

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102119\
 Data File : VN058879.D
 Acq On : 21 Oct 2019 11:49
 Operator : JC/SP
 Sample : K5451-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7326B

Quant Time: Oct 22 03:16:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	407464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	647729	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	554173	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	193602	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	304025	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
35) Dibromofluoromethane	7.57	113	216324	50.80	ug/l	0.00
Spiked Amount			Recovery	=	101.60%	
50) Toluene-d8	10.08	98	817843	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
62) 4-Bromofluorobenzene	12.40	95	255312	42.06	ug/l	0.00
Spiked Amount			Recovery	=	84.12%	

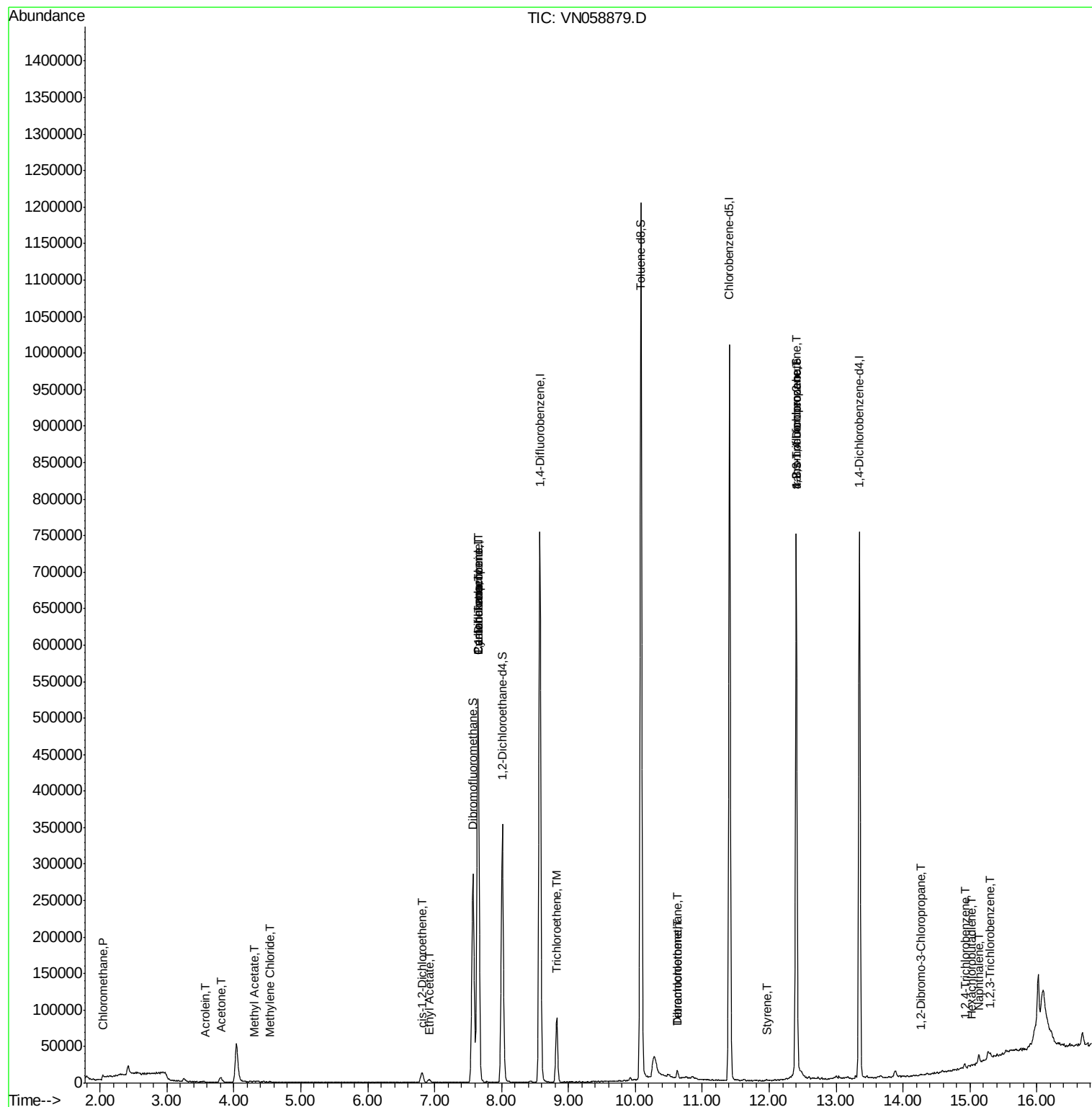
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	3835	0.610	ug/l #	88
13) Acrolein	3.58	56	253	0.371	ug/l #	79
16) Acetone	3.81	43	12004	4.065	ug/l	95
18) Methyl Acetate	4.32	43	1528	0.228	ug/l #	55
20) Methylene Chloride	4.54	84	1045	0.207	ug/l	90
27) cis-1,2-Dichloroethene	6.81	96	7202	1.421	ug/l	91
31) Cyclohexane	7.65	56	9909	1.154	ug/l #	10
36) 1,1-Dichloropropene	7.65	75	34182	5.155	ug/l #	51
37) Ethyl Acetate	6.91	43	6863	0.950	ug/l #	94
38) Carbon Tetrachloride	7.65	117	41316	6.048	ug/l #	19
44) Trichloroethene	8.82	130	30752	6.483	ug/l	94
60) Dibromochloromethane	10.62	129	2196	0.429	ug/l #	10
64) Tetrachloroethene	10.63	164	1920	0.495	ug/l	92
70) Styrene	11.96	104	541	1.754	ug/l #	73
76) 1,2,3-Trichloropropane	12.40	75	133540	29.762	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	133540	77.532	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.27	75	532	0.473	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.92	180	1608	2.916	ug/l	97
94) Hexachlorobutadiene	15.01	225	419	0.211	ug/l	81
95) Naphthalene	15.14	128	7284	2.853	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	2231	2.960	ug/l	89

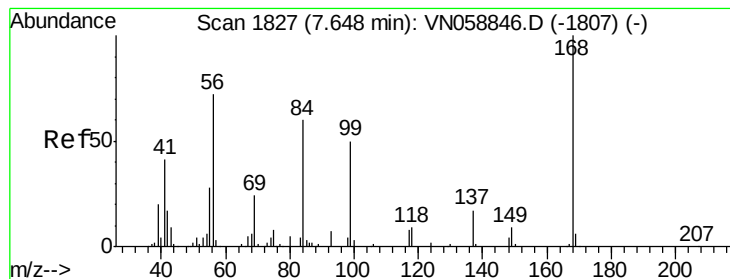
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

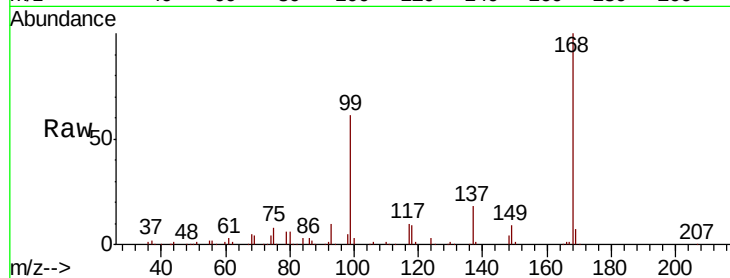
FA19-JBW7326B

Tot Ion:168 Resp: 407464

Ion Ratio Lower Upper

168 100

99 60.9 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

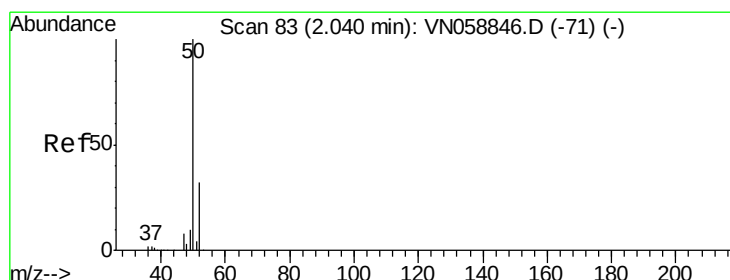
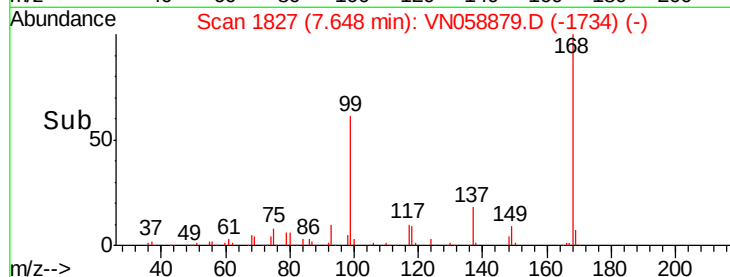
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.610 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058879.D

