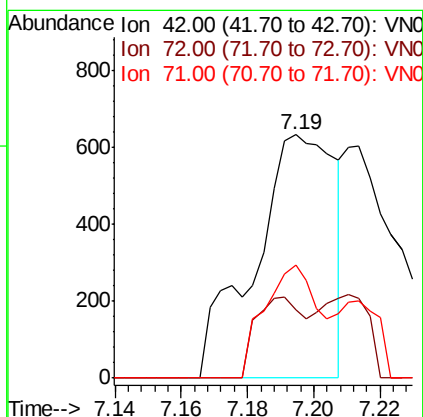
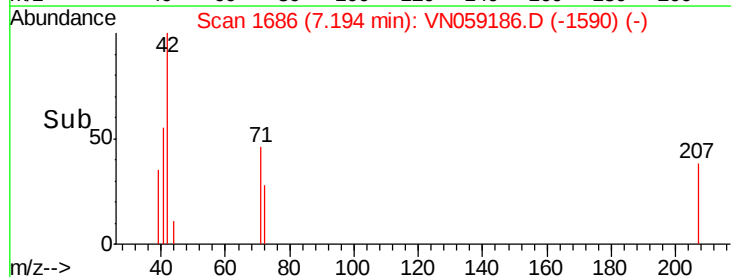
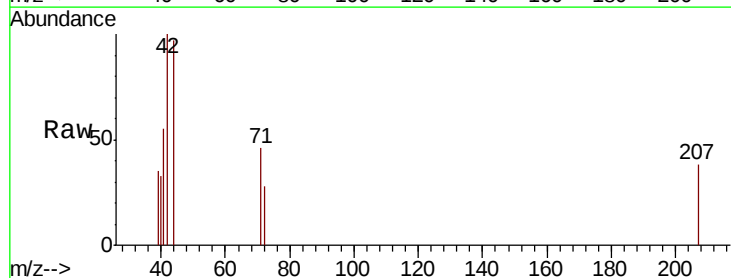
Instrument :
MSVOA_N
ClientSampled :

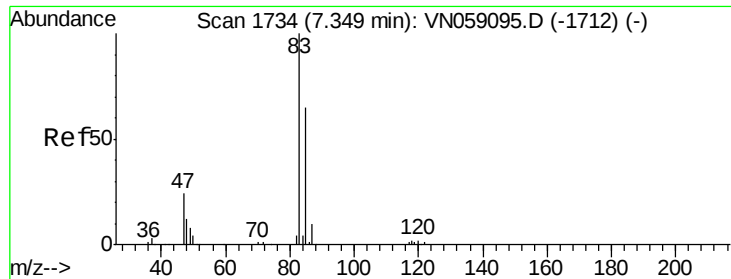
Tot Ion: 84 Resp: 1666
Ion Ratio Lower Upper
84 100
49 95.0 102.0 153.0#
51 51.8 32.2 48.2#
86 54.7 50.7 76.1



#29
Tetrahydrofuran
Concen: 0.543 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

Tgt Ion: 42 Resp: 1069
Ion Ratio Lower Upper
42 100
72 19.5 33.1 49.7#
71 30.7 30.9 46.3#

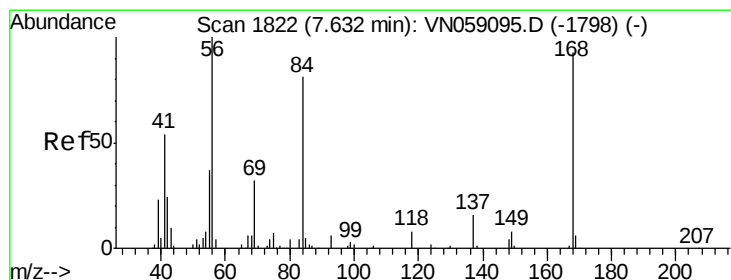
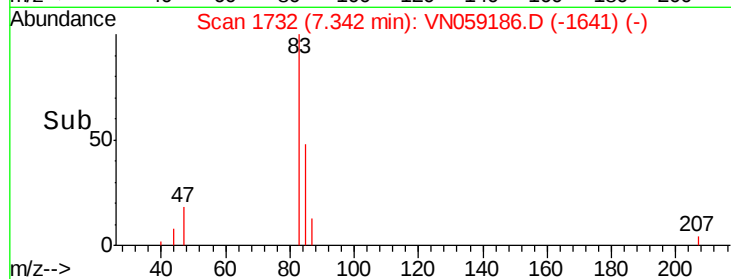
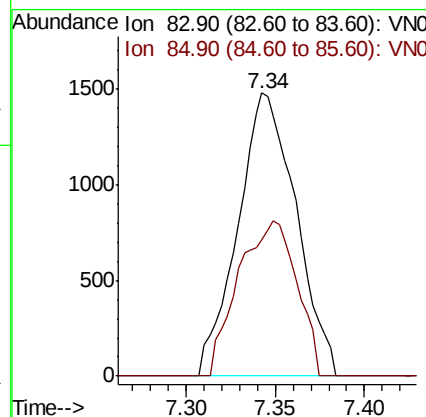
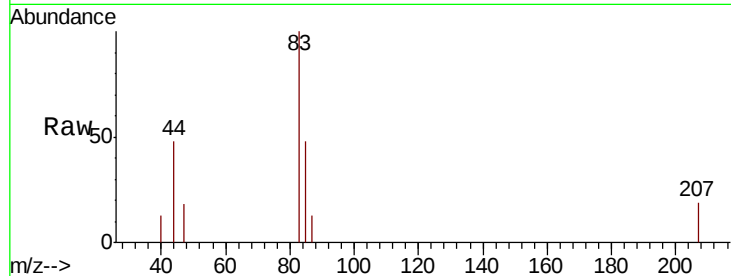




#30
Chloroform
Concen: 0.471 ug/l
RT: 7.34 min Scan# 1732
Delta R.T. -0.01 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

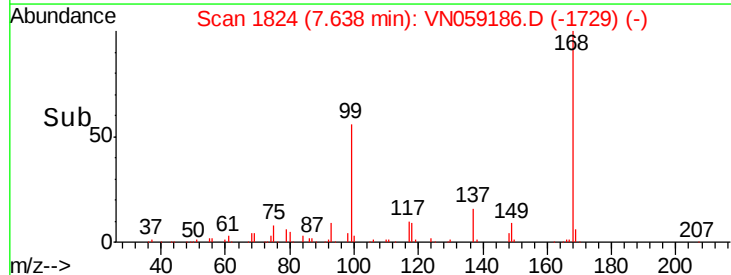
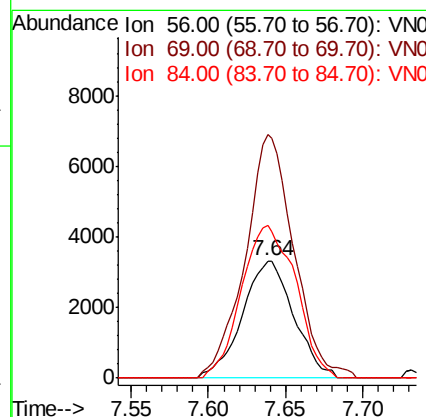
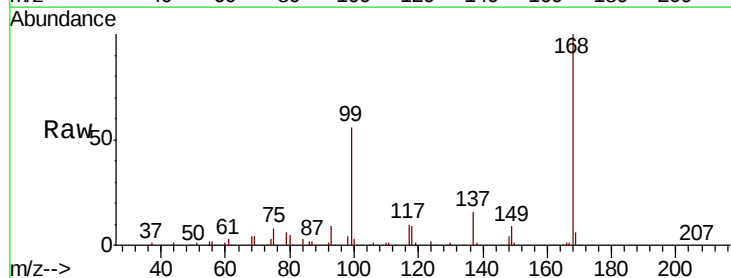
Instrument :
MSVOA_N
ClientSampleId :

