

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080519\
 Data File : VN057079.D
 Acq On : 5 Aug 2019 13:28
 Operator : JC/SP
 Sample : K4090-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 06 01:09:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	557328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	817524	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	691702	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	208682	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	273465	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
35) Dibromofluoromethane	7.58	113	250897	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
50) Toluene-d8	10.08	98	961186	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
62) 4-Bromofluorobenzene	12.40	95	266279	40.98	ug/l	0.00
Spiked Amount			Recovery	=	81.96%	

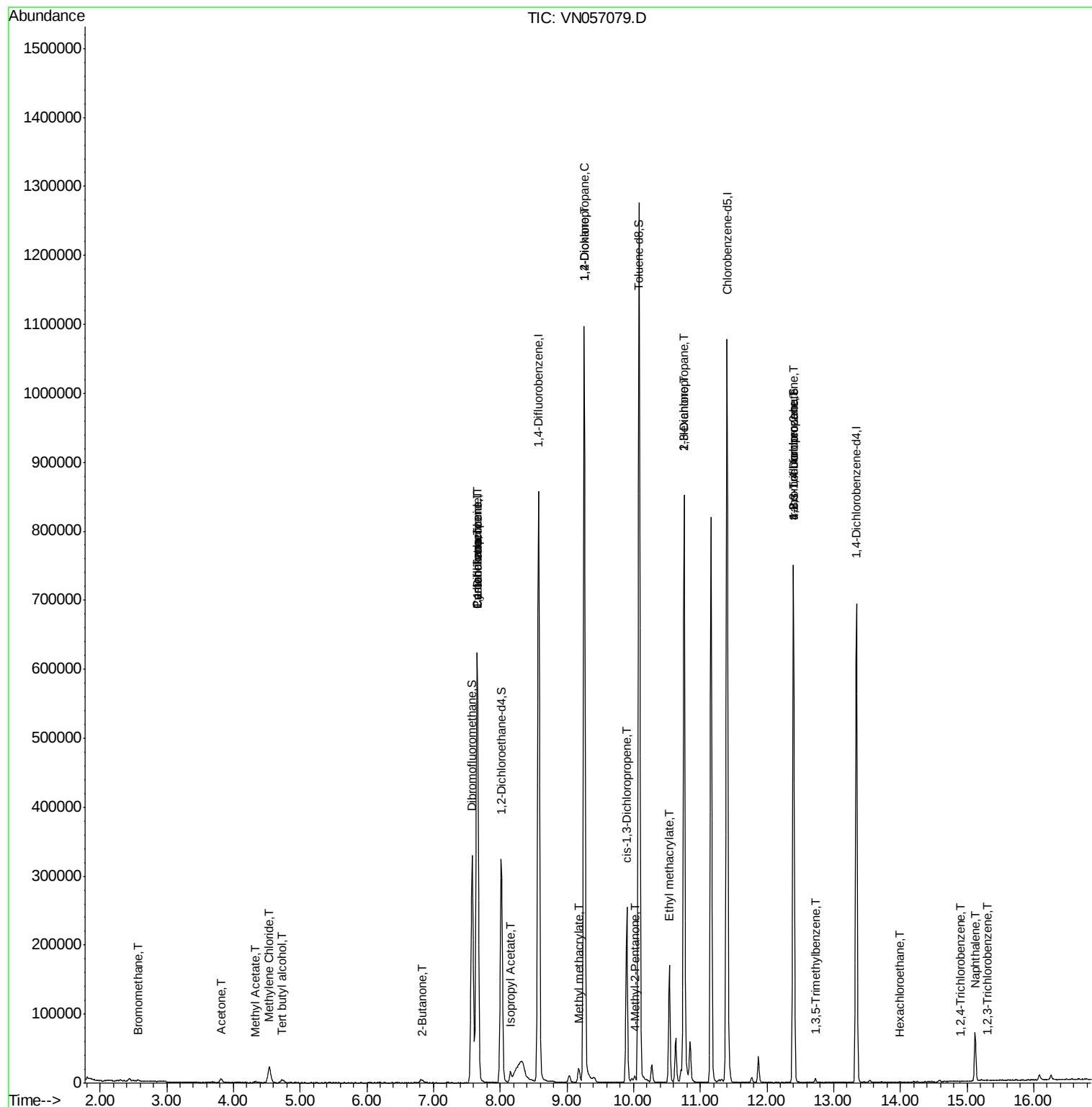
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1475	0.375	ug/l #	75
11) Tert butyl alcohol	4.72	59	2331	3.023	ug/l #	74
16) Acetone	3.82	43	11159	5.399	ug/l	90
18) Methyl Acetate	4.33	43	3030	0.460	ug/l #	53
20) Methylene Chloride	4.54	84	18375	3.086	ug/l	95
25) 2-Butanone	6.84	43	905	0.309	ug/l #	85
31) Cyclohexane	7.66	56	8004	0.854	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	33734	4.689	ug/l #	49
38) Carbon Tetrachloride	7.66	117	47966	7.049	ug/l #	17
43) Isopropyl Acetate	8.15	43	17946	1.885	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1369	0.231	ug/l #	44
48) Methyl methacrylate	9.17	41	7581	1.649	ug/l #	12
49) 1,4-Dioxane	9.27	88	66	0.697	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	6717	1.187	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	49381	5.824	ug/l #	64
56) Ethyl methacrylate	10.54	69	1001	1.880	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	10230	1.156	ug/l #	42
59) 2-Hexanone	10.76	43	120355	29.845	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	123286	29.091	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2969	0.201	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	123286	93.468	ug/l #	15
90) Hexachloroethane	13.99	117	571	0.221	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.90	180	65	2.728	ug/l #	20
95) Naphthalene	15.12	128	60993	9.973	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	259	2.117	ug/l #	41

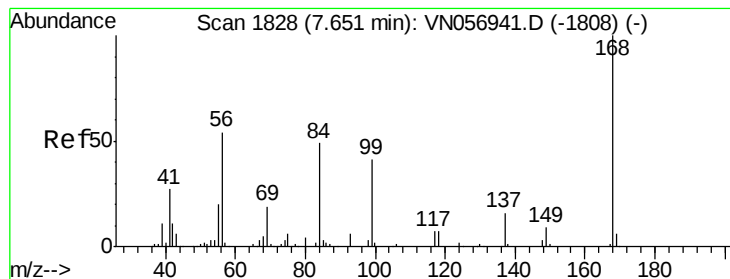
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Aug 06 01:09:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

Instrument :

MSVOA_N

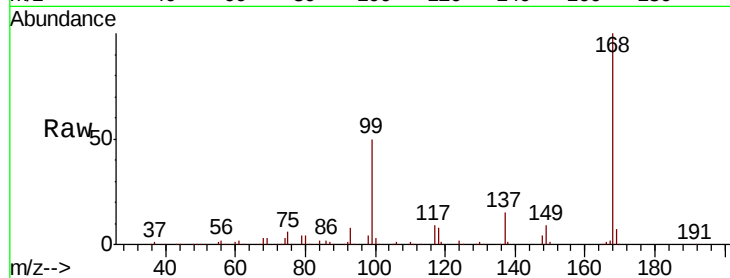
ClientSampled :

Tot Ion:168 Resp: 557328

Ion Ratio Lower Upper

168 100

99 49.6 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VN056941.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN056941.D (-1808) (-)

7.66

250000

200000

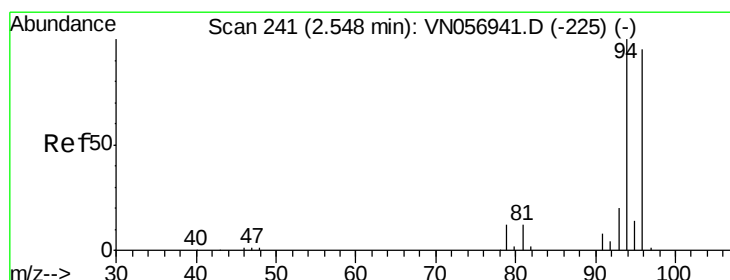
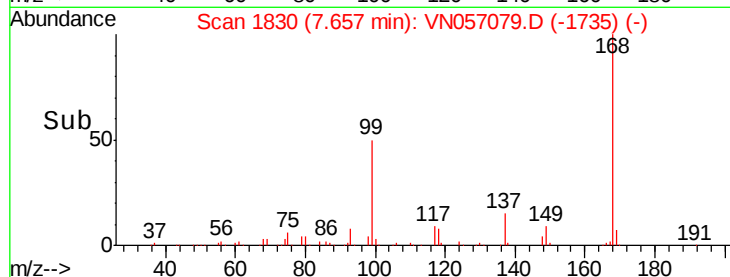
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.375 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.02 min

Lab File: VN057079.D

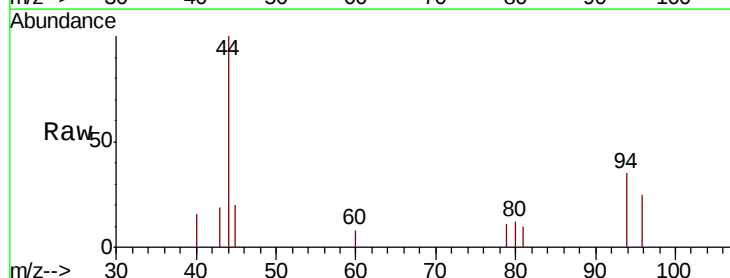
Acq: 5 Aug 2019 13:28

Tgt Ion: 94 Resp: 1475

Ion Ratio Lower Upper

94 100

96 71.3 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN056941.D (-225) (-)

Ion 95.90 (95.60 to 96.60): VN056941.D (-225) (-)

2.57

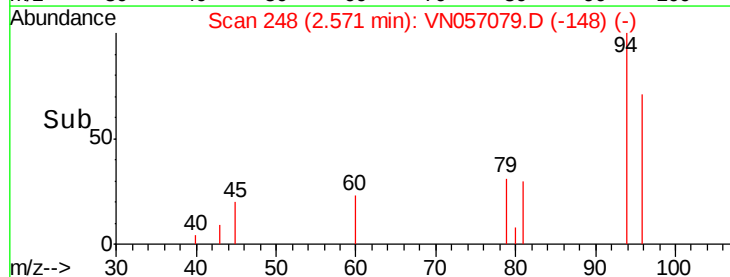
600

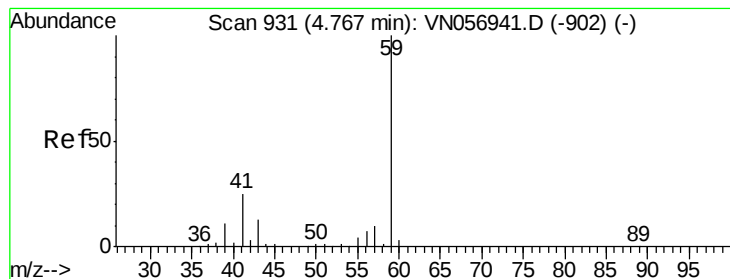
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200

