

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 :
 9-D

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

33) 1,2-Dichloroethane-d4	8.00	65	234268	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	
35) Dibromofluoromethane	7.56	113	178261	52.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.02%	
50) Toluene-d8	10.08	98	690158	51.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.22%	
62) 4-Bromofluorobenzene	12.40	95	214042	44.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.80%	

Target Compounds

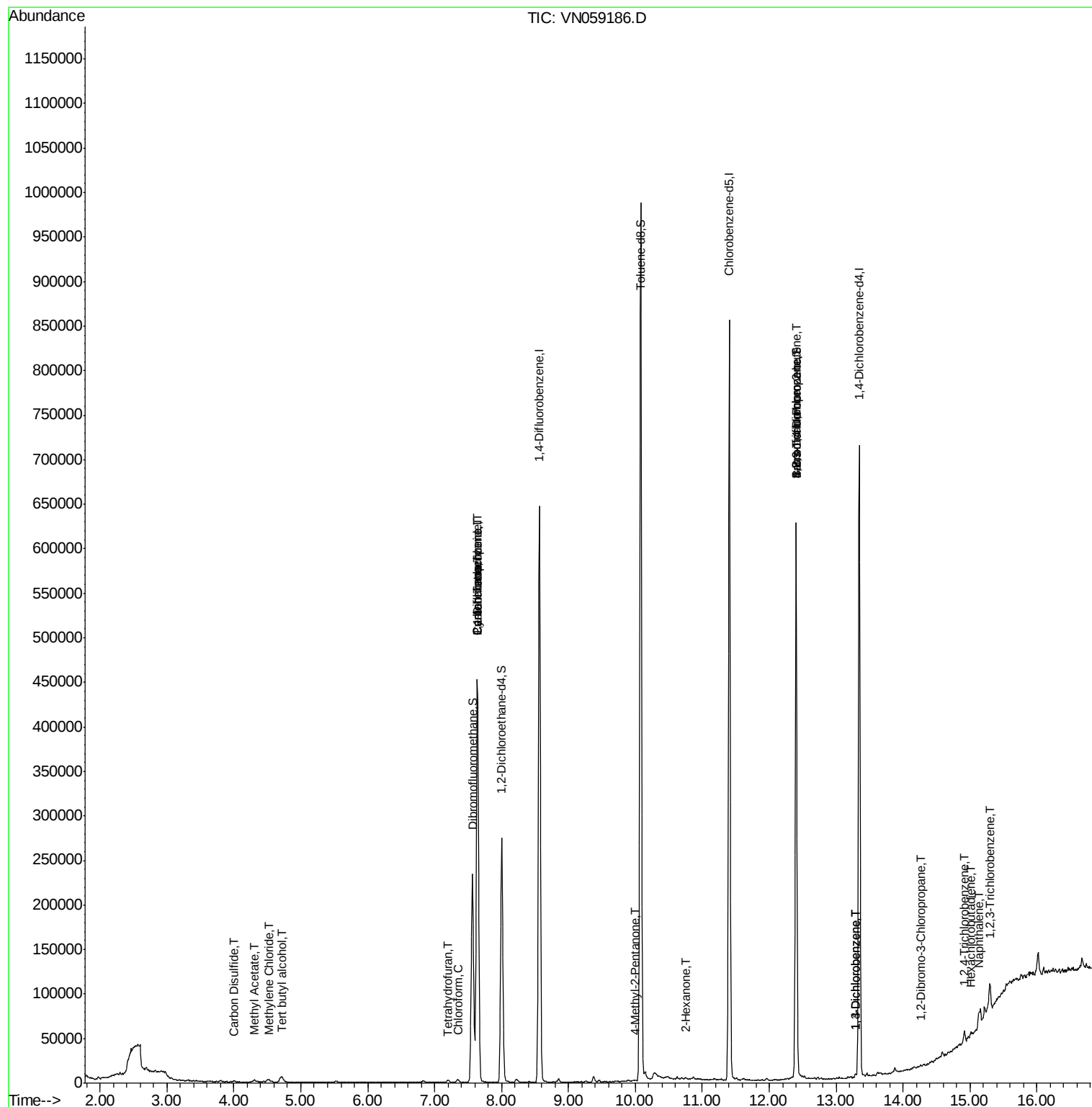
						Qvalue
11) Tert butyl alcohol	4.71	59	6661	7.731	ug/l #	72
17) Carbon Disulfide	4.00	76	2892	0.272	ug/l #	83
18) Methyl Acetate	4.31	43	3349	0.600	ug/l #	72
20) Methylene Chloride	4.52	84	1666	0.407	ug/l #	78
29) Tetrahydrofuran	7.19	42	1069	0.543	ug/l #	76
30) Chloroform	7.34	83	3360	0.471	ug/l #	79
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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Quant Title : SW846 8260
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 :

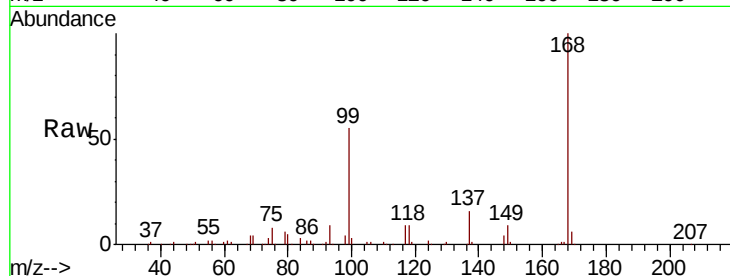
9-D

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

Ion 98.90 (98.60 to 99.60): VN059095.D

7.64

150000

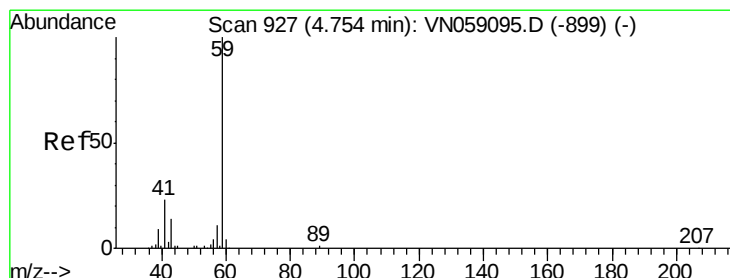
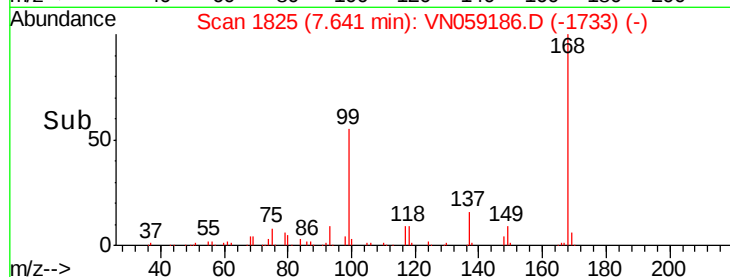
100000

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

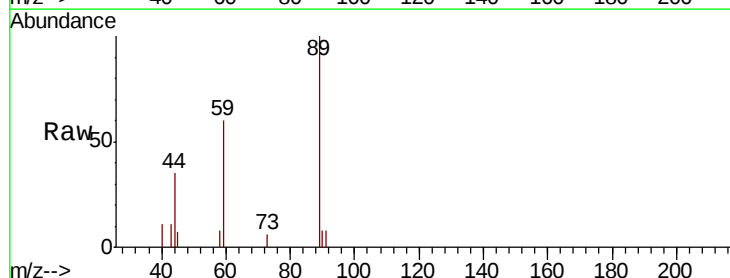
Acq: 12 Nov 2019 13:39

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

Ion 57.00 (56.70 to 57.70): VN059095.D

4.71

2000

1500

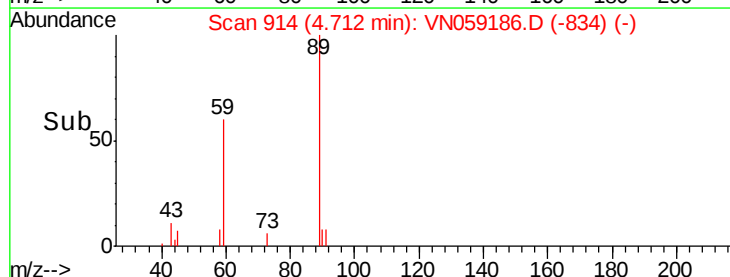
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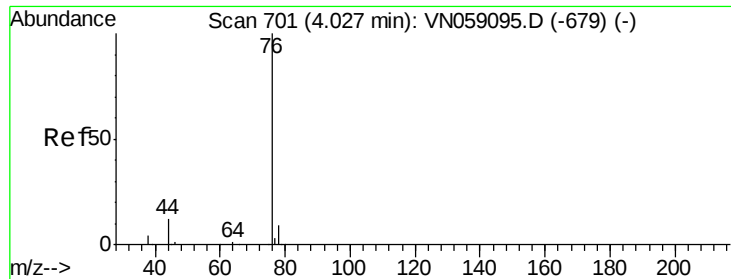
500