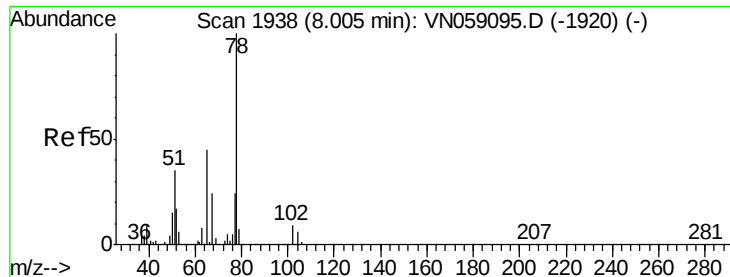
Tot Ion: 83 Resp: 3360
Ion Ratio Lower Upper
83 100
85 48.2 51.8 77.8#



#31
Cyclohexane
Concen: 1.093 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

Tgt Ion: 56 Resp: 7691
Ion Ratio Lower Upper
56 100
69 207.8 25.8 38.8#
84 129.9 65.0 97.4#

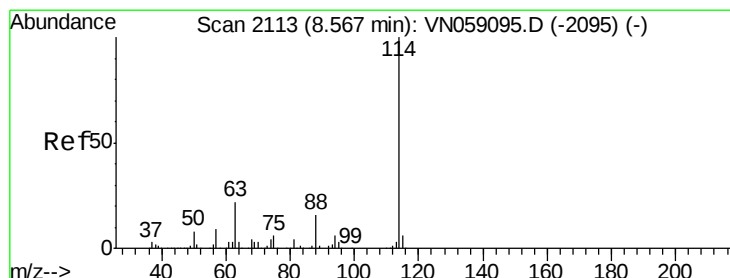
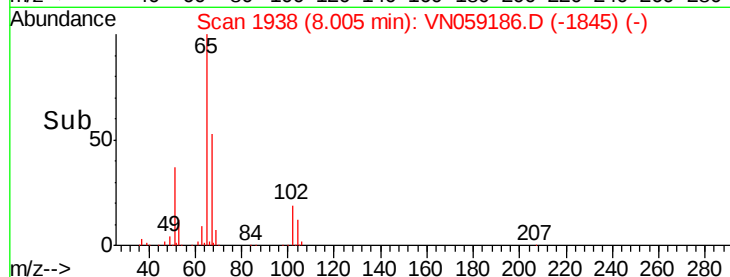
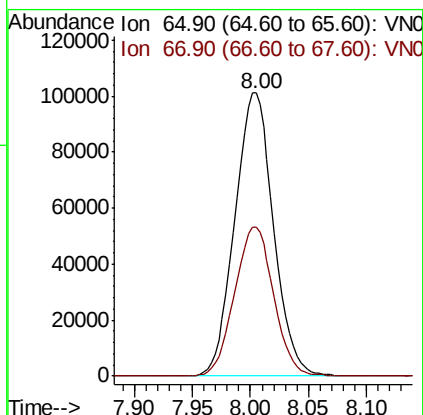
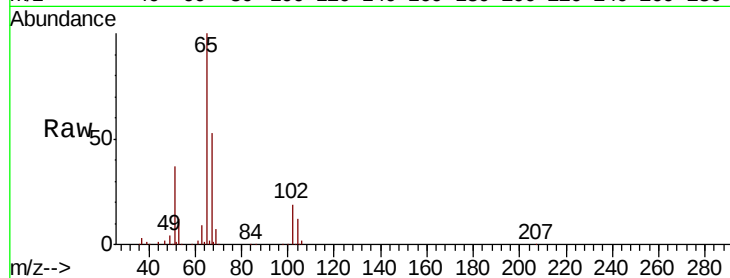




#33
 1,2-Dichloroethane-d4
 Concen: 51.817 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059186.D
 Acq: 12 Nov 2019 13:39

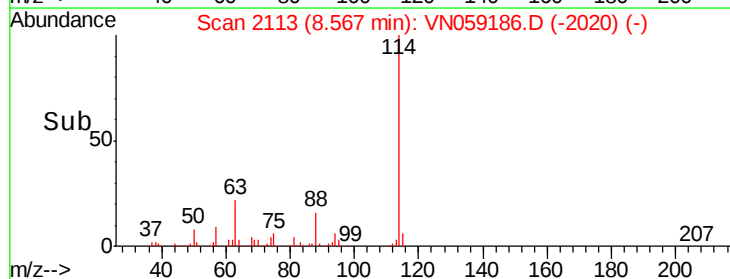
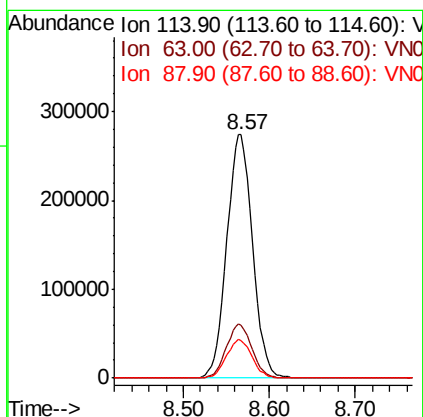
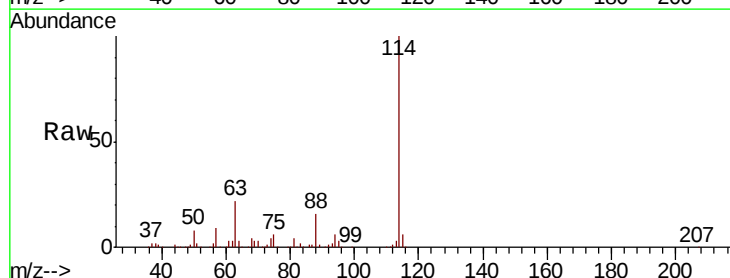
Instrument :
 MSVOA_N
 ClientSampleId :

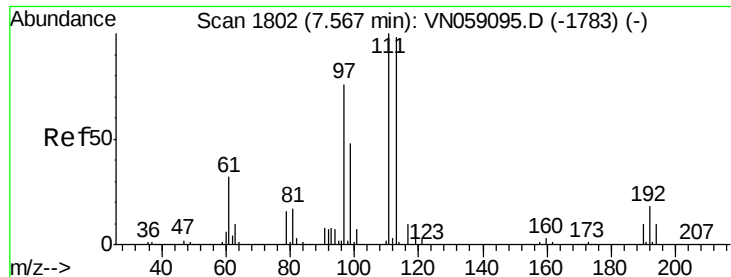
Tot Ion: 65 Resp: 234268
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059186.D
 Acq: 12 Nov 2019 13:39

Tgt Ion: 114 Resp: 568543
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.4
 88 15.6 0.0 32.2

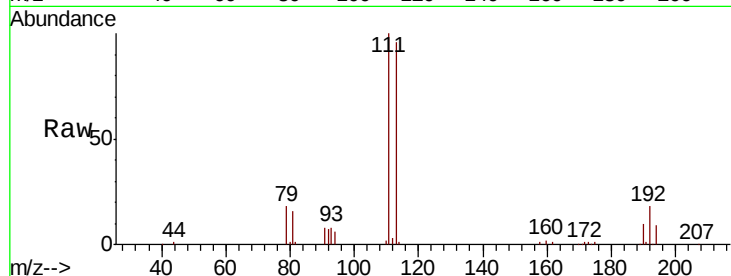




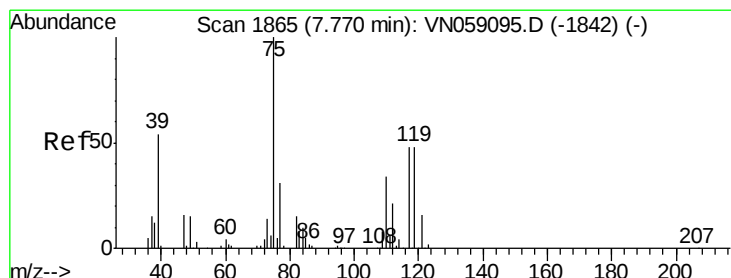
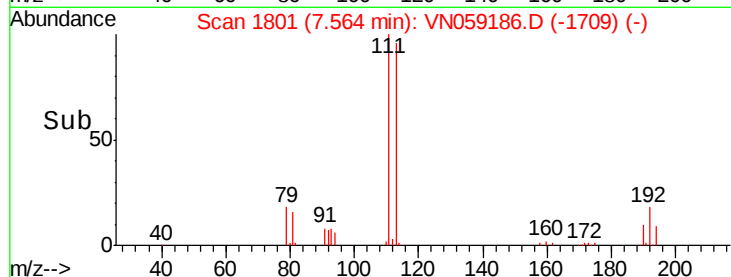
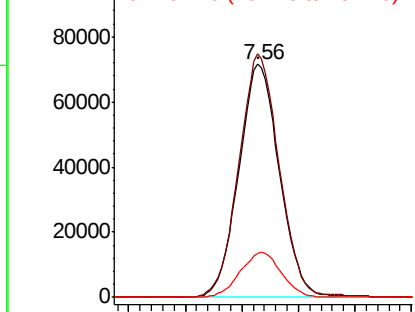
#35
Dibromofluoromethane
Concen: 52.511 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:113 Resp: 178261
Ion Ratio Lower Upper
113 100
111 104.2 82.8 124.2
192 19.6 16.1 24.1