0

Time-->



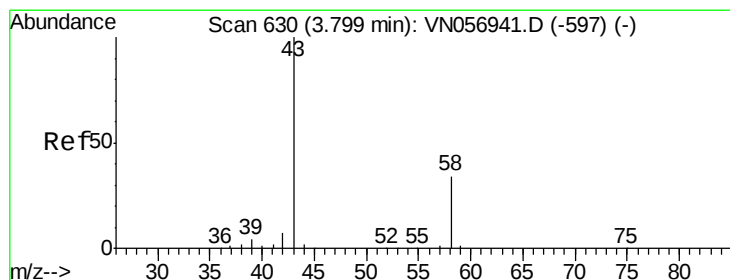
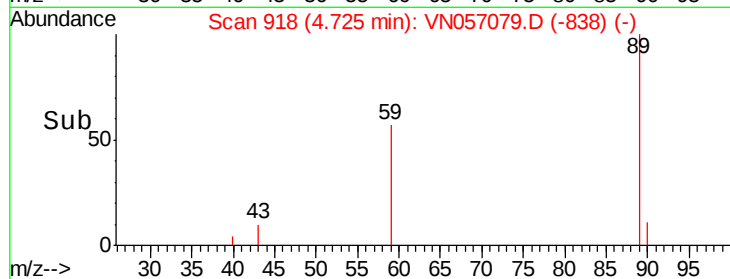
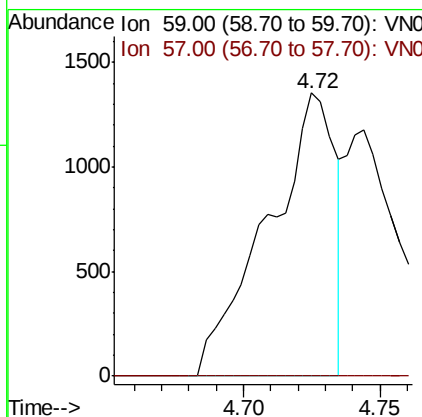
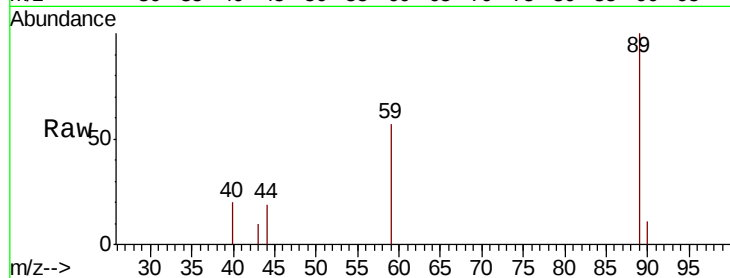


#11

Tert butyl alcohol
 Concen: 3.023 ug/l
 RT: 4.72 min Scan# 918
 Delta R.T. -0.04 min
 Lab File: VN057079.D
 Acq: 5 Aug 2019 13:28

Instrument :
 MSVOA_N
 ClientSampled :

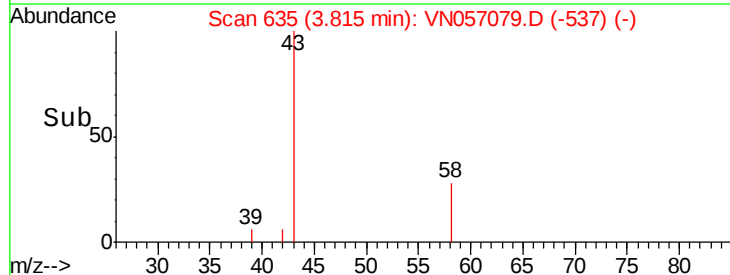
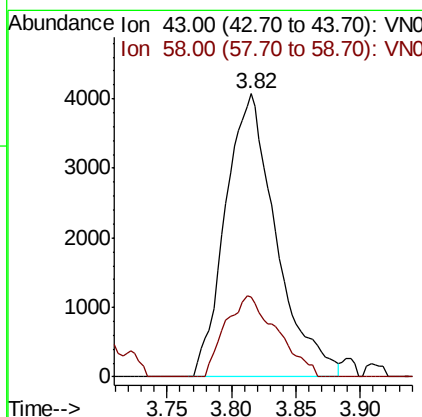
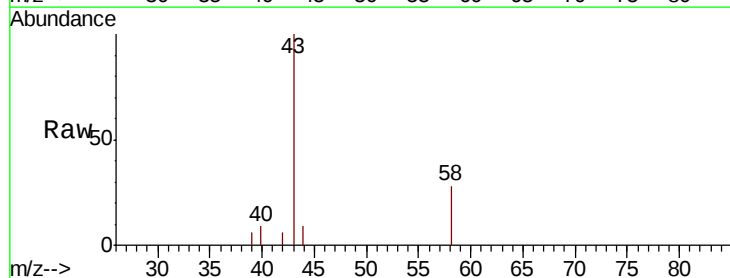
Tot Ion: 59 Resp: 2331
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.5 11.3#

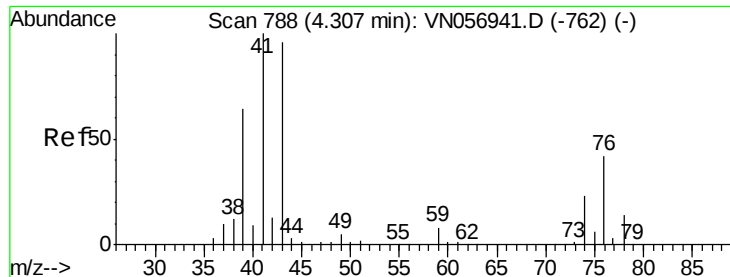


#16

Acetone
 Concen: 5.399 ug/l
 RT: 3.82 min Scan# 635
 Delta R.T. 0.02 min
 Lab File: VN057079.D
 Acq: 5 Aug 2019 13:28

Tgt Ion: 43 Resp: 11159
 Ion Ratio Lower Upper
 43 100
 58 28.0 27.2 40.8

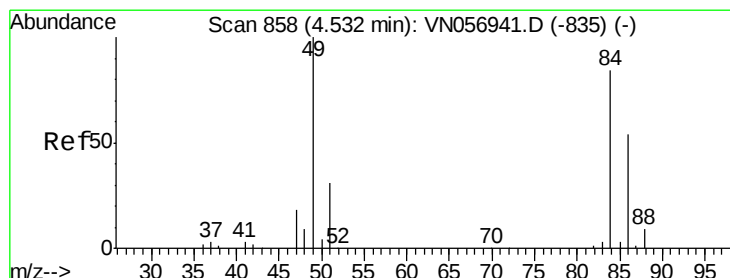
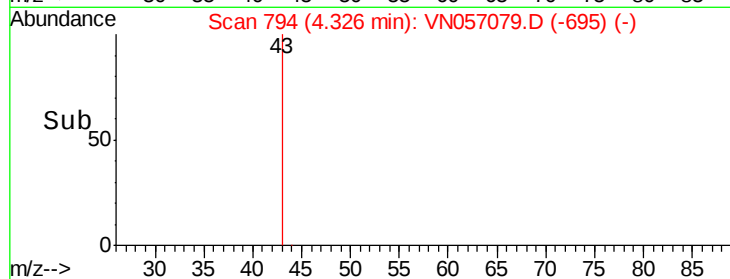
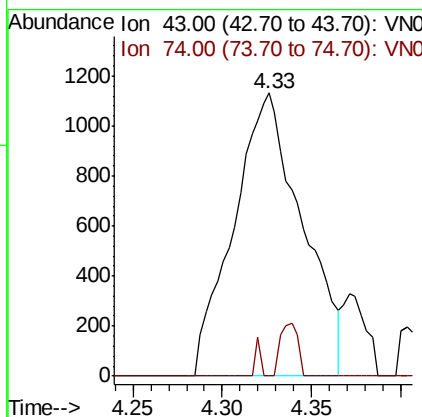
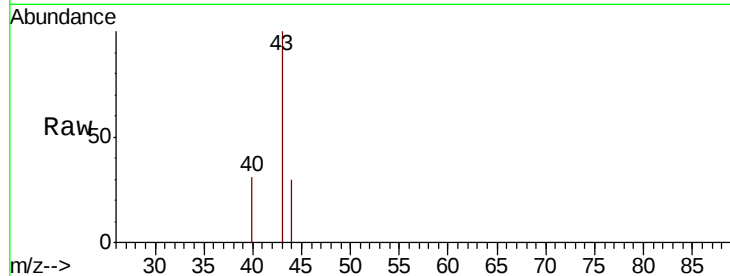




#18
Methyl Acetate
Concen: 0.460 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.02 min
Lab File: VN057079.D
Acq: 5 Aug 2019 13:28

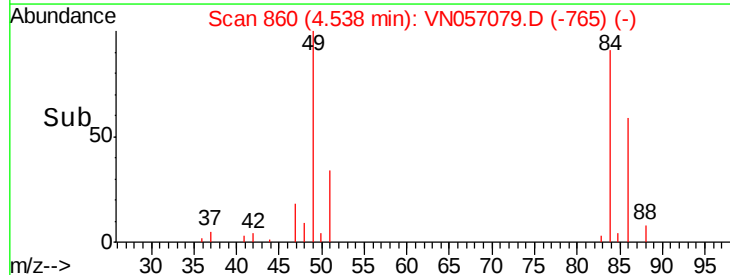
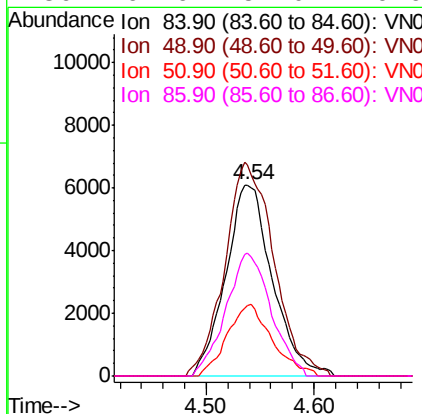
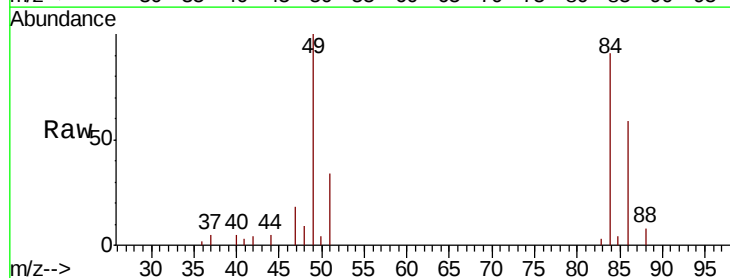
Instrument :
MSVOA_N
ClientSampled :

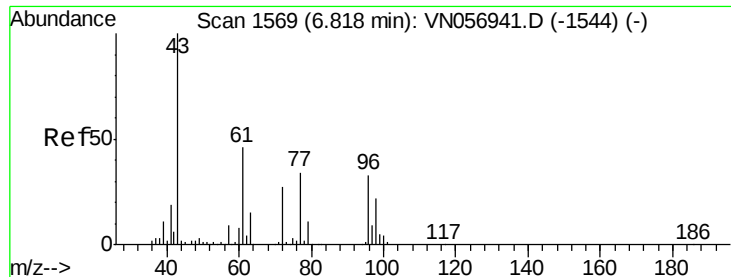
Tot Ion: 43 Resp: 3030
Ion Ratio Lower Upper
43 100
74 1.0 19.7 29.5#



#20
Methylene Chloride
Concen: 3.086 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN057079.D
Acq: 5 Aug 2019 13:28

Tgt Ion: 84 Resp: 18375
Ion Ratio Lower Upper
84 100
49 110.3 95.2 142.8
51 37.1 29.7 44.5
86 64.6 51.0 76.6





#25

2-Butanone

Concen: 0.309 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.02 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

Instrument :

