

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN100319\
 Data File : VN058514.D
 Acq On : 3 Oct 2019 16:50
 Operator : JC/SP
 Sample : K5156-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EAST-ACCESS-SP

Quant Time: Oct 04 03:21:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

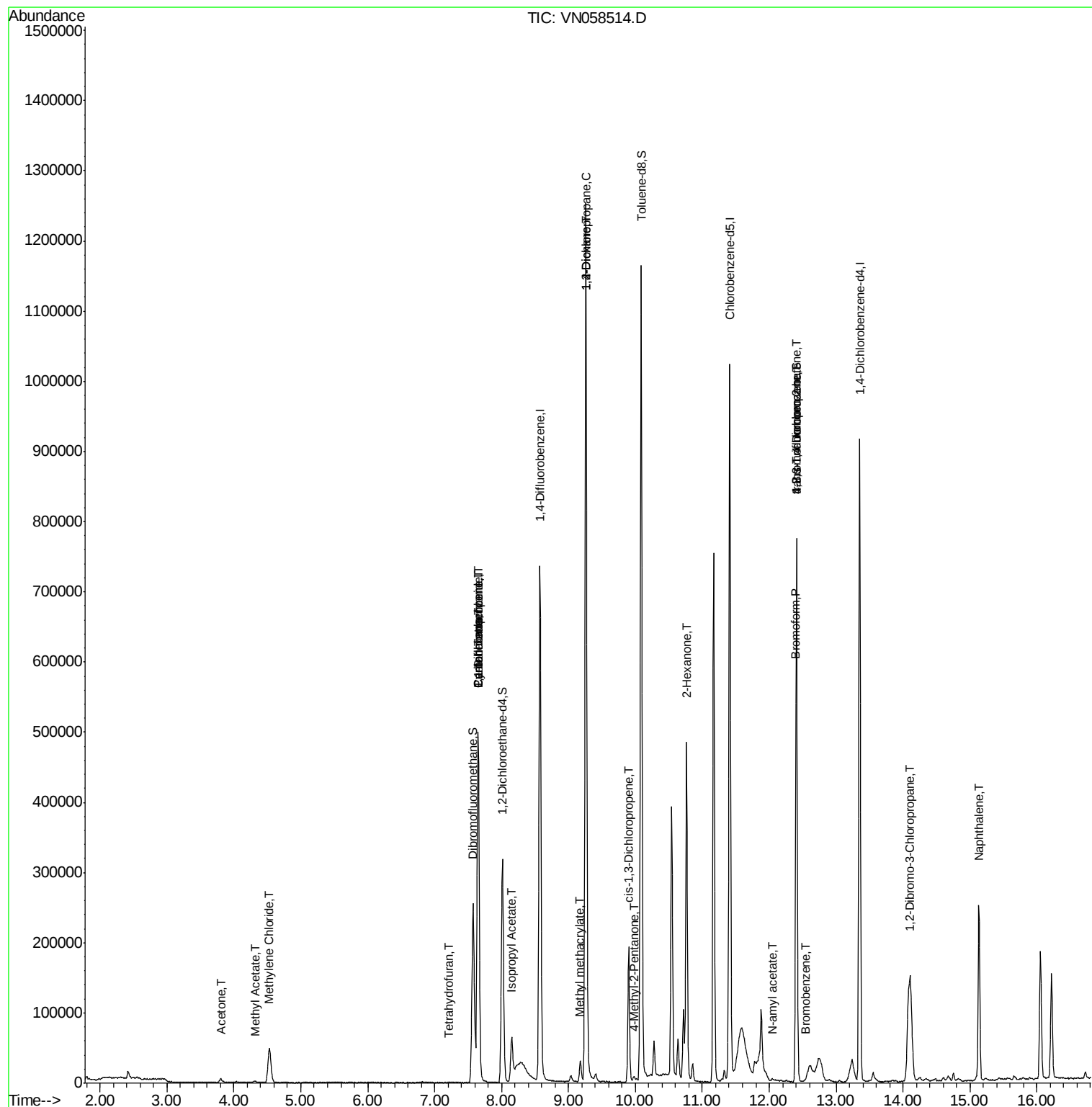
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	381616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	639078	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	560390	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	226893	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	278922	50.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.04%	
35) Dibromofluoromethane	7.58	113	193608	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	
50) Toluene-d8	10.08	98	800407	52.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.32%	
62) 4-Bromofluorobenzene	12.41	95	258255	46.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.10%	
Target Compounds						
					Qvalue	
16) Acetone	3.81	43	10048	5.286	ug/l	94
18) Methyl Acetate	4.32	43	3991	0.835	ug/l #	63
20) Methylene Chloride	4.53	84	36611	8.345	ug/l	91
29) Tetrahydrofuran	7.20	42	568	0.343	ug/l #	39
31) Cyclohexane	7.65	56	9711	1.258	ug/l #	17
36) 1,1-Dichloropropene	7.65	75	33949	5.556	ug/l #	53
38) Carbon Tetrachloride	7.65	117	41269	7.482	ug/l #	15
43) Isopropyl Acetate	8.15	43	87985	9.031	ug/l	96
45) 1,2-Dichloropropane	9.26	63	1281	0.272	ug/l #	43
48) Methyl methacrylate	9.17	41	4712	1.062	ug/l #	13
49) 1,4-Dioxane	9.27	88	74	1.248	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5343	1.068	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	32443	4.751	ug/l #	66
59) 2-Hexanone	10.76	43	75810	20.804	ug/l #	53
60) Dibromochloromethane	10.63	129	1012	Below Cal	#	22
71) Bromoform	12.39	173	38	0.709	ug/l #	1
74) N-amyl acetate	12.04	43	2740	0.411	ug/l #	46
76) 1,2,3-Trichloropropane	12.41	75	143642	34.661	ug/l #	100
77) Bromobenzene	12.54	156	1559	0.397	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.41	75	143642	105.269	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.10	75	14754	16.874	ug/l #	35
95) Naphthalene	15.13	128	195772	17.642	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