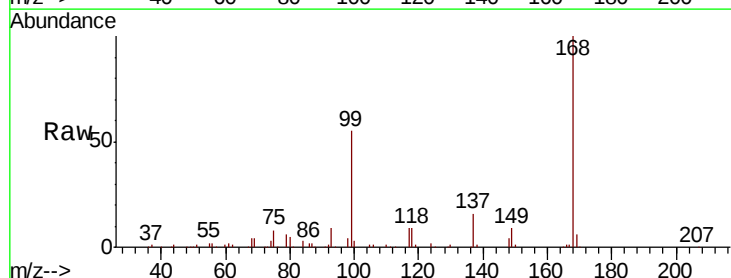


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

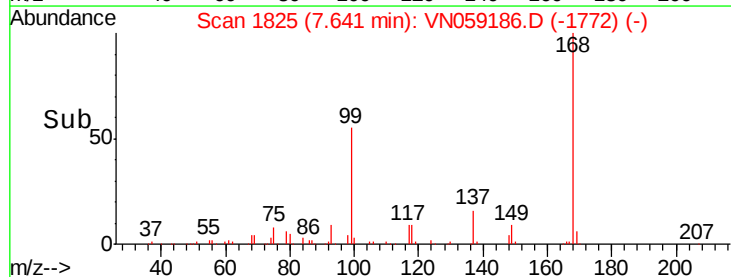
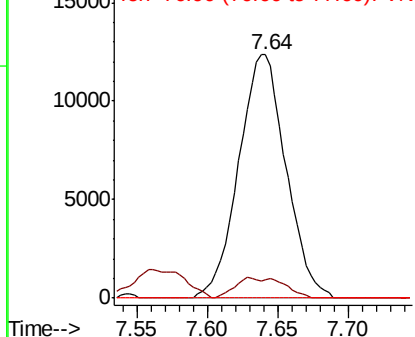


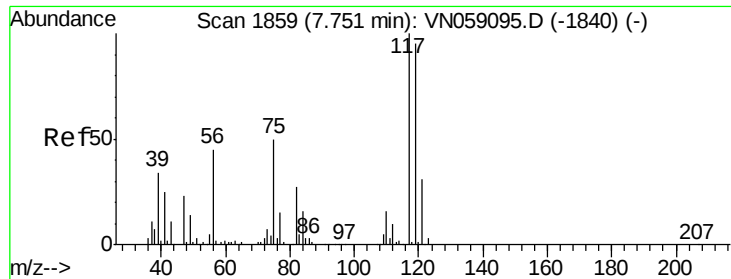
#36
1,1-Dichloropropene
Concen: 5.441 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.13 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

Tgt Ion: 75 Resp: 28916
Ion Ratio Lower Upper
75 100
110 4.6 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

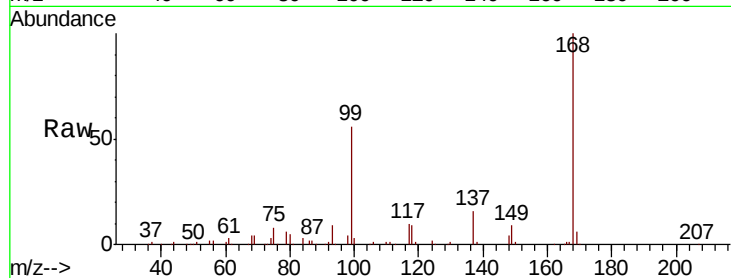




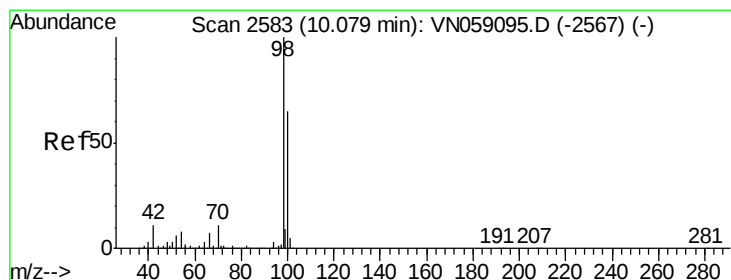
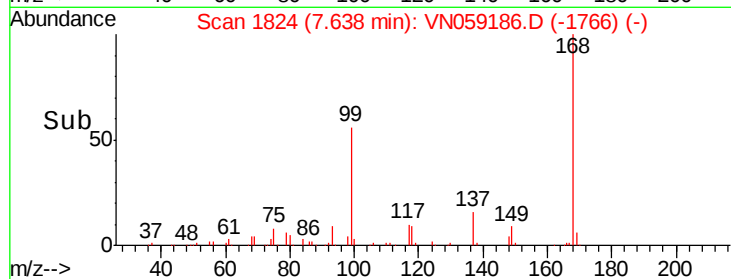
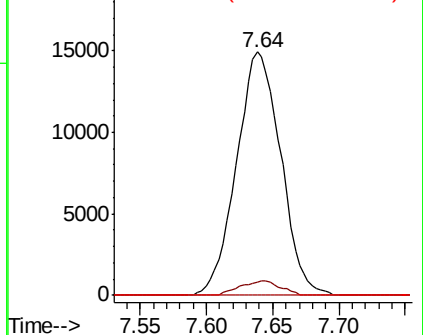
#38
Carbon Tetrachloride
Concen: 6.550 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 34647
Ion Ratio Lower Upper
117 100
119 5.4 75.6 113.4#
121 0.0 24.6 36.8#

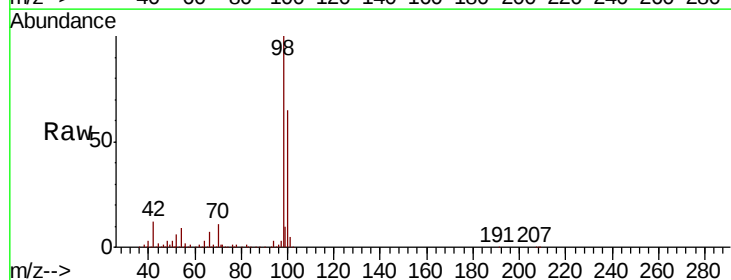


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

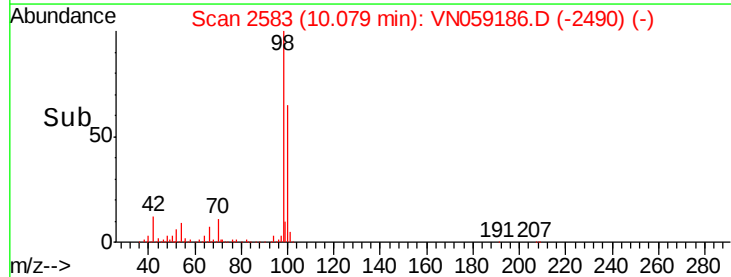
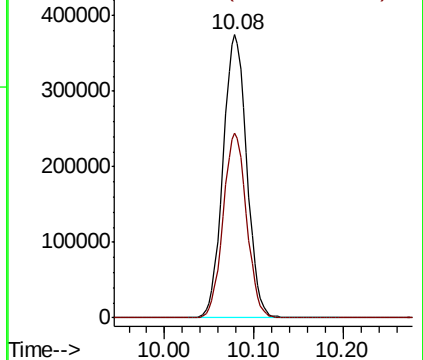