MSVOA_N

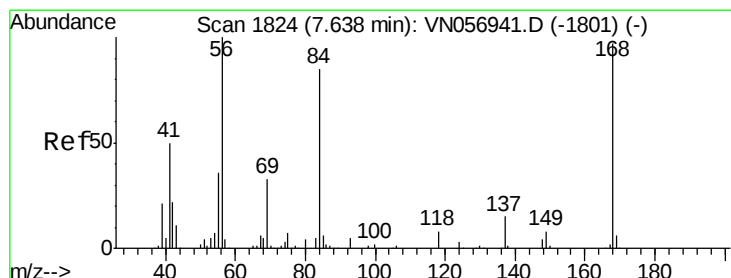
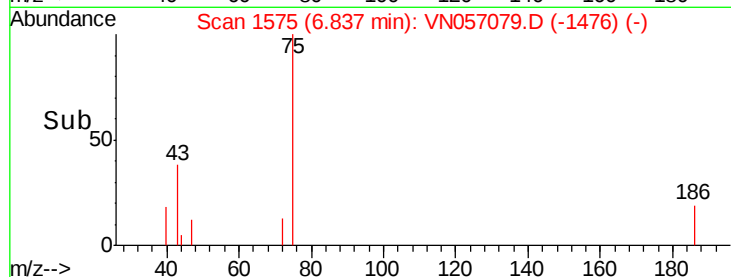
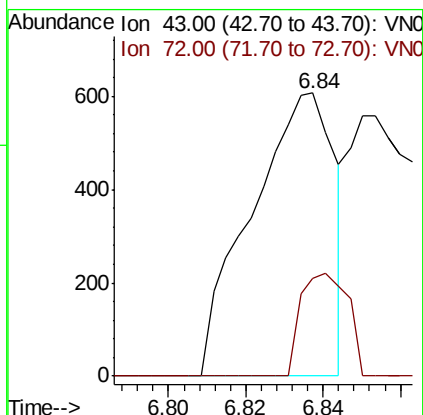
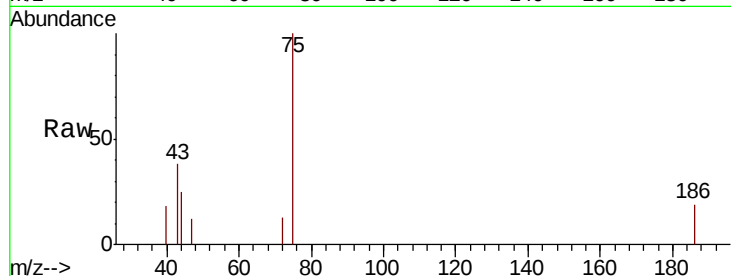
ClientSampleId :

Tot Ion: 43 Resp: 905

Ion Ratio Lower Upper

43 100

72 34.8 21.5 32.3#



#31

Cyclohexane

Concen: 0.854 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.02 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

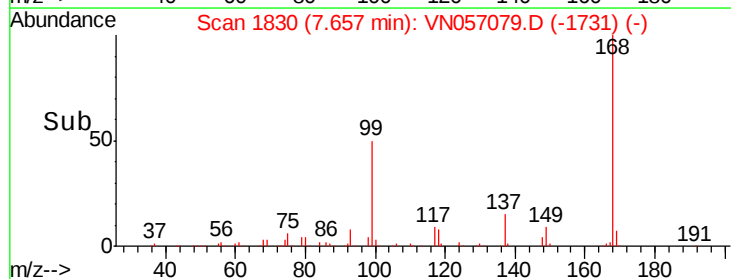
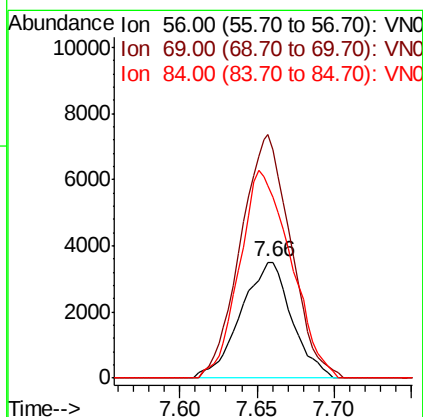
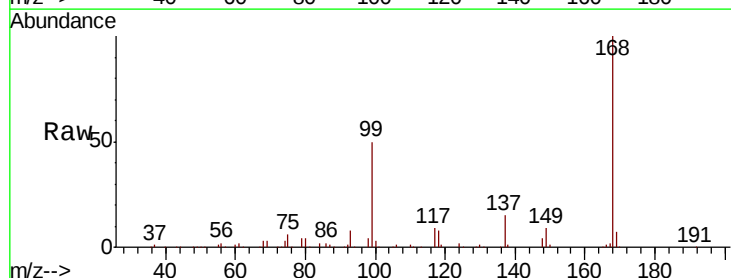
Tgt Ion: 56 Resp: 8004

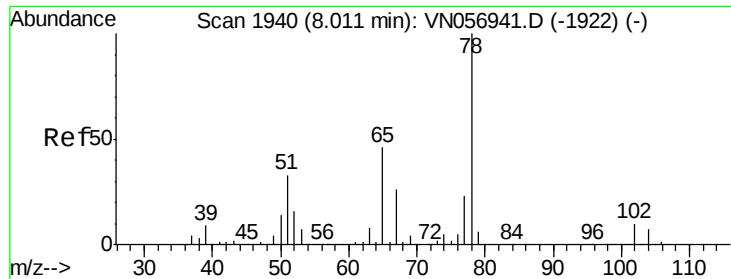
Ion Ratio Lower Upper

56 100

69 209.5 26.2 39.2#

84 165.9 68.2 102.2#

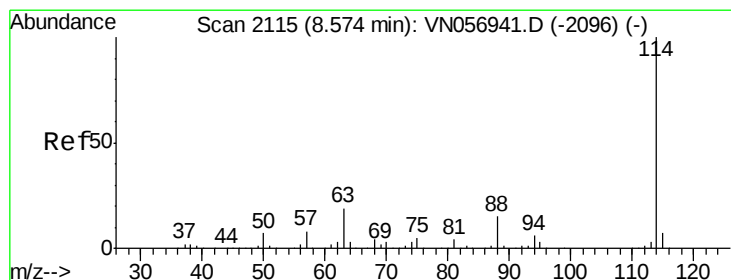
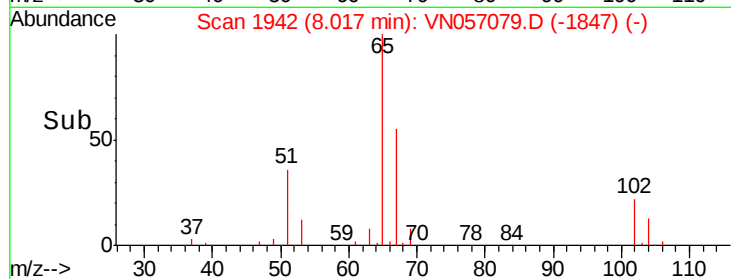
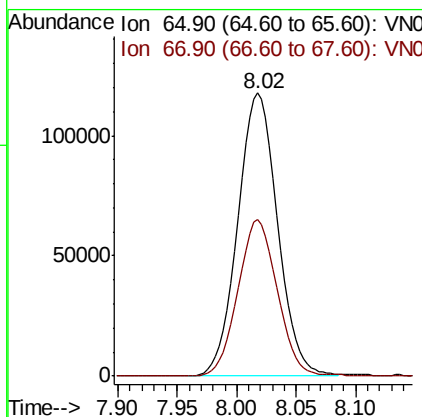
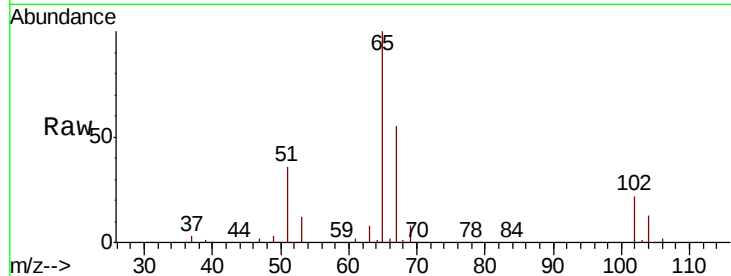




#33
 1,2-Dichloroethane-d4
 Concen: 47.934 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.01 min
 Lab File: VN057079.D
 Acq: 5 Aug 2019 13:28

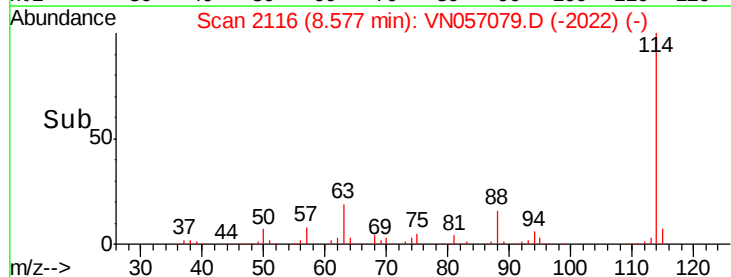
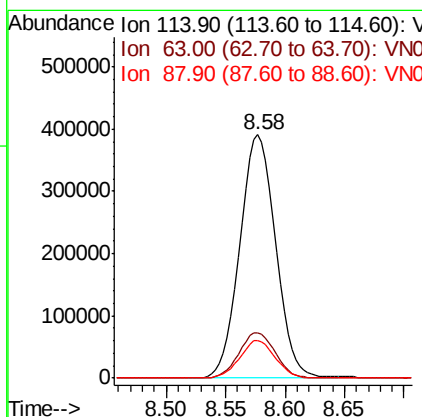
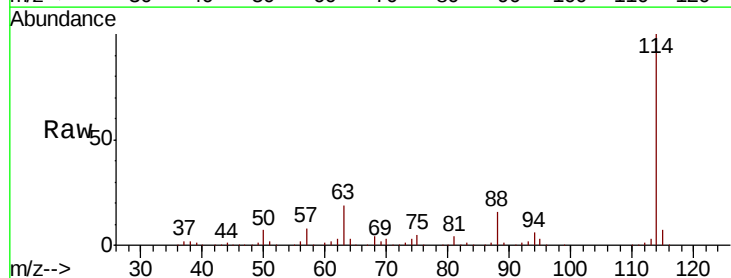
Instrument :
 MSVOA_N
 ClientSampleId :

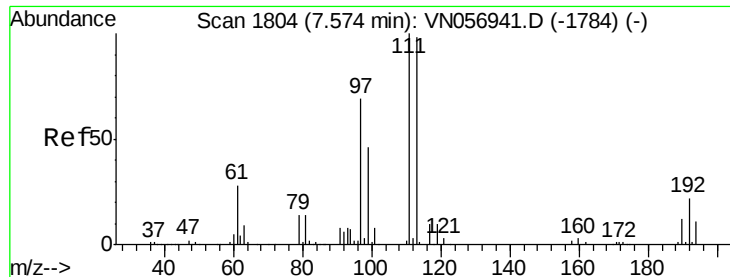
Tot Ion: 65 Resp: 273465
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057079.D
 Acq: 5 Aug 2019 13:28

Tgt Ion: 114 Resp: 817524
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.0
 88 15.7 0.0 30.0