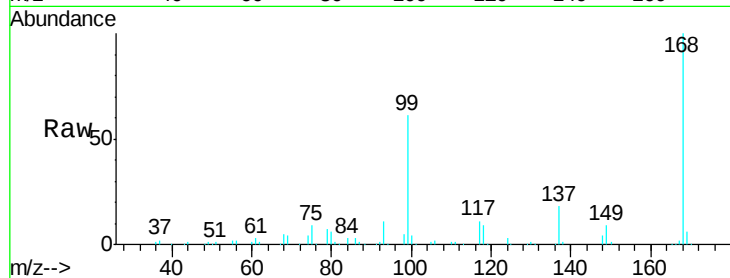
Instrument :
MSVOA_N
ClientSampleId :
EAST-ACCESS-SP

Tgt Ion:168 Resp: 381616

Ion Ratio Lower Upper

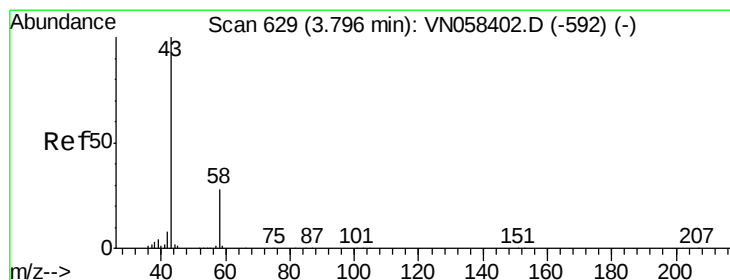
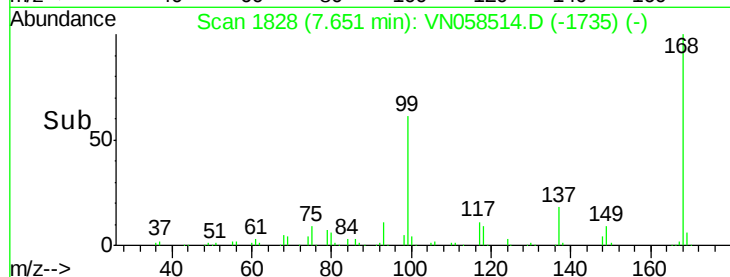
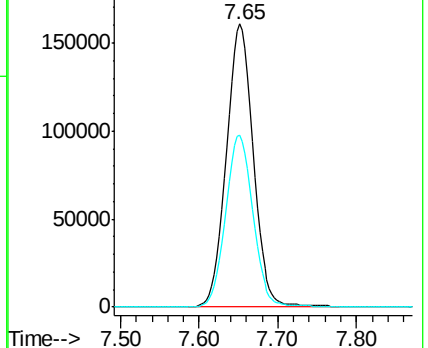
168 100

