

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080519\
 Data File : VN057071.D
 Acq On : 5 Aug 2019 10:11
 Operator : JC/SP
 Sample : VN0805WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 06 01:07:19 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	7.65	168	544227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	773101	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	626545	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	162465	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	298427	53.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.14%	
35) Dibromofluoromethane	7.58	113	271072	54.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.54%	
50) Toluene-d8	10.08	98	1018977	53.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.98%	
62) 4-Bromofluorobenzene	12.40	95	260030	42.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.64%	

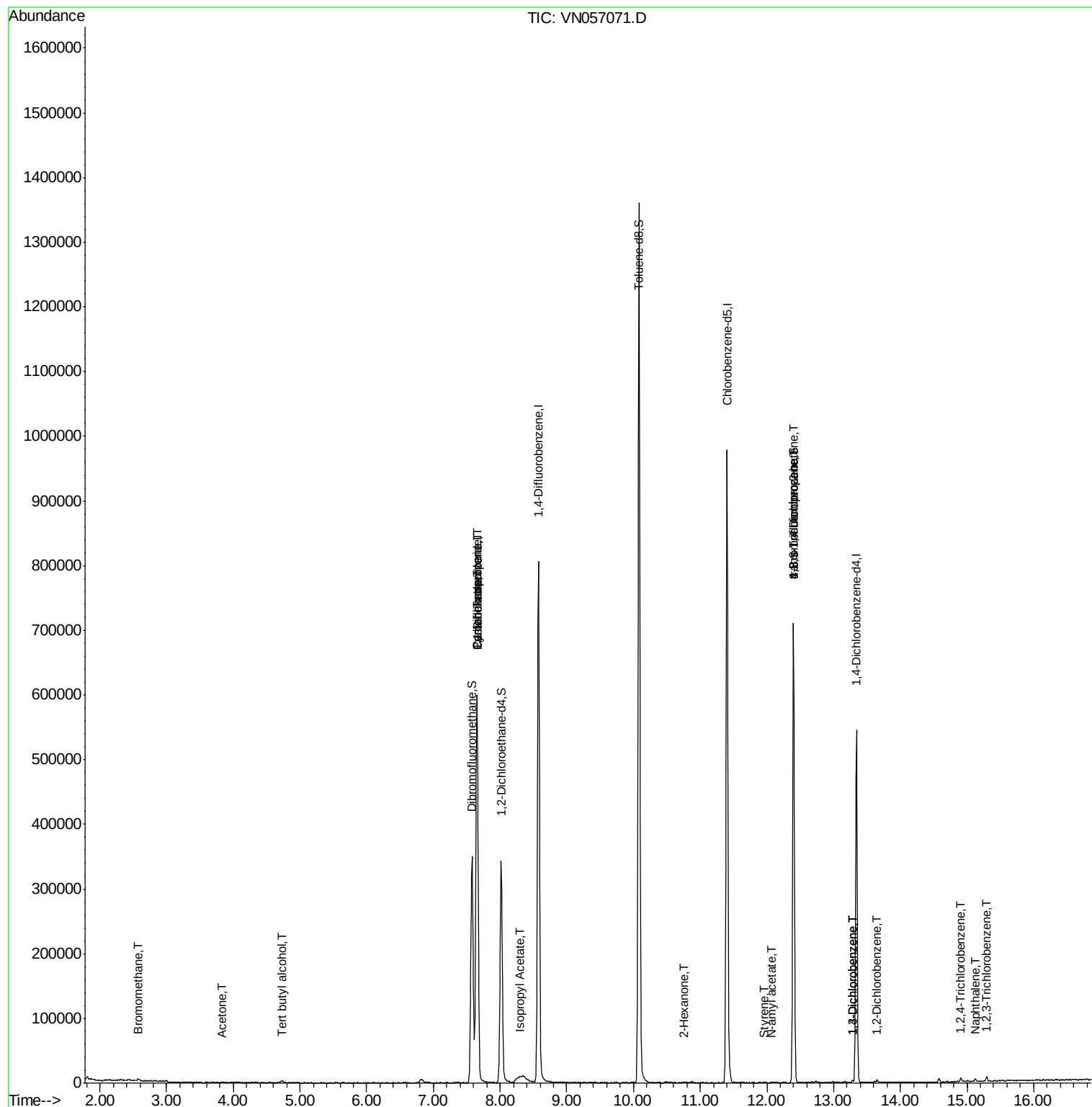
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1388	0.361	ug/l	85
11) Tert butyl alcohol	4.73	59	3102	4.119	ug/l #	74
16) Acetone	3.82	43	540	0.268	ug/l #	41
31) Cyclohexane	7.65	56	7681	0.839	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	33646	4.946	ug/l #	48
38) Carbon Tetrachloride	7.65	117	46052	7.157	ug/l #	16
43) Isopropyl Acetate	8.28	43	10781	1.197	ug/l #	52
59) 2-Hexanone	10.76	43	1149	2.776	ug/l	97
70) Styrene	11.96	104	226	1.882	ug/l #	61
74) N-amyl acetate	12.08	43	852	0.209	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	12.52	83	29	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	119726	36.287	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119726	116.590	ug/l #	15
87) 1,3-Dichlorobenzene	13.28	146	1751	0.314	ug/l	90
88) 1,4-Dichlorobenzene	13.28	146	1751	0.326	ug/l	90
91) 1,2-Dichlorobenzene	13.65	146	2478	0.452	ug/l	98
93) 1,2,4-Trichlorobenzene	14.90	180	2692	3.611	ug/l	97
94) Hexachlorobutadiene	15.00	225	312	Below Cal		83
95) Naphthalene	15.13	128	4238	4.158	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.30	180	2854	3.007	ug/l	98

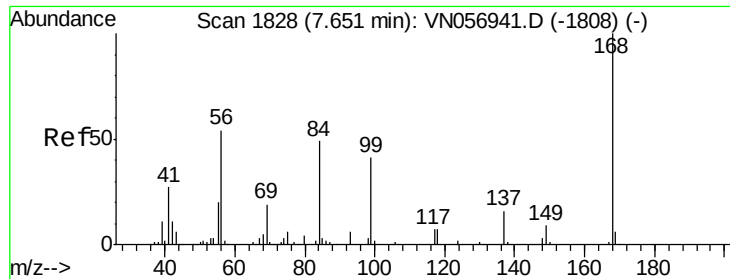
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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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: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057071.D

Acq: 5 Aug 2019 10:11

Instrument :

MSVOA_N

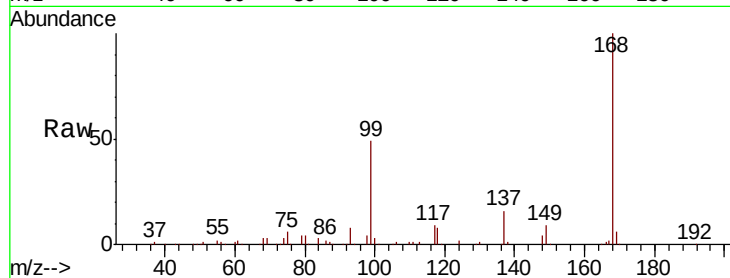
ClientSampled :

Tot Ion:168 Resp: 544227

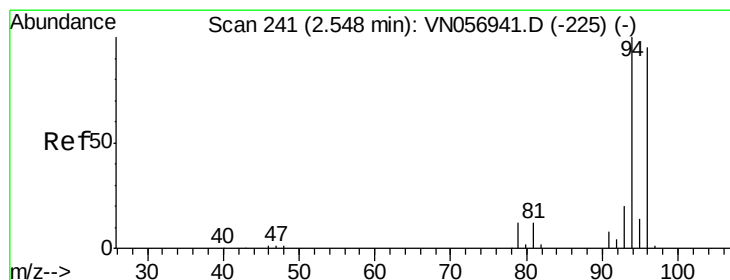
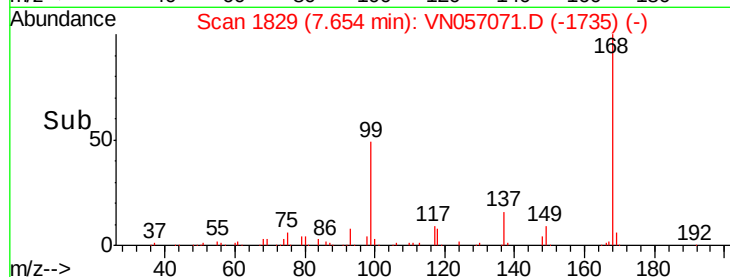
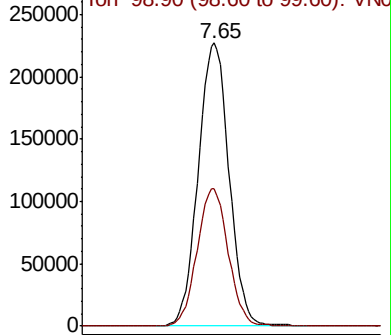
Ion Ratio Lower Upper

168 100

99 48.5 39.0 58.4



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



#5

Bromomethane

Concen: 0.361 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.02 min

Lab File: VN057071.D

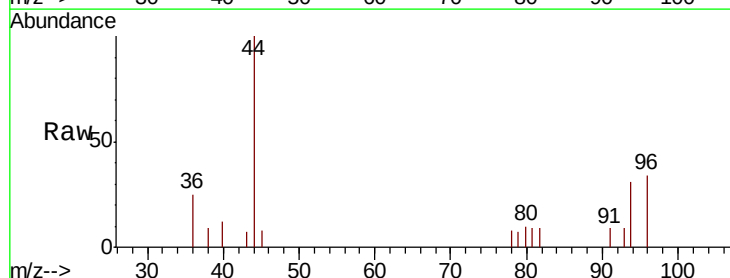
Acq: 5 Aug 2019 10:11

Tgt Ion: 94 Resp: 1388

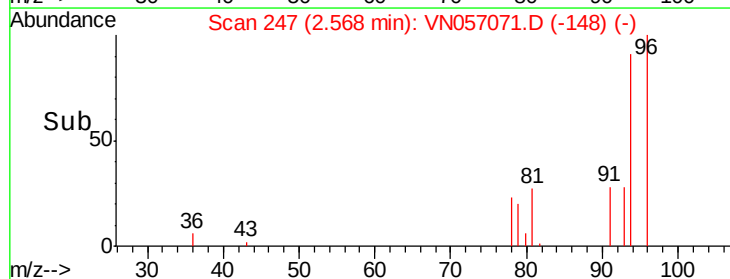
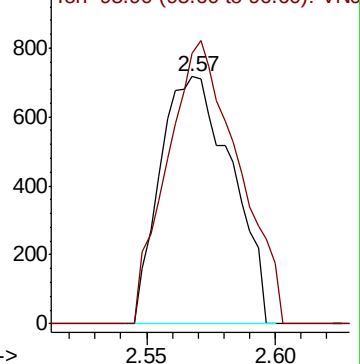
Ion Ratio Lower Upper