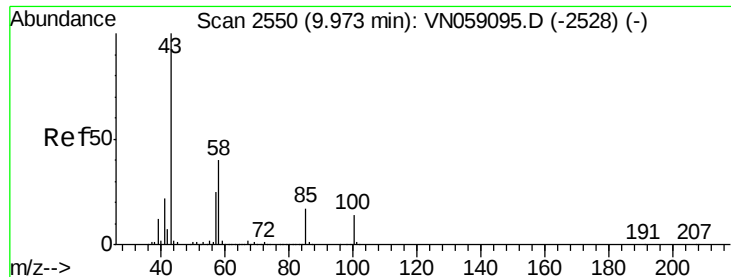
#50
Toluene-d8
Concen: 51.614 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

Tgt Ion: 98 Resp: 690158
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): V
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.227 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.01 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

Instrument :

MSVOA_N

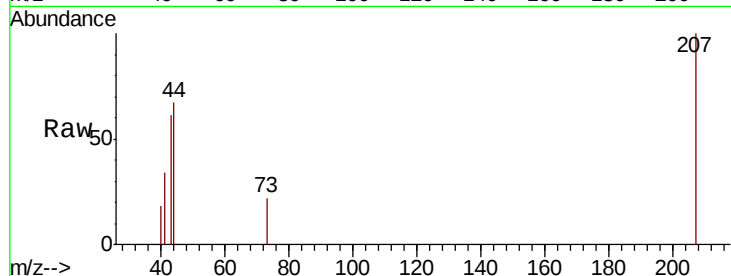
ClientSampled :

Tot Ion: 43 Resp: 1211

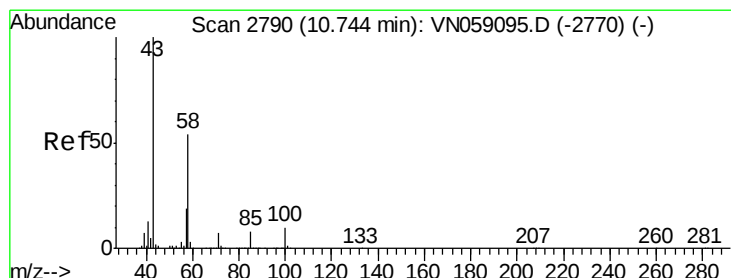
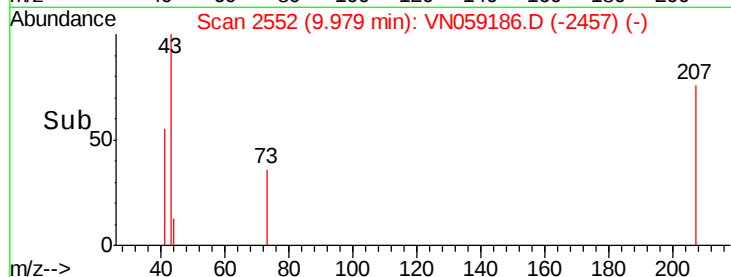
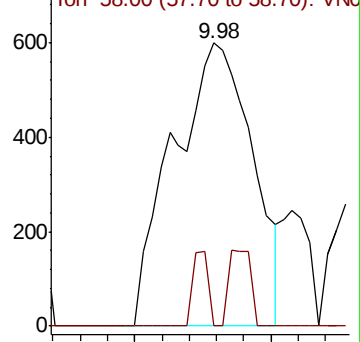
Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-2528) (-)



#59

2-Hexanone

Concen: 0.332 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN059186.D

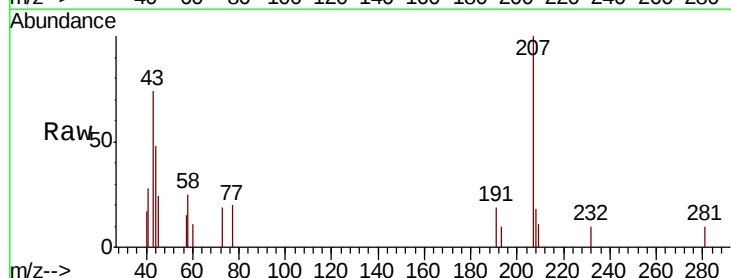
Acq: 12 Nov 2019 13:39

Tgt Ion: 43 Resp: 1361

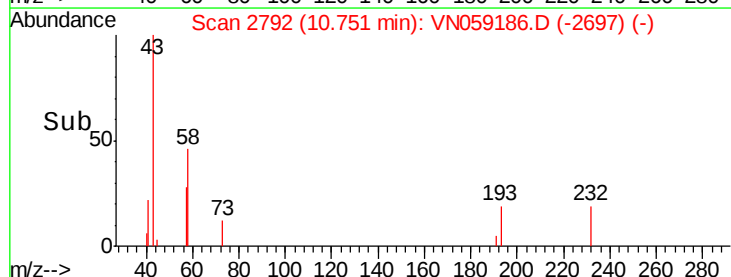
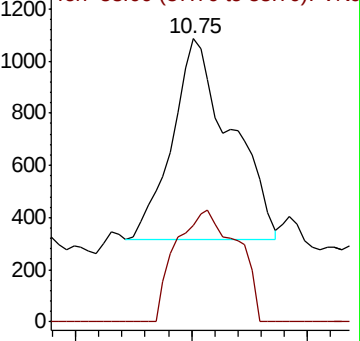
Ion Ratio Lower Upper

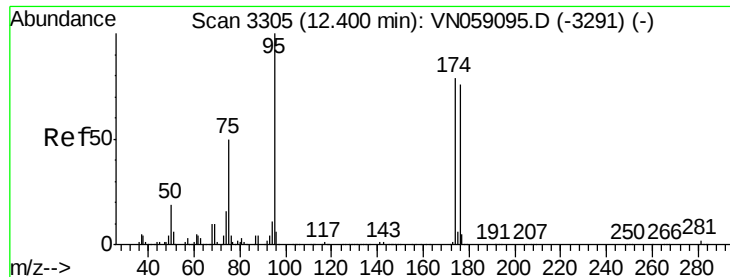
43 100

58 58.3 27.3 81.8



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-2770) (-)





#62

4-Bromofluorobenzene

Concen: 44.395 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

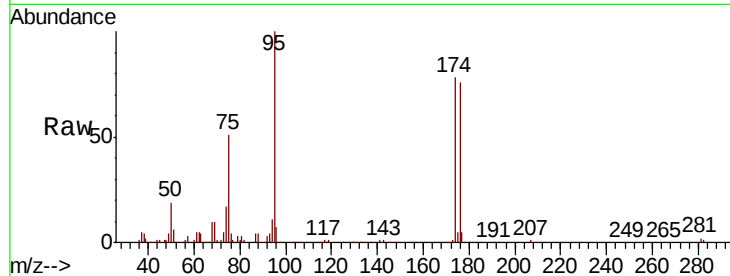
Tot Ion: 95 Resp: 214042

Ion Ratio Lower Upper

95 100

174 79.5 0.0 158.2

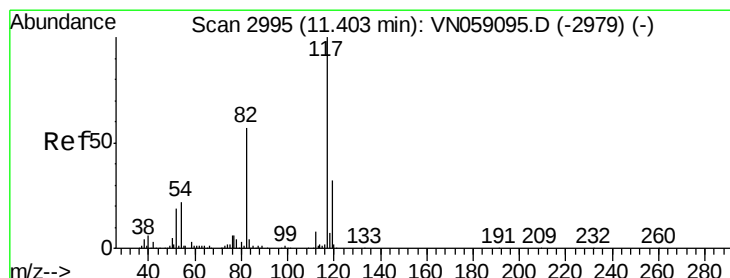
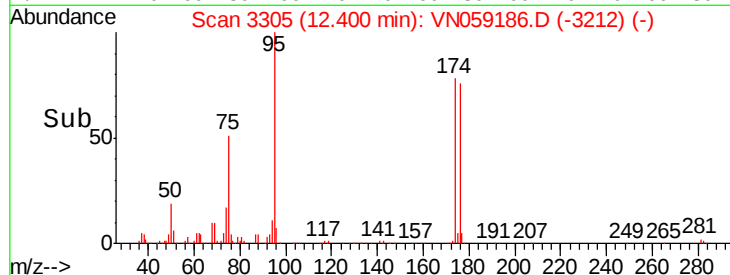
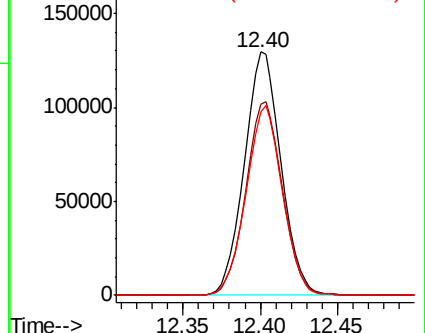
176 77.7 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN059095.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059095.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059095.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