99 60.7 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 5.286 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058514.D

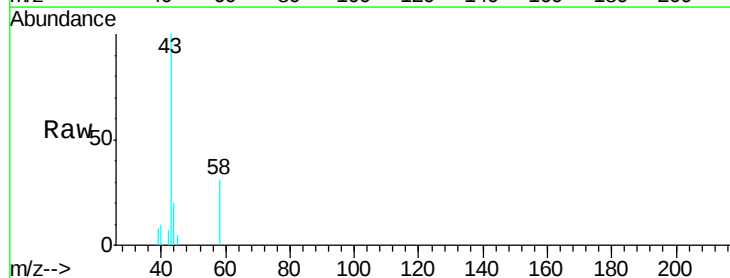
Acq: 3 Oct 2019 16:50

Tgt Ion: 43 Resp: 10048

Ion Ratio Lower Upper

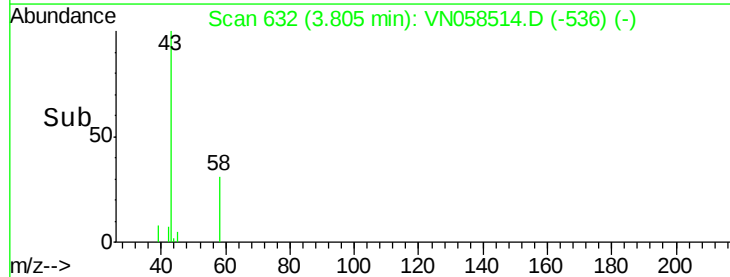
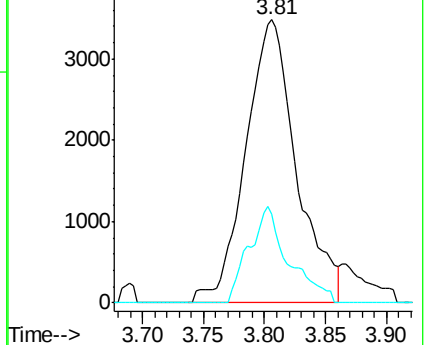
43 100

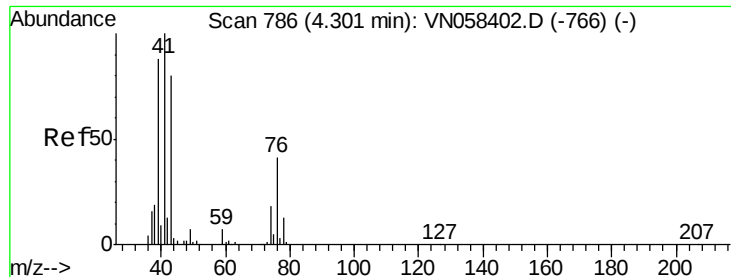
58 31.2 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