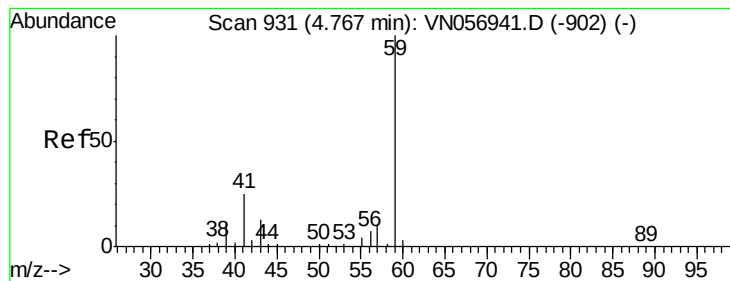
94 100

96 109.6 76.2 114.2



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



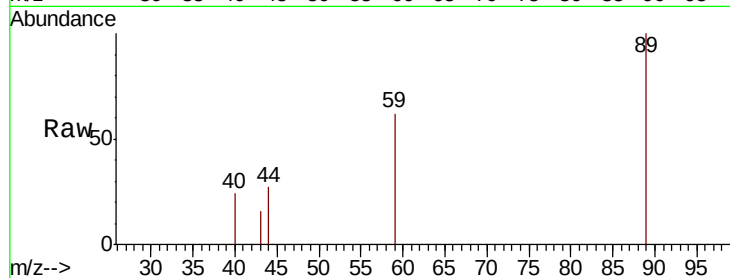


#11

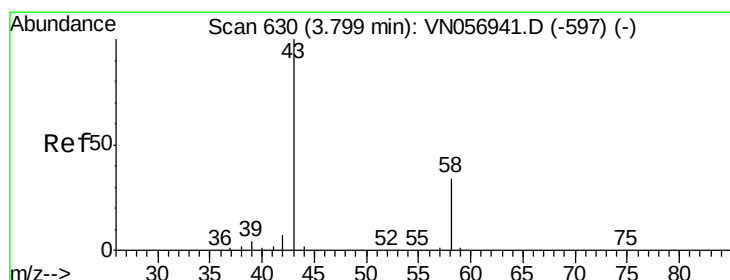
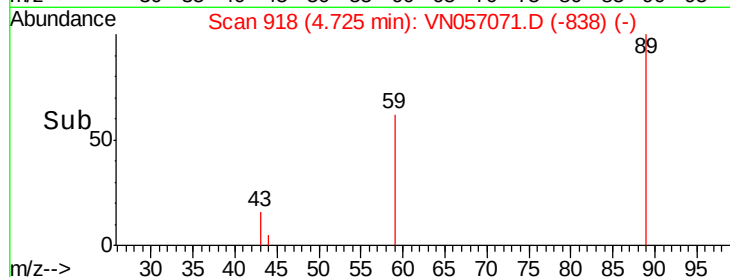
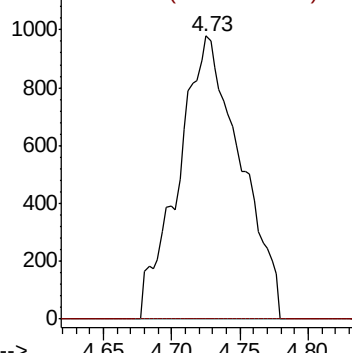
Tert butyl alcohol
 Concen: 4.119 ug/l
 RT: 4.73 min Scan# 918
 Delta R.T. -0.04 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 59 Resp: 3102
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.5 11.3#



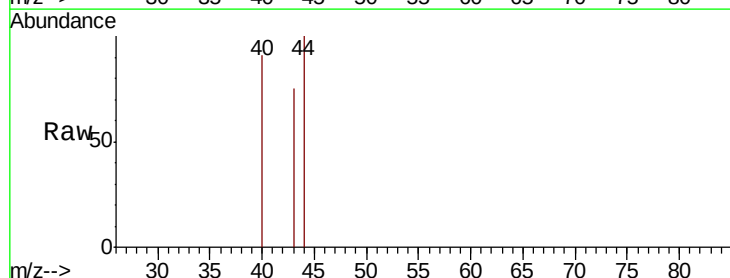
Abundance Ion 59.00 (58.70 to 59.70): VN0
 Ion 57.00 (56.70 to 57.70): VN0



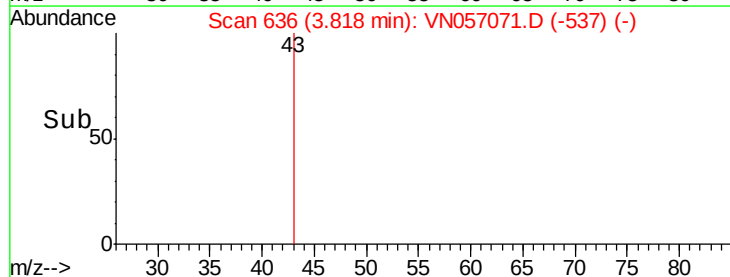
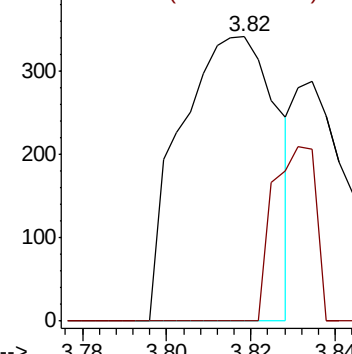
#16

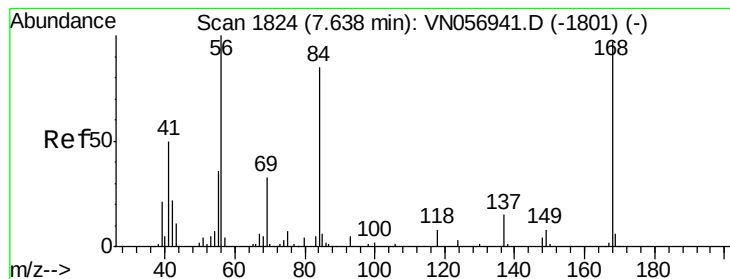
Acetone
 Concen: 0.268 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. 0.02 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

Tgt Ion: 43 Resp: 540
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.2 40.8#



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





#31

Cyclohexane

Concen: 0.839 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057071.D

Acq: 5 Aug 2019 10:11

Instrument :

MSVOA_N

ClientSampled :

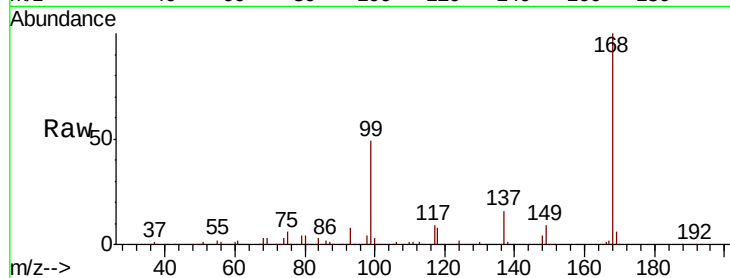
Tot Ion: 56 Resp: 7681

Ion Ratio Lower Upper

56 100

69 183.8 26.2 39.2#

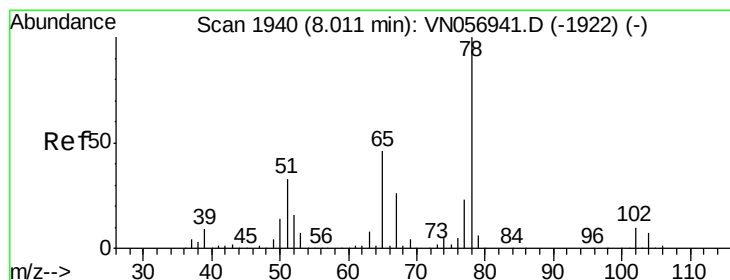
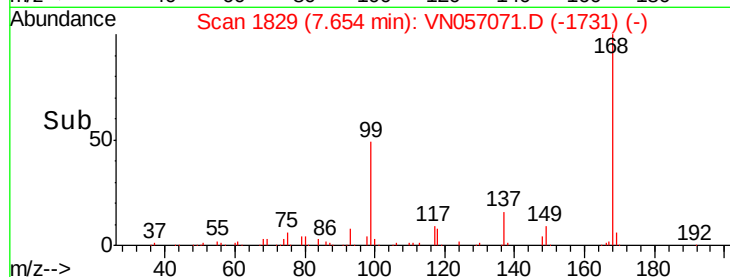
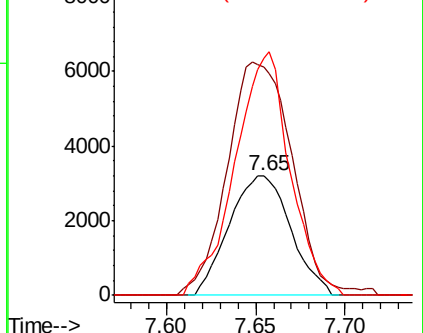
84 192.2 68.2 102.2#



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: 53.568 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057071.D