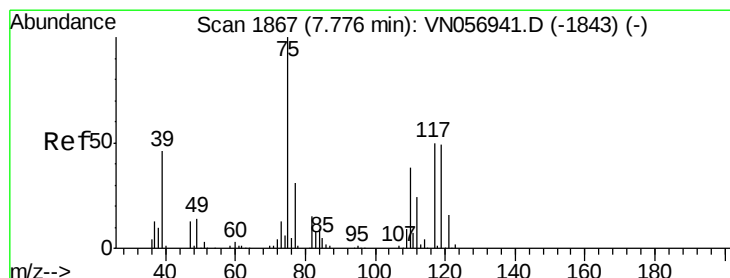
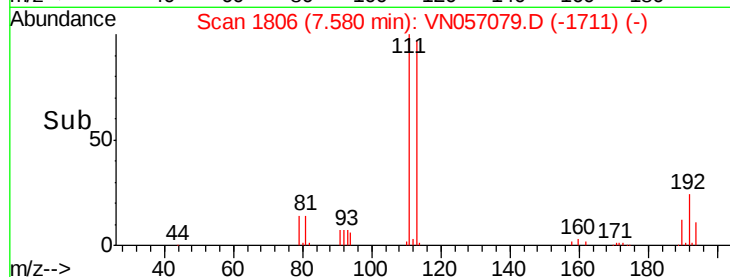
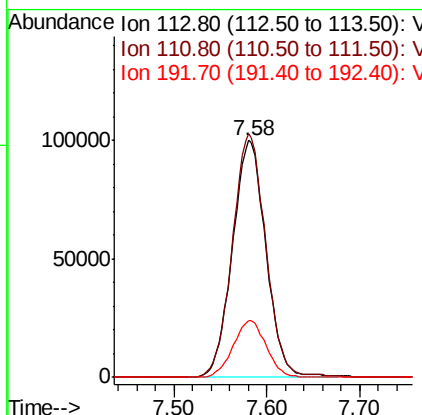
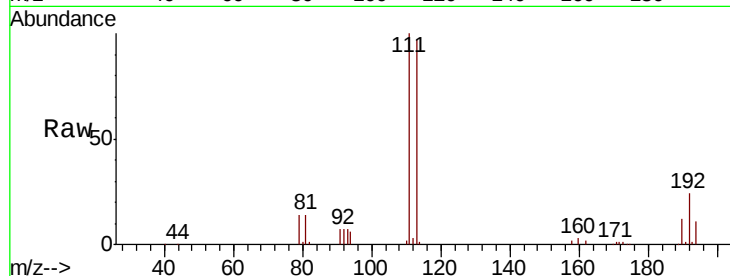




#35
 Dibromofluoromethane
 Concen: 47.940 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057079.D
 Acq: 5 Aug 2019 13:28

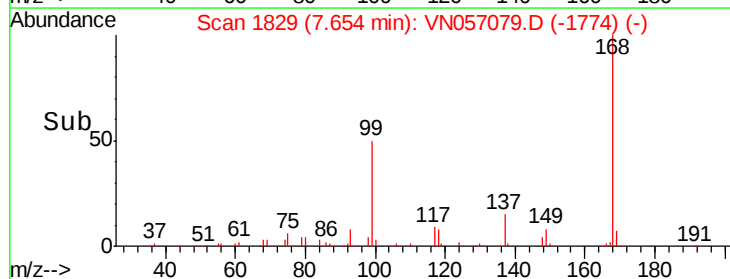
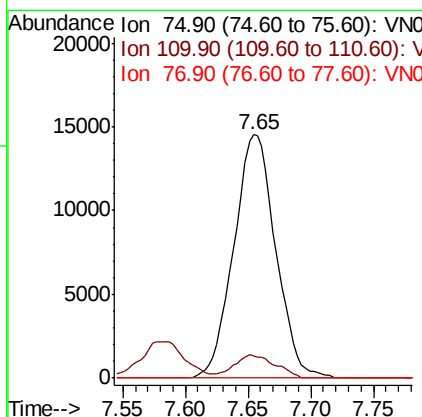
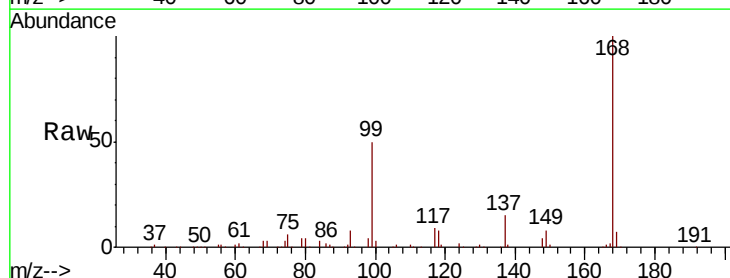
Instrument :
 MSVOA_N
 ClientSampled :

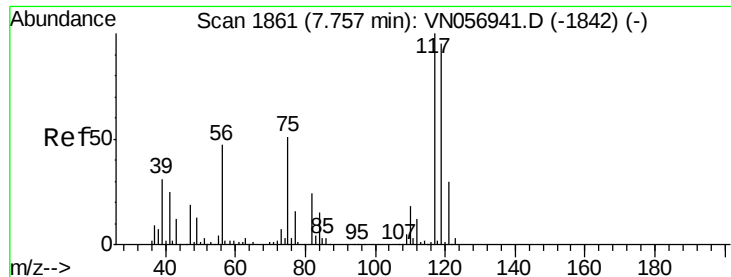
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.0	123.0
192	23.6	18.4	27.6



#36
 1,1-Dichloropropene
 Concen: 4.689 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057079.D
 Acq: 5 Aug 2019 13:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.6	55.8#
77	0.0	25.2	37.8#





#38

Carbon Tetrachloride

Concen: 7.049 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.10 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampled :

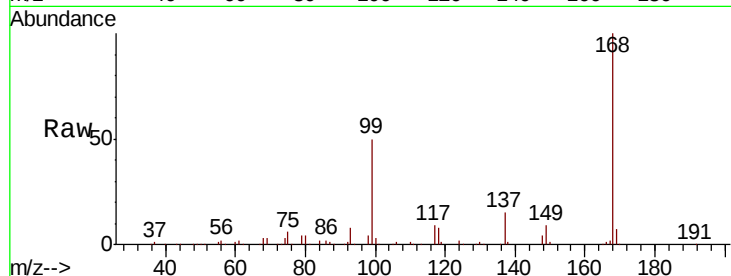
Tot Ion:117 Resp: 47966

Ion Ratio Lower Upper

117 100

119 5.8 75.3 112.9#

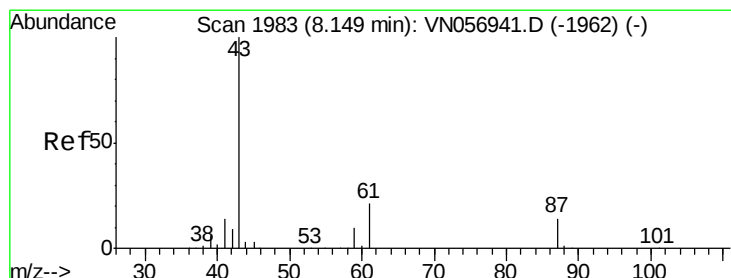
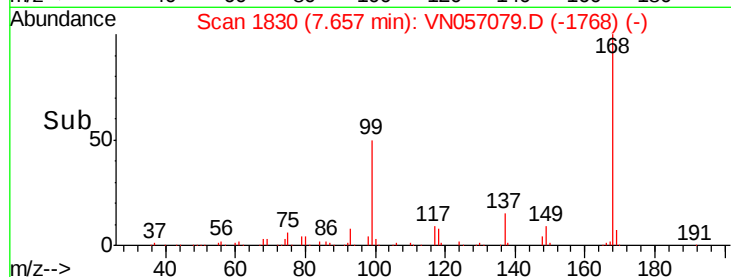
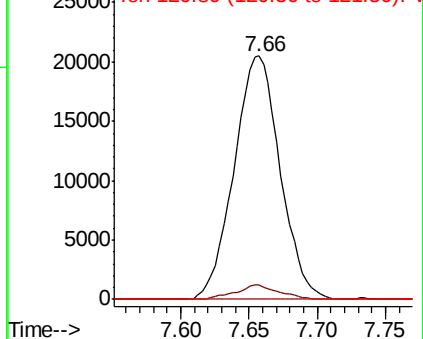
121 0.0 24.2 36.4#



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



#43

Isopropyl Acetate

Concen: 1.885 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

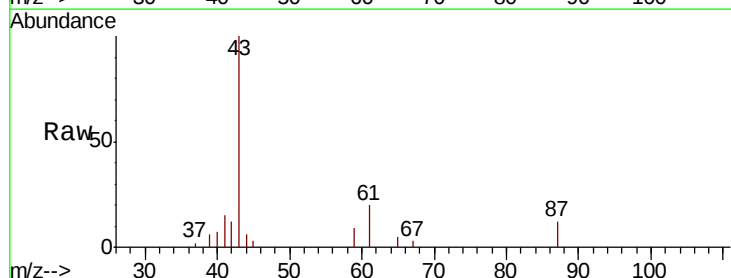
Tgt Ion: 43 Resp: 17946

Ion Ratio Lower Upper

43 100

61 21.0 23.0 34.6#

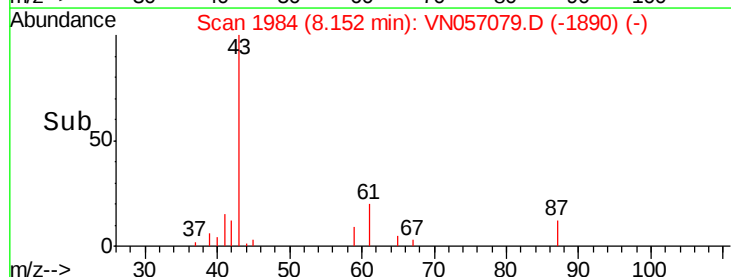
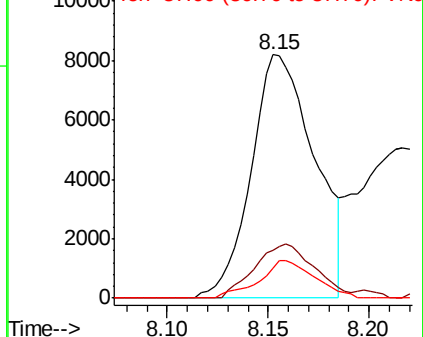
87 13.5 11.7 17.5

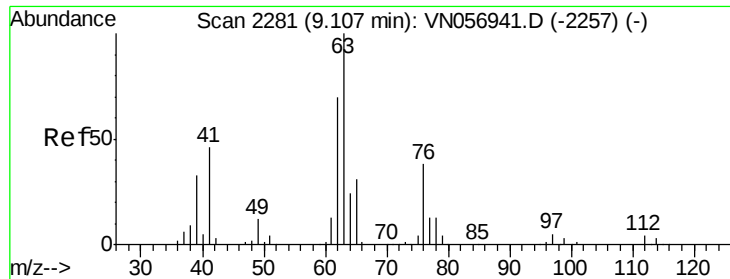


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.231 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

Instrument :

MSVOA_N

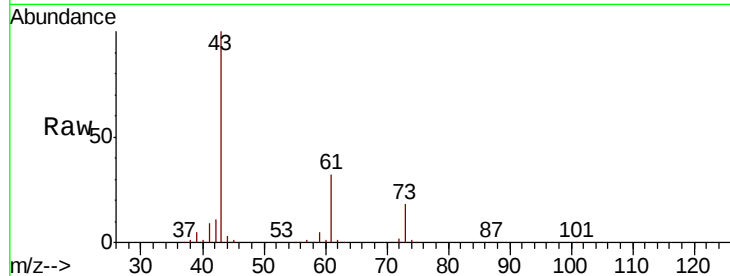
ClientSampleId :

Tot Ion: 63 Resp: 1369

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.26

800

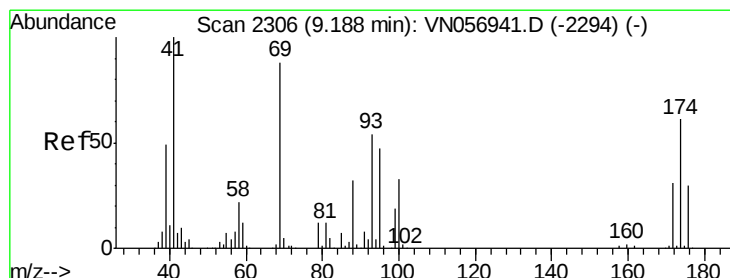
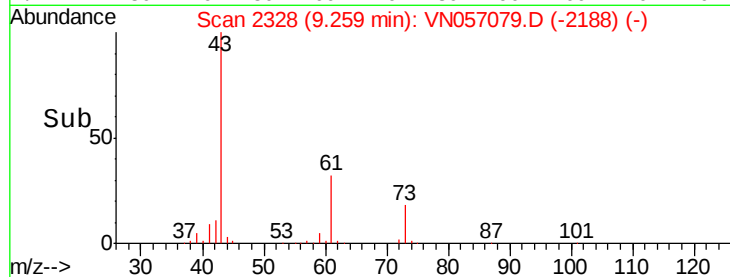
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.649 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