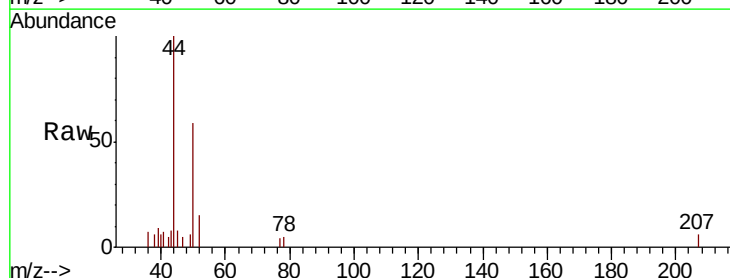
Acq: 21 Oct 2019 11:49

Tgt Ion: 50 Resp: 3835

Ion Ratio Lower Upper

50 100

52 25.6 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

3000

2500

2000

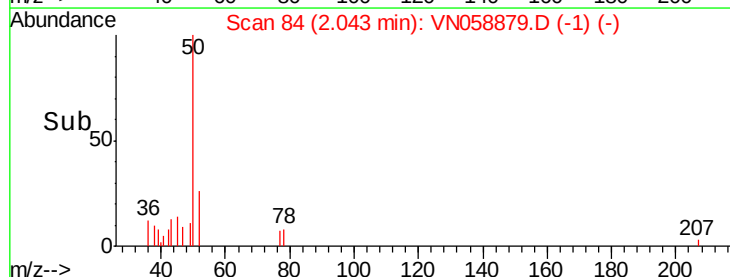
1500

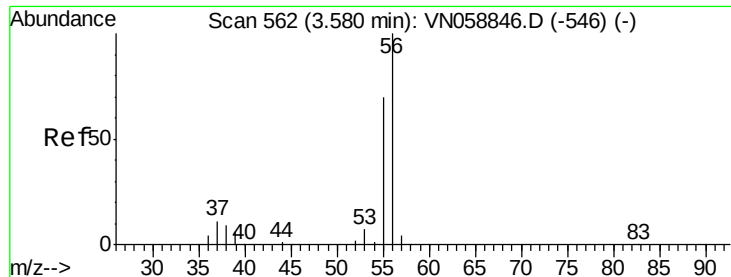
1000

500

0

Time-->

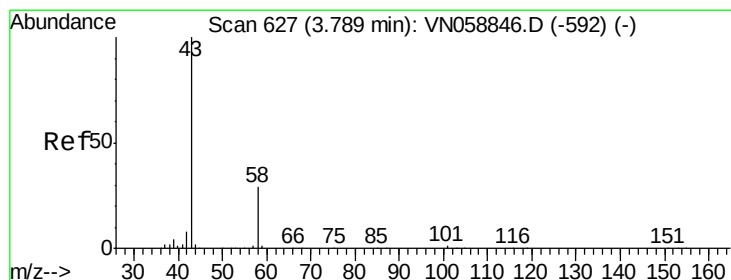
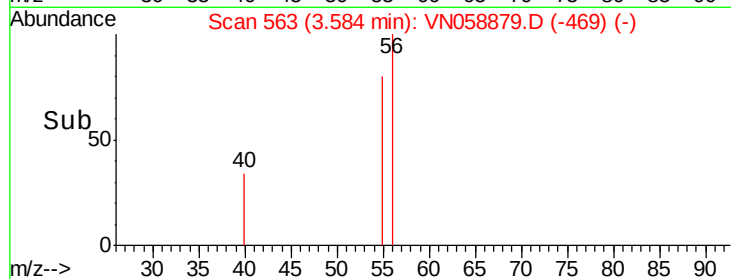
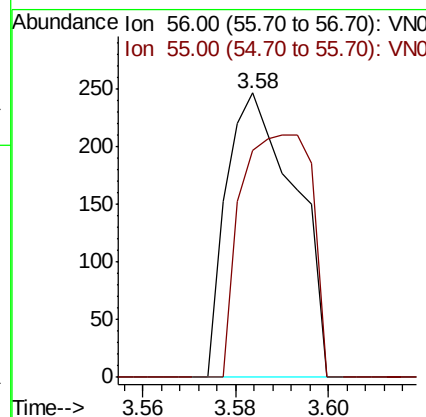
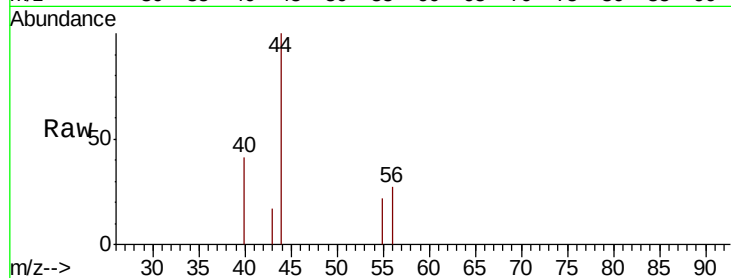




#13
Acrolein
Concen: 0.371 ug/l
RT: 3.58 min Scan# 563
Delta R.T. 0.00 min
Lab File: VN058879.D
Acq: 21 Oct 2019 11:49

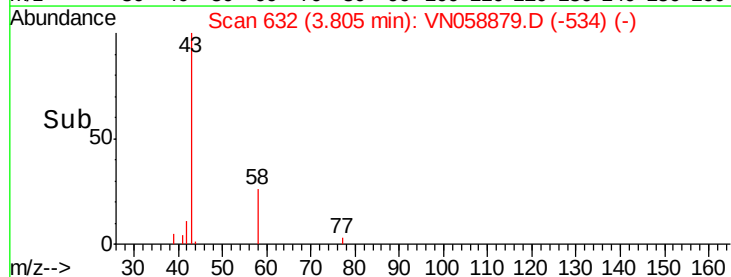
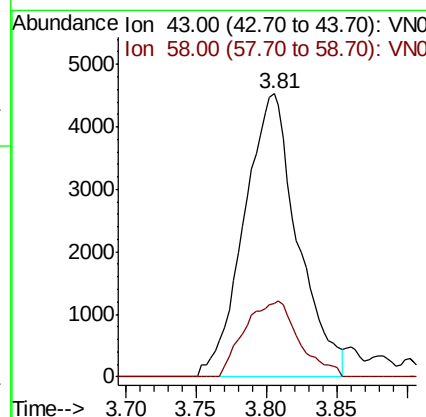
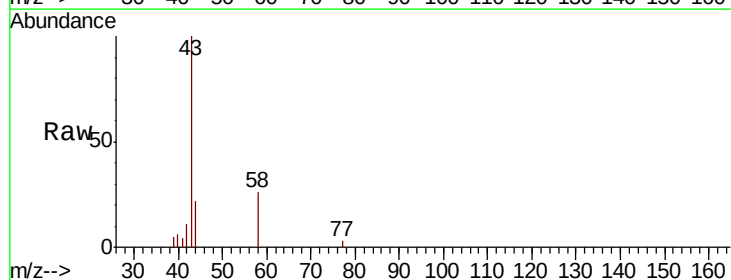
Instrument :
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FA19-JBW7326B

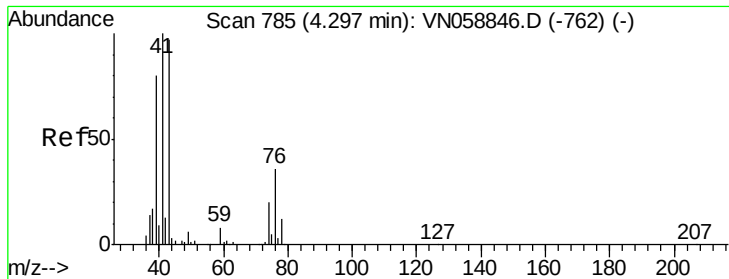
Tot Ion: 56 Resp: 253
Ion Ratio Lower Upper
56 100
55 88.1 56.6 85.0#



#16
Acetone
Concen: 4.065 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.02 min
Lab File: VN058879.D
Acq: 21 Oct 2019 11:49

Tgt Ion: 43 Resp: 12004
Ion Ratio Lower Upper
43 100
58 26.2 23.1 34.7

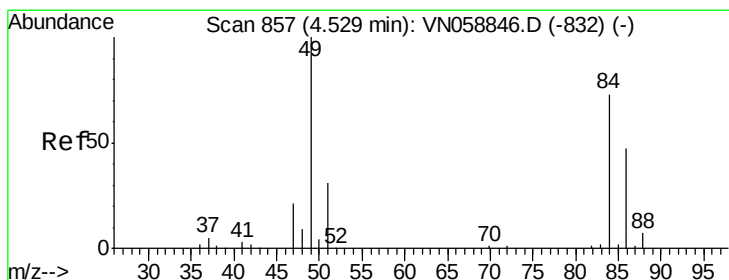
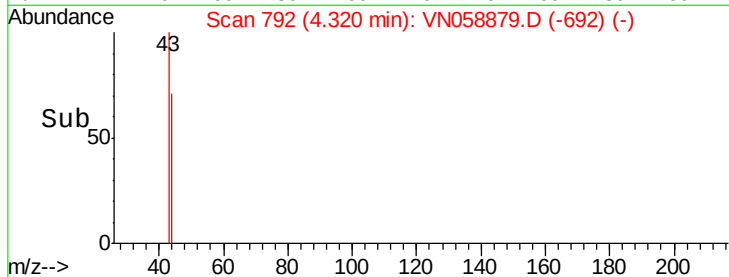
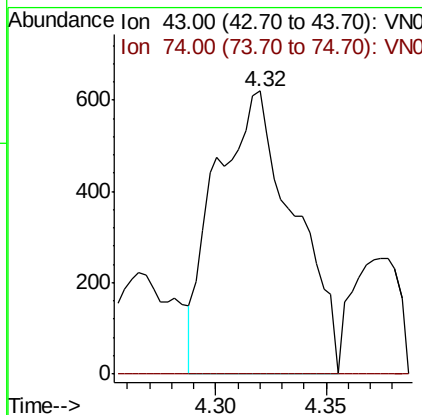
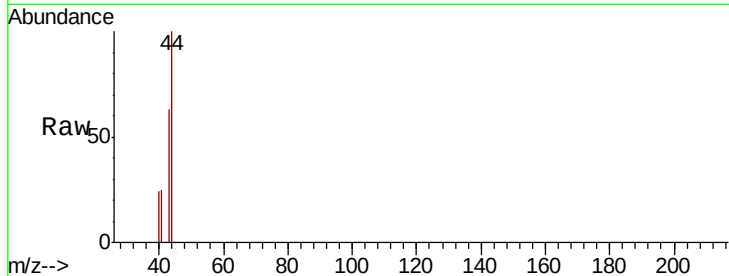




#18
Methvl Acetate
Concen: 0.228 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN058879.D
Acq: 21 Oct 2019 11:49