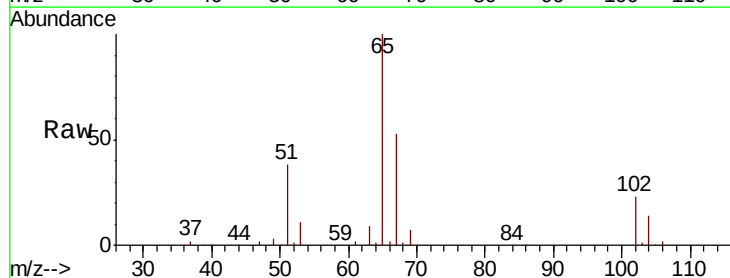
Acq: 5 Aug 2019 10:11

Tgt Ion: 65 Resp: 298427

Ion Ratio Lower Upper

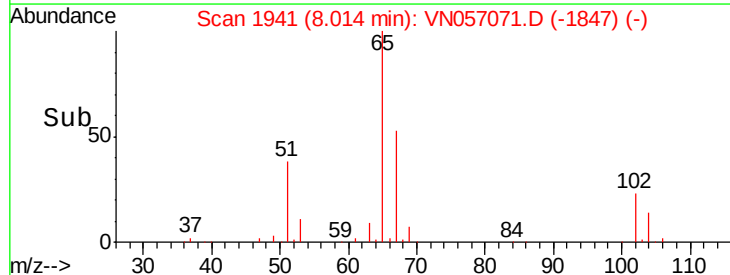
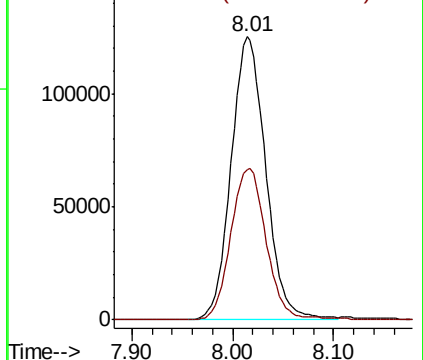
65 100

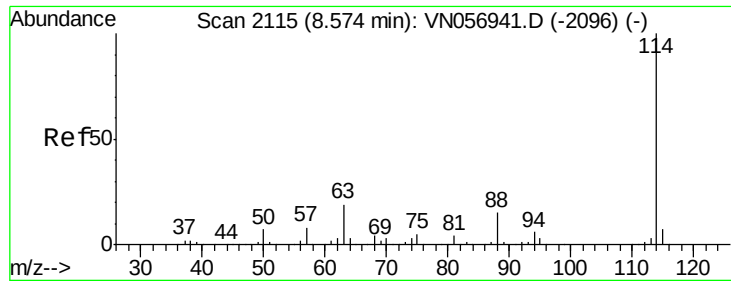
67 55.0 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

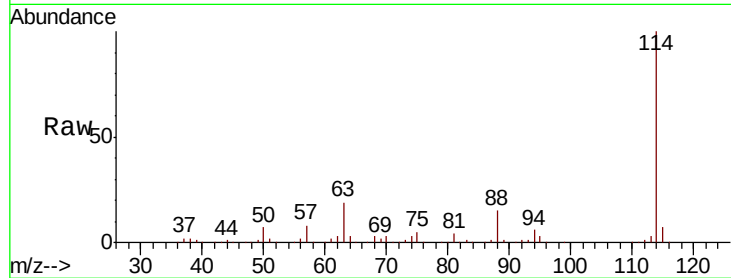




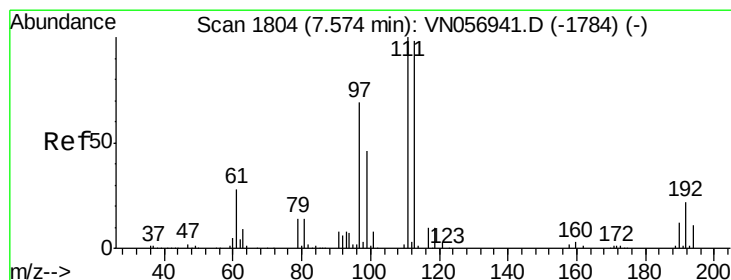
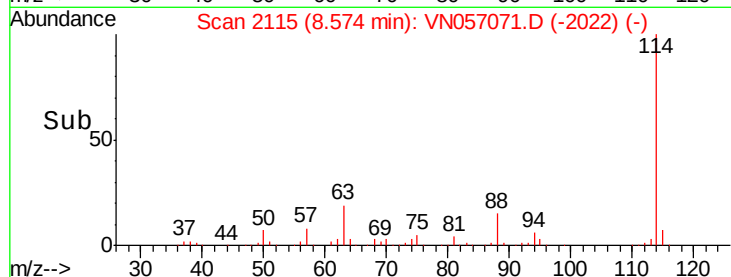
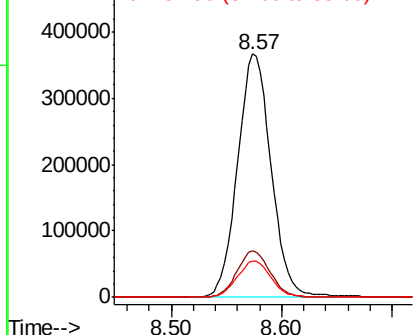
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 773101
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.0
 88 15.1 0.0 30.0

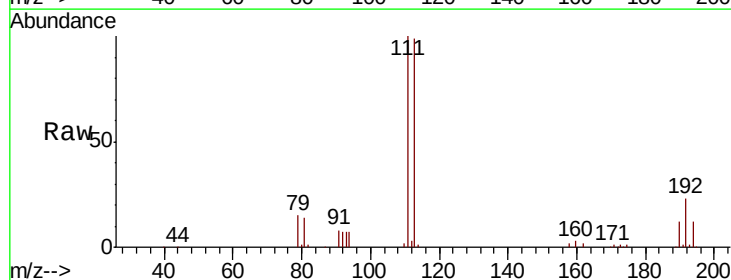


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

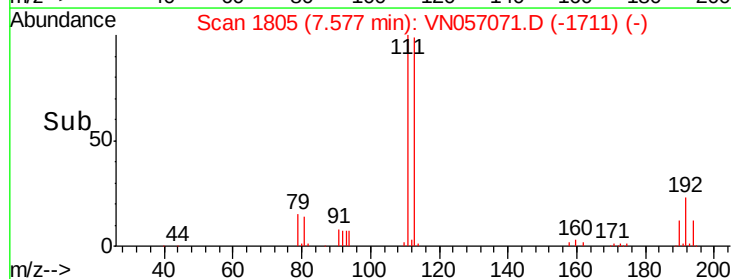
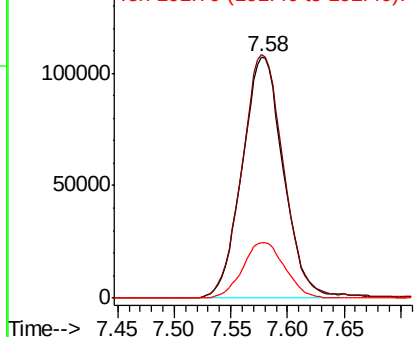


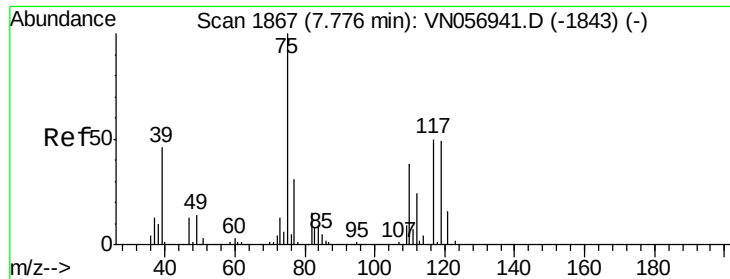
#35
 Dibromofluoromethane
 Concen: 54.772 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

Tgt Ion:113 Resp: 271072
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.0 123.0
 192 23.7 18.4 27.6



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: 4.946 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.12 min

Lab File: VN057071.D

Acq: 5 Aug 2019 10:11

Instrument :

MSVOA_N

ClientSampleId :

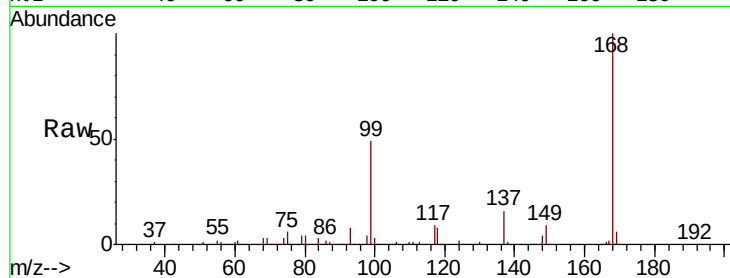
Tot Ion: 75 Resp: 33646

Ion Ratio Lower Upper

75 100

110 8.3 18.6 55.8#

77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-1843) (-)

Ion 109.90 (109.60 to 110.60): VN056941.D (-1843) (-)

Ion 76.90 (76.60 to 77.60): VN056941.D (-1843) (-)

7.65

15000

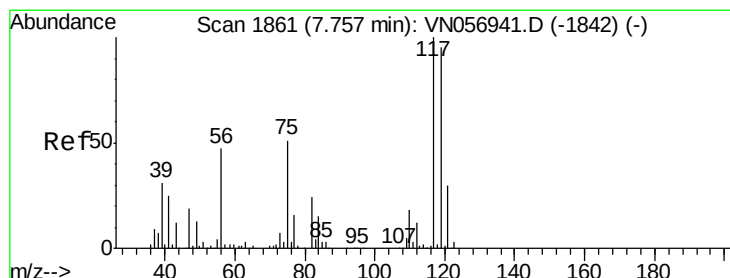
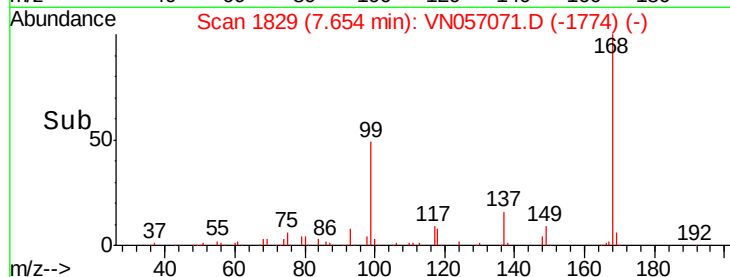
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 7.157 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057071.D

Acq: 5 Aug 2019 10:11

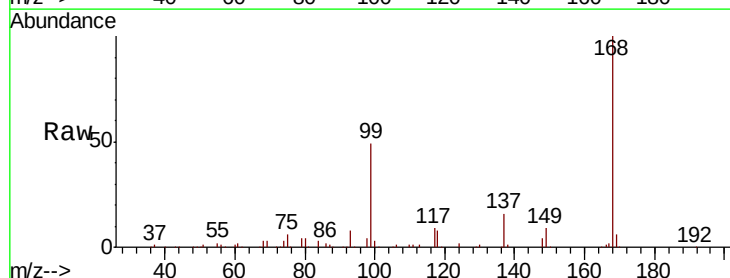
Tgt Ion: 117 Resp: 46052

Ion Ratio Lower Upper

117 100

119 4.2 75.3 112.9#

121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): VN056941.D (-1842) (-)