0

4.60 4.70 4.80

Time-->

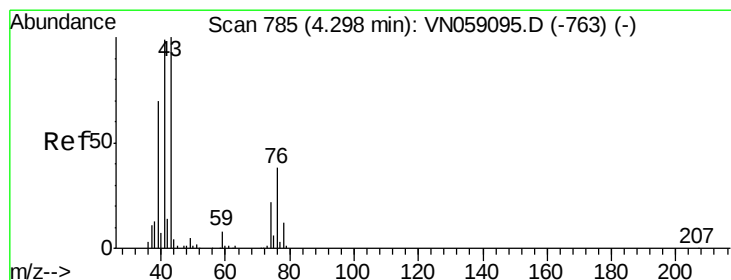
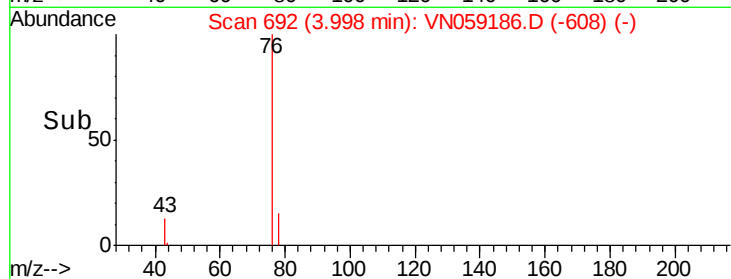
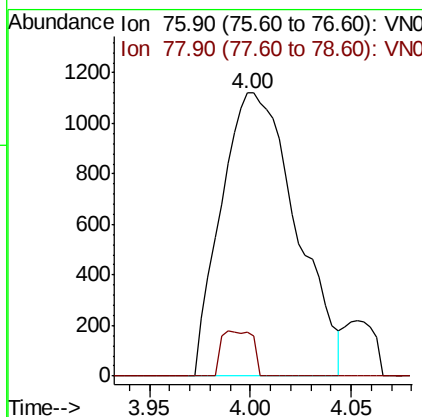
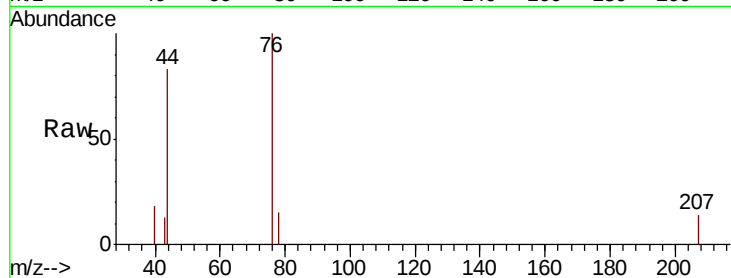




#17
Carbon Disulfide
Concen: 0.272 ug/l
RT: 4.00 min Scan# 692
Delta R.T. -0.03 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

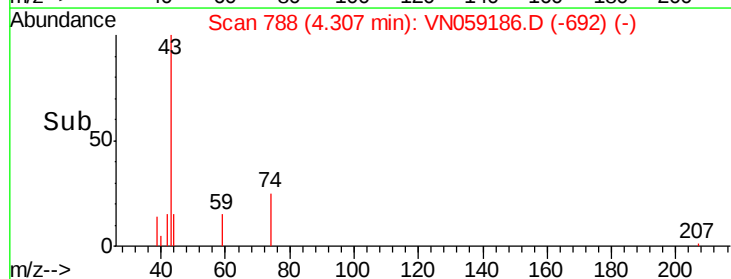
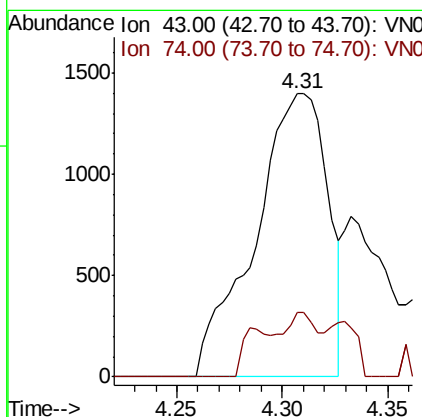
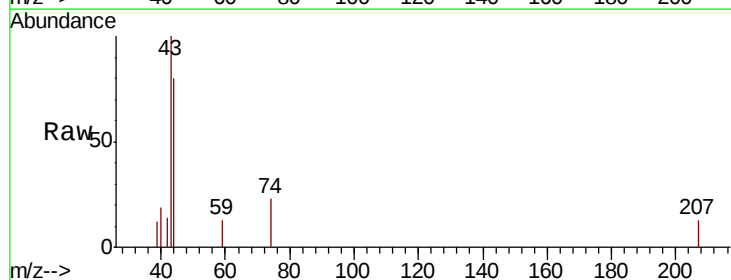
Instrument :
MSVOA_N
ClientSampled :
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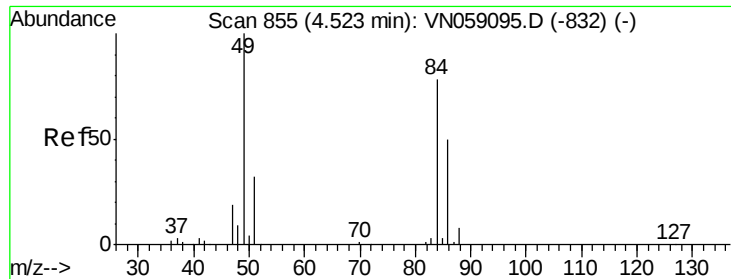
Tot Ion: 76 Resp: 2892
Ion Ratio Lower Upper
76 100
78 15.4 7.4 11.0#



#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#

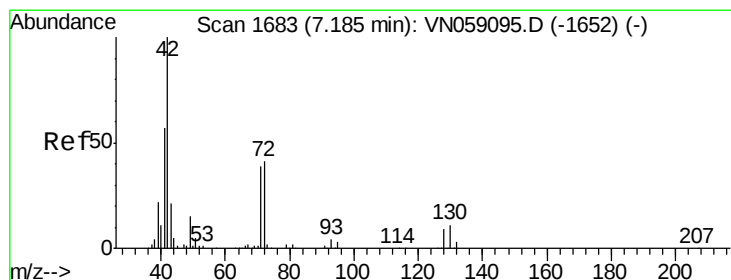
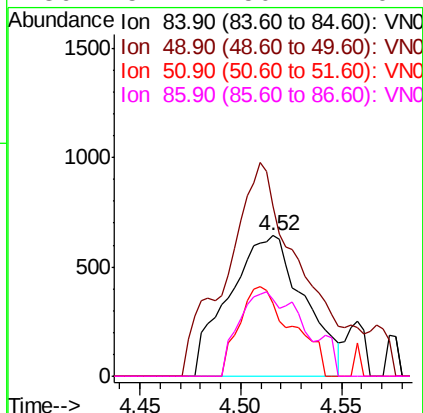
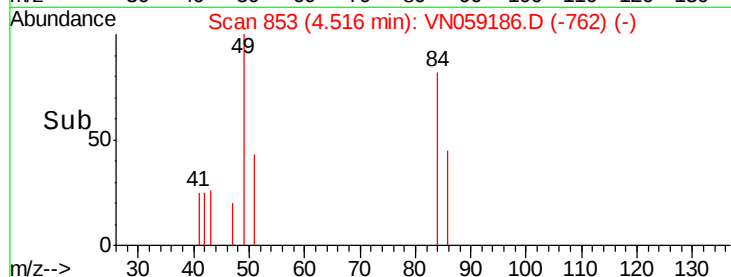
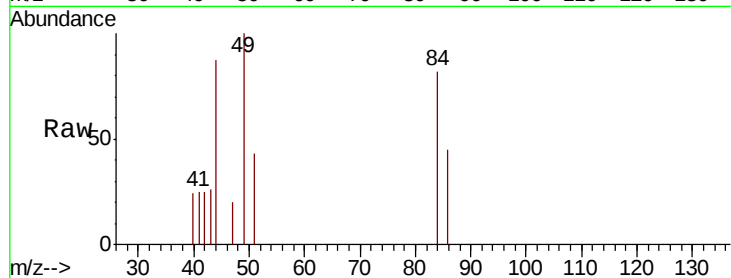




#20
Methvlene Chloride
Concen: 0.407 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

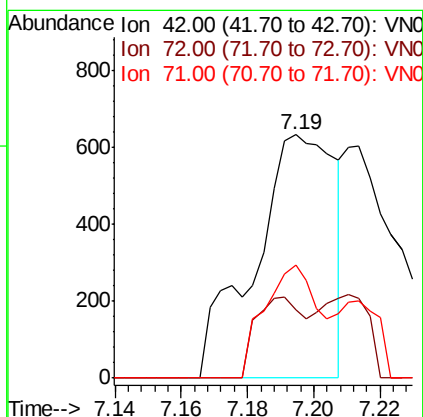
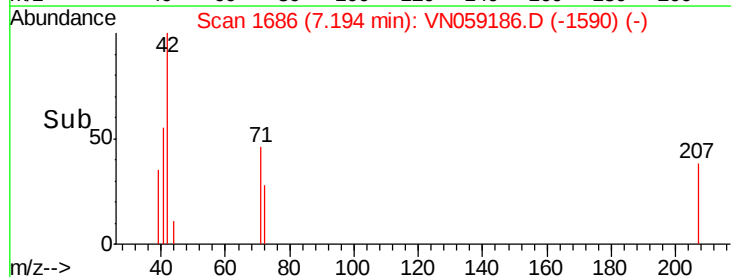
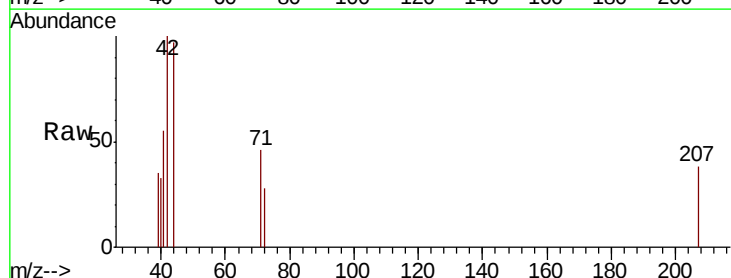
Instrument :
MSVOA_N
ClientSampled :
9-D

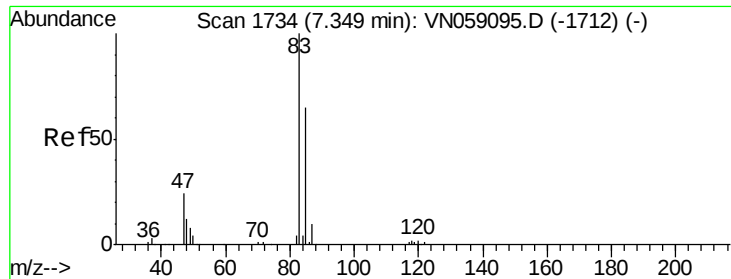
Tot Ion: 84 Resp: 1666
Ion Ratio Lower Upper
84 100
49 95.0 102.0 153.0#
51 51.8 32.2 48.2#
86 54.7 50.7 76.1