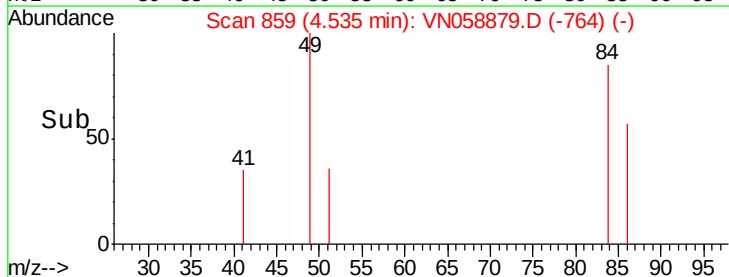
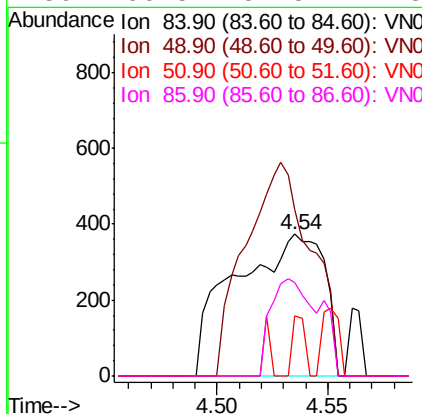
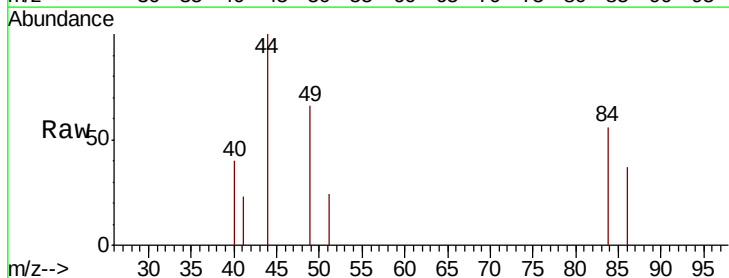
Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7326B

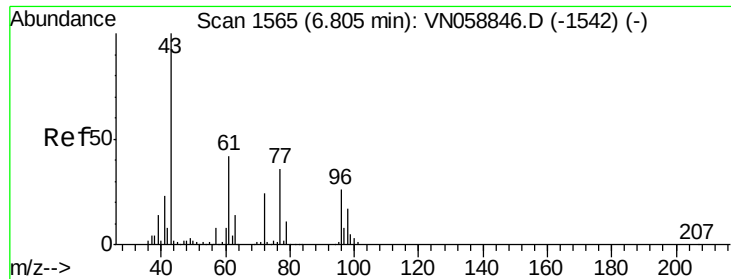
Tot Ion: 43 Resp: 1528
Ion Ratio Lower Upper
43 100
74 0.0 17.1 25.7#



#20
Methylene Chloride
Concen: 0.207 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058879.D
Acq: 21 Oct 2019 11:49

Tgt Ion: 84 Resp: 1045
Ion Ratio Lower Upper
84 100
49 117.4 109.6 164.4
51 42.1 33.8 50.6
86 66.5 51.5 77.3





#27

cis-1,2-Dichloroethene

Concen: 1.421 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7326B

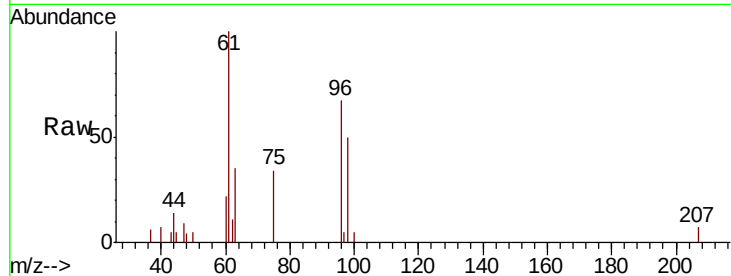
Tot Ion: 96 Resp: 7202

Ion Ratio Lower Upper

96 100

61 148.4 0.0 325.0

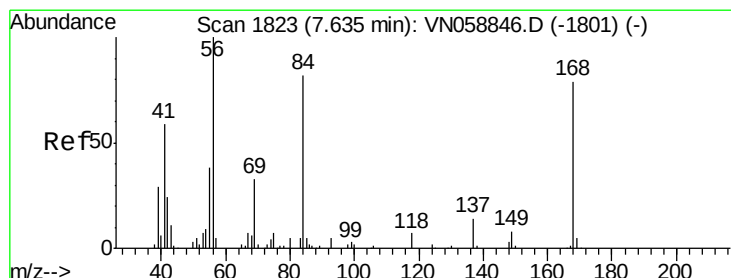
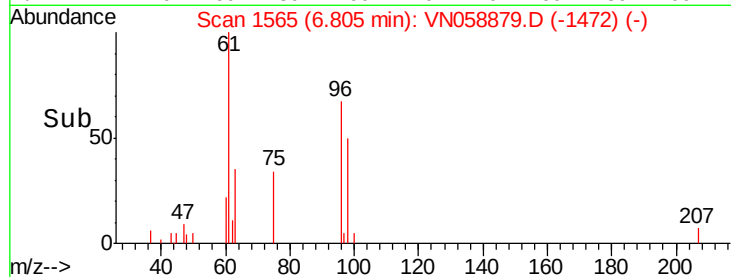
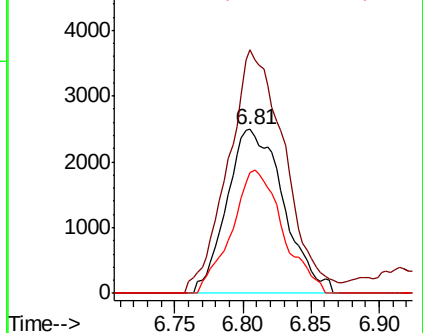
98 68.0 0.0 128.0



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.154 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.02 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

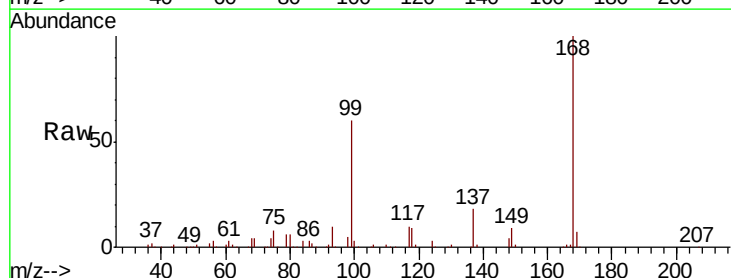
Tgt Ion: 56 Resp: 9909

Ion Ratio Lower Upper

56 100

69 164.7 26.2 39.4#

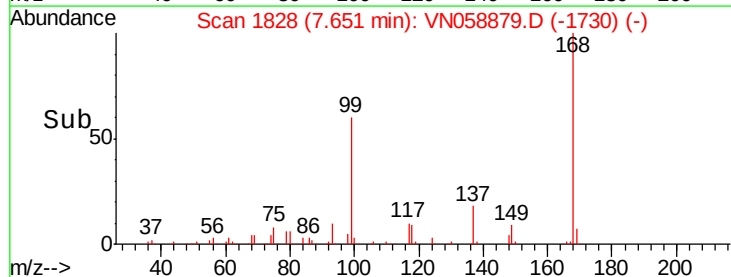
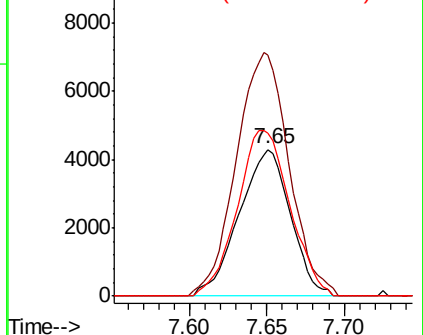
84 111.5 65.6 98.4#

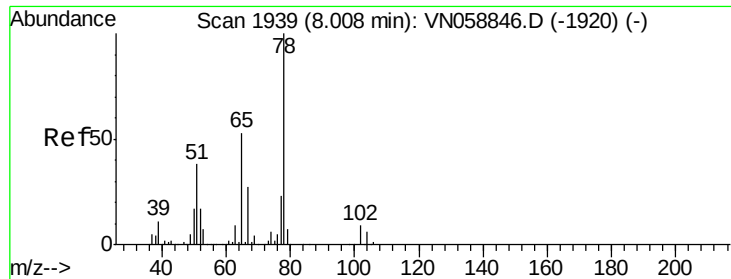


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

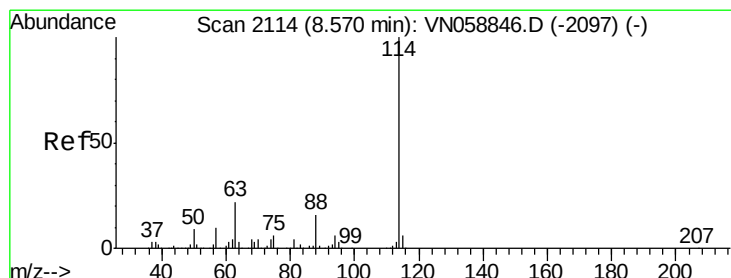
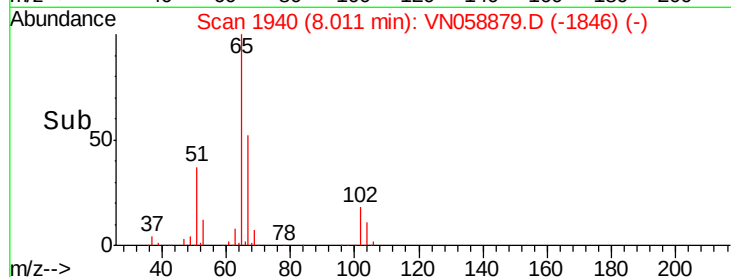
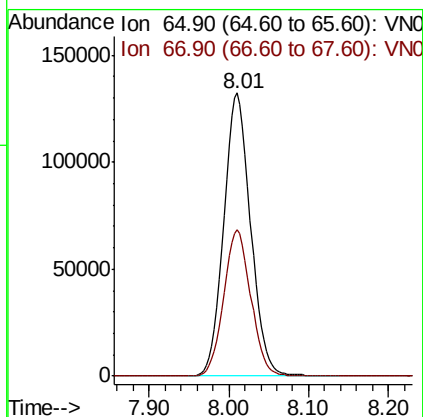
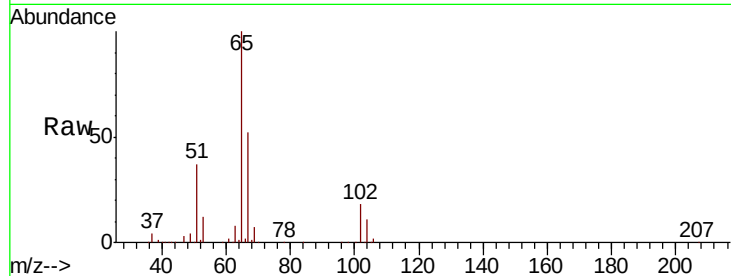