Ion 118.80 (118.50 to 119.50): VN056941.D (-1842) (-)

Ion 120.80 (120.50 to 121.50): VN056941.D (-1842) (-)

7.65

25000

20000

15000

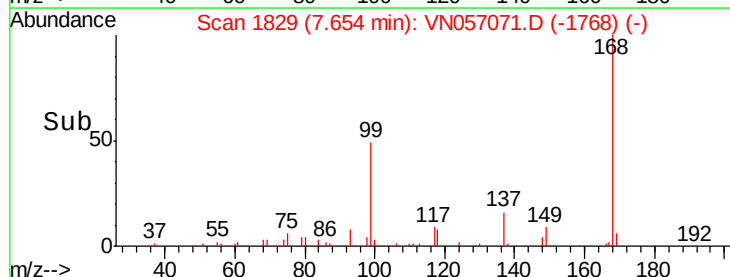
10000

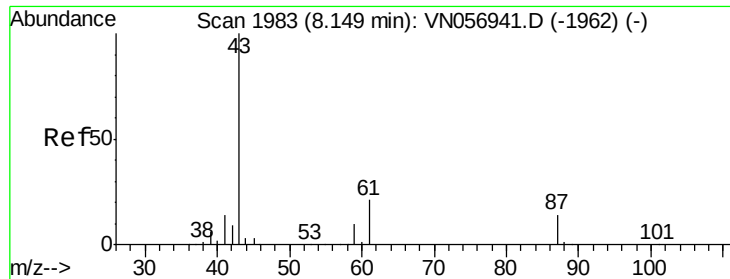
5000

0

7.55 7.60 7.65 7.70 7.75

Time-->





#43

Isopropyl Acetate

Concen: 1.197 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.14 min

Lab File: VN057071.D

Acq: 5 Aug 2019 10:11

Instrument :

MSVOA_N

ClientSampleId :

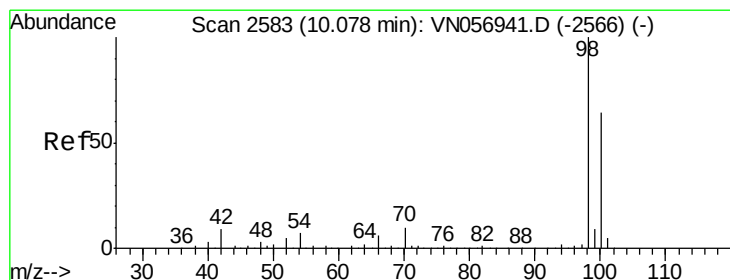
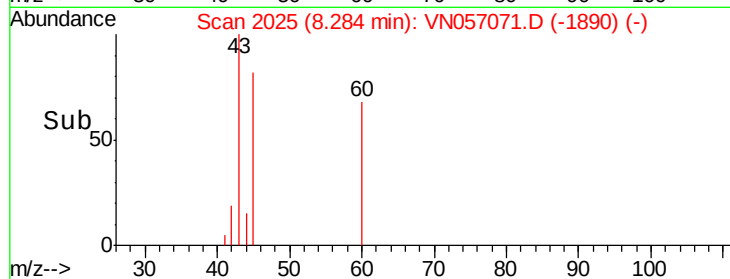
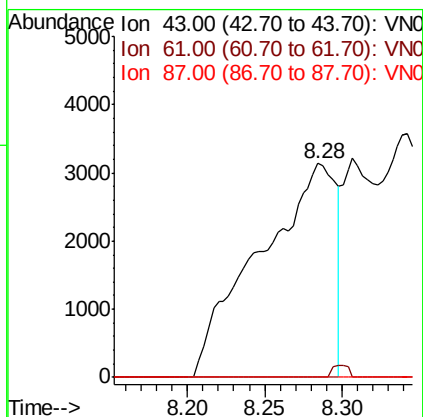
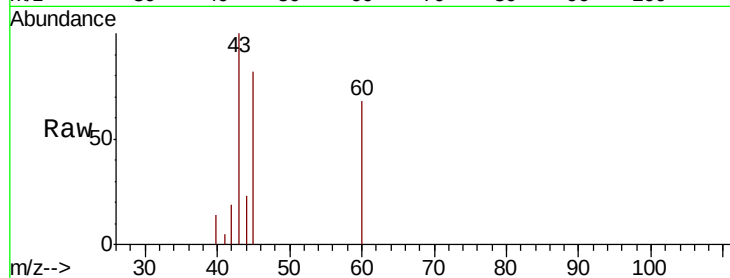
Tot Ion: 43 Resp: 10781

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

87 0.0 11.7 17.5#



#50

Toluene-d8

Concen: 53.990 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057071.D

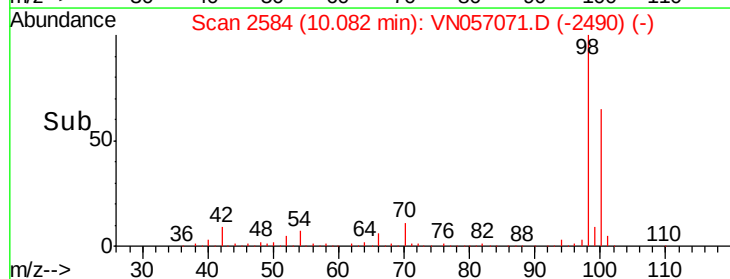
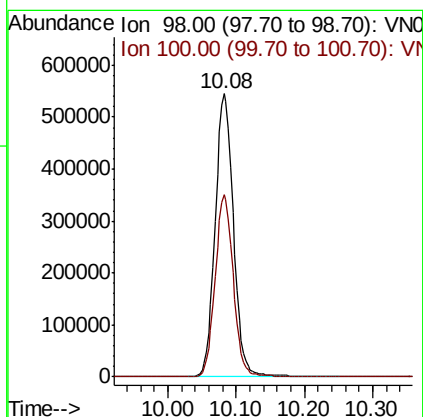
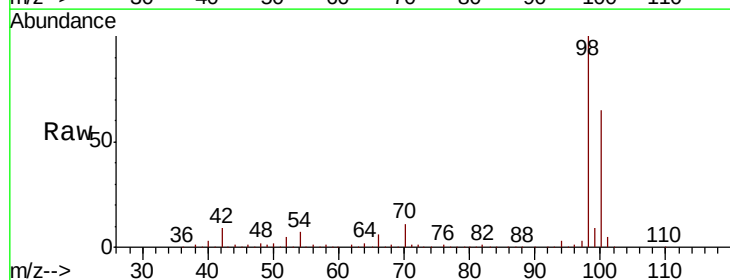
Acq: 5 Aug 2019 10:11

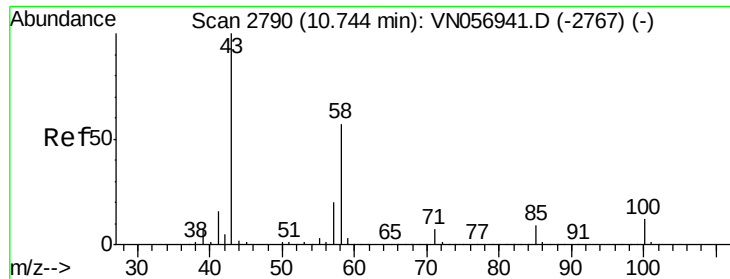
Tgt Ion: 98 Resp: 1018977

Ion Ratio Lower Upper

98 100

100 63.8 51.3 76.9





#59

2-Hexanone

Concen: 2.776 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN057071.D

Acq: 5 Aug 2019 10:11

Instrument :

MSVOA_N

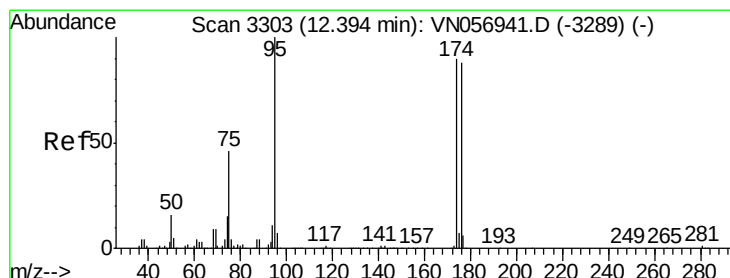
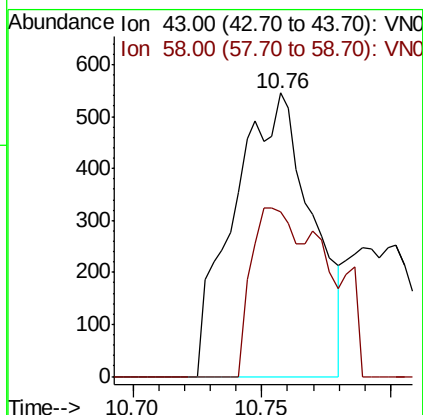
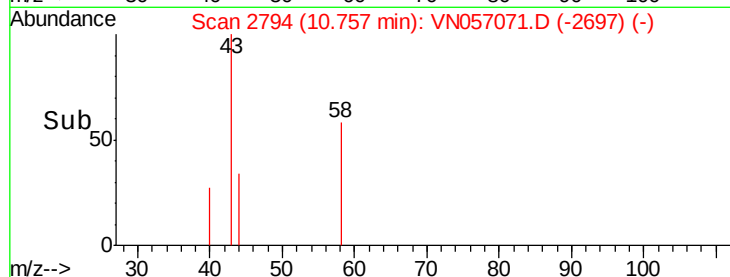
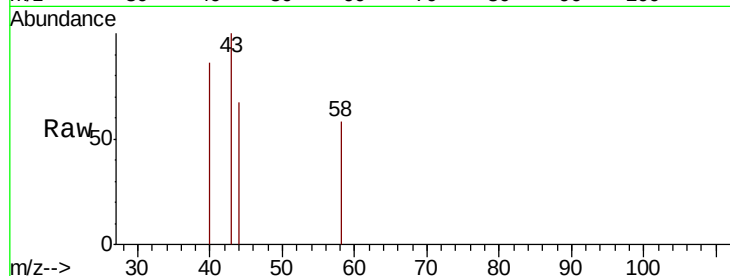
ClientSampled :