#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#

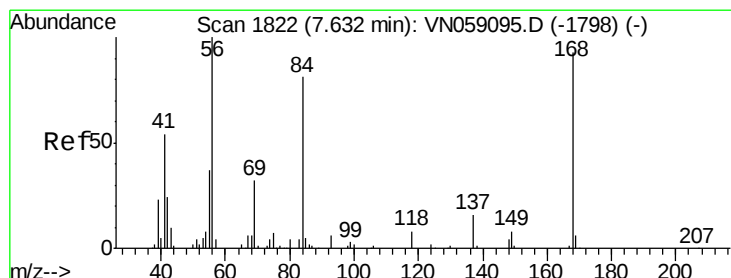
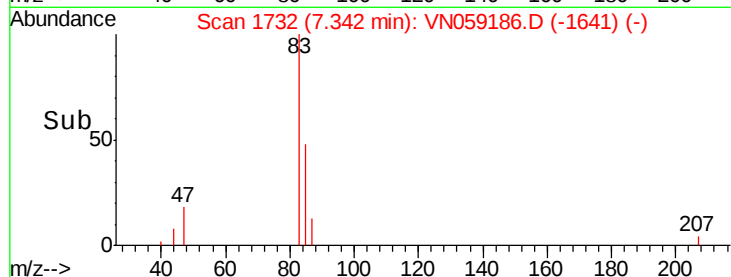
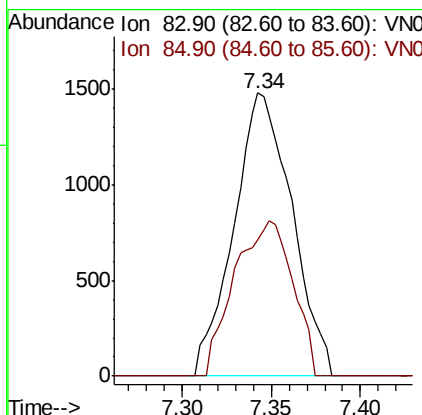
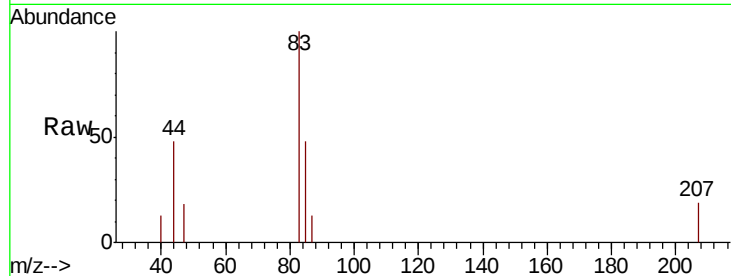




#30
Chloroform
Concen: 0.471 ug/l
RT: 7.34 min Scan# 1732
Delta R.T. -0.01 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

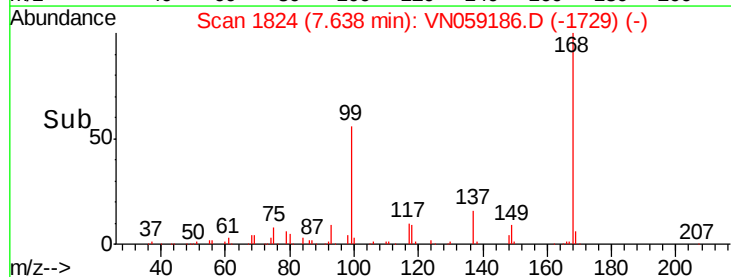
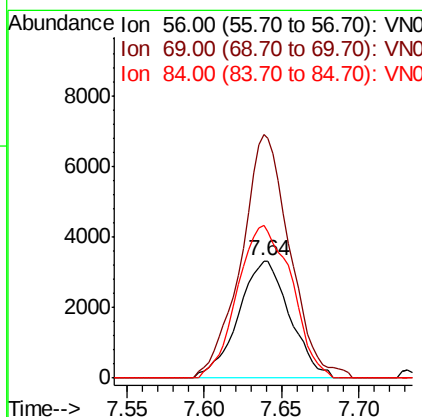
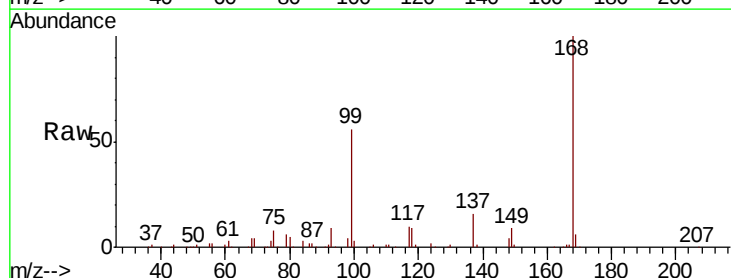
Instrument :
MSVOA_N
ClientSampleId :
9-D

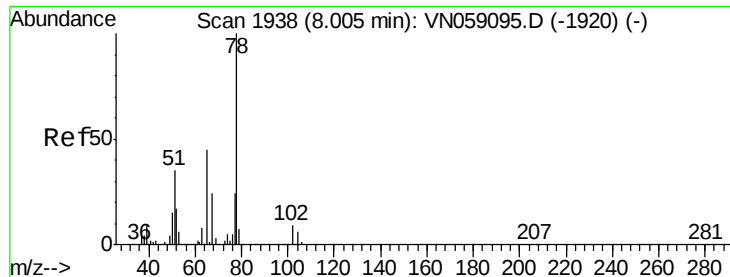
Tot Ion: 83 Resp: 3360
Ion Ratio Lower Upper
83 100
85 48.2 51.8 77.8#



#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#

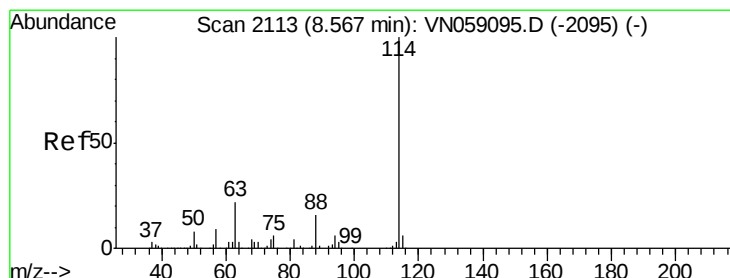
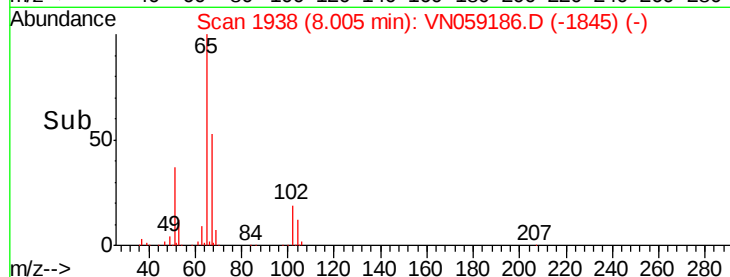
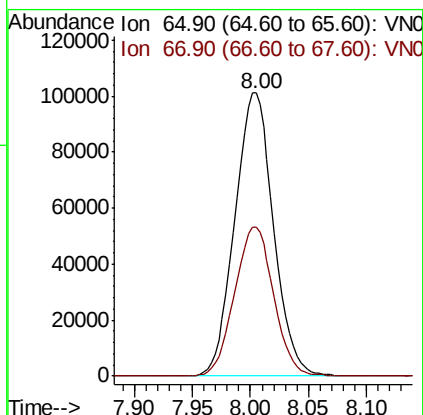
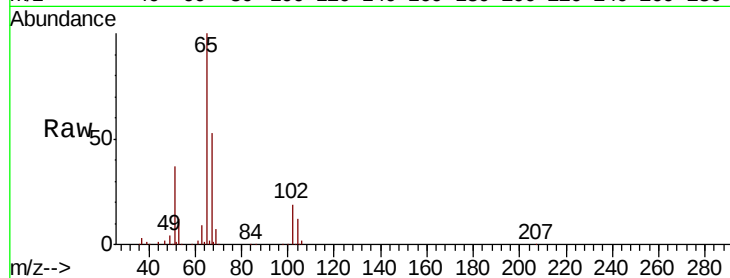




#33
 1,2-Dichloroethane-d4
 Concen: 51.817 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059186.D
 Acq: 12 Nov 2019 13:39