#33
 1,2-Dichloroethane-d4
 Concen: 50.874 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058879.D
 Acq: 21 Oct 2019 11:49

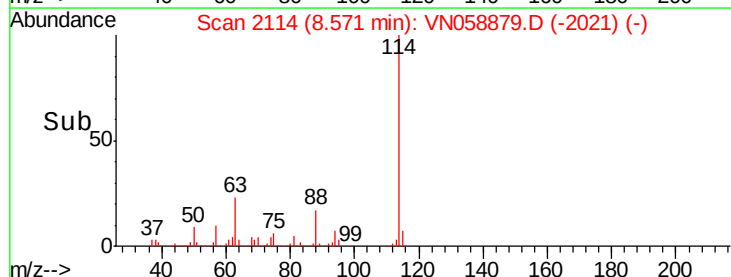
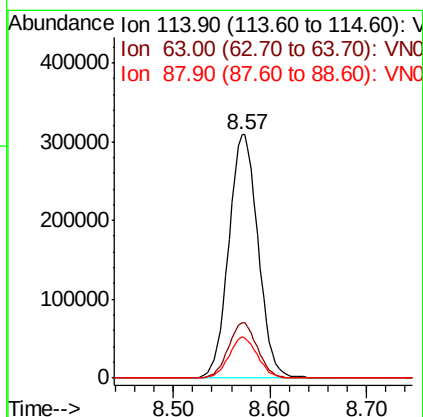
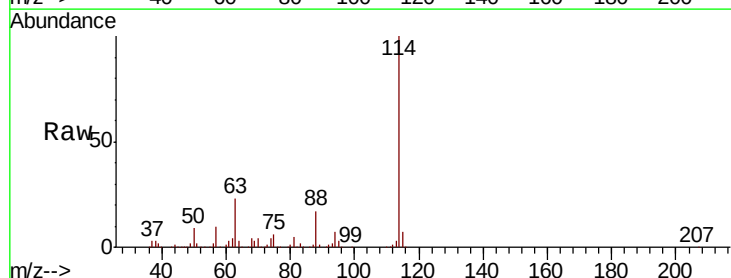
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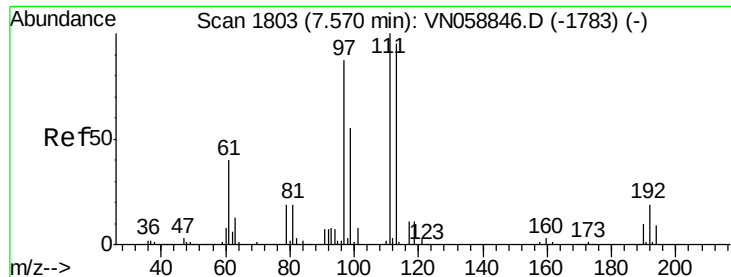
Tot Ion: 65 Resp: 304025
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN058879.D
 Acq: 21 Oct 2019 11:49

Tgt Ion: 114 Resp: 647729
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.4
 88 16.8 0.0 31.4

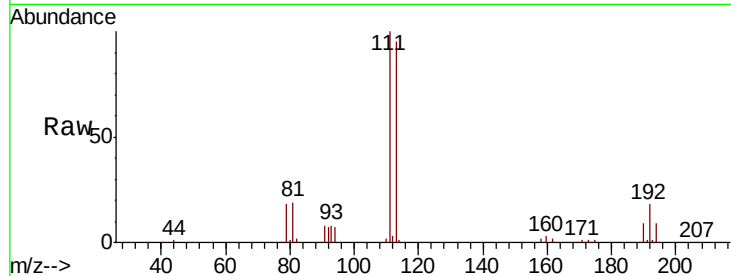




#35
 Dibromofluoromethane
 Concen: 50.796 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058879.D
 Acq: 21 Oct 2019 11:49

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7326B

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.0	123.0
192	19.1	15.0	22.6

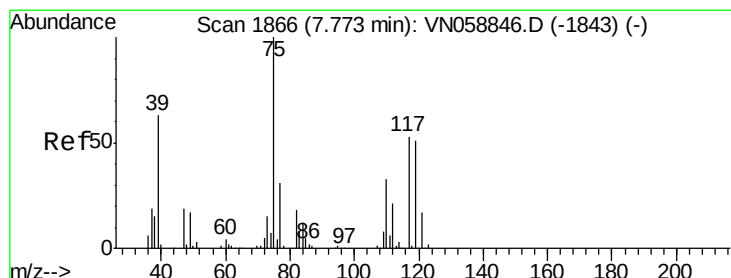
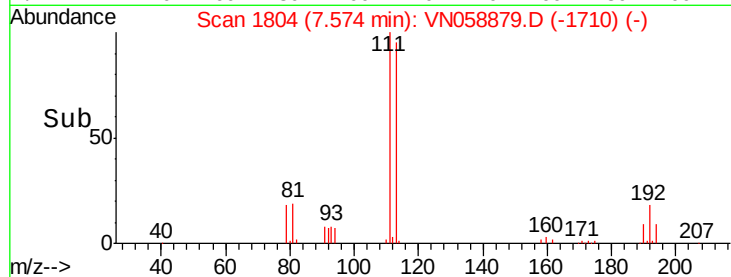
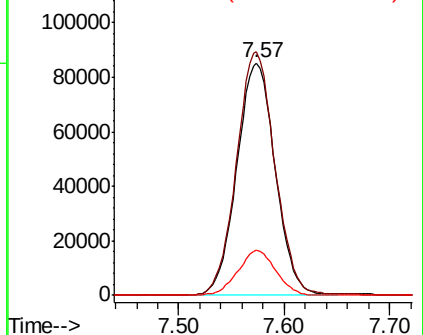


Abundance

Ion 112.80 (112.50 to 113.50): V

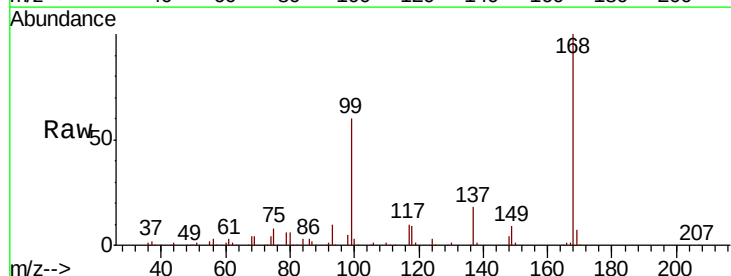
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.155 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.12 min
 Lab File: VN058879.D
 Acq: 21 Oct 2019 11:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.3	48.9#
77	0.0	24.6	36.8#

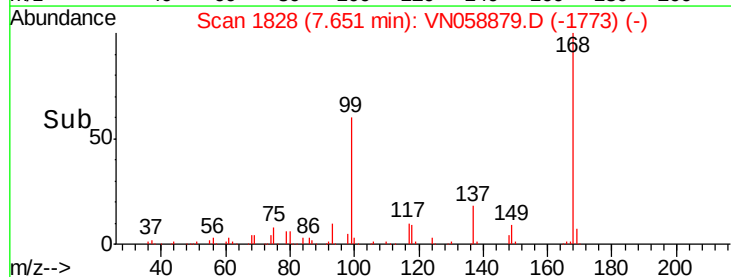
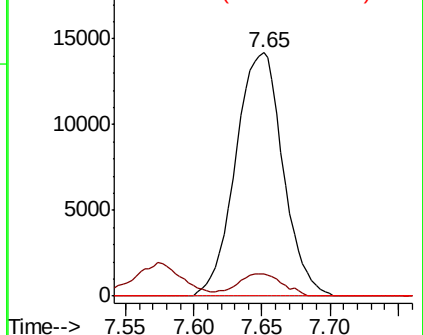


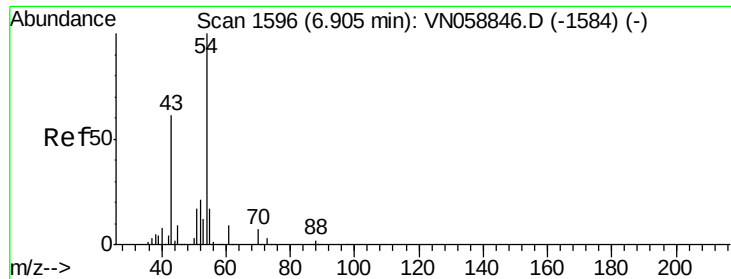
Abundance

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

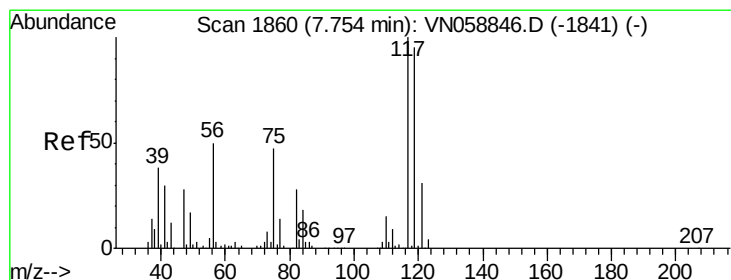
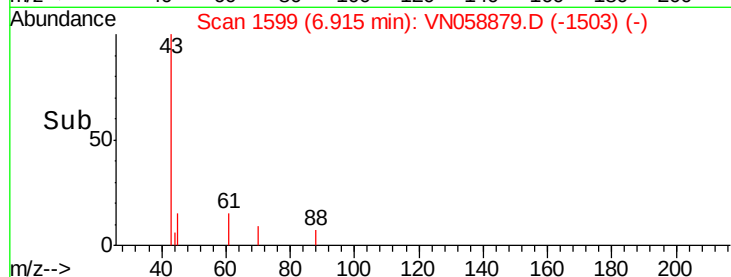
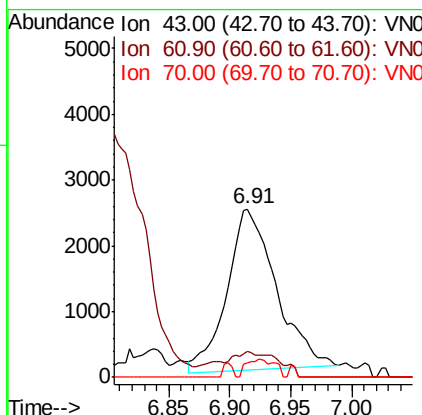
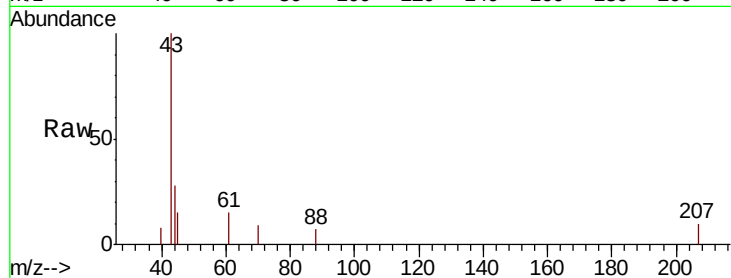