Tot Ion: 43 Resp: 1149

Ion Ratio Lower Upper

43 100

58 59.2 28.5 85.5



#62

4-Bromofluorobenzene

Concen: 42.322 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN057071.D

Acq: 5 Aug 2019 10:11

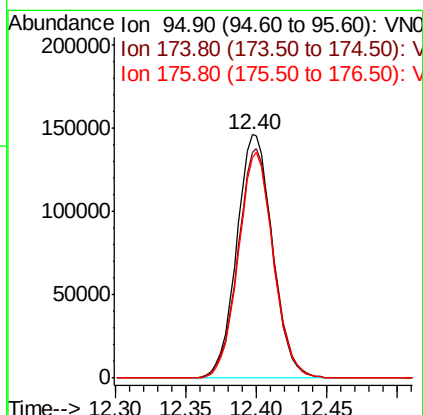
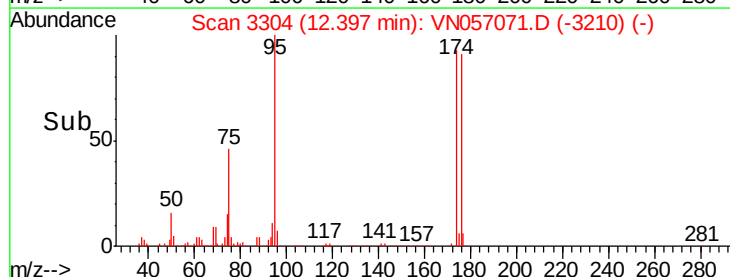
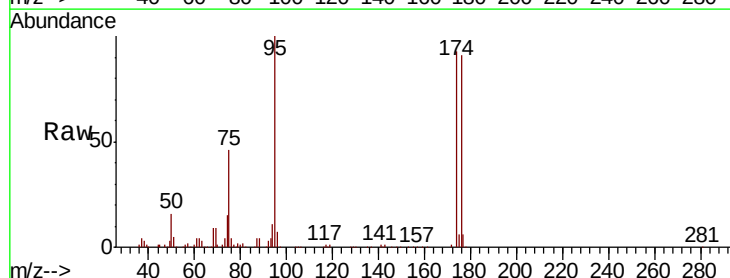
Tgt Ion: 95 Resp: 260030

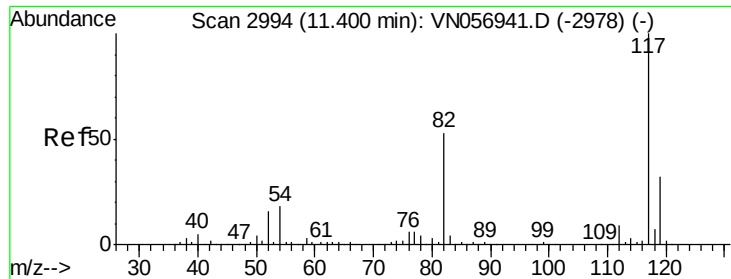
Ion Ratio Lower Upper

95 100

174 93.5 0.0 182.2

176 90.4 0.0 179.4

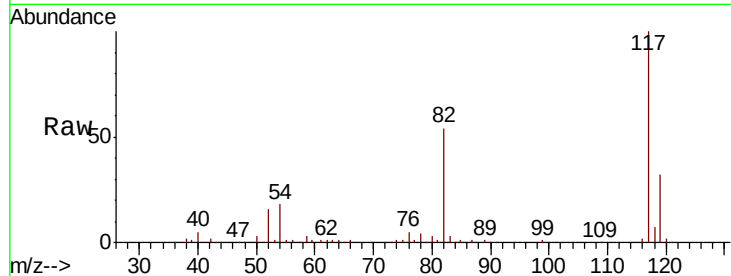




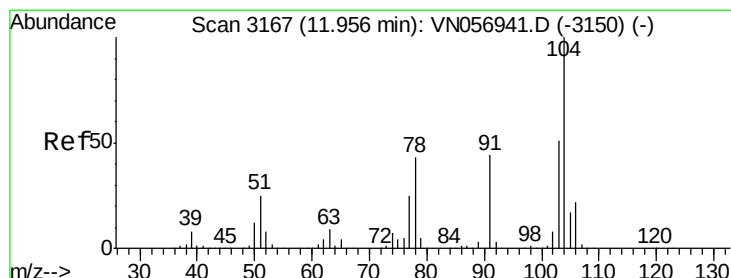
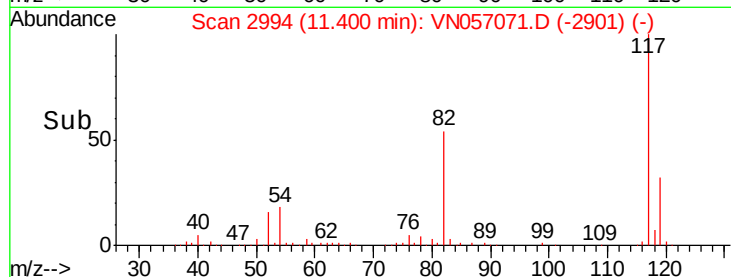
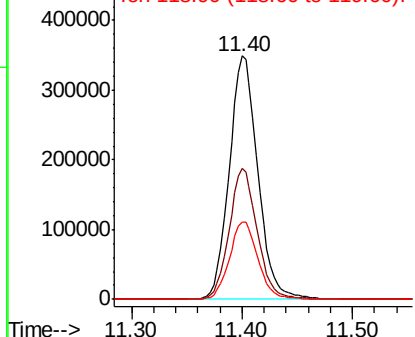
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057071.D
Acq: 5 Aug 2019 10:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 626545
Ion Ratio Lower Upper
117 100
82 53.6 42.2 63.4
119 31.9 25.8 38.6

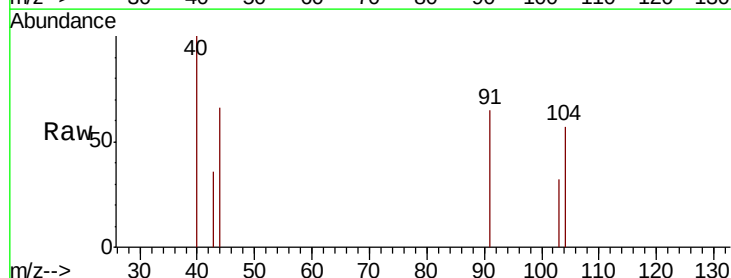


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

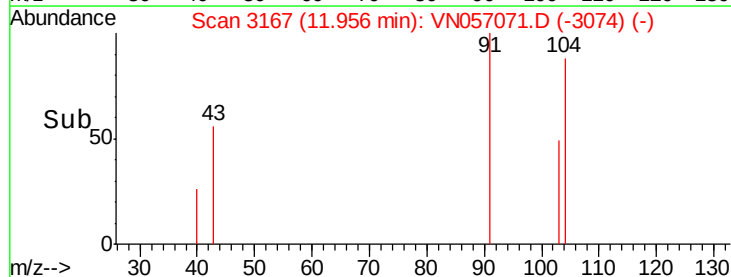
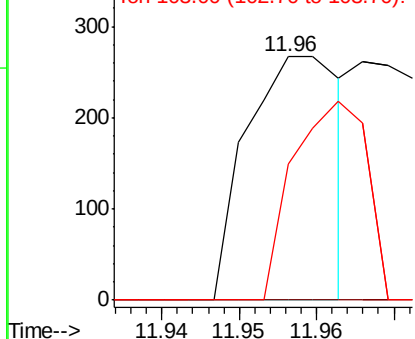


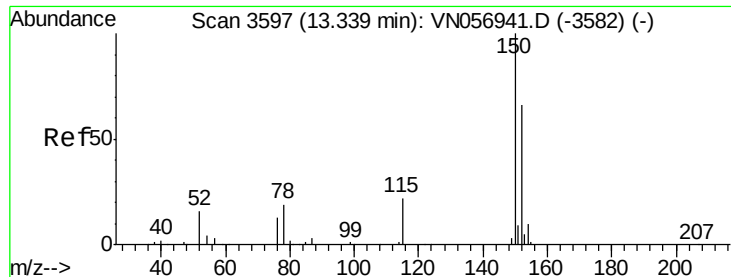
#70
Styrene
Concen: 1.882 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN057071.D
Acq: 5 Aug 2019 10:11

Tgt Ion:104 Resp: 226
Ion Ratio Lower Upper
104 100
78 0.0 38.1 57.1#
103 64.2 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



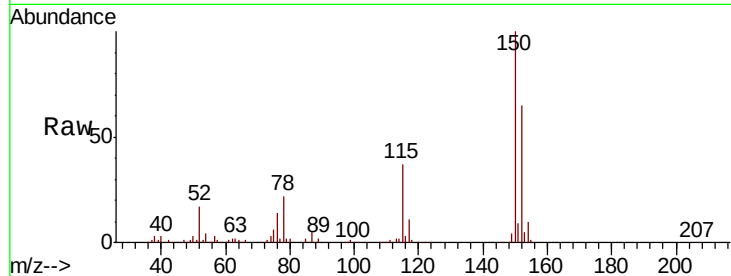


#72

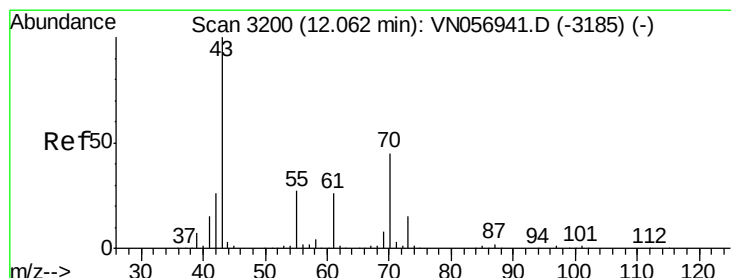
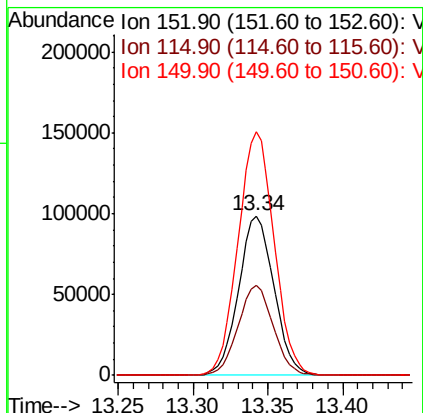
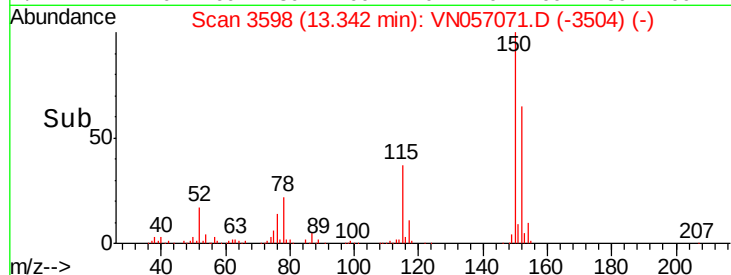
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN057071.D
Acq: 5 Aug 2019 10:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 162465
Ion Ratio Lower Upper
152 100
115 55.9 28.2 84.6
150 155.7 0.0 349.4