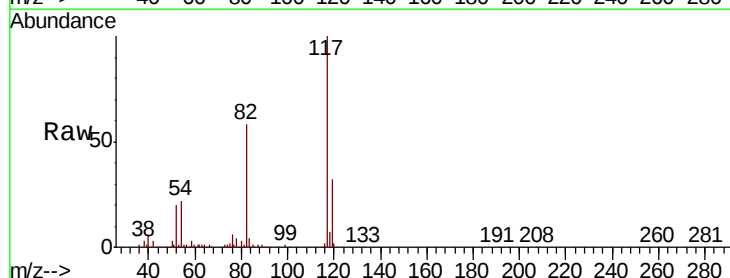
Tgt Ion: 117 Resp: 491369

Ion Ratio Lower Upper

117 100

82 57.9 45.8 68.8

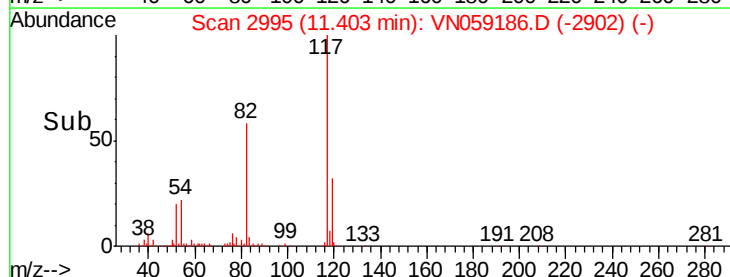
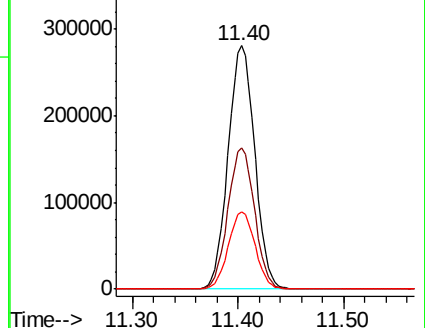
119 31.7 25.8 38.6

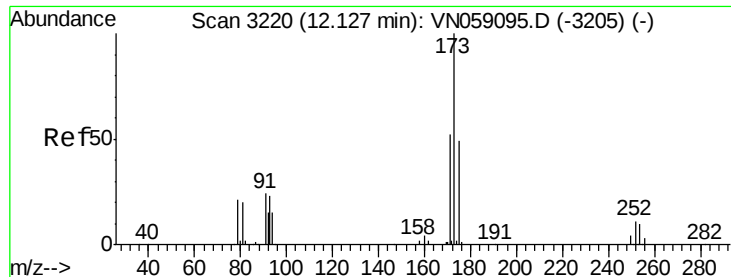


Abundance Ion 116.90 (116.60 to 117.60): VN059095.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059095.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059095.D (-2979) (-)





#71

Bromoform

Concen: 0.423 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

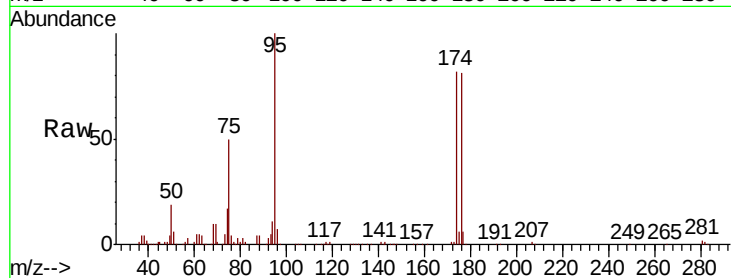
Tot Ion:173 Resp: 1182

Ion Ratio Lower Upper

173 100

175 888.7 24.2 72.6#

254 0.0 0.1 0.1#

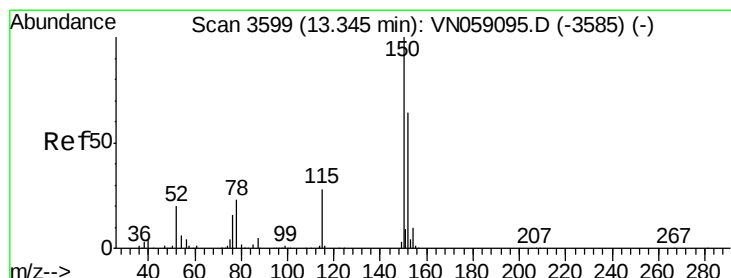
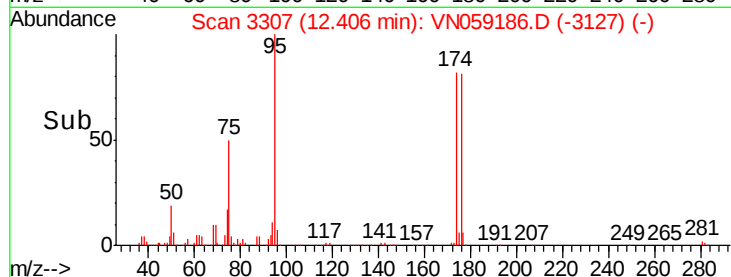
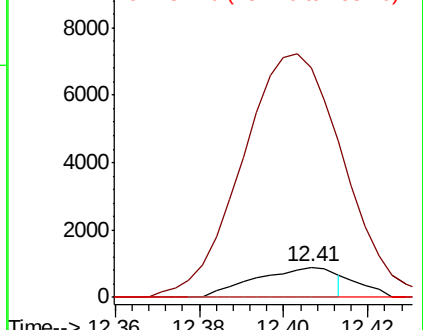


Abundance

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: VN059186.D

Acq: 12 Nov 2019 13:39

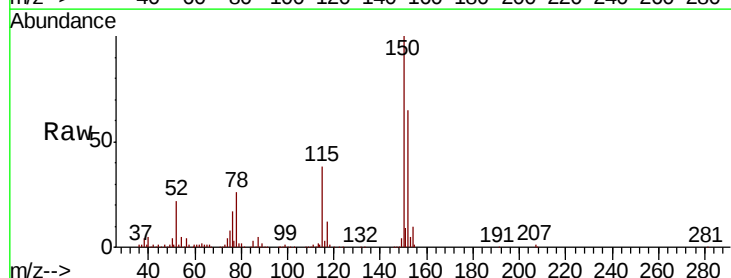
Tgt Ion:152 Resp: 193997

Ion Ratio Lower Upper

152 100

115 58.9 29.4 88.2

150 157.0 0.0 345.8

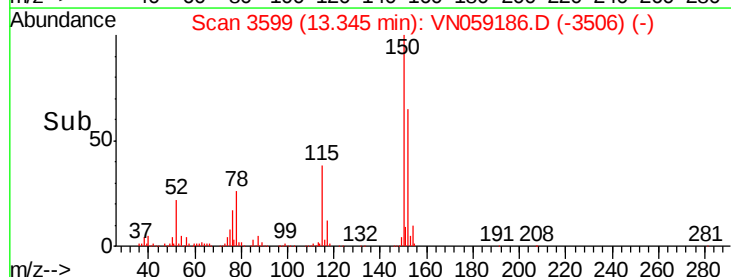
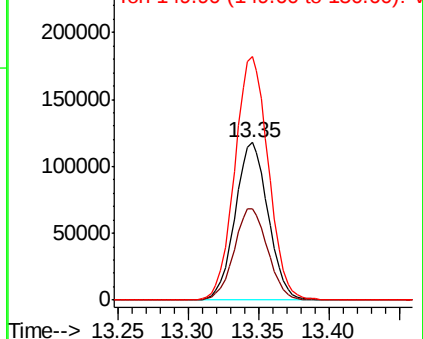