#37
Ethyl Acetate
Concen: 0.950 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.01 min
Lab File: VN058879.D
Acq: 21 Oct 2019 11:49

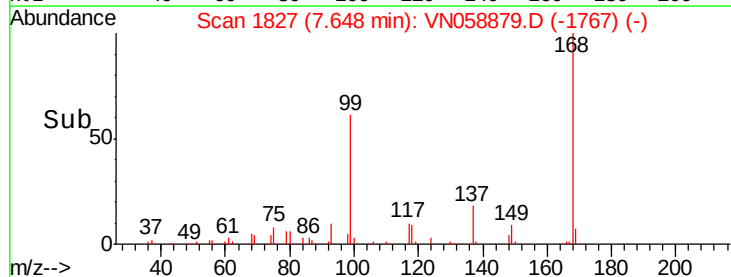
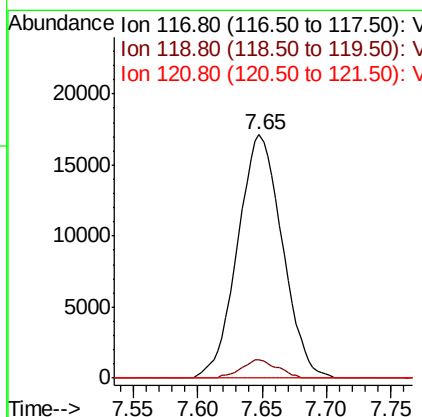
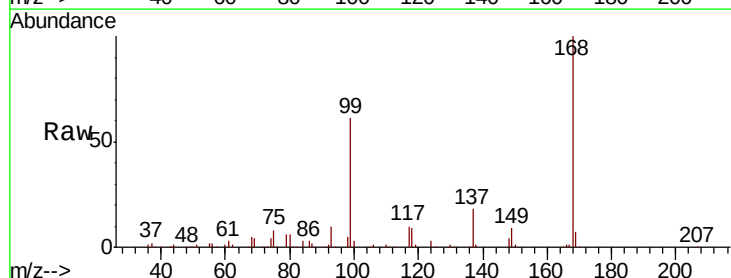
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ClientSampleId :
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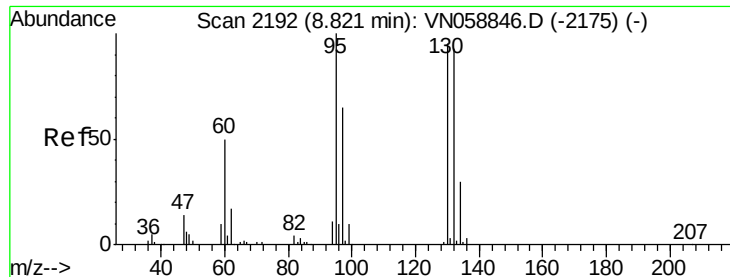
Tot Ion: 43 Resp: 6863
Ion Ratio Lower Upper
43 100
61 14.8 10.5 15.7
70 6.4 7.6 11.4#



#38
Carbon Tetrachloride
Concen: 6.048 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058879.D
Acq: 21 Oct 2019 11:49

Tgt Ion: 117 Resp: 41316
Ion Ratio Lower Upper
117 100
119 7.7 75.7 113.5#
121 0.0 25.0 37.6#





#44

Trichloroethene

Concen: 6.483 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

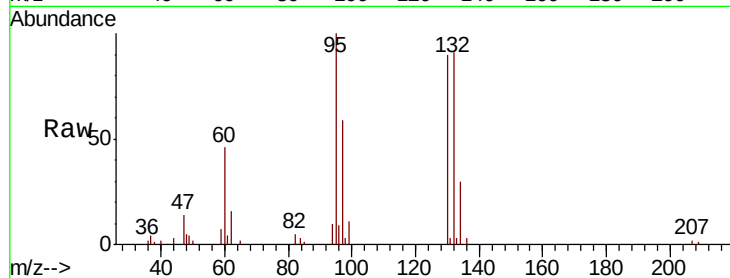
FA19-JBW7326B

Tot Ion:130 Resp: 30752

Ion Ratio Lower Upper

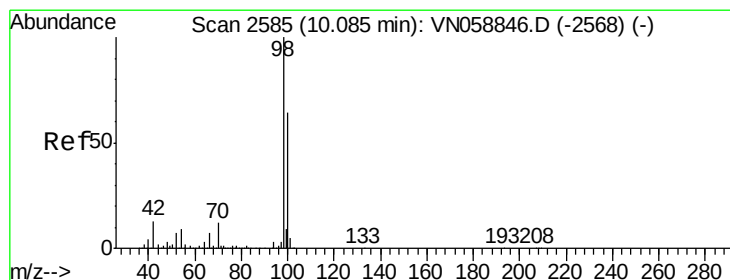
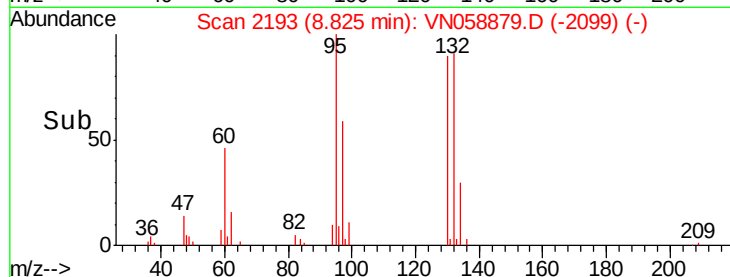
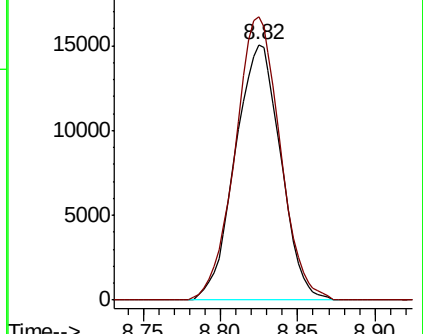
130 100

95 110.7 0.0 209.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 49.472 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058879.D

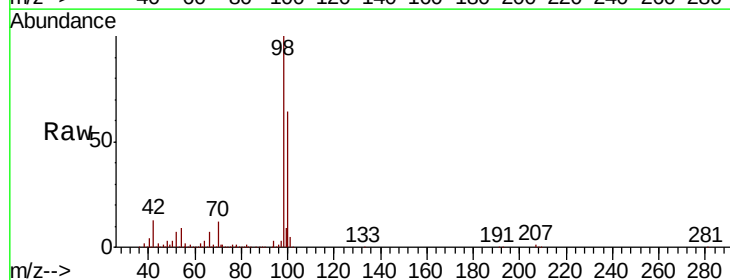
Acq: 21 Oct 2019 11:49

Tgt Ion: 98 Resp: 817843

Ion Ratio Lower Upper

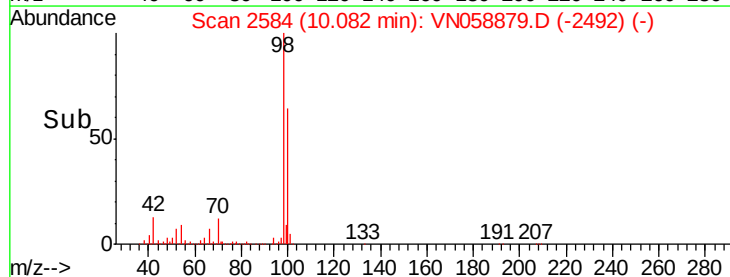
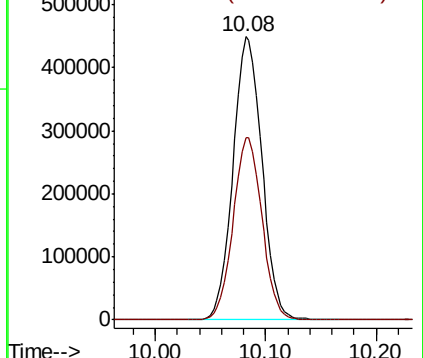
98 100

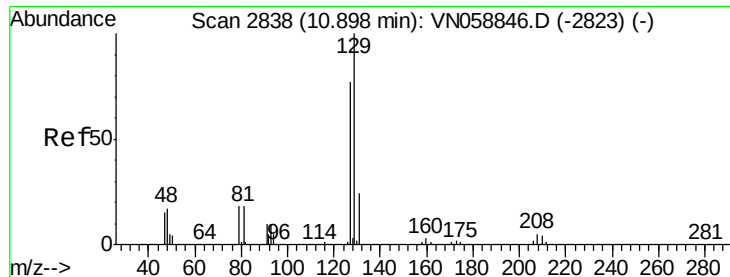
100 64.2 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#60

Dibromochloromethane

Concen: 0.429 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.28 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