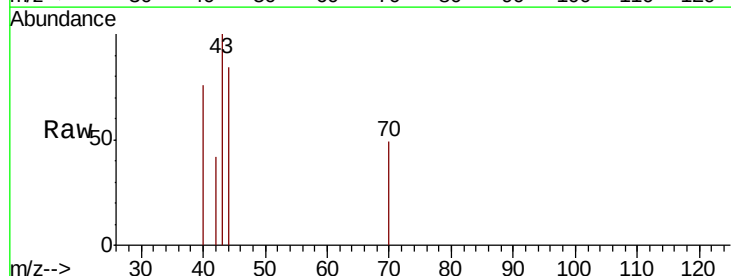
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



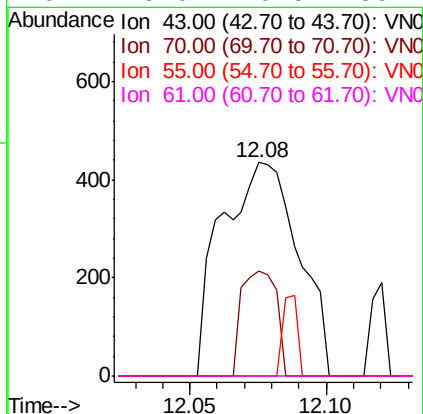
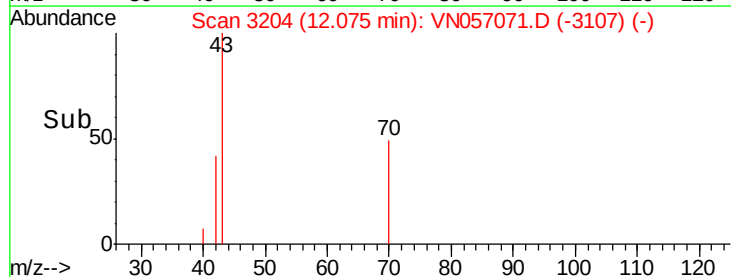
#74

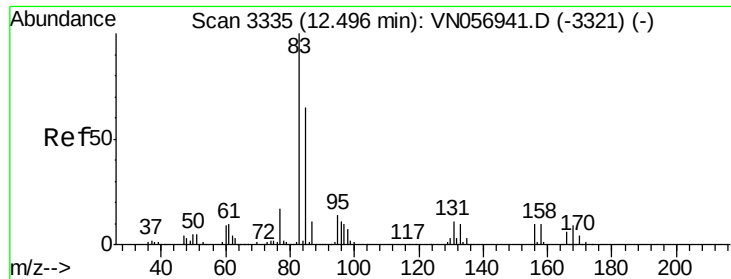
N-ethyl acetate
Concen: 0.209 ug/l
RT: 12.08 min Scan# 3204
Delta R.T. 0.01 min
Lab File: VN057071.D
Acq: 5 Aug 2019 10:11

Tgt Ion: 43 Resp: 852
Ion Ratio Lower Upper
43 100
70 22.2 36.5 54.7#
55 7.3 21.4 32.0#
61 0.0 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO

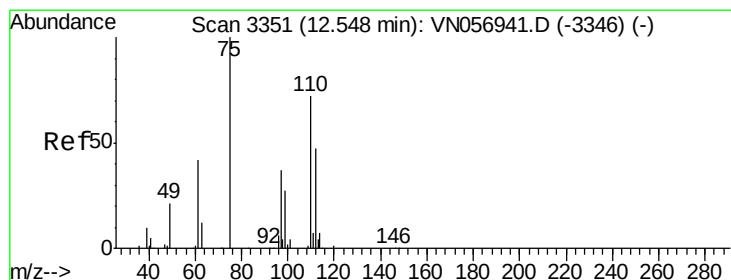
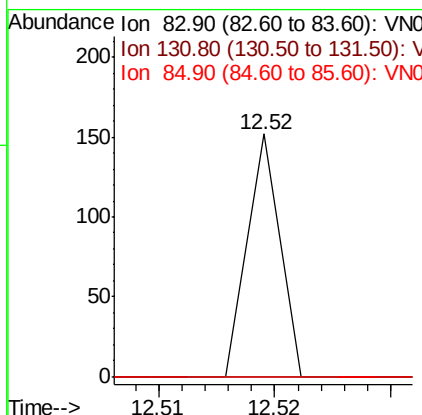
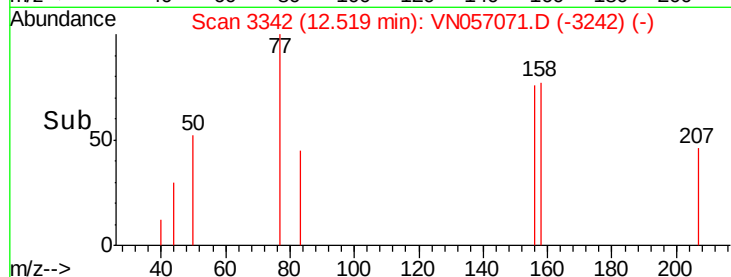
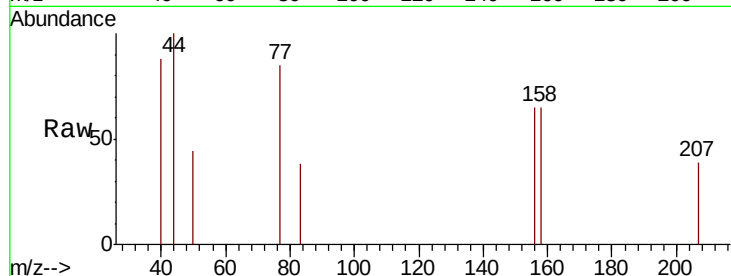




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.52 min Scan# 3342
 Delta R.T. 0.02 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

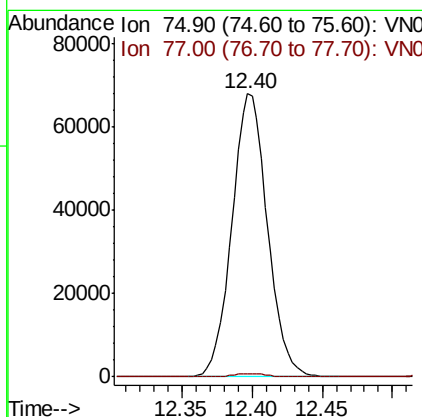
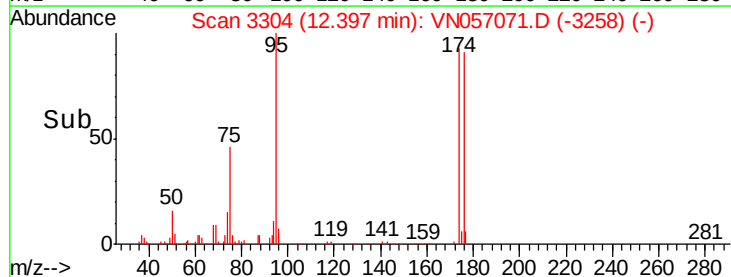
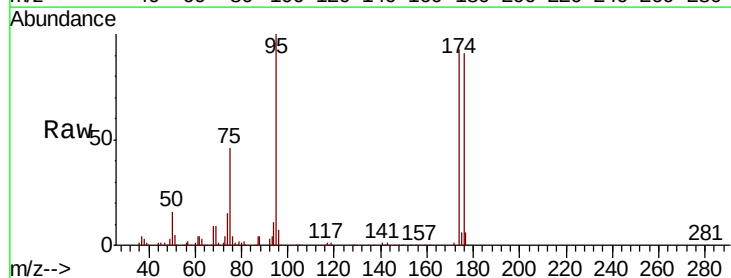
Instrument :
 MSVOA_N
 ClientSampleId :

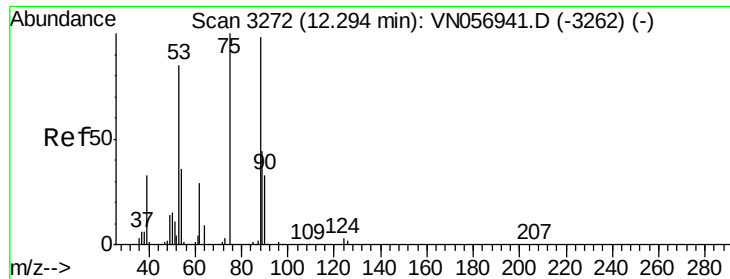
Tot Ion: 83 Resp: 29
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.3 16.1#
 85 0.0 32.5 97.4#



#76
 1,2,3-Trichloropropane
 Concen: 36.287 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