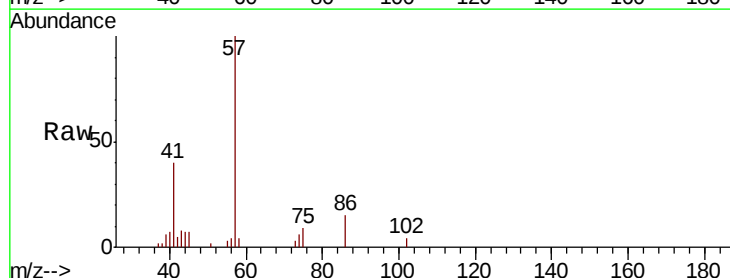
Tgt Ion: 41 Resp: 7581

Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

39 0.0 39.9 59.9#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

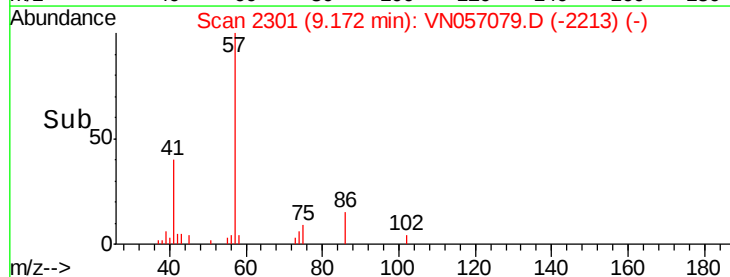
60000

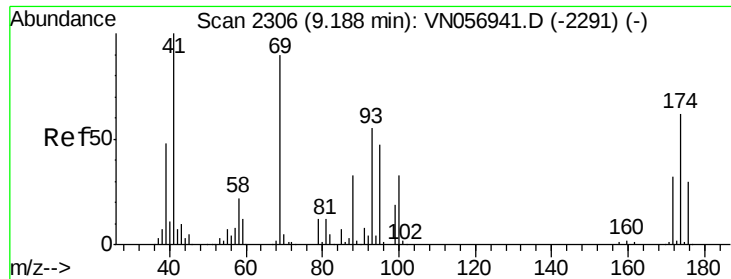
40000

20000

0

Time-->





#49

1,4-Dioxane

Concen: 0.697 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.08 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :

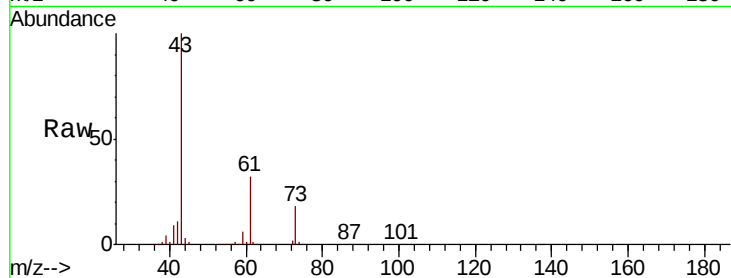
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

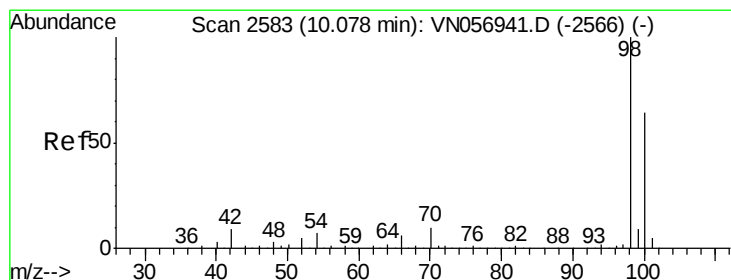
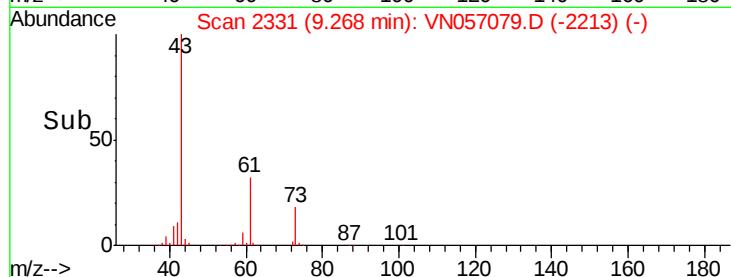
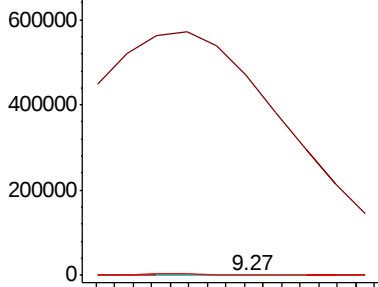
88 100

43 1632448.5 22.2 33.2#

58 8050.0 54.1 81.1#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.161 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057079.D

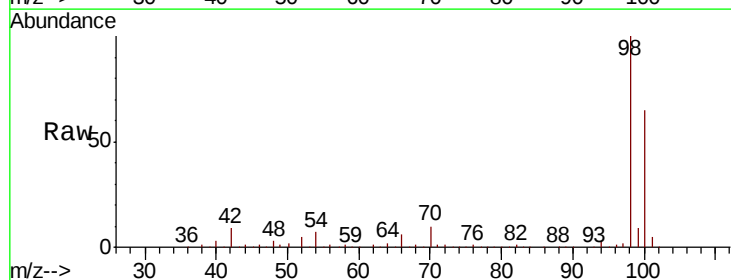
Acq: 5 Aug 2019 13:28

Tgt Ion: 98 Resp: 961186

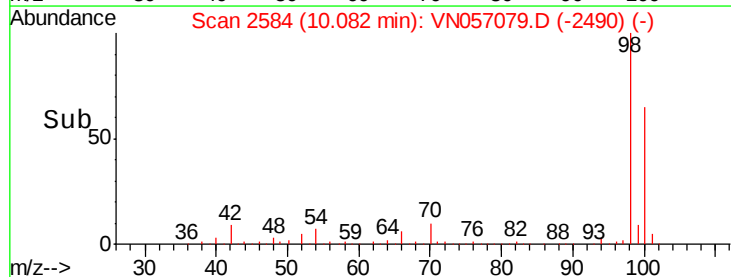
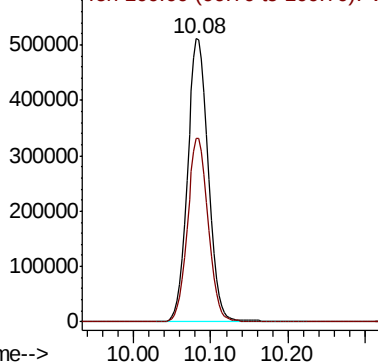
Ion Ratio Lower Upper

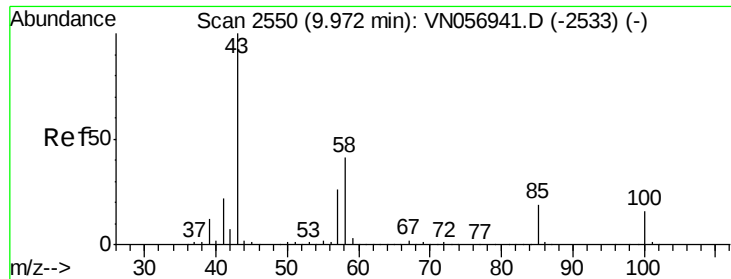
98 100

100 64.6 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.187 ug/l

RT: 10.02 min Scan# 2564

Delta R.T. 0.04 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

Instrument :

MSVOA_N

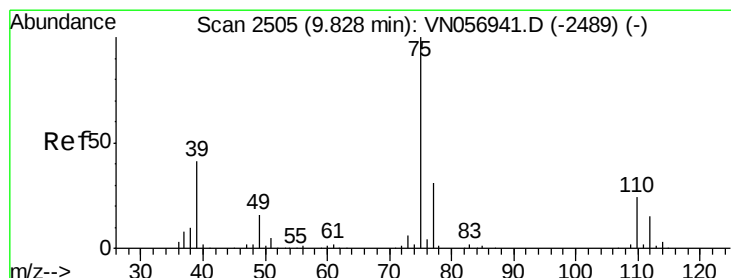
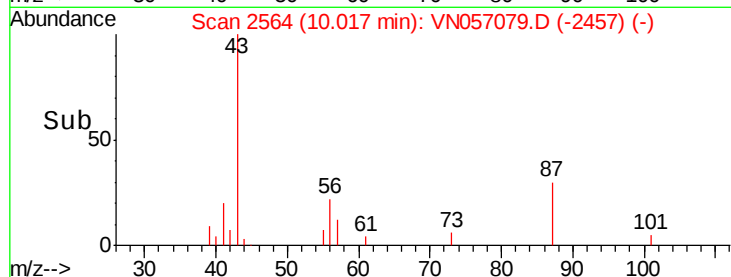
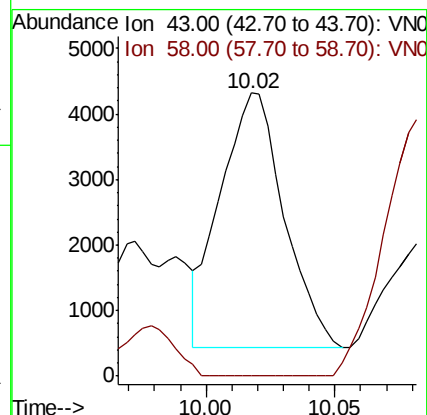
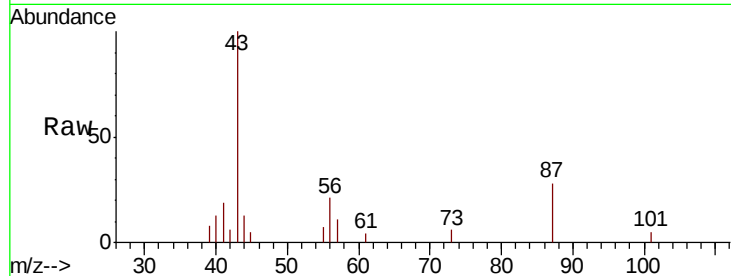
ClientSampled :

Tot Ion: 43 Resp: 6717

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#54

cis-1,3-Dichloropropene

Concen: 5.824 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

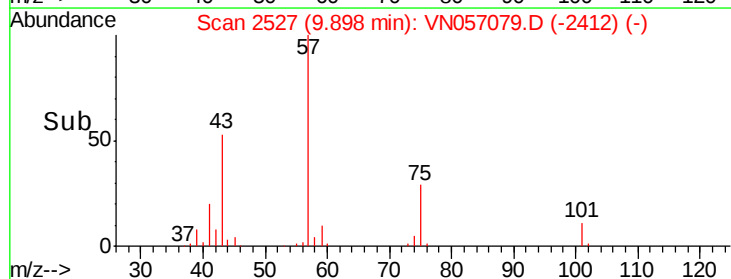
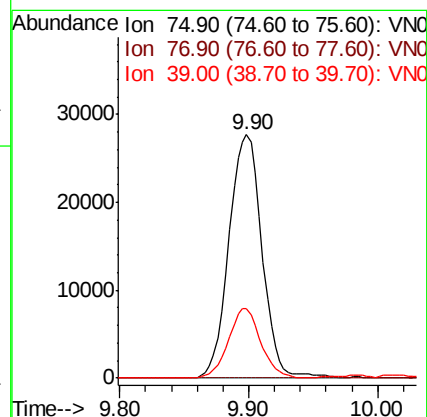
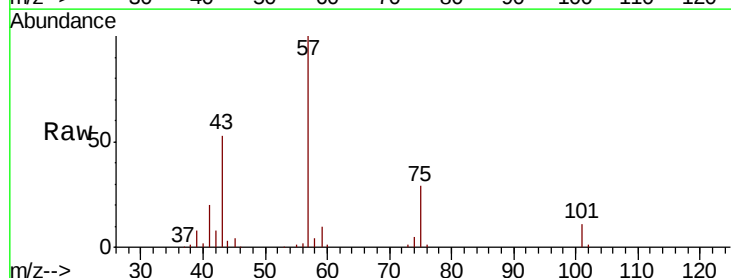
Tgt Ion: 75 Resp: 49381