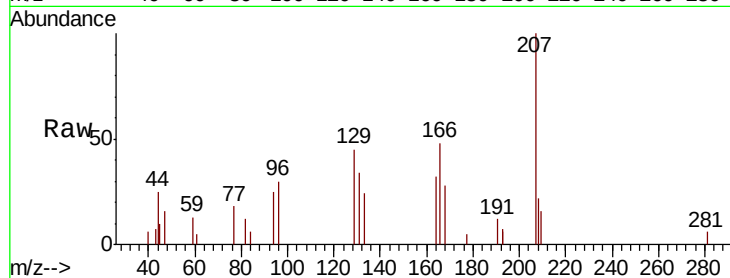
FA19-JBW7326B

Tot Ion:129 Resp: 2196

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.62

1500

1000

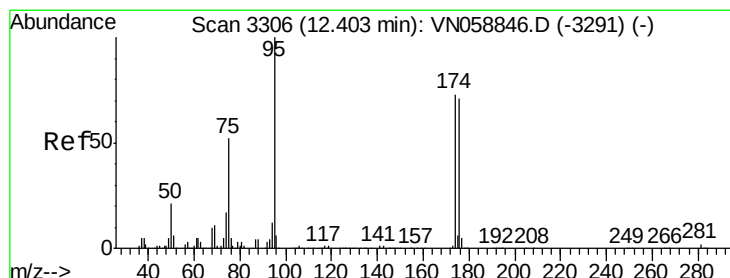
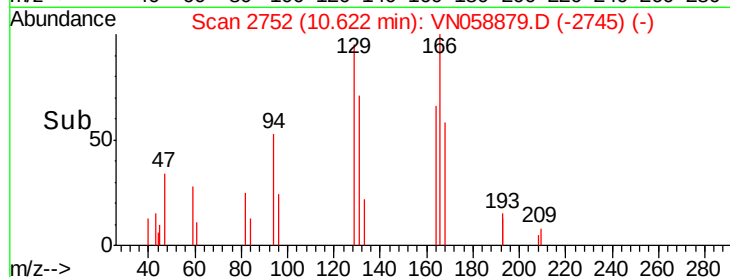
500

0

Time-->

10.60

10.65



#62

4-Bromofluorobenzene

Concen: 42.056 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

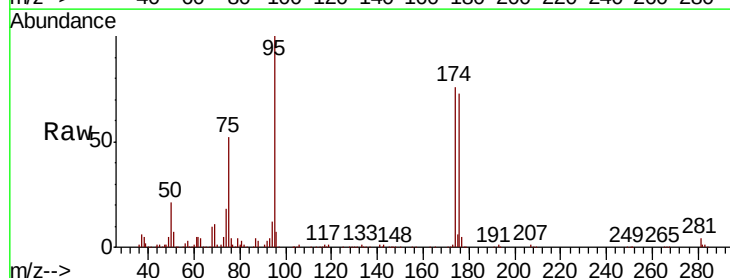
Tgt Ion: 95 Resp: 255312

Ion Ratio Lower Upper

95 100

174 75.6 0.0 147.6

176 73.4 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

100000

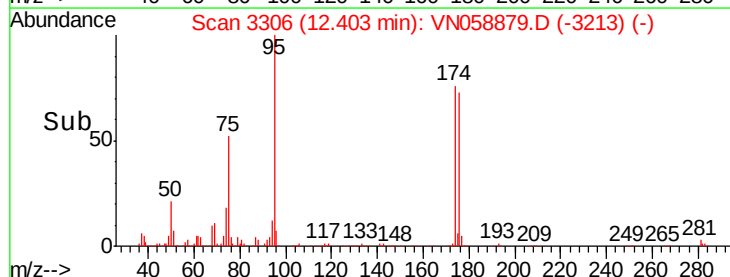
50000

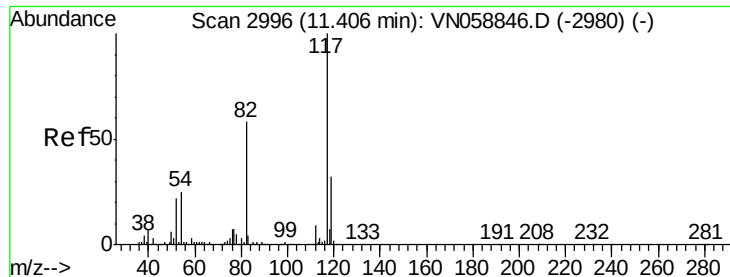
0

Time-->

12.40

12.50

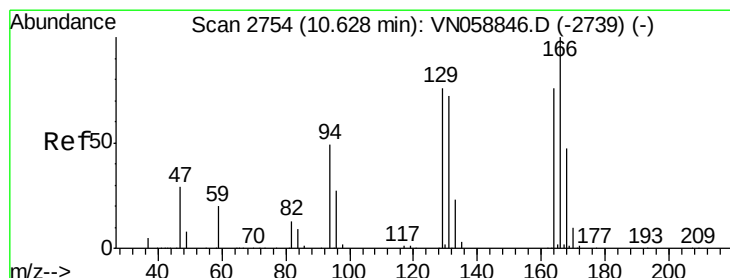
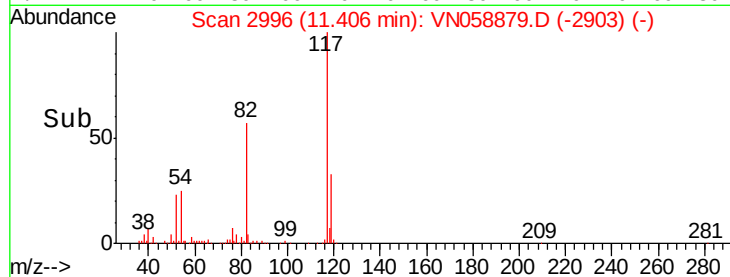
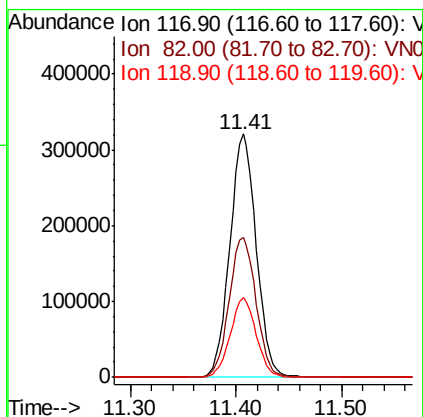
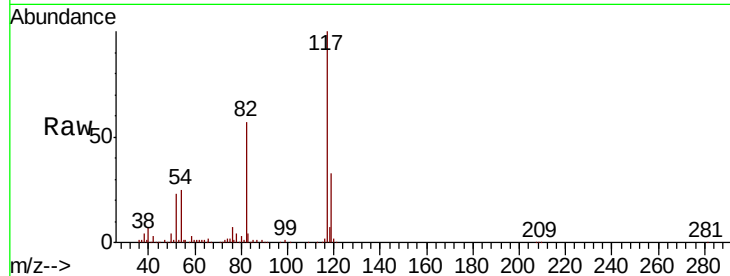




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058879.D
Acq: 21 Oct 2019 11:49

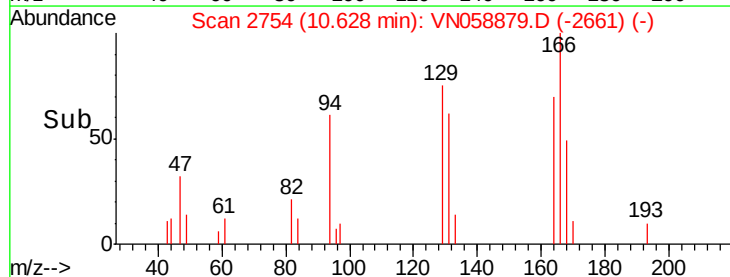
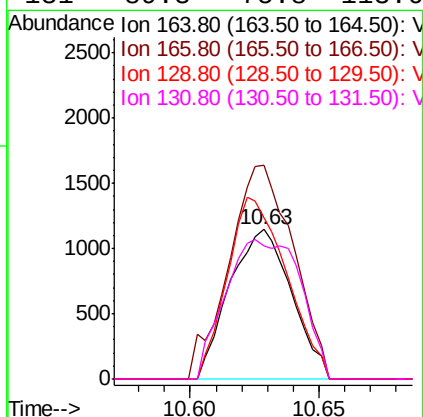
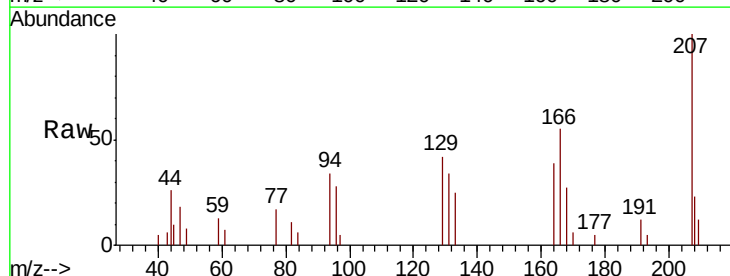
Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7326B

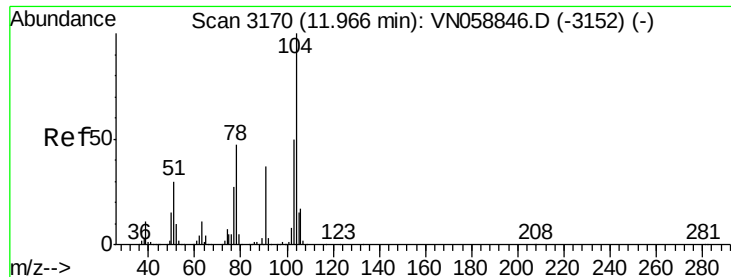
Tot Ion:117 Resp: 554173
Ion Ratio Lower Upper
117 100
82 57.4 46.6 69.8
119 32.6 25.6 38.4



#64
Tetrachloroethene
Concen: 0.495 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058879.D
Acq: 21 Oct 2019 11:49

Tgt Ion:164 Resp: 1920
Ion Ratio Lower Upper
164 100
166 143.1 104.8 157.2
129 108.0 79.3 118.9
131 89.3 75.8 113.6