Tgt Ion: 75 Resp: 119726
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#

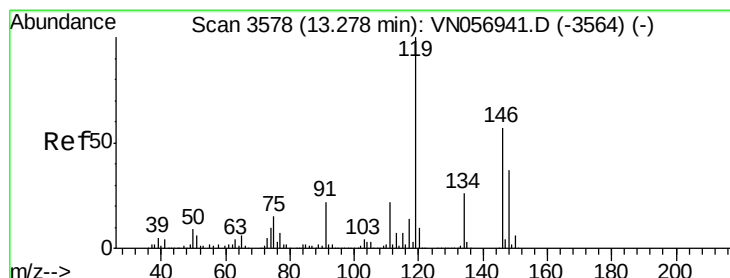
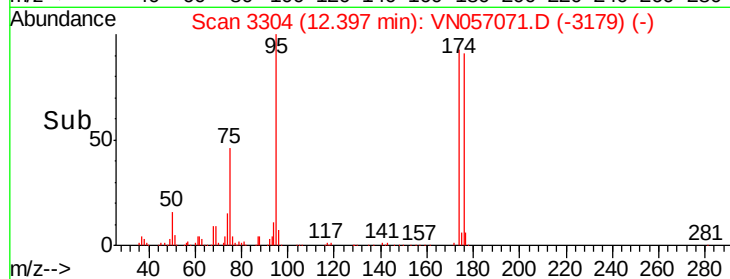
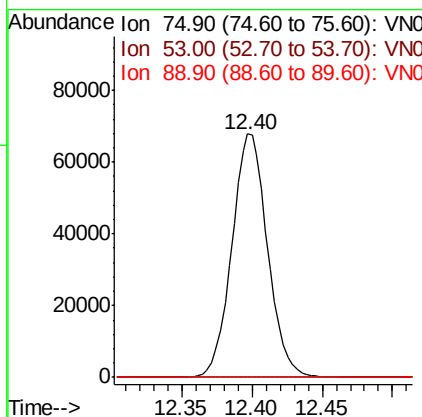
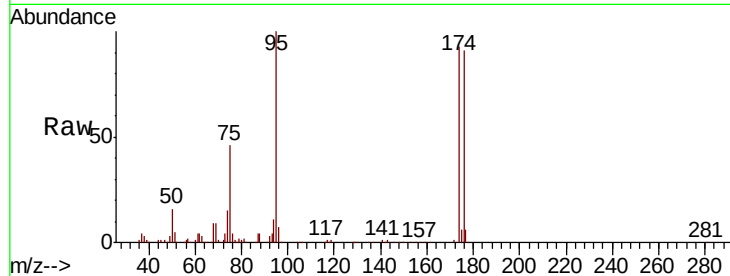




#81
trans-1,4-Dichloro-2-butene
Concen: 116.590 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN057071.D
Acq: 5 Aug 2019 10:11

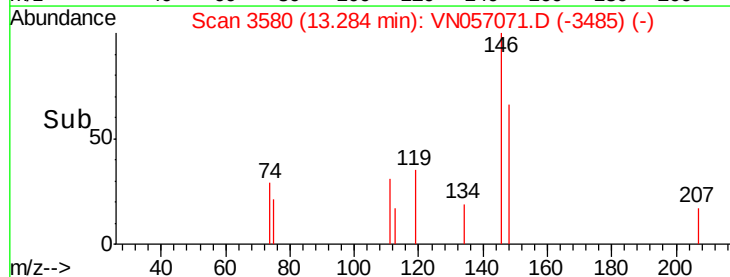
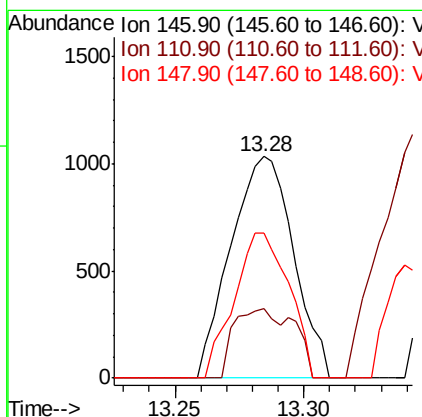
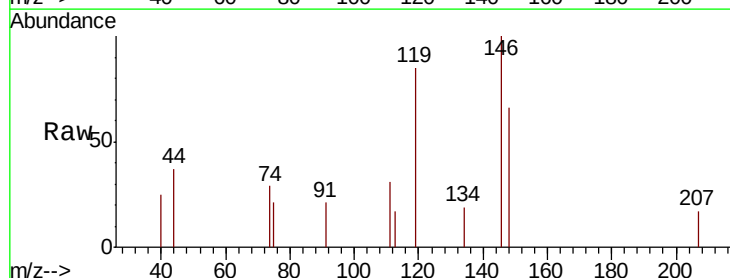
Instrument :
MSVOA_N
ClientSampled :

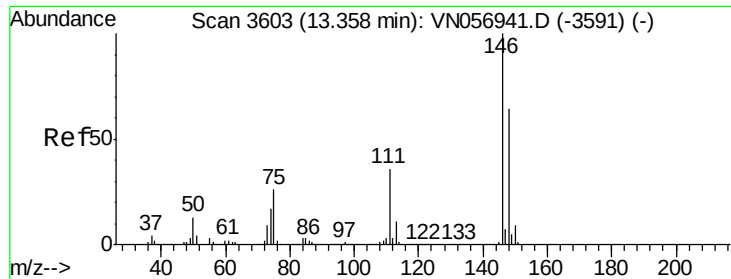
Tot Ion: 75 Resp: 119726
Ion Ratio Lower Upper
75 100
53 0.0 69.3 103.9#
89 0.0 35.8 53.6#



#87
1,3-Dichlorobenzene
Concen: 0.314 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.01 min
Lab File: VN057071.D
Acq: 5 Aug 2019 10:11

Tgt Ion: 146 Resp: 1751
Ion Ratio Lower Upper
146 100
111 29.8 18.6 55.8
148 57.1 32.2 96.6

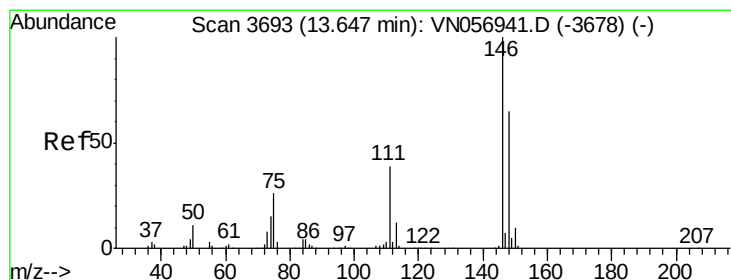
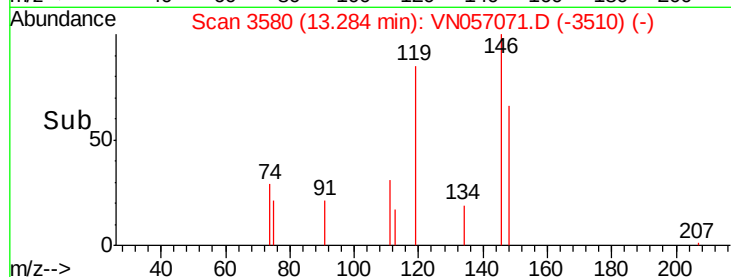
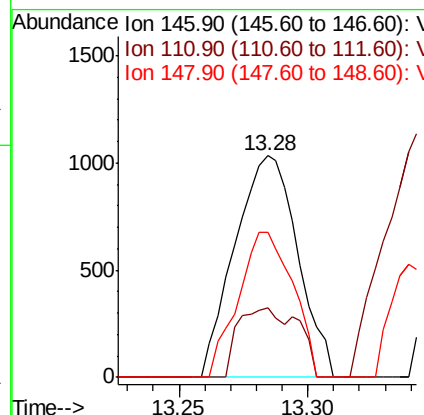
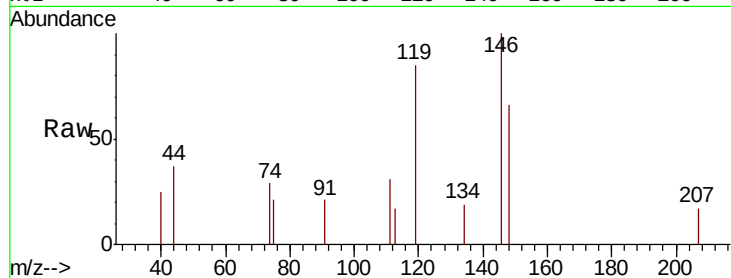




#88
 1,4-Dichlorobenzene
 Concen: 0.326 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.07 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

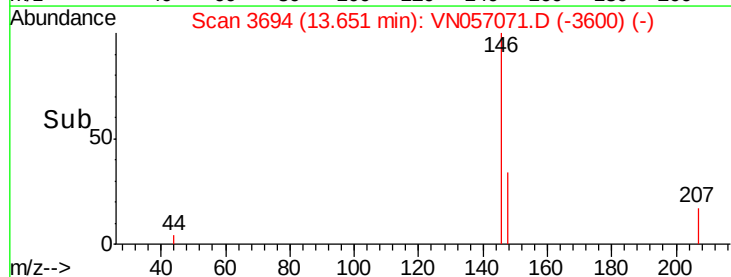
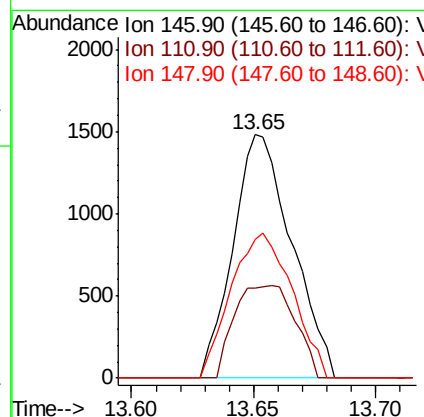
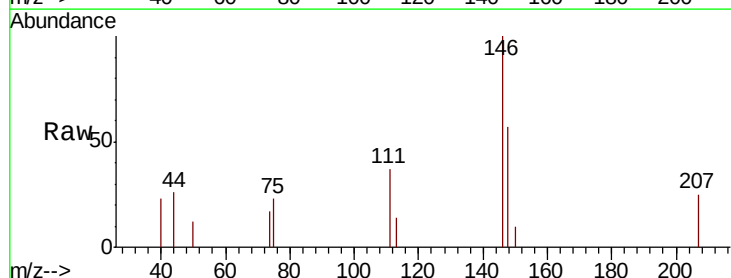
Instrument :
 MSVOA_N
 ClientSampled :