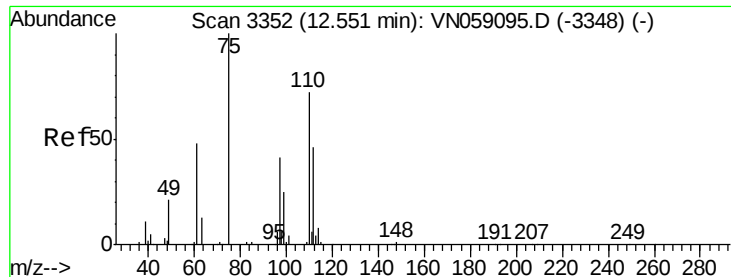
Abundance

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: 24.472 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

Instrument :

MSVOA_N

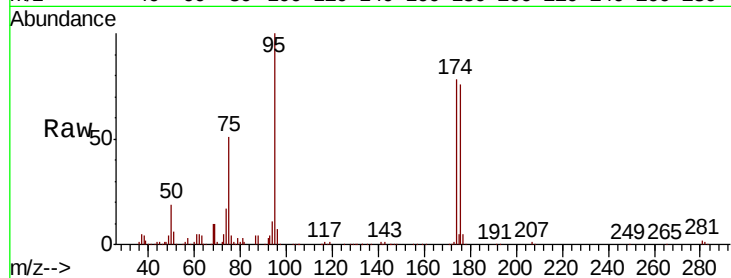
ClientSampled :

Tot Ion: 75 Resp: 108086

Ion Ratio Lower Upper

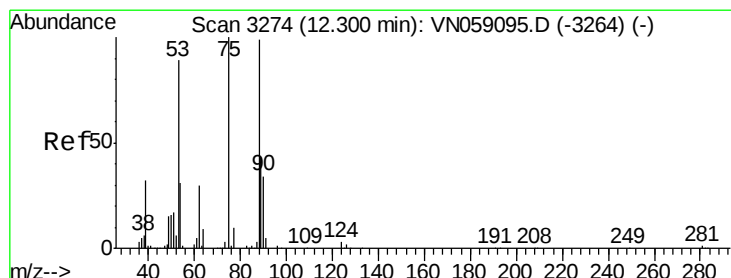
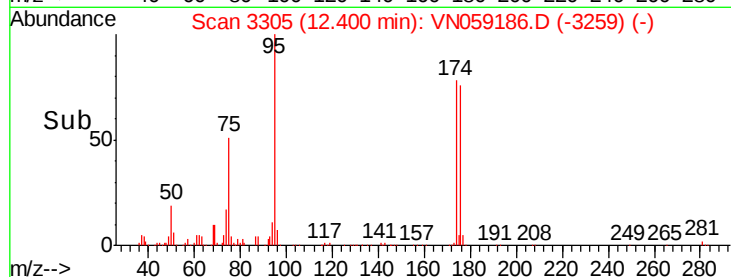
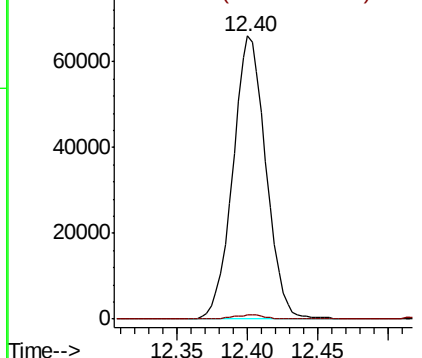
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 64.638 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

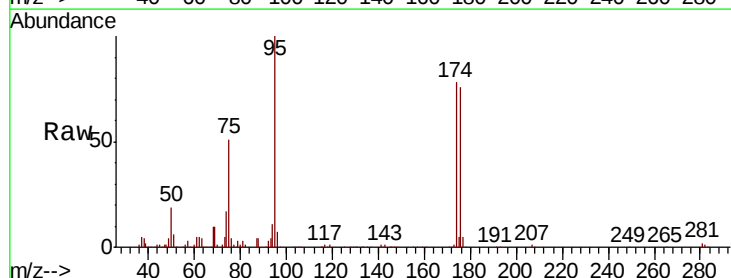
Tgt Ion: 75 Resp: 108086

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

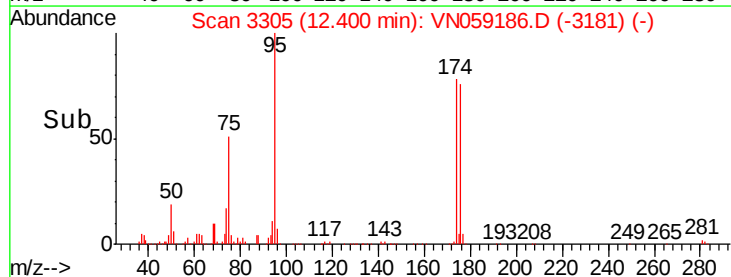
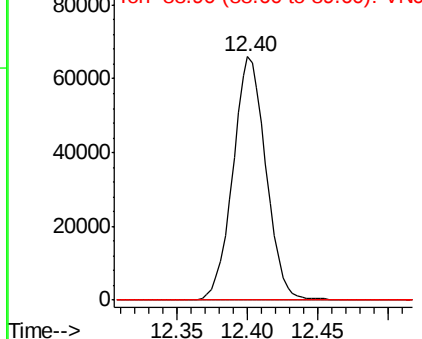
89 0.0 35.8 53.8#

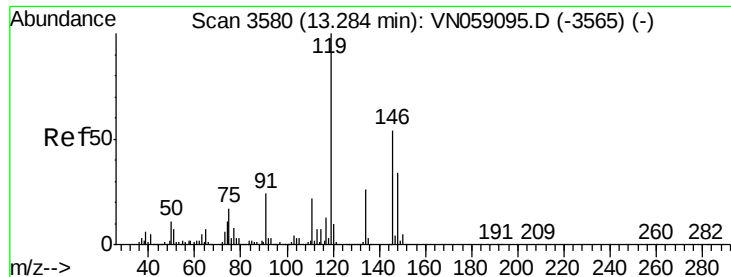


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#87

1,3-Dichlorobenzene

Concen: 0.203 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampled :

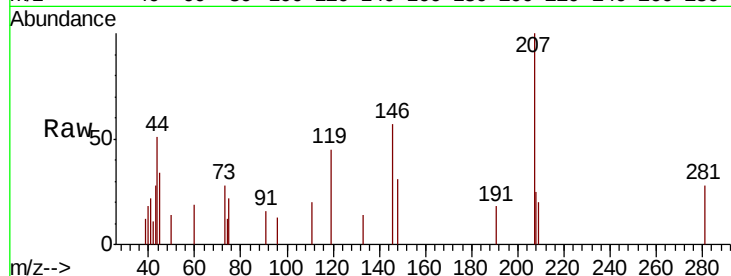
Tot Ion:146 Resp: 1234

Ion Ratio Lower Upper

146 100

111 39.6 20.4 61.3

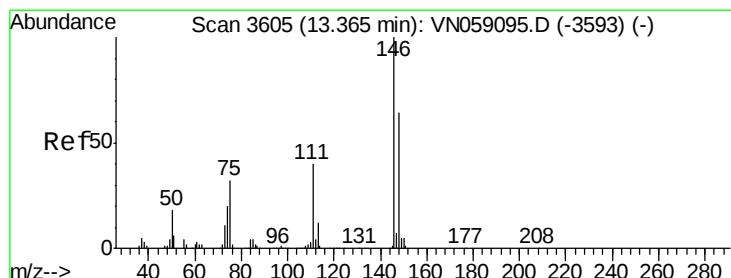
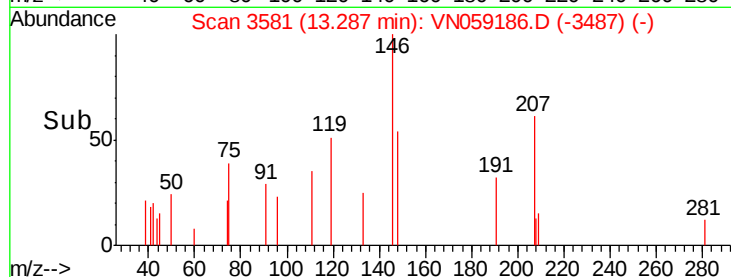
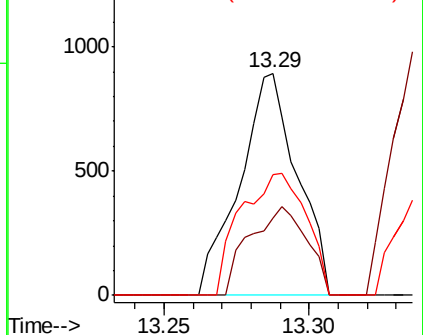
148 62.1 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.203 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.08 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

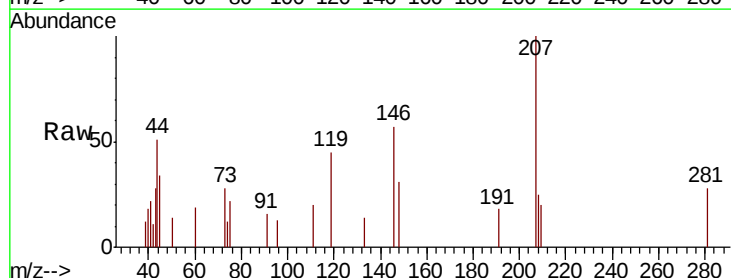
Tgt Ion:146 Resp: 1234

Ion Ratio Lower Upper

146 100

111 39.6 20.3 60.9

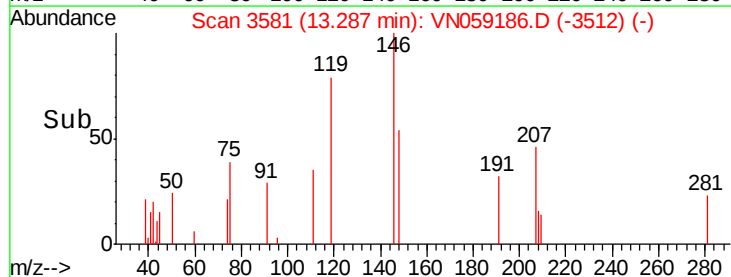
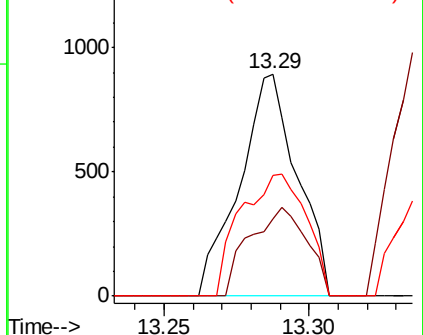
148 62.1 31.9 95.7

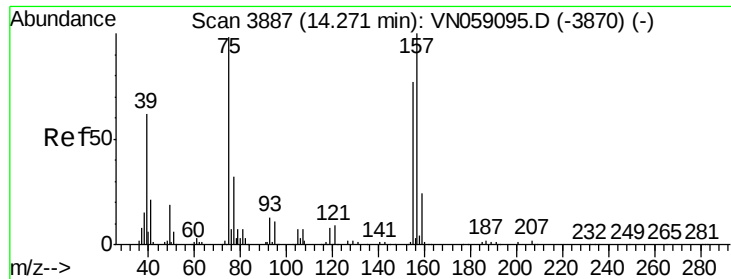


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

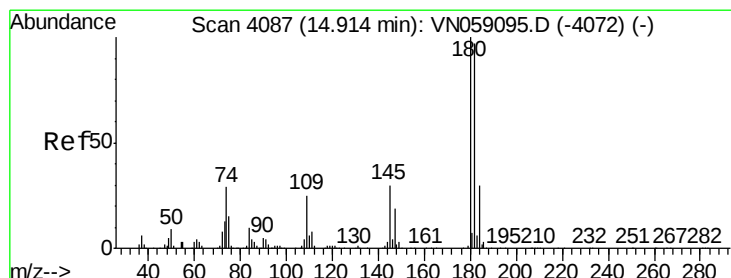
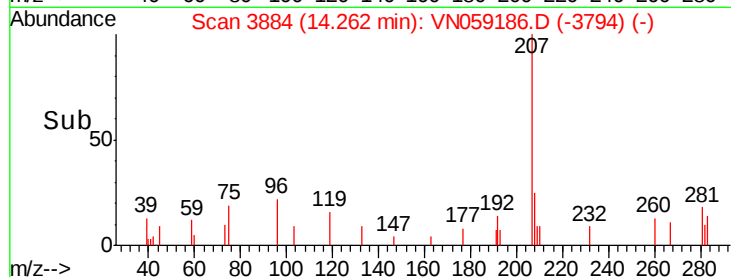
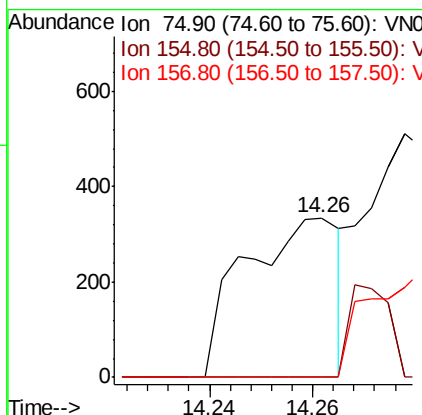
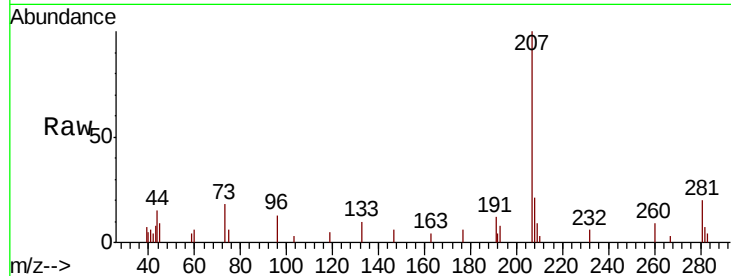




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.469 ug/l
 RT: 14.26 min Scan# 3884
 Delta R.T. -0.01 min
 Lab File: VN059186.D
 Acq: 12 Nov 2019 13:39

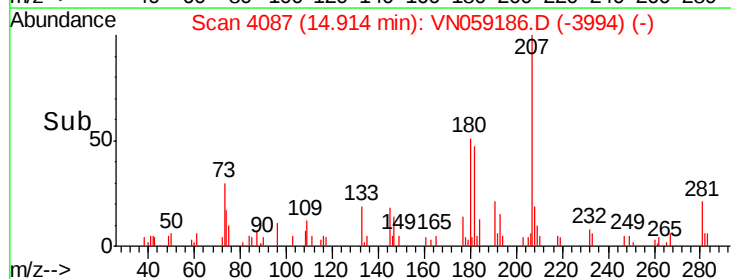
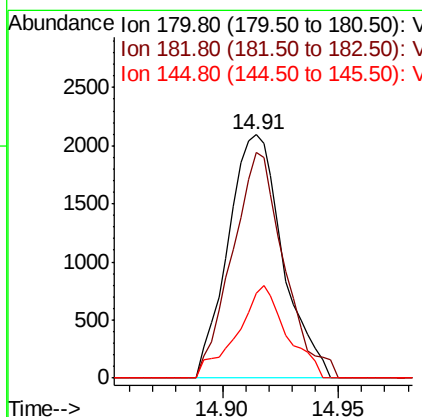
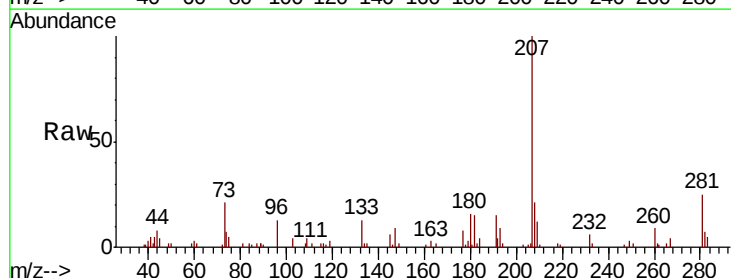
Instrument :
 MSVOA_N
 ClientSampled :