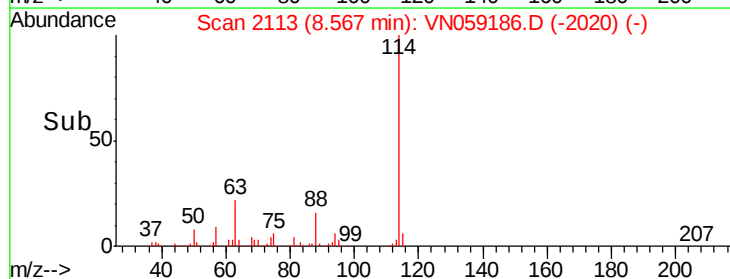
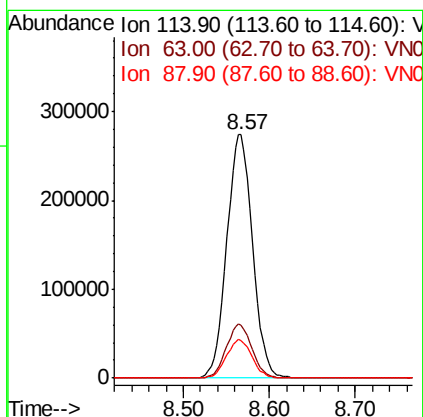
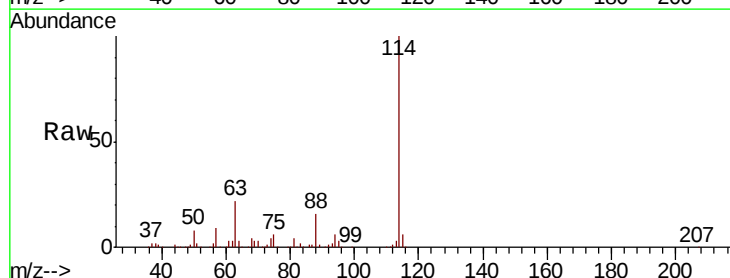
Instrument :
 MSVOA_N
 ClientSampleId :
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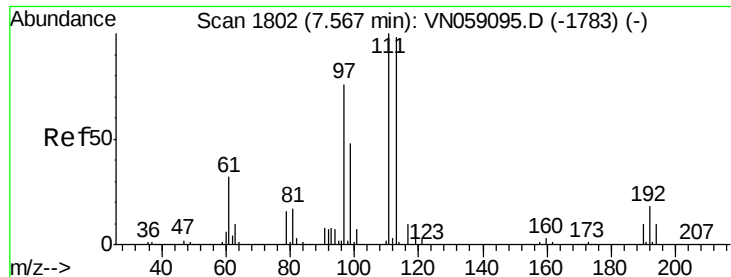
Tot Ion: 65 Resp: 234268
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.4



#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

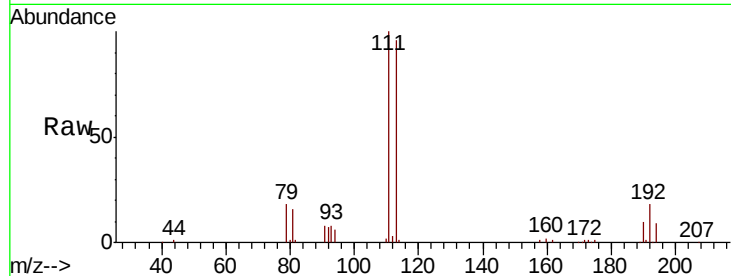




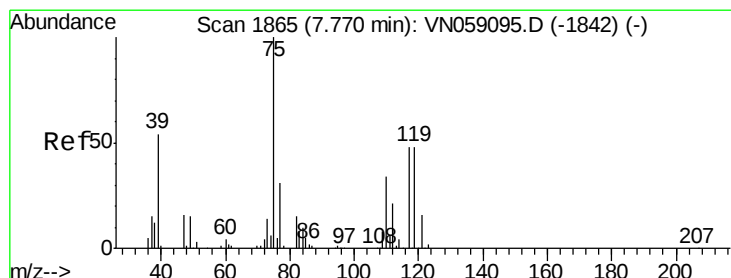
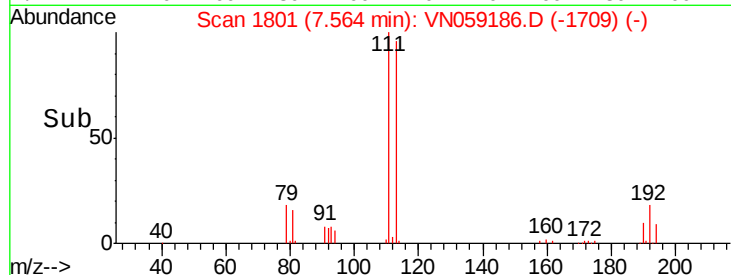
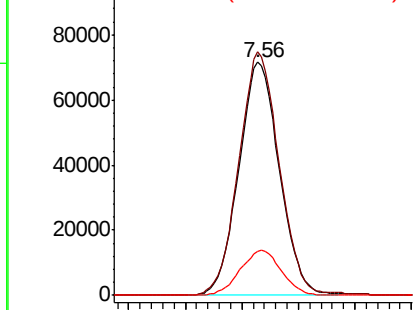
#35
 Dibromofluoromethane
 Concen: 52.511 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059186.D
 Acq: 12 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampled :
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Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.8	124.2
192	19.6	16.1	24.1

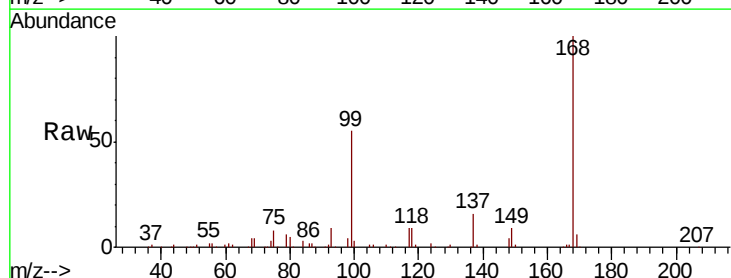


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

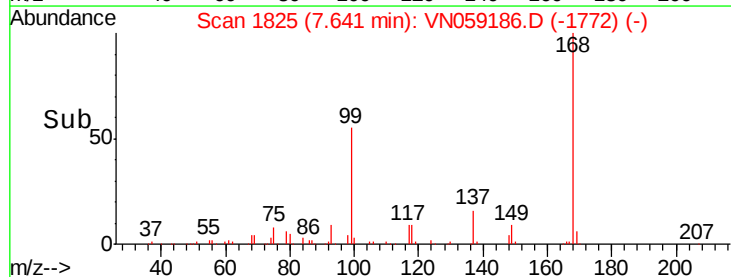
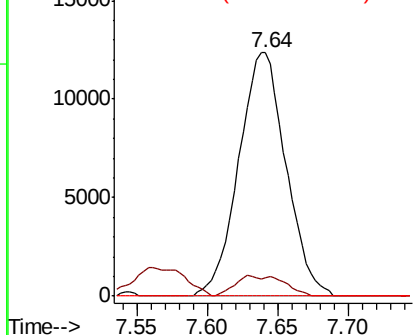


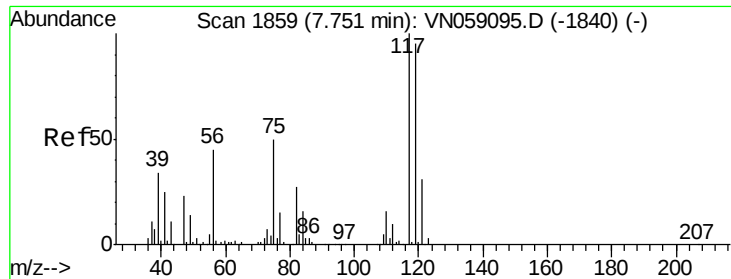
#36
 1,1-Dichloropropene
 Concen: 5.441 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059186.D
 Acq: 12 Nov 2019 13:39

Tgt Ion	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

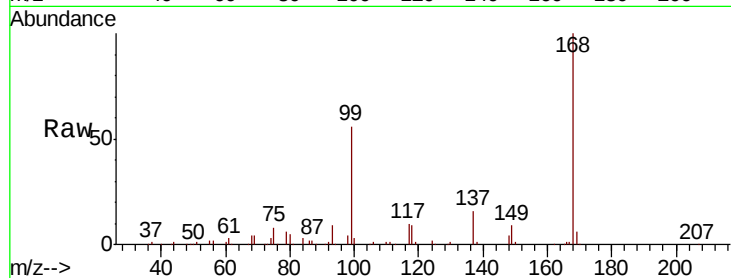




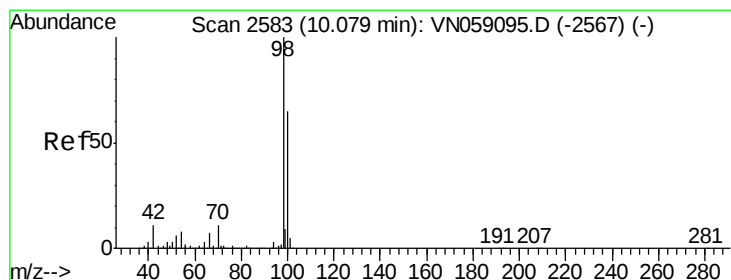
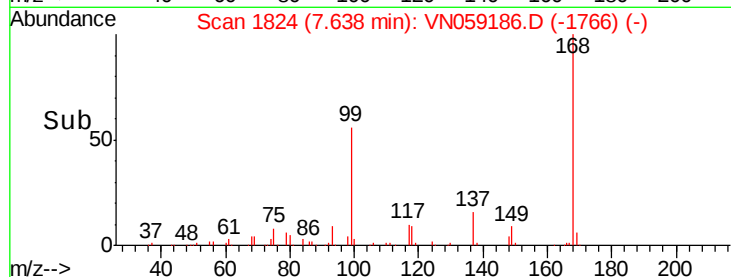
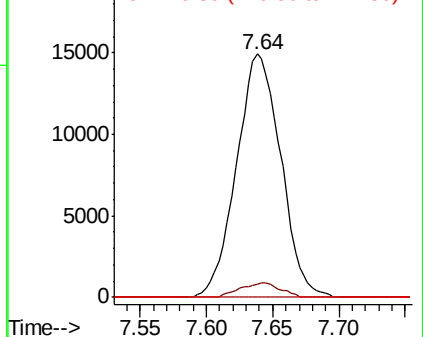
#38
Carbon Tetrachloride
Concen: 6.550 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

Instrument :
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ClientSampleId :
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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#