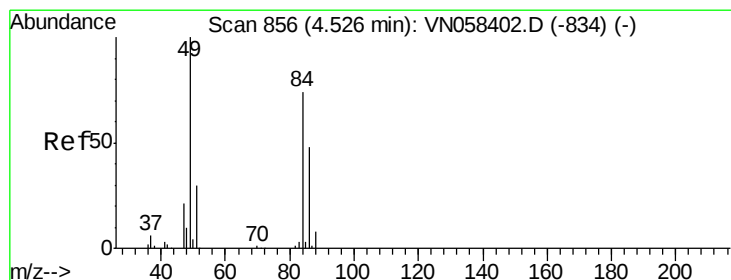
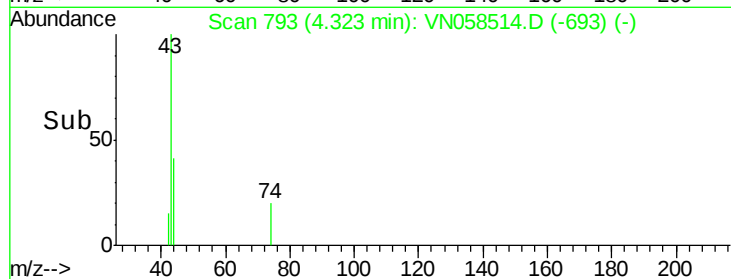
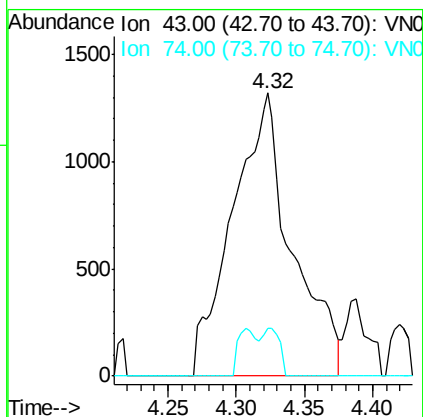
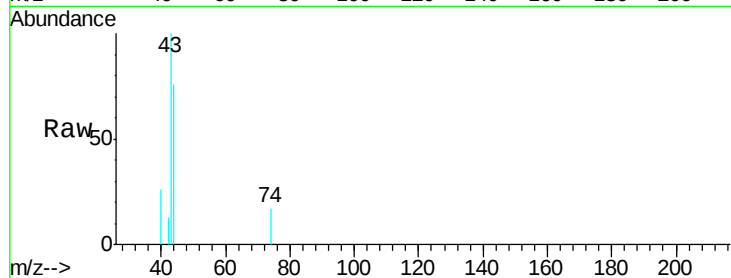




#18
Methyl Acetate
Concen: 0.835 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.02 min
Lab File: VN058514.D
Acq: 3 Oct 2019 16:50

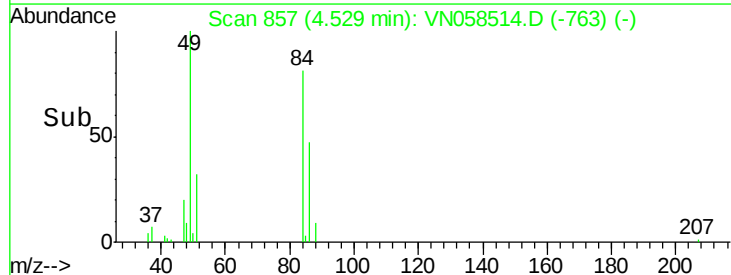
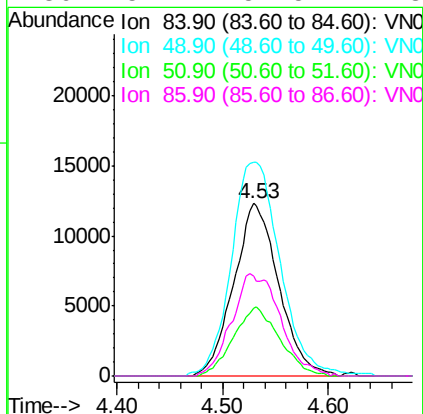
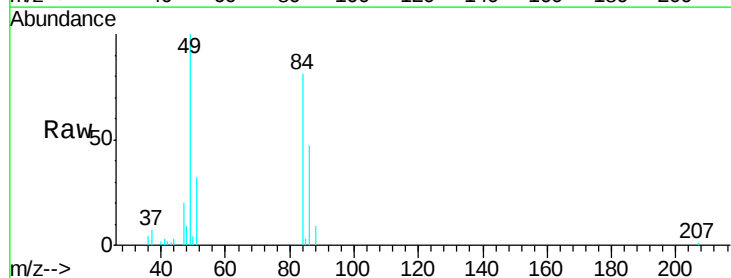
Instrument :
MSVOA_N
ClientSampleId :
EAST-ACCESS-SP