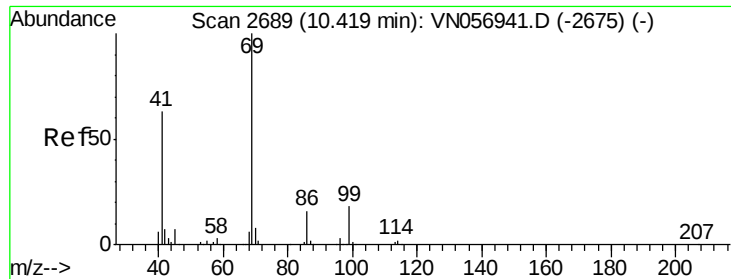
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 28.4 32.6 49.0#





#56

Ethyl methacrylate

Concen: 1.880 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampled :

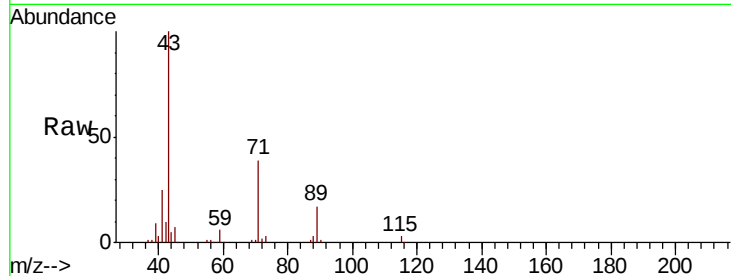
Tot Ion: 69 Resp: 1001

Ion Ratio Lower Upper

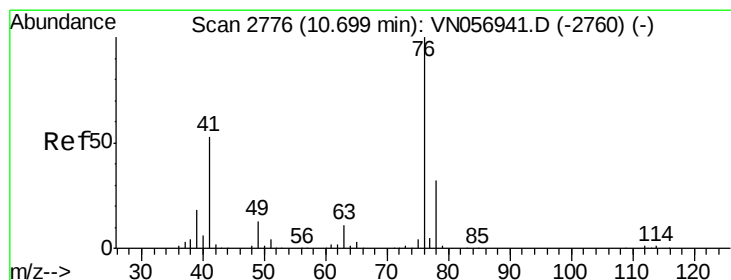
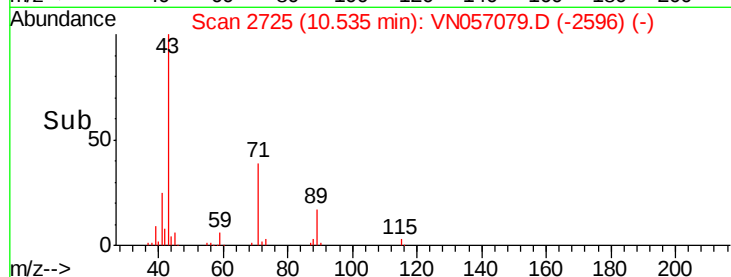
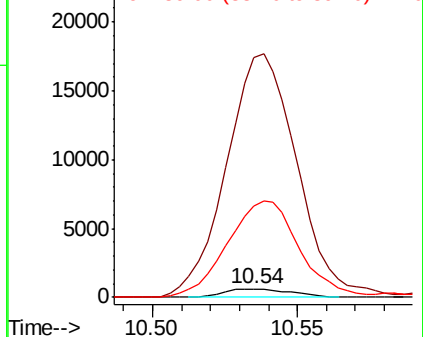
69 100

41 2992.9 49.2 73.8#

39 1196.1 23.1 34.7#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.156 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN057079.D

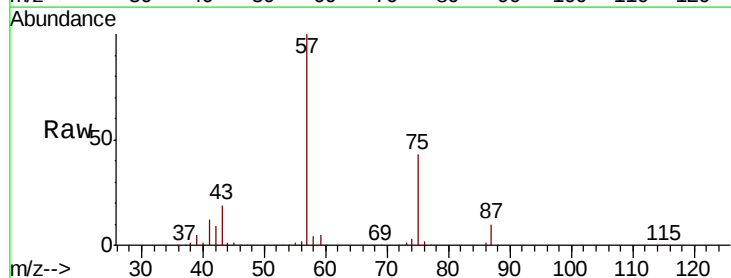
Acq: 5 Aug 2019 13:28

Tgt Ion: 76 Resp: 10230

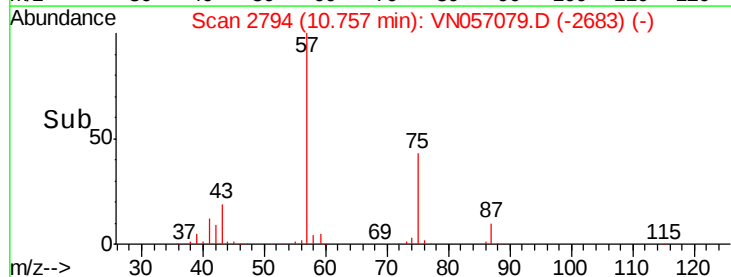
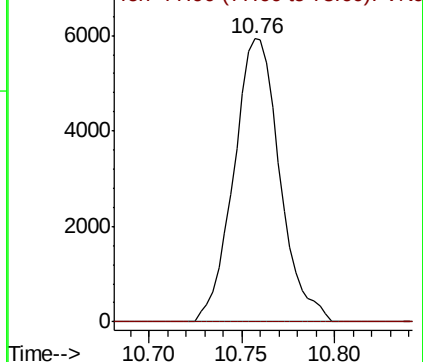
Ion Ratio Lower Upper

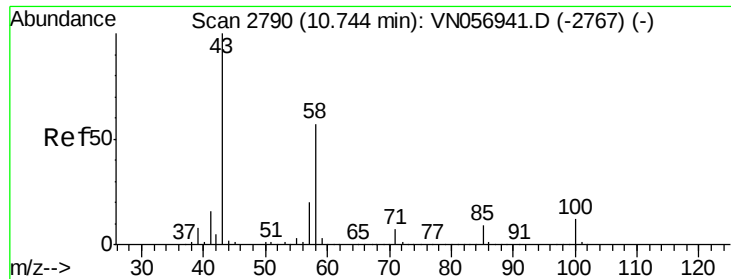
76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

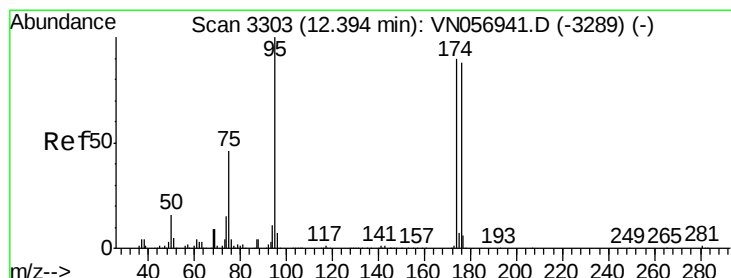
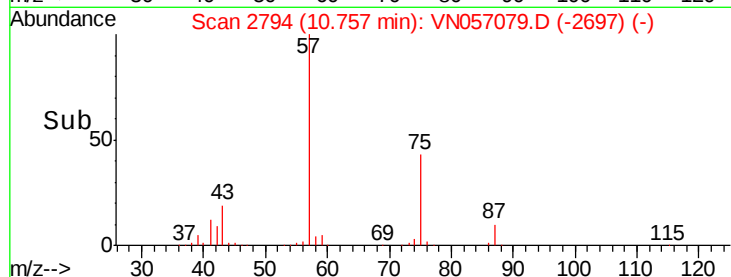
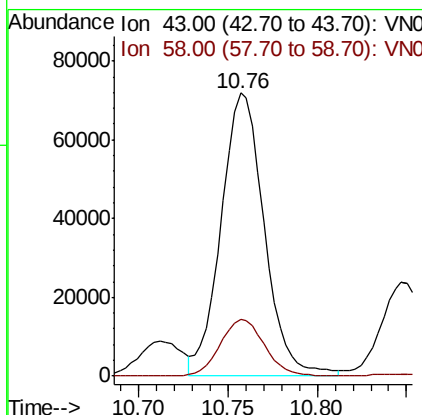
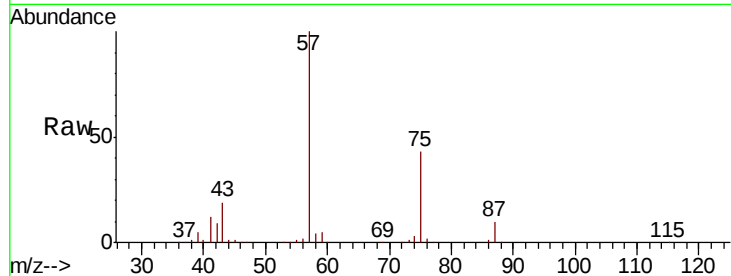




#59
2-Hexanone
Concen: 29.845 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN057079.D
Acq: 5 Aug 2019 13:28

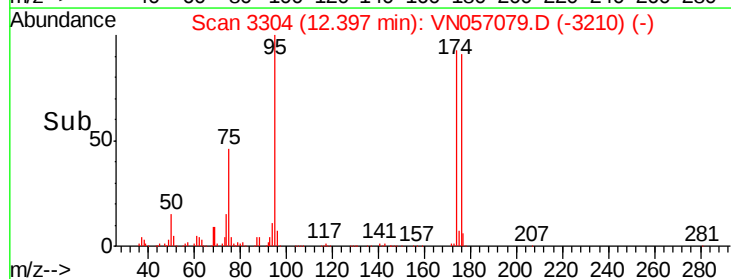
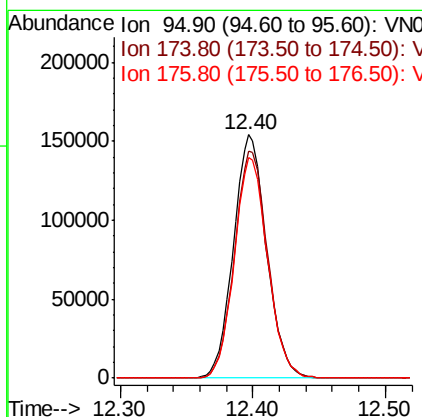
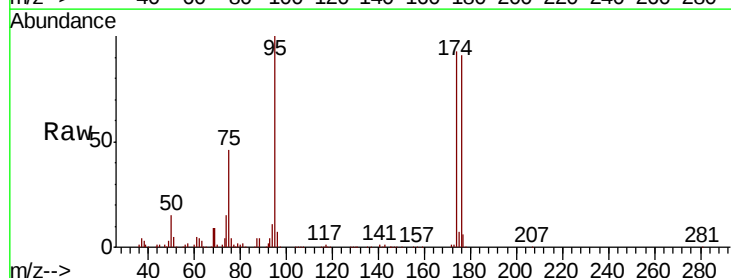
Instrument :
MSVOA_N
ClientSampleId :