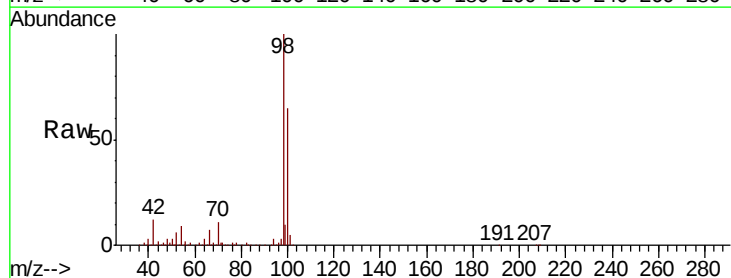


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

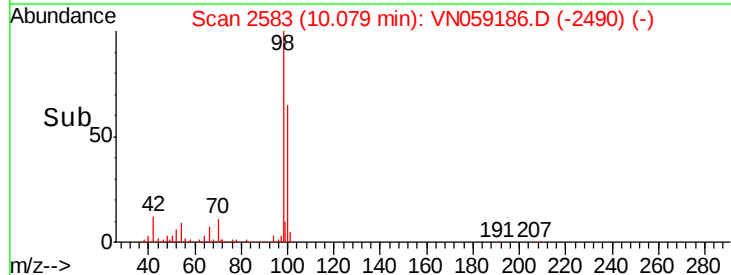
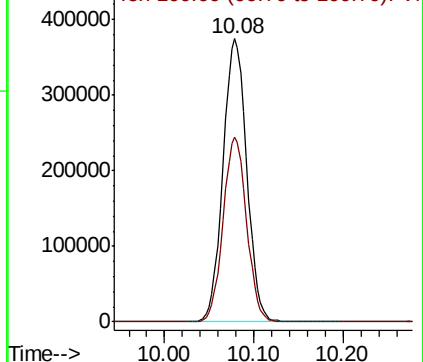


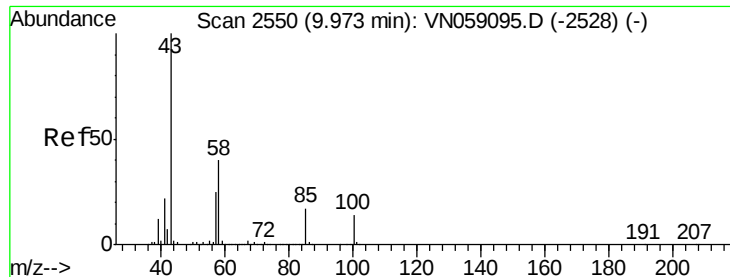
#50
Toluene-d8
Concen: 51.614 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

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): VN
Ion 100.00 (99.70 to 100.70): VN





#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 :

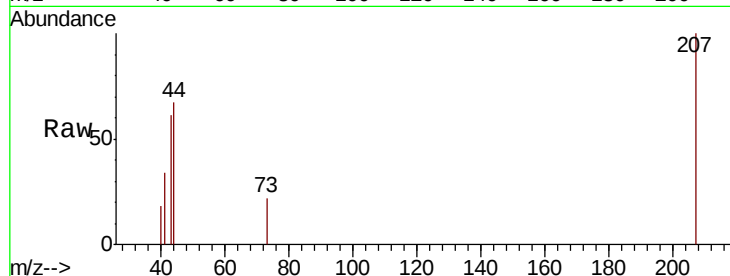
9-D

Tot Ion: 43 Resp: 1211

Ion Ratio Lower Upper

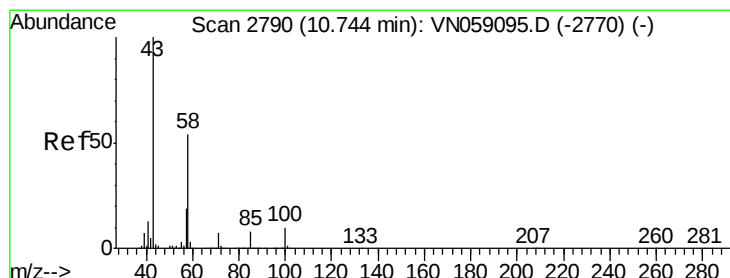
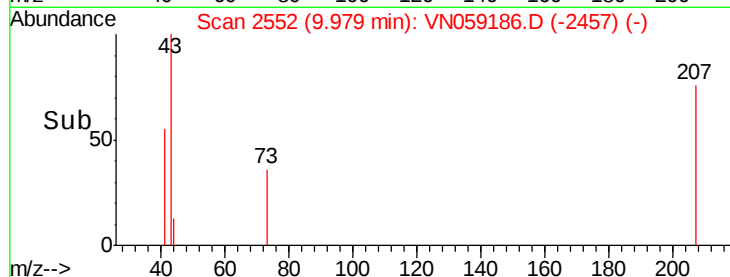
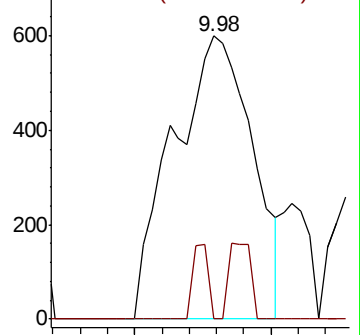
43 100

58 0.0 31.5 47.3#



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

Ion 58.00 (57.70 to 58.70): 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

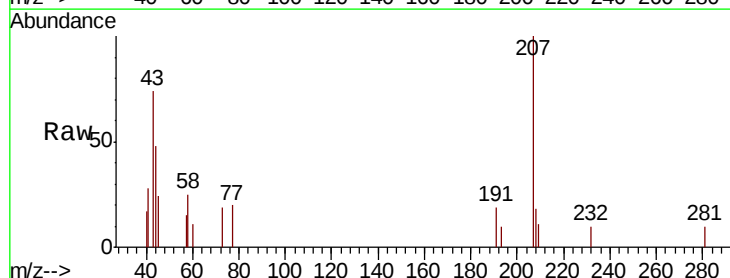
Acq: 12 Nov 2019 13:39

Tgt Ion: 43 Resp: 1361

Ion Ratio Lower Upper

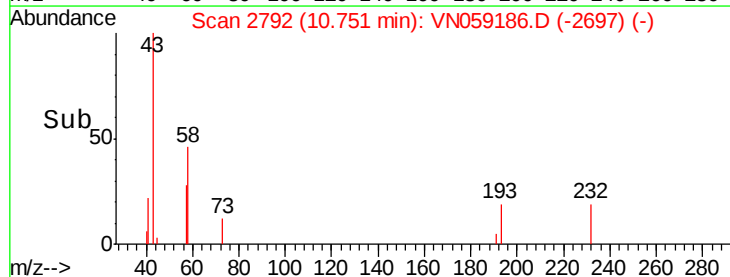
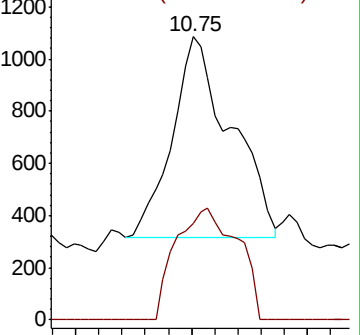
43 100

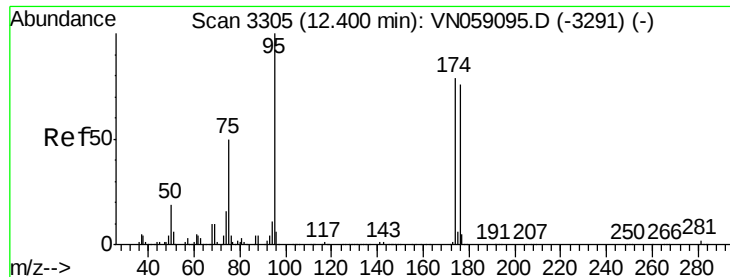
58 58.3 27.3 81.8



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

Ion 58.00 (57.70 to 58.70): VN059095.D (-2770) (-)

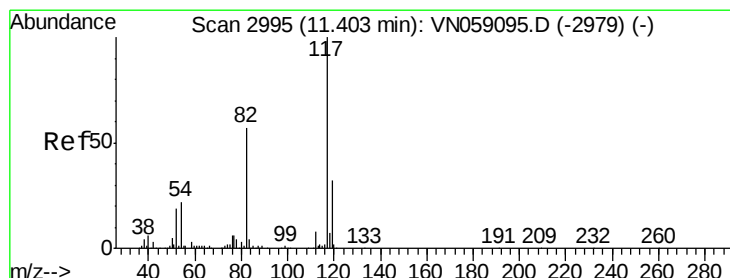
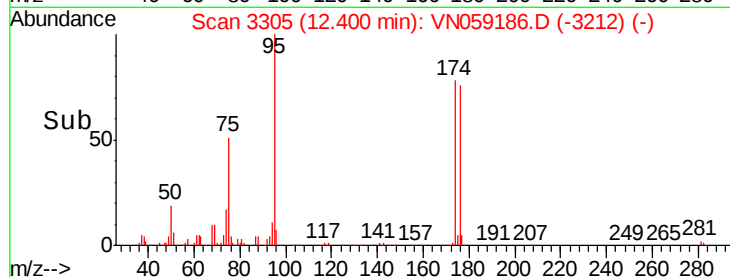
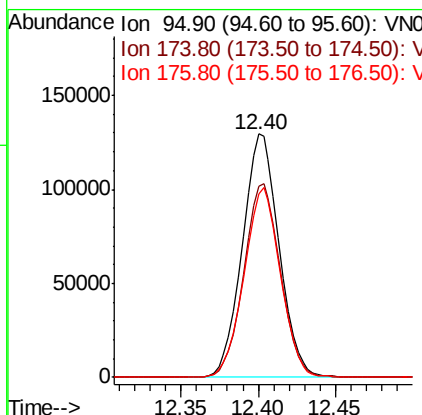
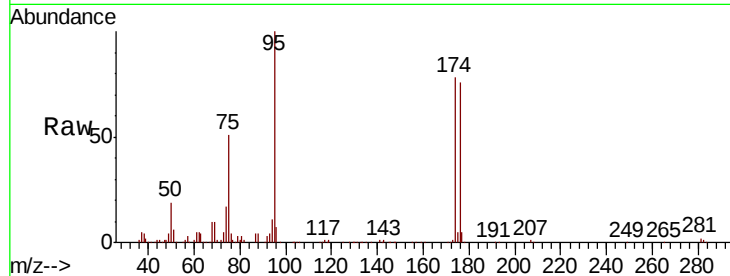




#62
4-Bromofluorobenzene
Concen: 44.395 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