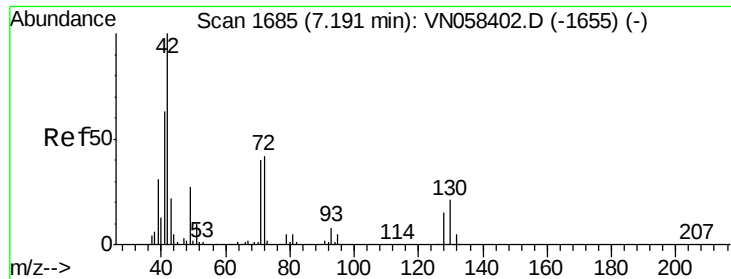
Tgt Ion: 43 Resp: 3991
Ion Ratio Lower Upper
43 100
74 4.8 18.0 27.0#



#20
Methylene Chloride
Concen: 8.345 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058514.D
Acq: 3 Oct 2019 16:50

Tgt Ion: 84 Resp: 36611
Ion Ratio Lower Upper
84 100
49 122.1 107.9 161.9
51 39.2 32.8 49.2
86 57.7 51.5 77.3

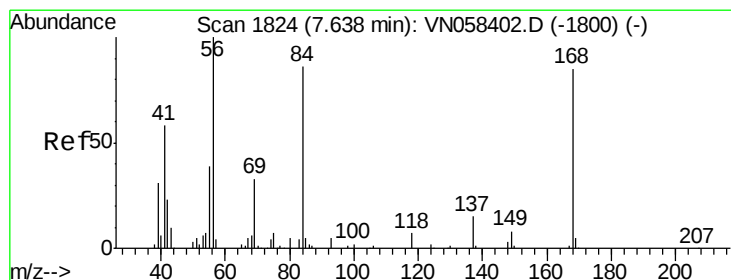
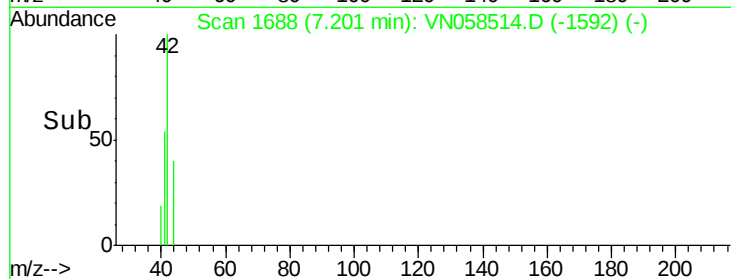
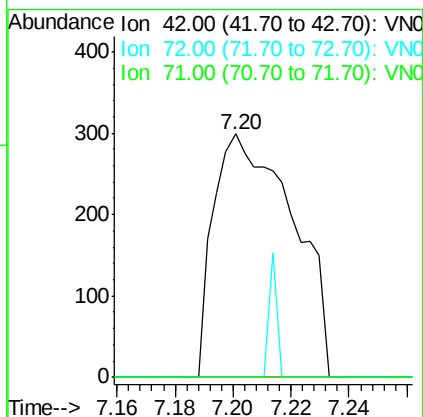
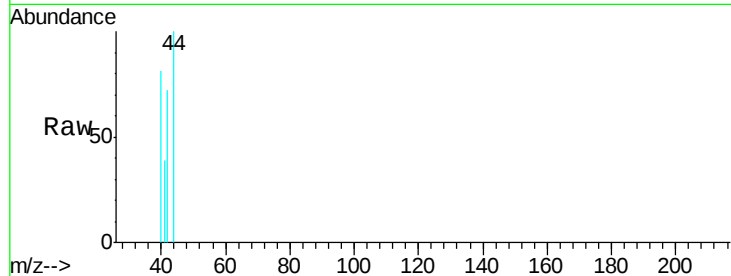




#29
Tetrahydrofuran
Concen: 0.343 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN058514.D
Acq: 3 Oct 2019 16:50