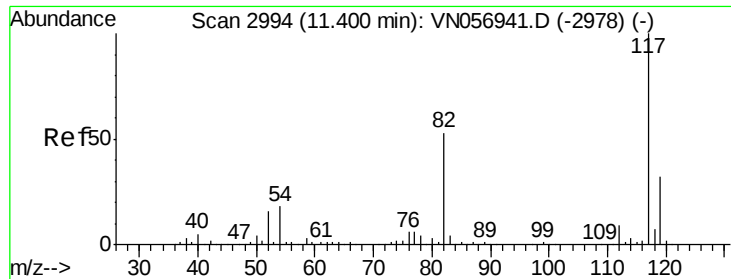
Tot Ion: 43 Resp: 120355
Ion Ratio Lower Upper
43 100
58 20.7 28.5 85.5#



#62
4-Bromofluorobenzene
Concen: 40.984 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057079.D
Acq: 5 Aug 2019 13:28

Tgt Ion: 95 Resp: 266279
Ion Ratio Lower Upper
95 100
174 94.4 0.0 182.2
176 91.2 0.0 179.4

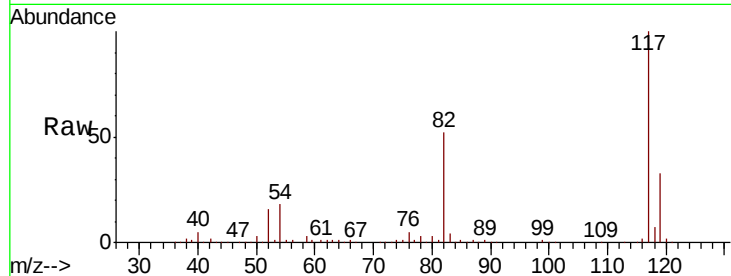




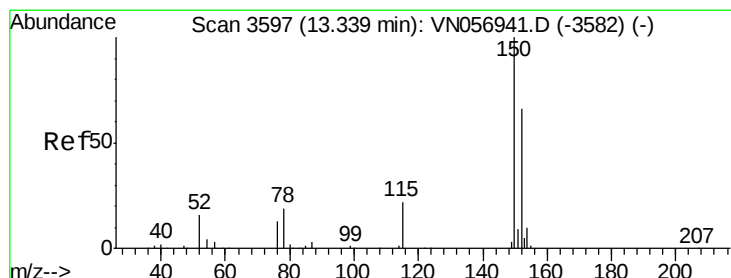
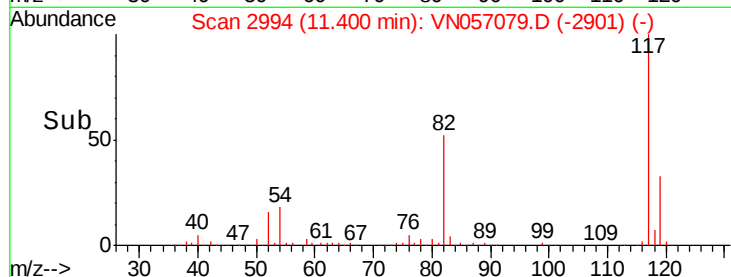
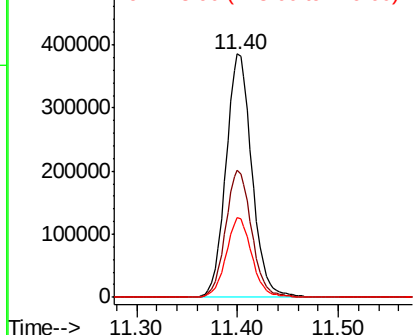
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN057079.D
Acq: 5 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 691702
Ion Ratio Lower Upper
117 100
82 52.0 42.2 63.4
119 32.5 25.8 38.6

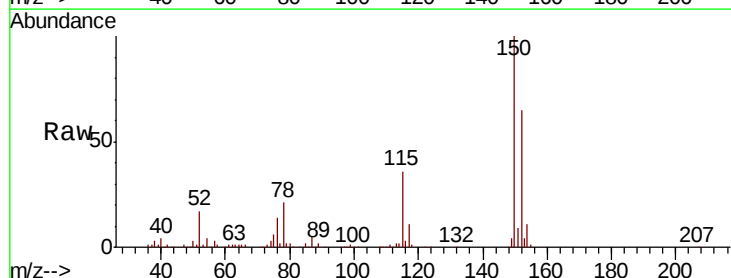


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

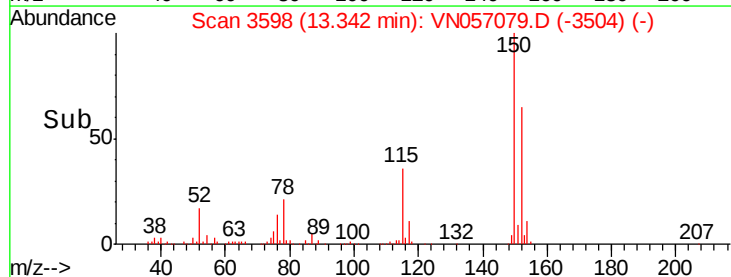
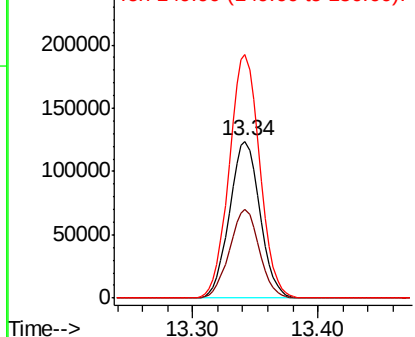


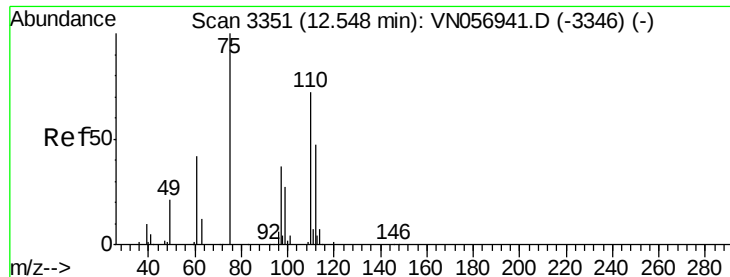
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN057079.D
Acq: 5 Aug 2019 13:28

Tgt Ion:152 Resp: 208682
Ion Ratio Lower Upper
152 100
115 55.3 28.2 84.6
150 155.6 0.0 349.4



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: 29.091 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

Instrument :

MSVOA_N

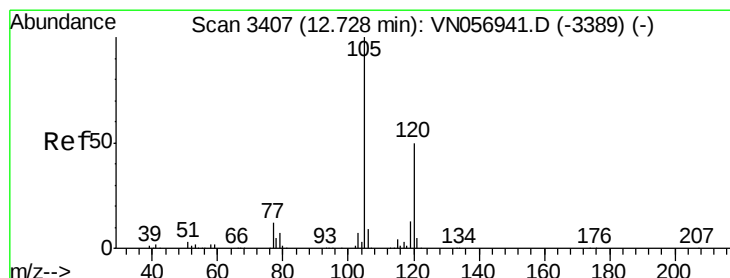
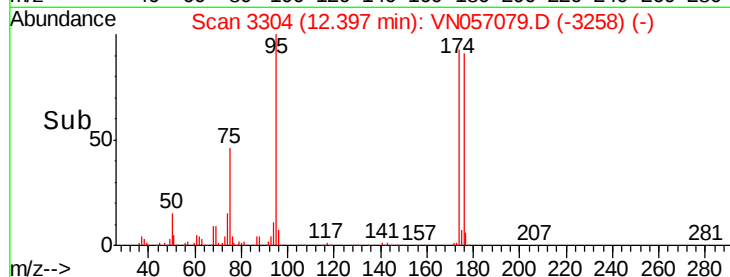
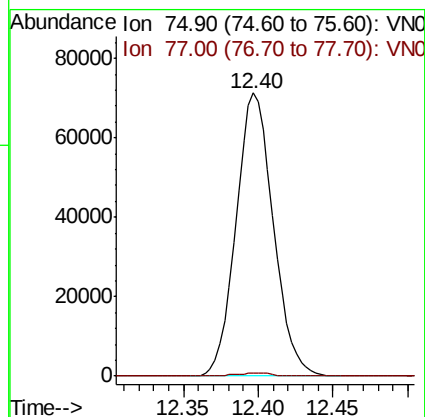
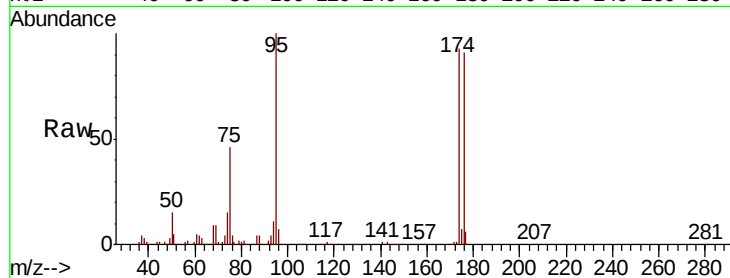
ClientSampled :

Tot Ion: 75 Resp: 123286

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.201 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN057079.D

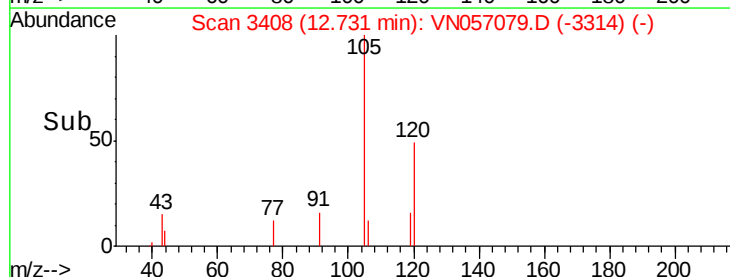
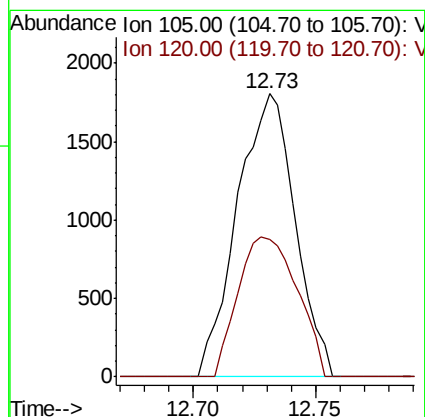
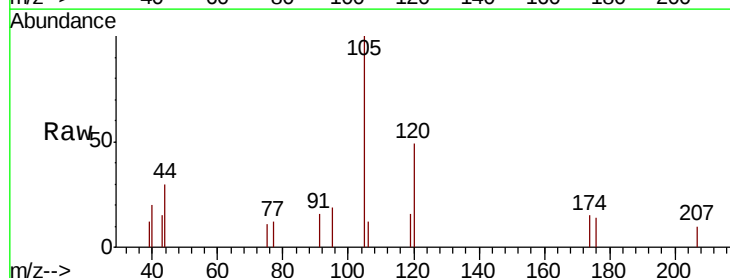
Acq: 5 Aug 2019 13:28

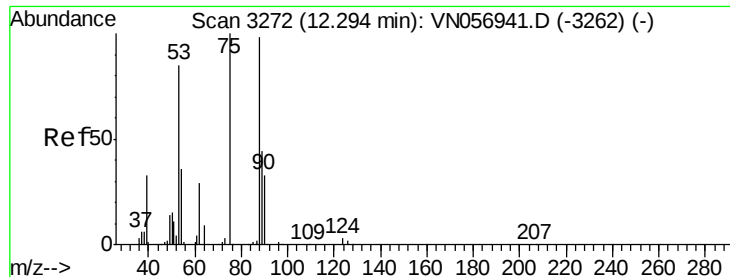
Tgt Ion: 105 Resp: 2969

Ion Ratio Lower Upper

105 100

120 50.6 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 93.468 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057079.D