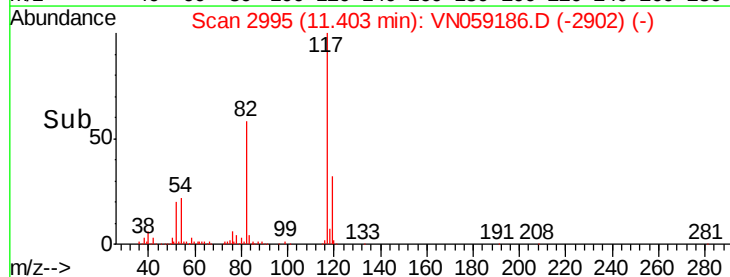
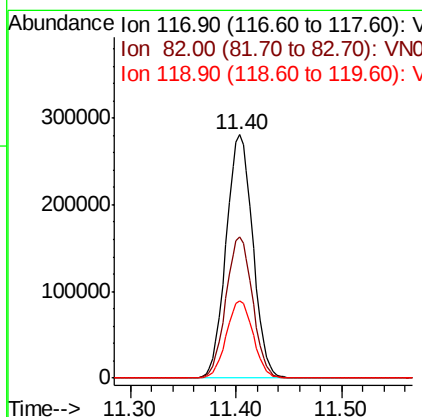
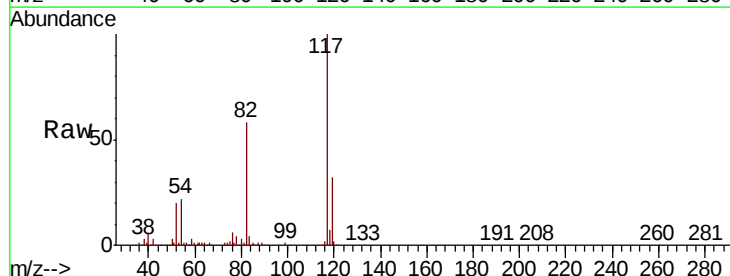
Instrument :
MSVOA_N
ClientSampleId :
9-D

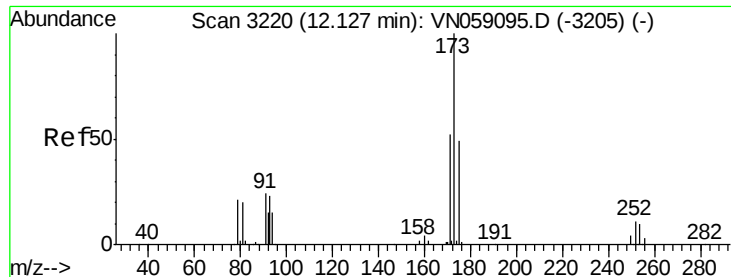
Tot Ion	Ratio	Lower	Upper
95	100		
174	79.5	0.0	158.2
176	77.7	0.0	151.8



#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	Ratio	Lower	Upper
117	100		
82	57.9	45.8	68.8
119	31.7	25.8	38.6

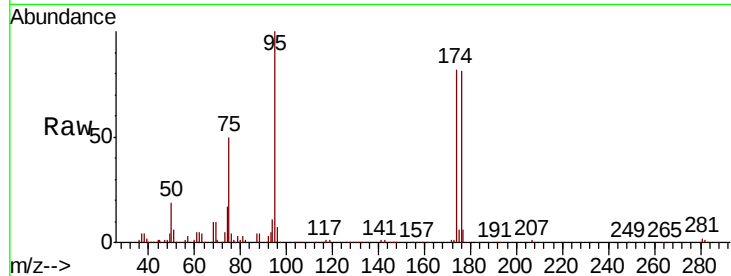




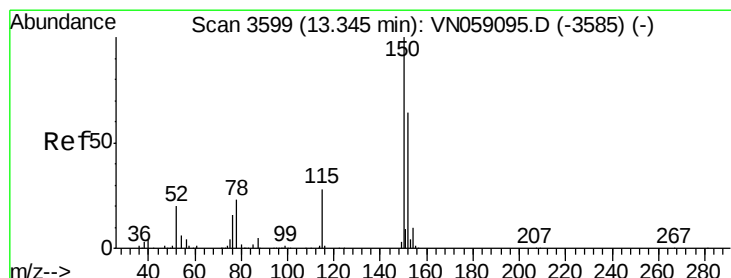
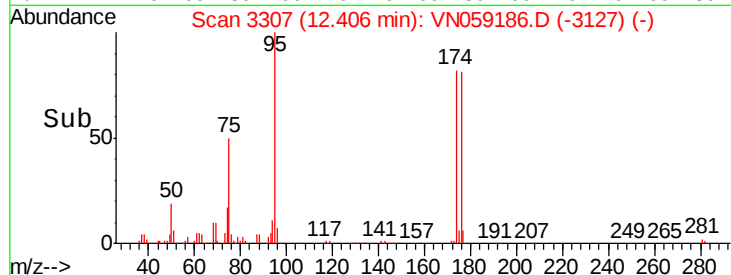
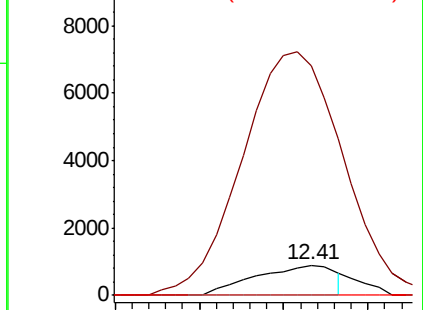
#71
Bromoform
Concen: 0.423 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
9-D

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#

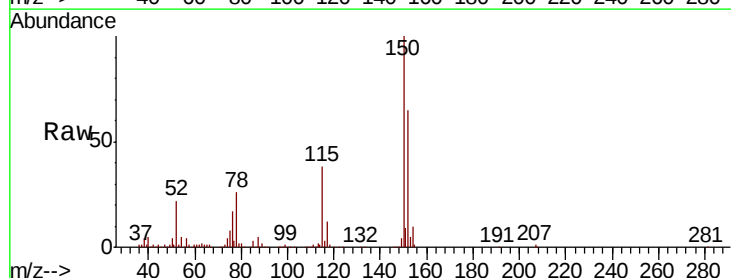


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

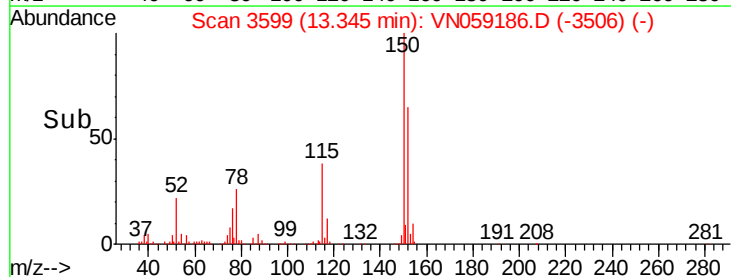
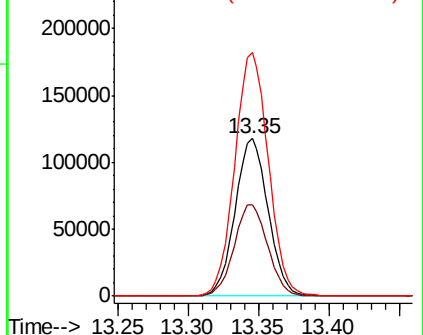


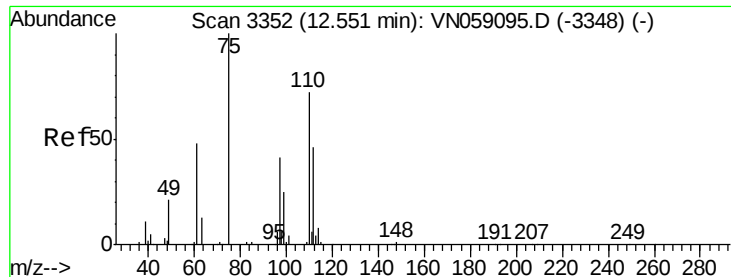
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059186.D
Acq: 12 Nov 2019 13:39

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

ClientSampleId :

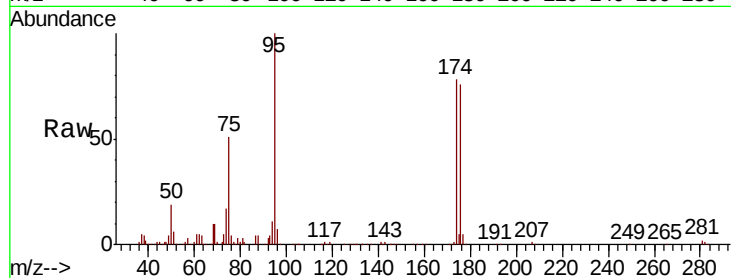
9-D

Tot Ion: 75 Resp: 108086

Ion Ratio Lower Upper

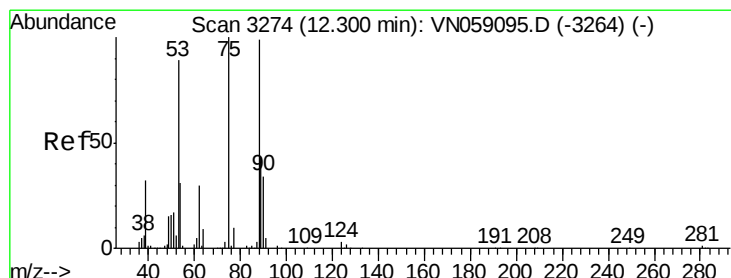
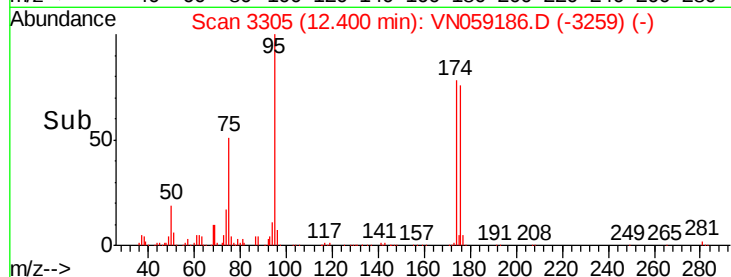
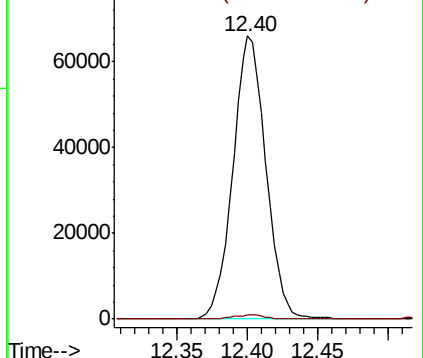
75 100