#70

Stvrene

Concen: 1.754 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7326B

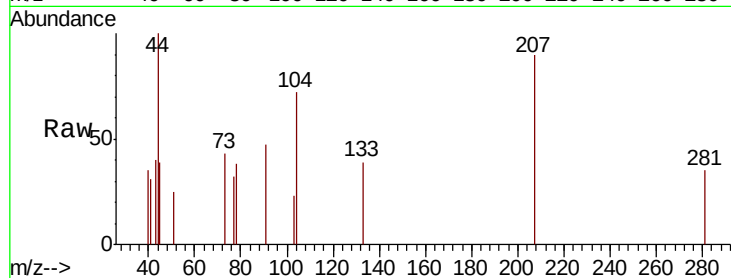
Tot Ion:104 Resp: 541

Ion Ratio Lower Upper

104 100

78 56.0 42.8 64.2

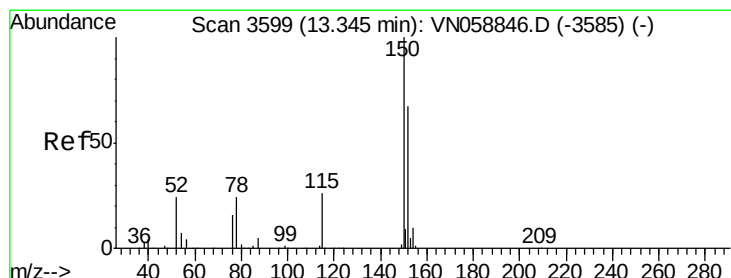
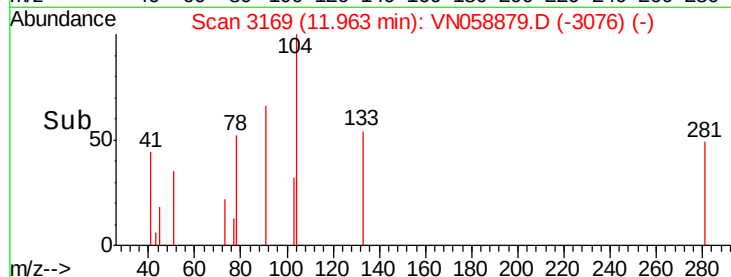
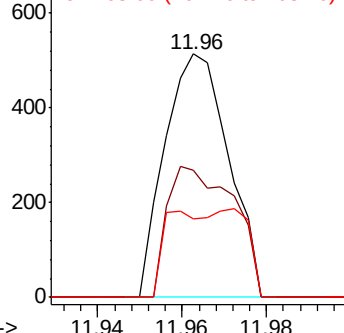
103 18.9 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): 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: VN058879.D

Acq: 21 Oct 2019 11:49

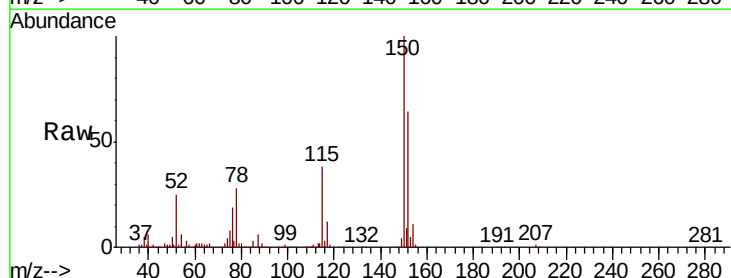
Tgt Ion:152 Resp: 193602

Ion Ratio Lower Upper

152 100

115 60.7 30.5 91.5

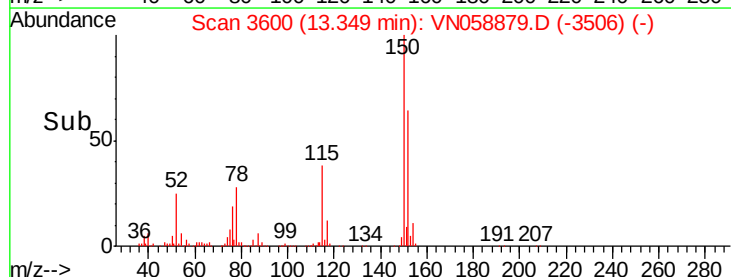
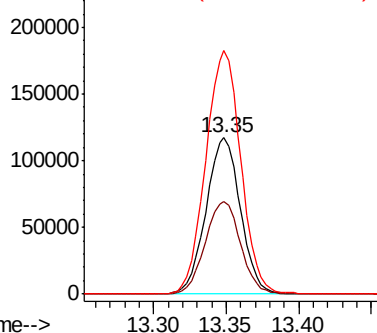
150 158.8 0.0 344.4

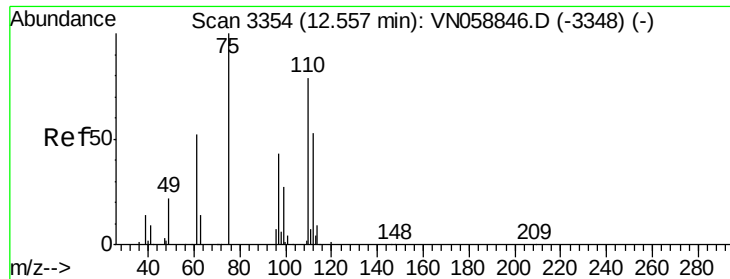


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

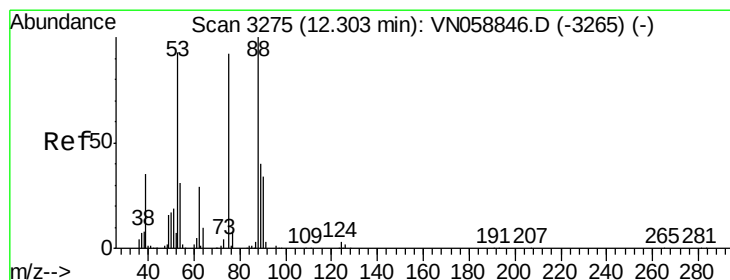
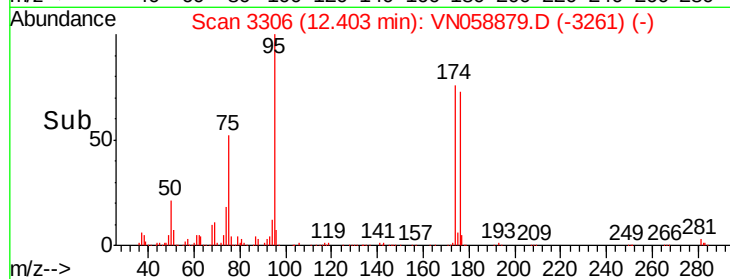
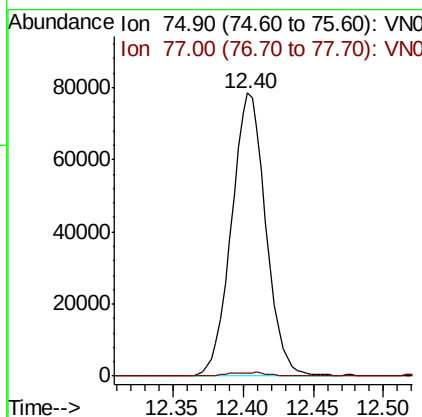
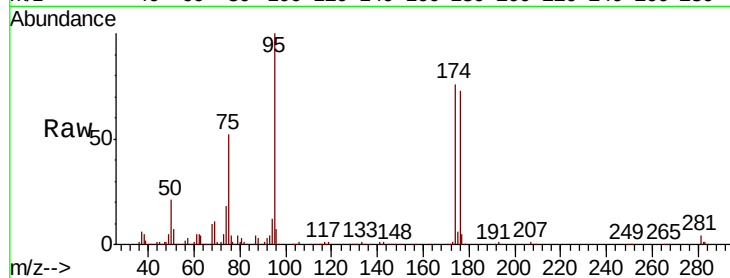




#76
 1,2,3-Trichloropropane
 Concen: 29.762 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN058879.D
 Acq: 21 Oct 2019 11:49

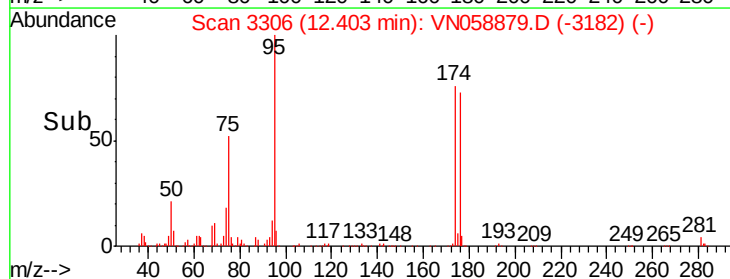
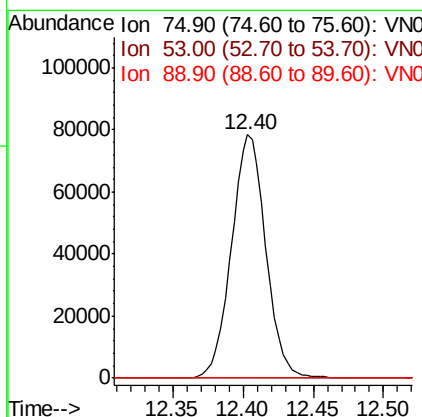
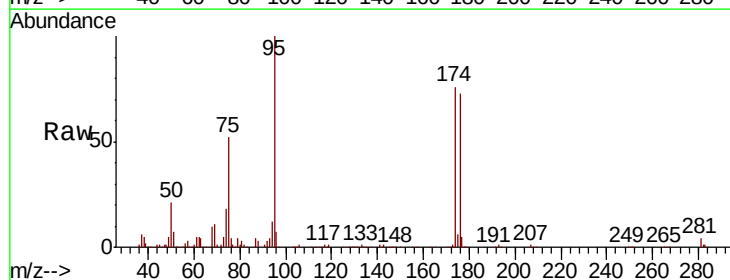
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7326B

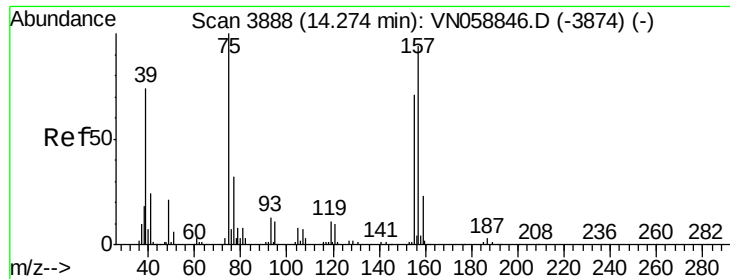
Tot Ion: 75 Resp: 133540
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.532 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN058879.D
 Acq: 21 Oct 2019 11:49

Tgt Ion: 75 Resp: 133540
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.6 118.0#
 89 0.0 35.4 53.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.473 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. -0.00 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7326B