Acq: 5 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

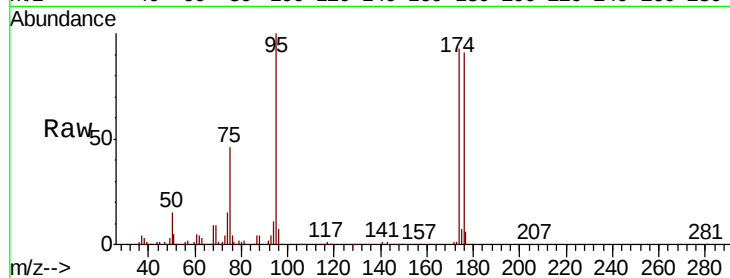
Tot Ion: 75 Resp: 123286

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

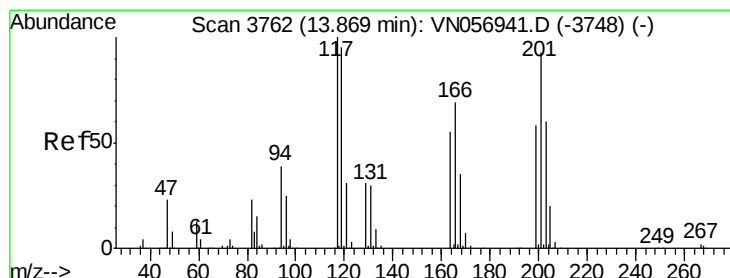
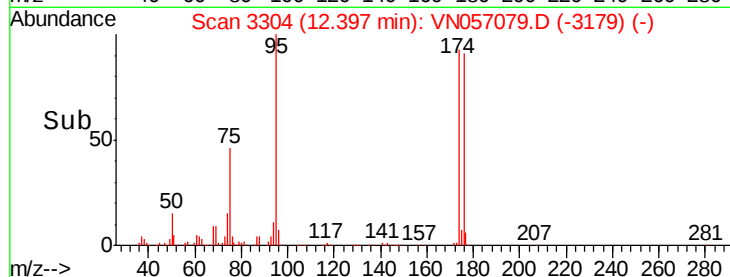
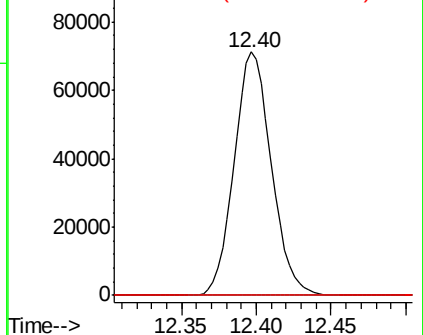
89 0.0 35.8 53.6#



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



#90

Hexachloroethane

Concen: 0.221 ug/l

RT: 13.99 min Scan# 3799

Delta R.T. 0.12 min

Lab File: VN057079.D

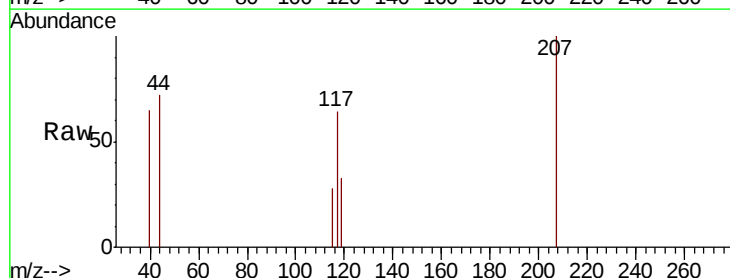
Acq: 5 Aug 2019 13:28

Tgt Ion: 117 Resp: 571

Ion Ratio Lower Upper

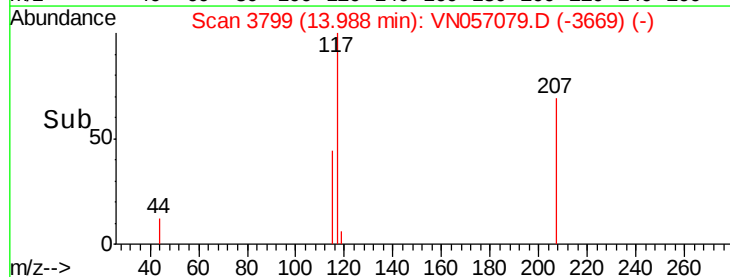
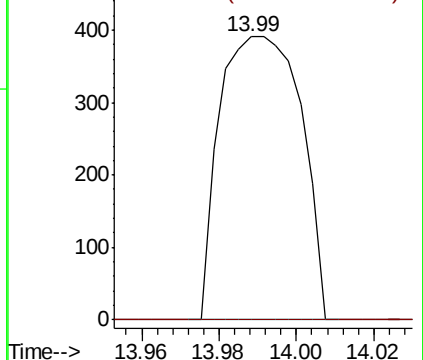
117 100

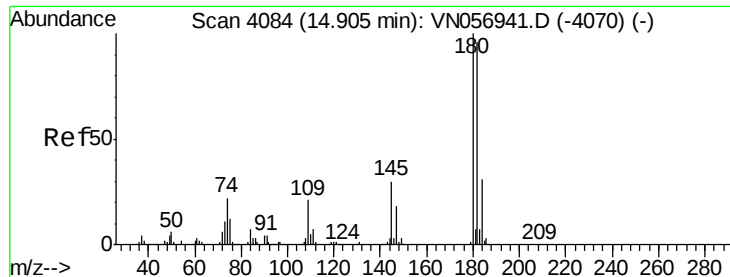
201 0.0 47.0 141.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

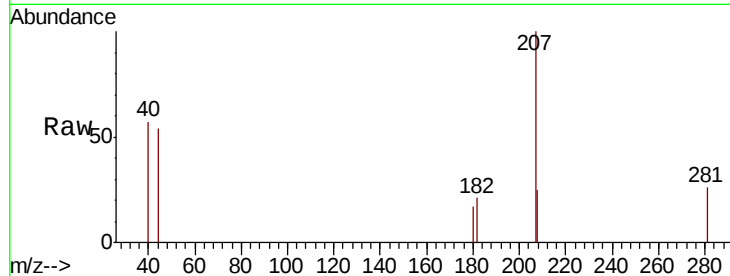




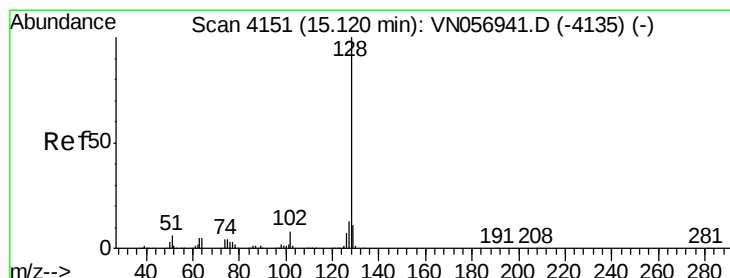
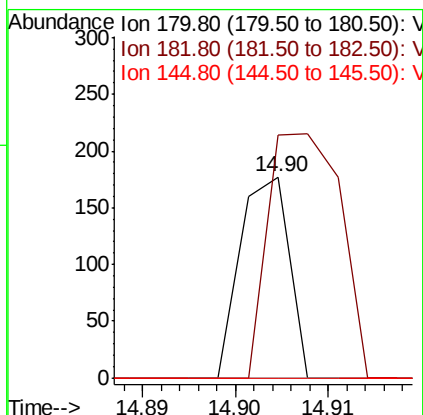
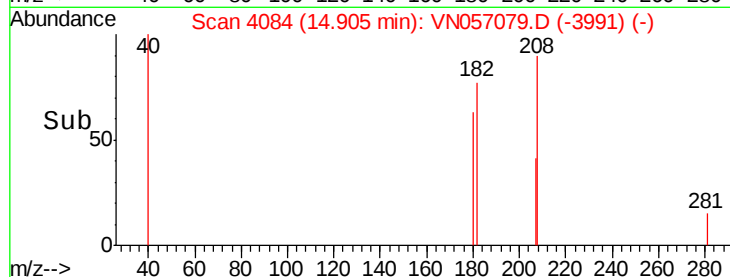
#93
 1,2,4-Trichlorobenzene
 Concen: 2.728 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN057079.D
 Acq: 5 Aug 2019 13:28

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 65
 Ion Ratio Lower Upper
 180 100
 182 180.0 47.6 142.8#
 145 0.0 14.2 42.8#

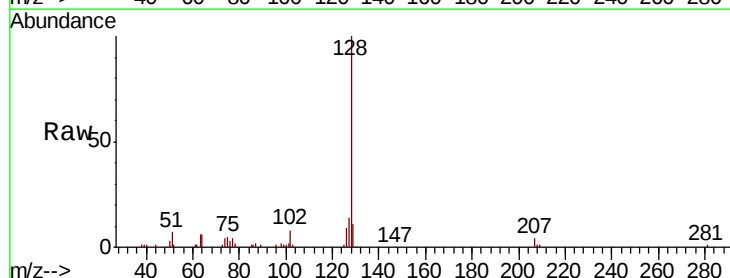


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

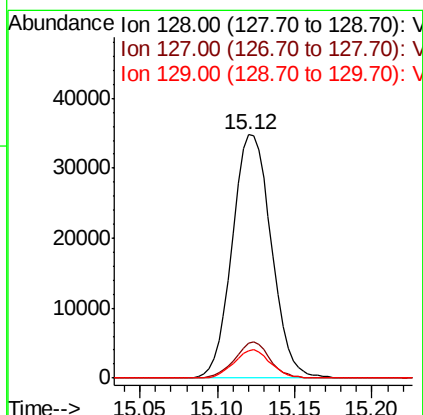
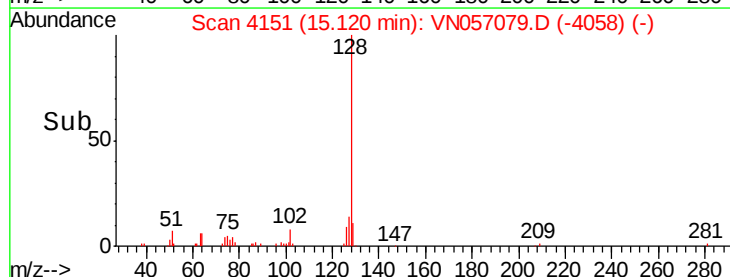


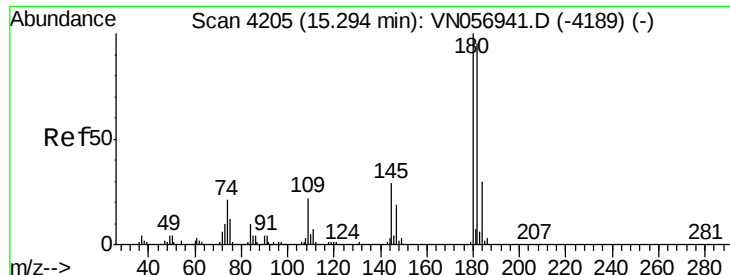
#95
 Naphthalene
 Concen: 9.973 ug/l
 RT: 15.12 min Scan# 4151
 Delta R.T. 0.00 min
 Lab File: VN057079.D
 Acq: 5 Aug 2019 13:28

Tgt Ion:128 Resp: 60993
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.0 15.0
 129 11.0 8.7 13.1



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: 2.117 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.00 min
 Lab File: VN057079.D
 Acq: 5 Aug 2019 13:28

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	37.1	48.0	144.2#
145	0.0	15.0	45.0#