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

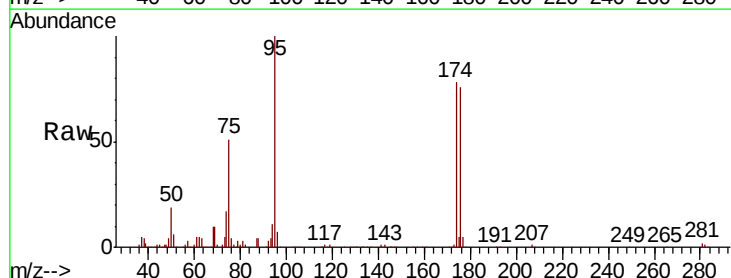
Tgt Ion: 75 Resp: 108086

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

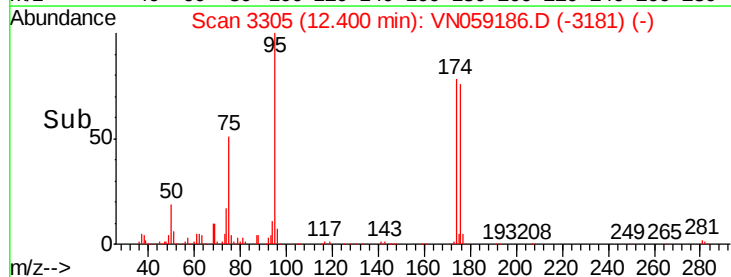
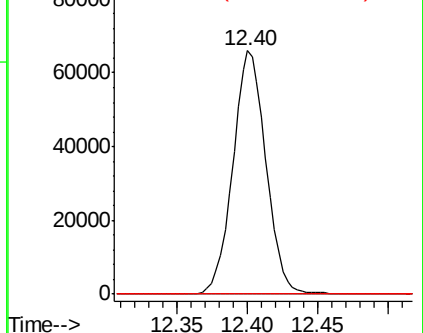
89 0.0 35.8 53.8#

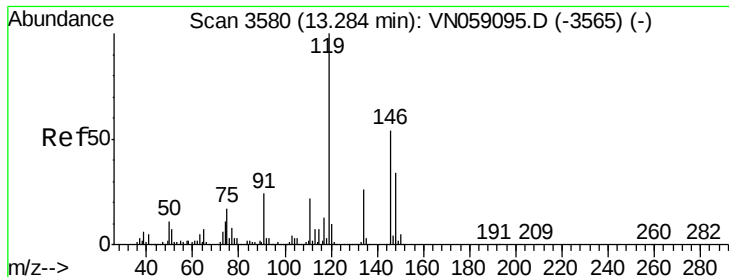


Abundance Ion 74.90 (74.60 to 75.60): VN0

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 :

9-D

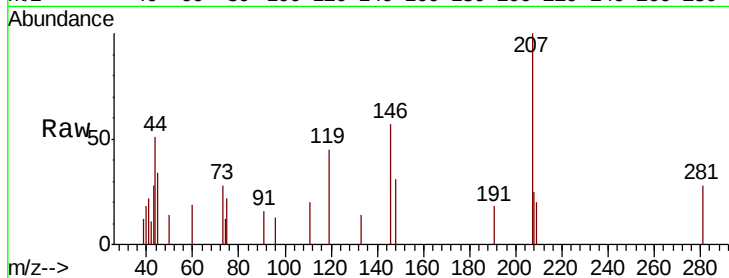
Tot Ion:146 Resp: 1234

Ion Ratio Lower Upper

146 100

111 39.6 20.4 61.3

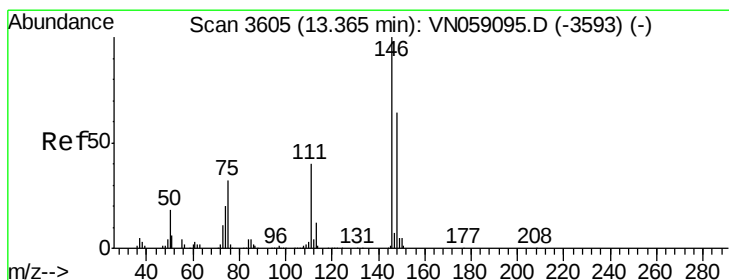
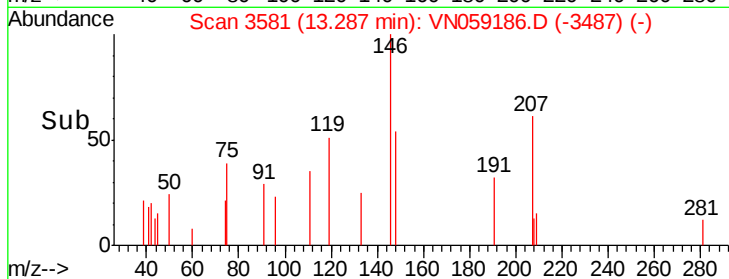
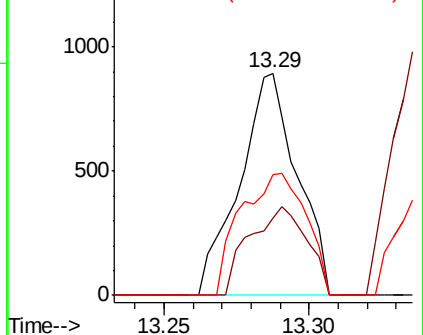
148 62.1 32.2 96.6



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

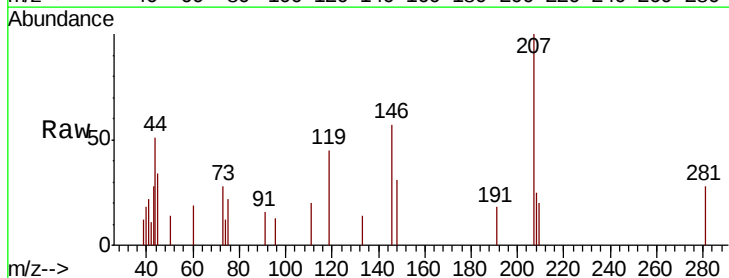
Tgt Ion:146 Resp: 1234

Ion Ratio Lower Upper

146 100

111 39.6 20.3 60.9

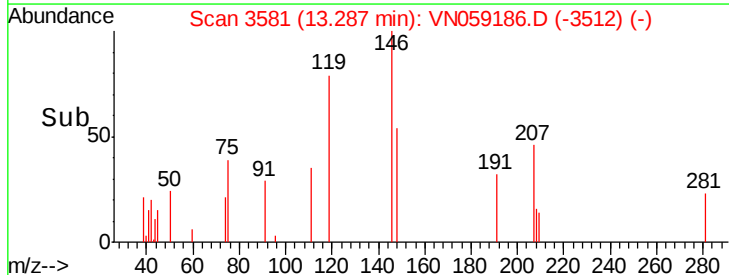
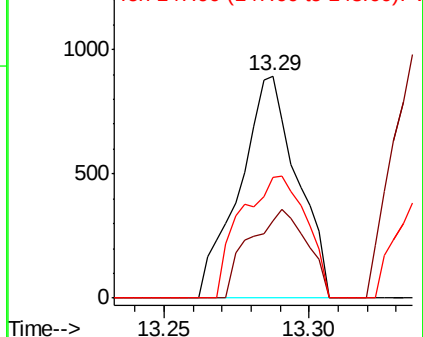
148 62.1 31.9 95.7

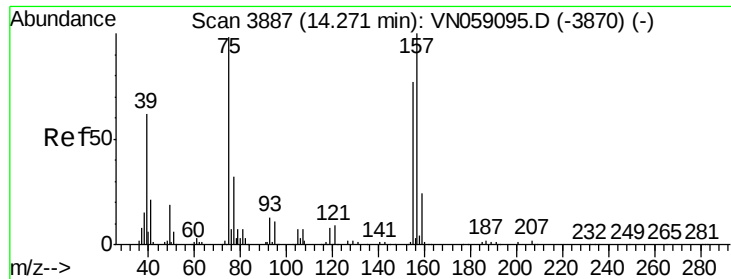


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

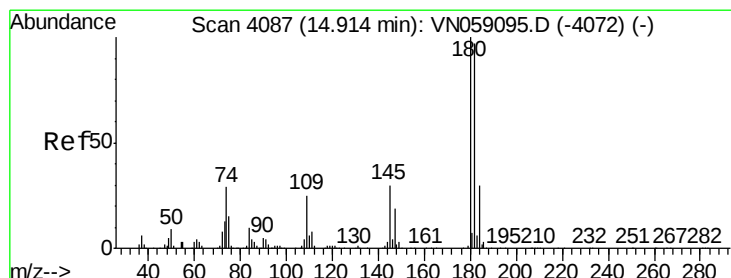
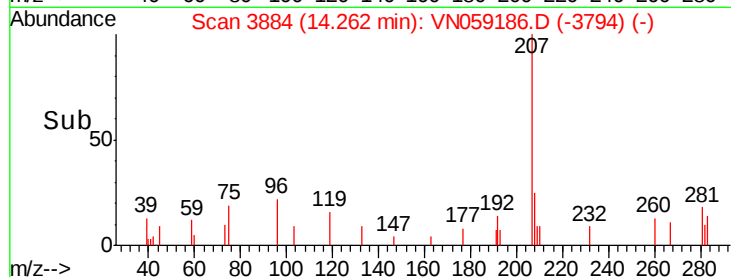
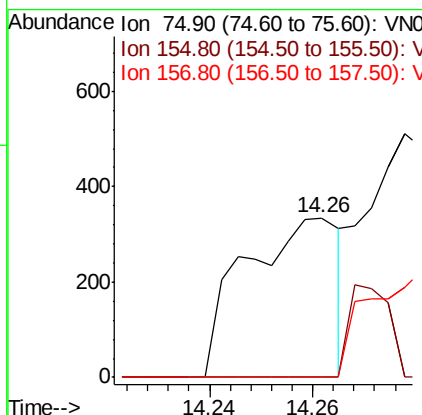
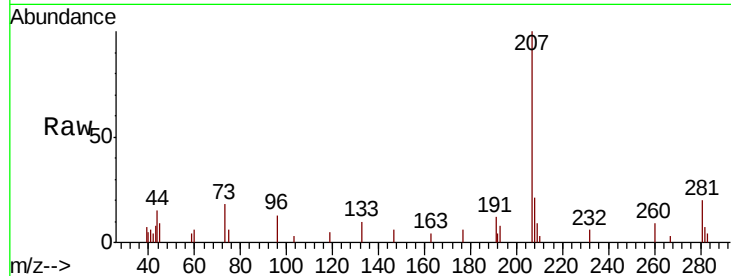