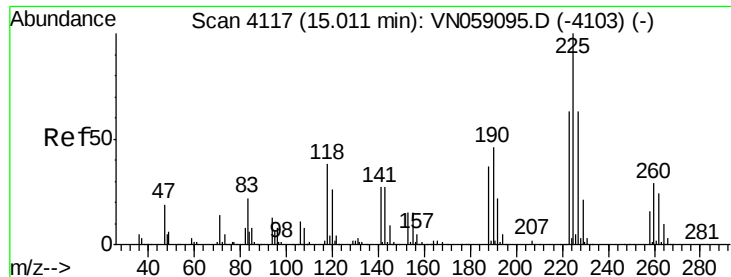
Tot Ion: 75 Resp: 425
 Ion Ratio Lower Upper
 75 100
 155 24.5 40.2 120.6#
 157 0.0 51.8 155.5#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.934 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059186.D
 Acq: 12 Nov 2019 13:39

Tgt Ion: 180 Resp: 3425
 Ion Ratio Lower Upper
 180 100
 182 87.8 48.1 144.3
 145 34.5 15.1 45.3





#94

Hexachlorobutadiene

Concen: 0.311 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.01 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampled :

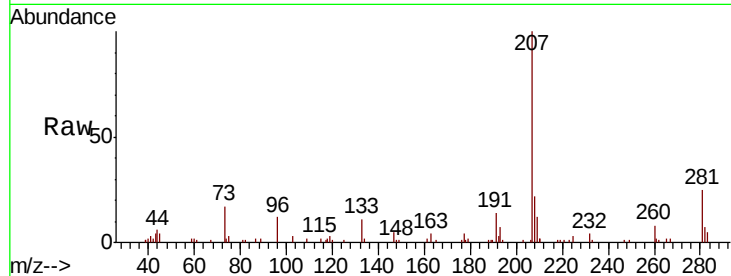
Tot Ion:225 Resp: 640

Ion Ratio Lower Upper

225 100

223 75.5 31.3 93.9

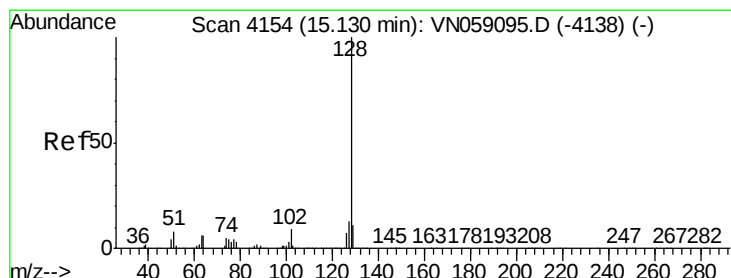
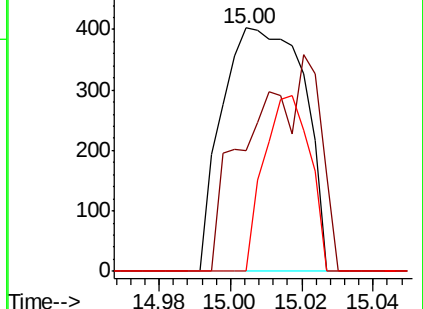
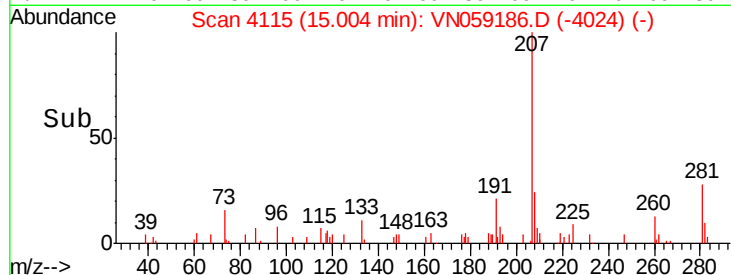
227 40.5 31.5 94.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.086 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059186.D

Acq: 12 Nov 2019 13:39

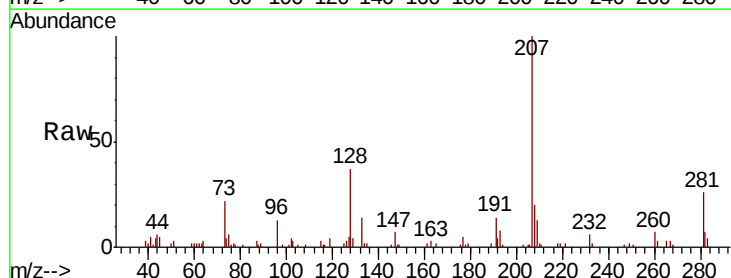
Tgt Ion:128 Resp: 11141

Ion Ratio Lower Upper

128 100

127 14.2 10.2 15.2

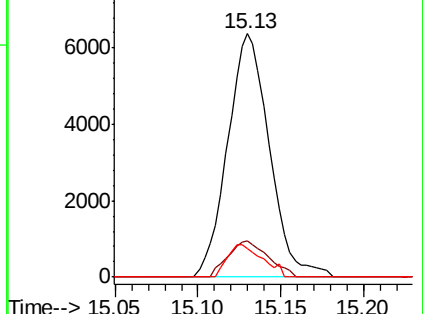
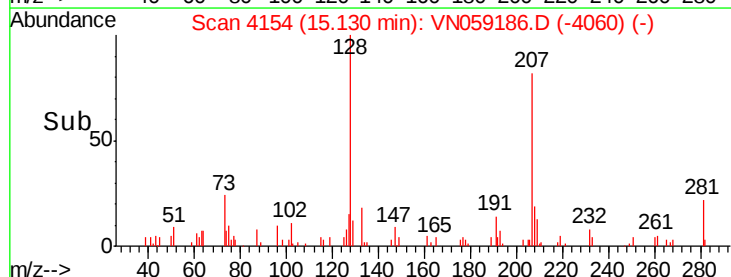
129 11.2 8.6 12.8

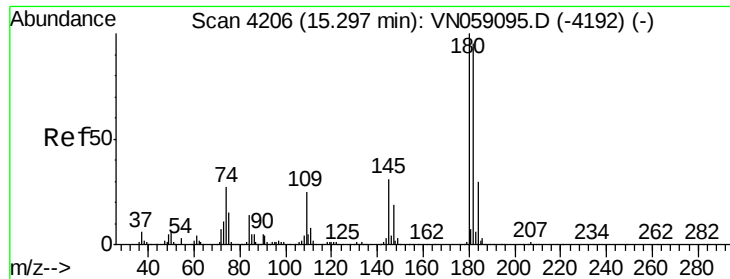


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

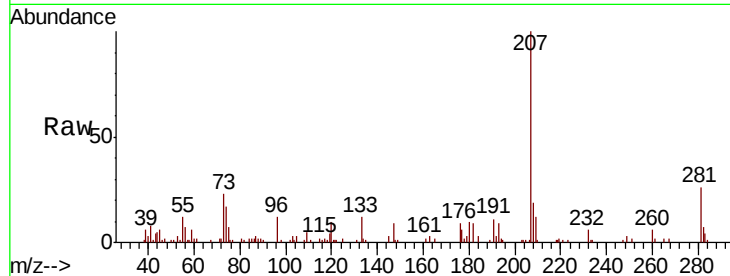




#96
 1,2,3-Trichlorobenzene
 Concen: 1.161 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.00 min
 Lab File: VN059186.D
 Acq: 12 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.1	47.3	141.8
145	38.2	15.8	47.3



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