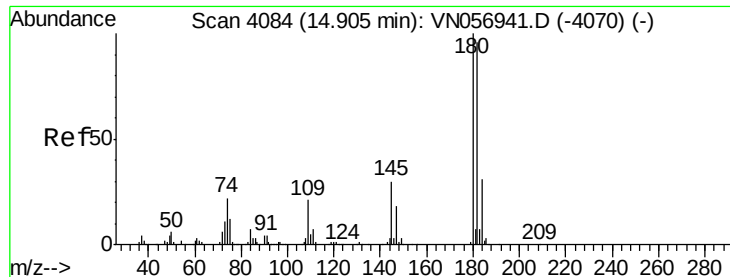
Tot Ion:146 Resp: 1751
 Ion Ratio Lower Upper
 146 100
 111 29.8 18.4 55.2
 148 57.1 32.3 96.9



#91
 1,2-Dichlorobenzene
 Concen: 0.452 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

Tgt Ion:146 Resp: 2478
 Ion Ratio Lower Upper
 146 100
 111 39.3 19.4 58.4
 148 62.1 32.2 96.6

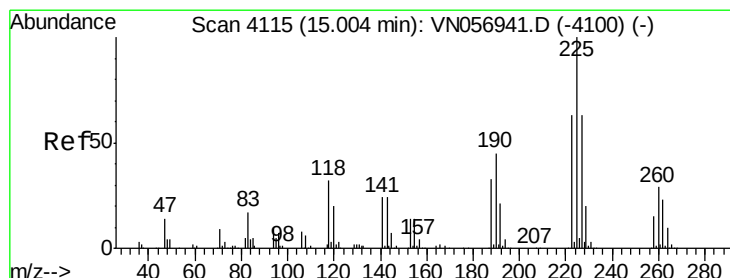
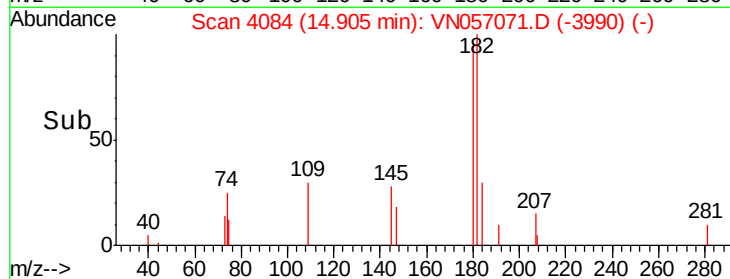
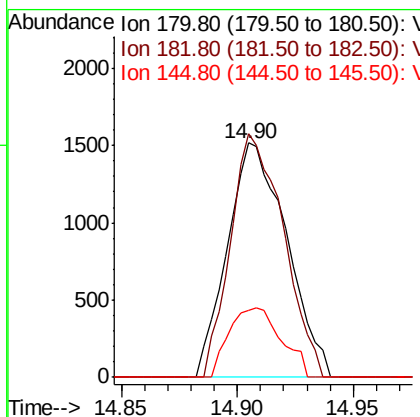
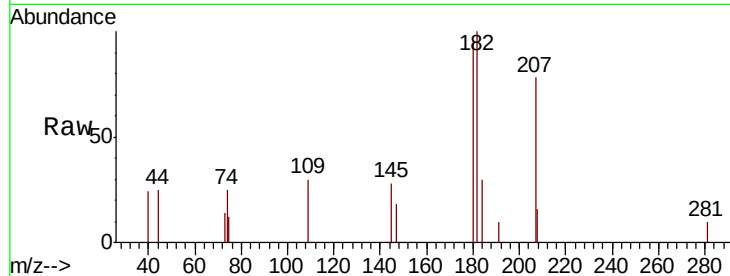




#93
 1,2,4-Trichlorobenzene
 Concen: 3.611 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

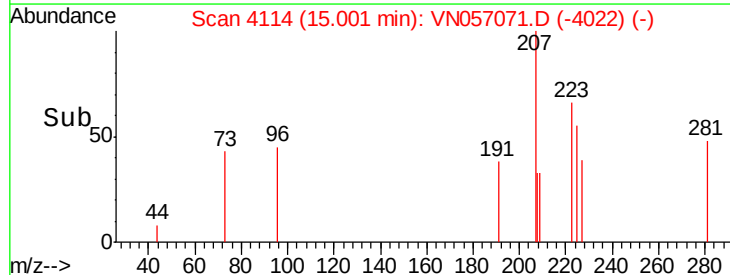
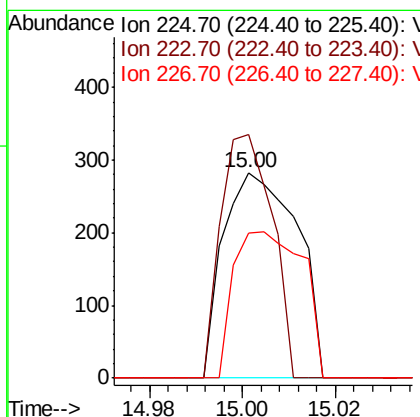
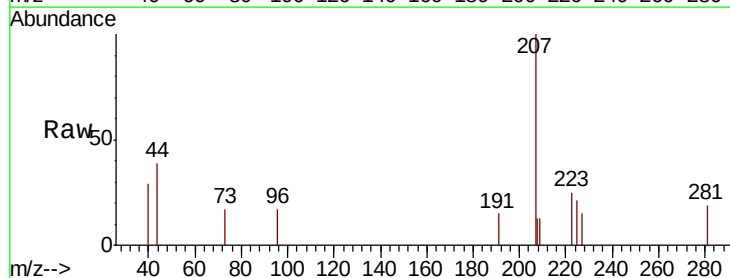
Instrument :
 MSVOA_N
 ClientSampled :

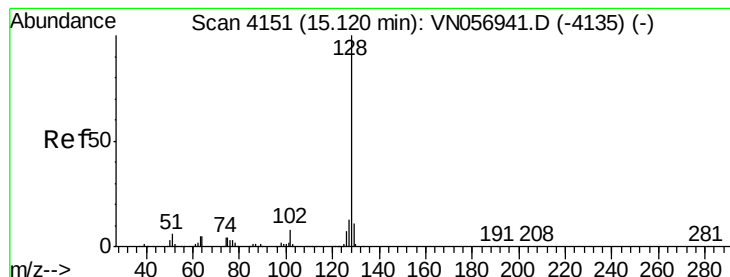
Tot Ion:180 Resp: 2692
 Ion Ratio Lower Upper
 180 100
 182 92.8 47.6 142.8
 145 26.1 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4114
 Delta R.T. -0.00 min
 Lab File: VN057071.D
 Acq: 5 Aug 2019 10:11

Tgt Ion:225 Resp: 312
 Ion Ratio Lower Upper
 225 100
 223 82.7 30.8 92.4
 227 66.7 31.1 93.5





#95

Naphthalene

Concen: 4.158 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.01 min

Lab File: VN057071.D

Acq: 5 Aug 2019 10:11

Instrument :

MSVOA_N

ClientSampleId :

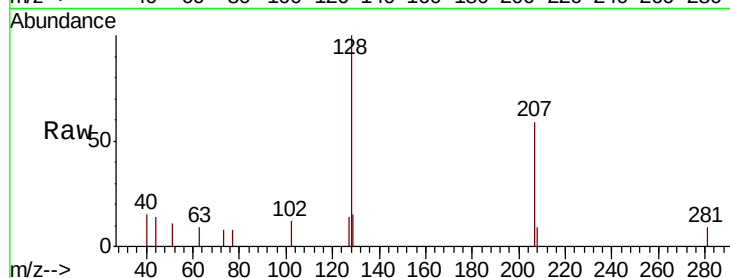
Tot Ion:128 Resp: 4238

Ion Ratio Lower Upper

128 100

127 9.1 10.0 15.0#

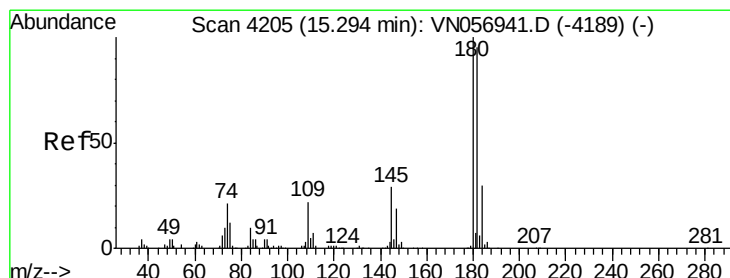
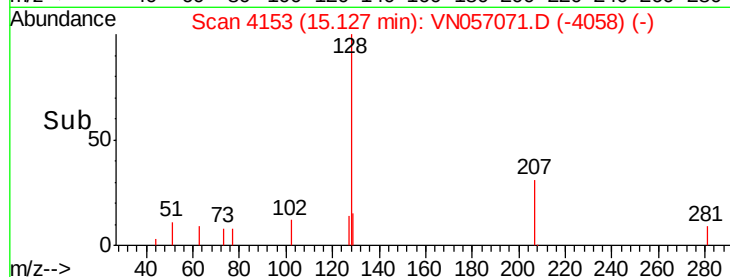
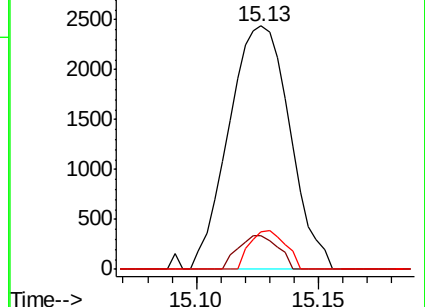
129 9.2 8.7 13.1



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: 3.007 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.01 min

Lab File: VN057071.D

Acq: 5 Aug 2019 10:11

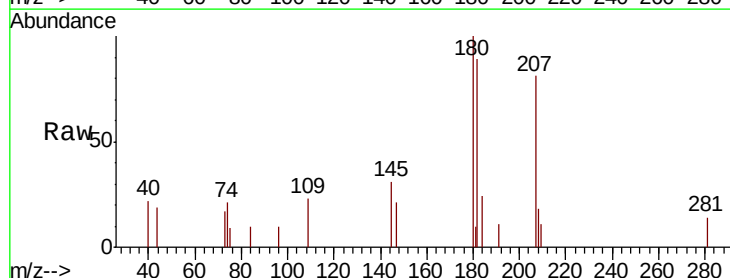
Tgt Ion:180 Resp: 2854

Ion Ratio Lower Upper

180 100

182 94.2 48.0 144.2

145 28.0 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