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.469 ug/l
 RT: 14.26 min Scan# 3884
 Delta R.T. -0.01 min
 Lab File: VN059186.D
 Acq: 12 Nov 2019 13:39

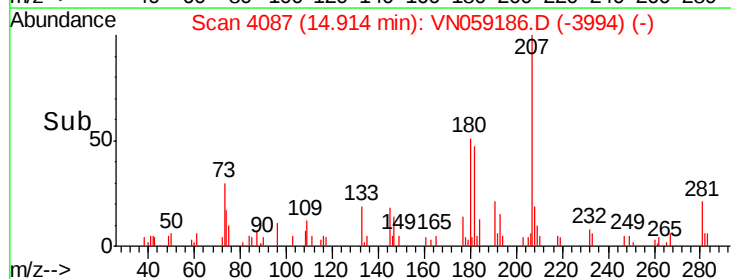
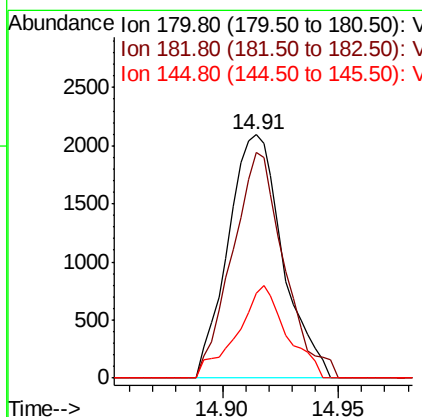
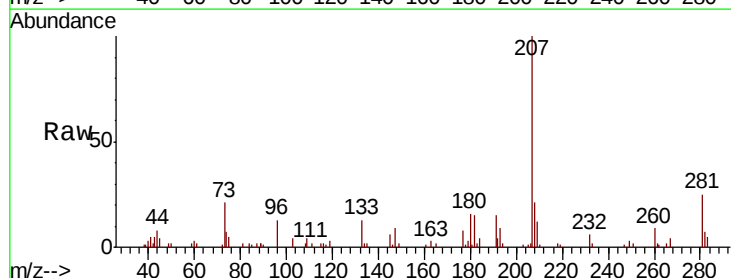
Instrument :
 MSVOA_N
 ClientSampled :
 9-D

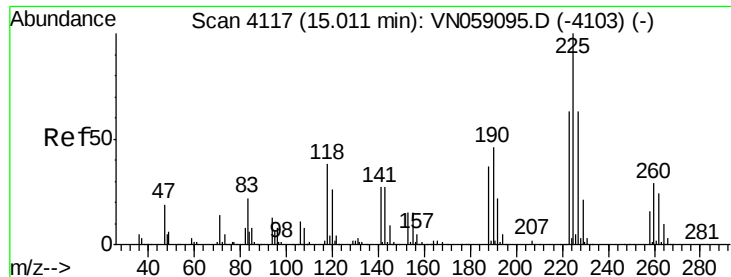
Tot Ion: 75 Resp: 425
 Ion Ratio Lower Upper
 75 100
 155 24.5 40.2 120.6#
 157 0.0 51.8 155.5#



#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 :

9-D

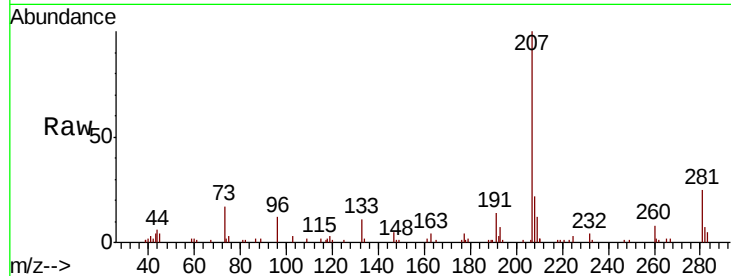
Tot Ion:225 Resp: 640

Ion Ratio Lower Upper

225 100

223 75.5 31.3 93.9

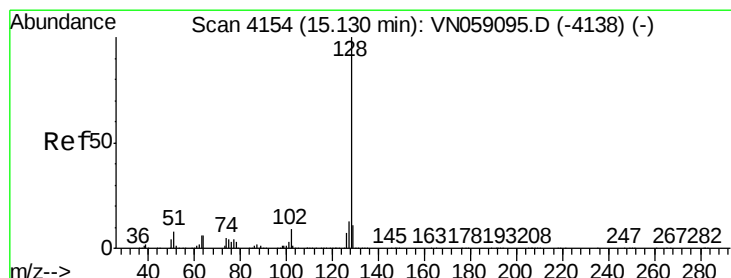
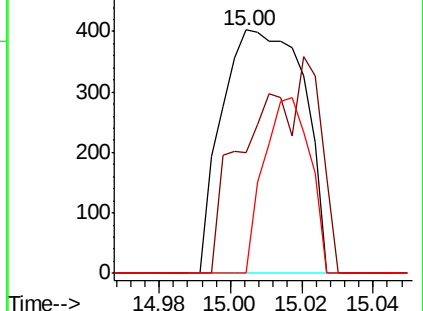
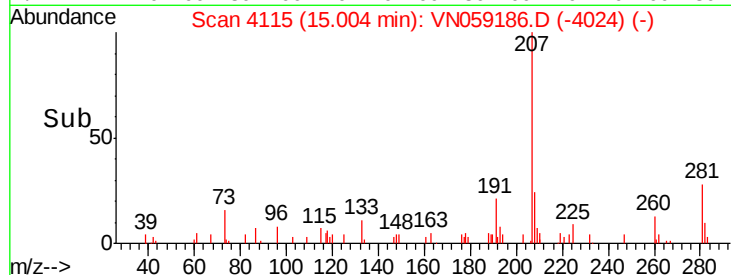
227 40.5 31.5 94.5



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

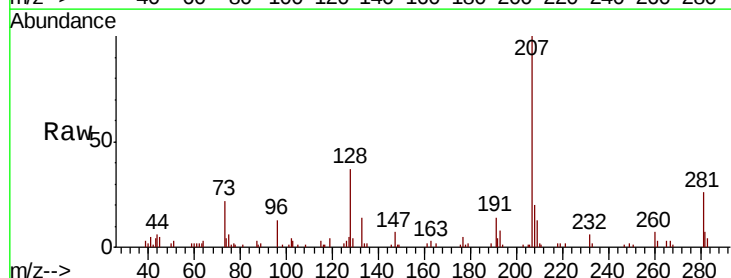
Tgt Ion:128 Resp: 11141

Ion Ratio Lower Upper

128 100

127 14.2 10.2 15.2

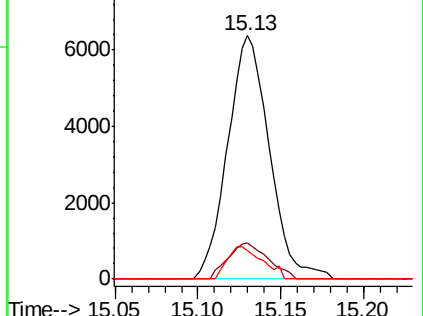
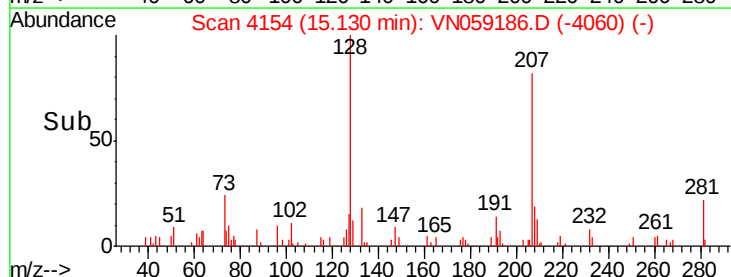
129 11.2 8.6 12.8

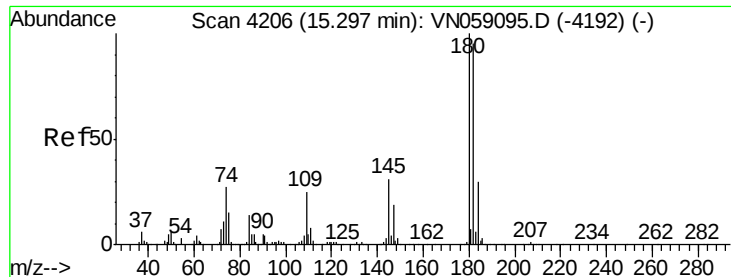


Abundance Ion 128.00 (127.70 to 128.70): V

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 :
 9-D

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