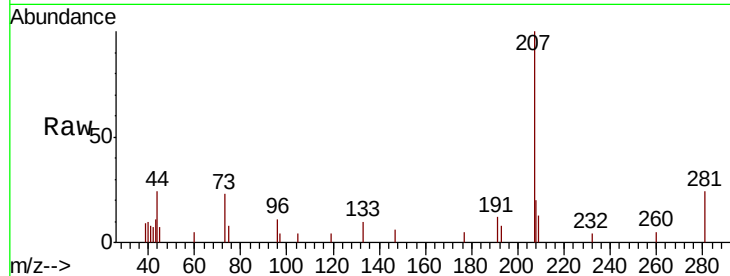
Tot Ion: 75 Resp: 532

Ion Ratio Lower Upper

75 100

155 10.9 35.6 106.8#

157 0.0 47.4 142.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058879.D (-3874) (-)

Ion 154.80 (154.50 to 155.50): VN058879.D (-3874) (-)

Ion 156.80 (156.50 to 157.50): VN058879.D (-3874) (-)

14.27

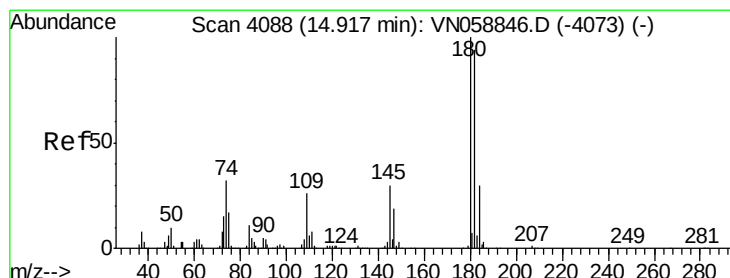
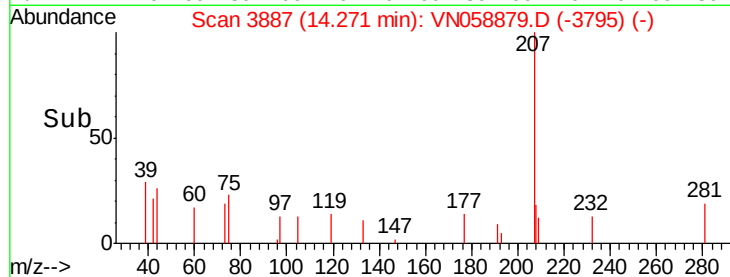
300

200

100

0

Time--> 14.24 14.26 14.28 14.30



#93

1,2,4-Trichlorobenzene

Concen: 2.916 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

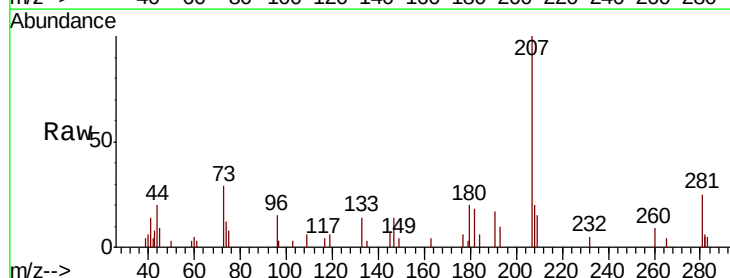
Tgt Ion: 180 Resp: 1608

Ion Ratio Lower Upper

180 100

182 97.1 47.3 142.0

145 31.8 15.3 45.8



Abundance Ion 179.80 (179.50 to 180.50): VN058879.D (-4073) (-)

Ion 181.80 (181.50 to 182.50): VN058879.D (-4073) (-)

Ion 144.80 (144.50 to 145.50): VN058879.D (-4073) (-)

14.92

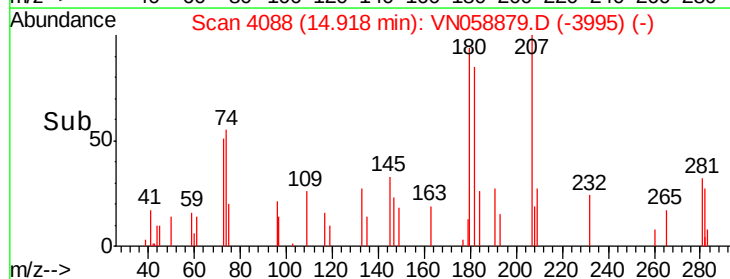
1500

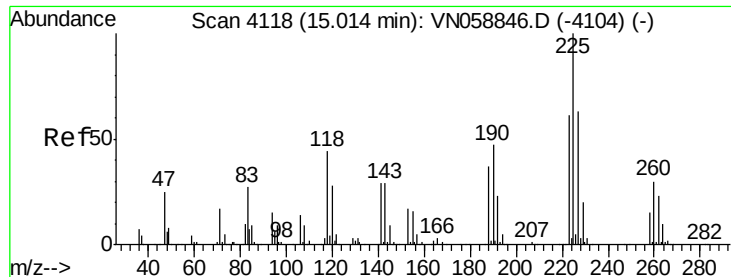
1000

500

0

Time--> 14.90 14.95





#94

Hexachlorobutadiene

Concen: 0.211 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7326B

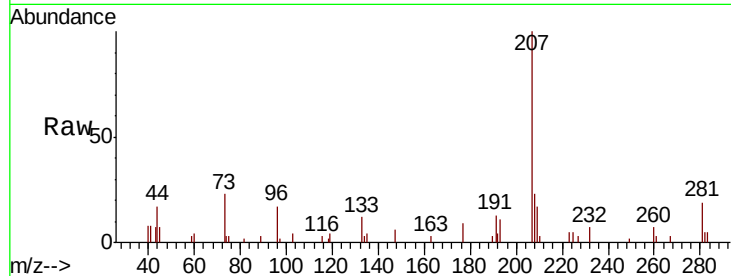
Tot Ion:225 Resp: 419

Ion Ratio Lower Upper

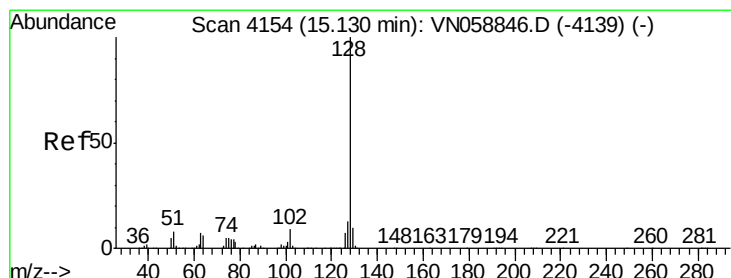
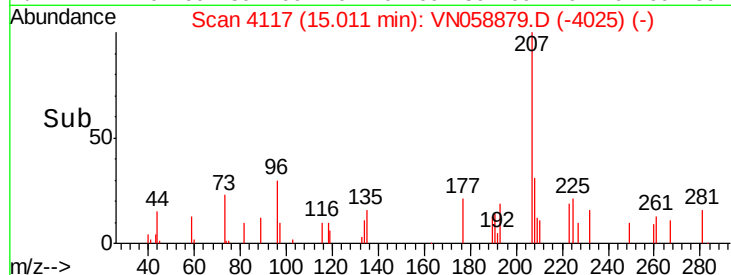
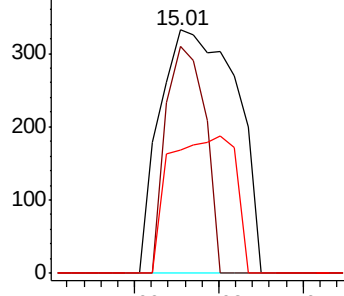
225 100

223 48.0 30.9 92.5

227 48.2 31.6 94.7



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: 2.853 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058879.D

Acq: 21 Oct 2019 11:49

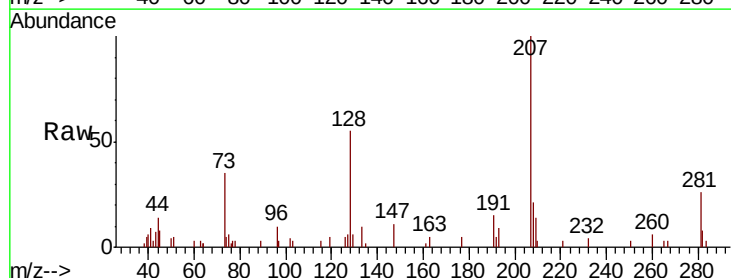
Tgt Ion:128 Resp: 7284

Ion Ratio Lower Upper

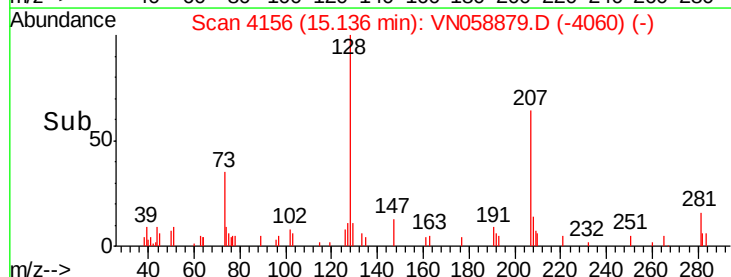
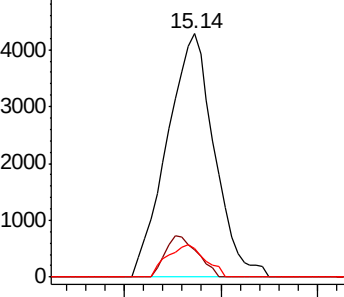
128 100

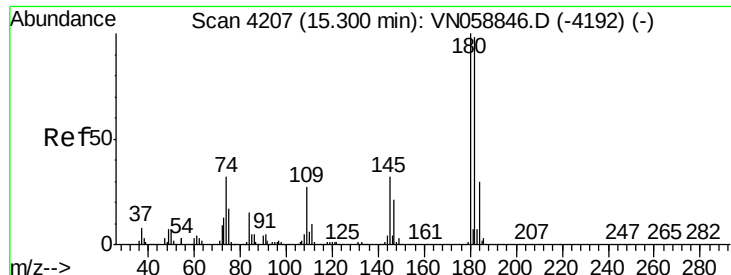
127 11.5 10.2 15.2

129 10.5 8.4 12.6



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: 2.960 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN058879.D
 Acq: 21 Oct 2019 11:49

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7326B

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.8	47.9	143.7
145	23.1	15.9	47.7