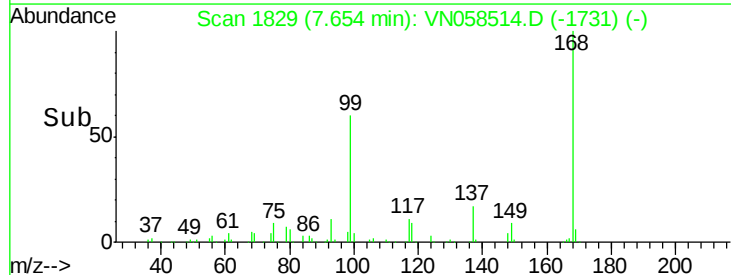
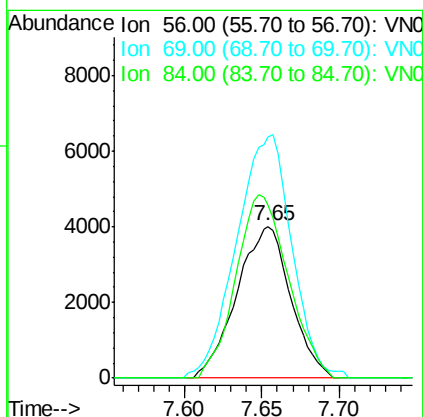
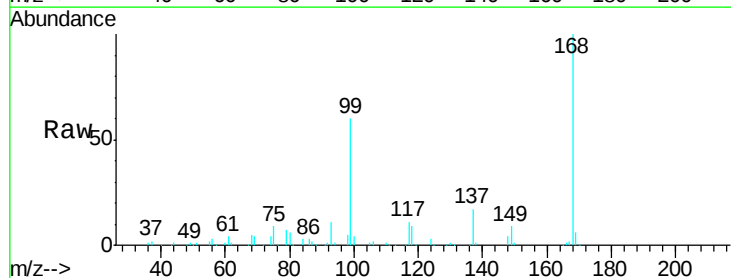
Instrument :
MSVOA_N
ClientSampleId :
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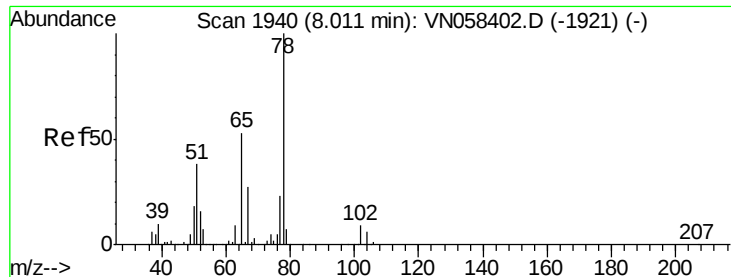
Tgt Ion: 42 Resp: 568
Ion Ratio Lower Upper
42 100
72 5.3 33.7 50.5#
71 0.0 31.8 47.6#



#31
Cyclohexane
Concen: 1.258 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN058514.D
Acq: 3 Oct 2019 16:50

Tgt Ion: 56 Resp: 9711
Ion Ratio Lower Upper
56 100
69 154.3 26.2 39.4#
84 113.8 67.6 101.4#

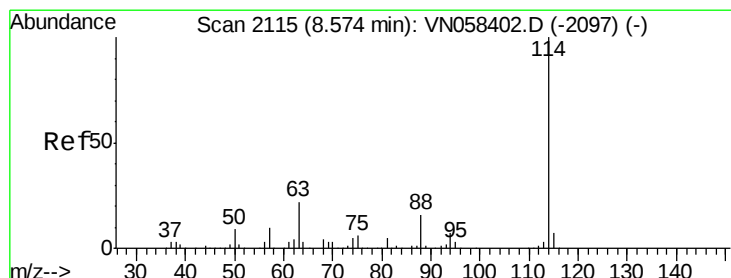
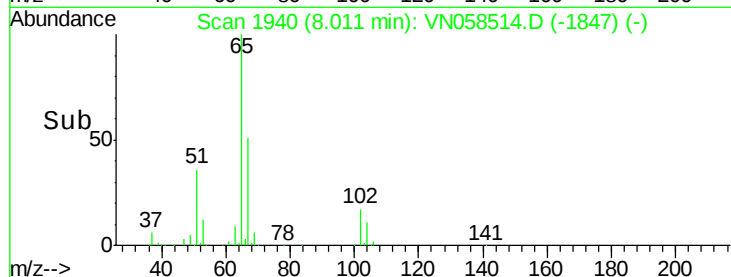
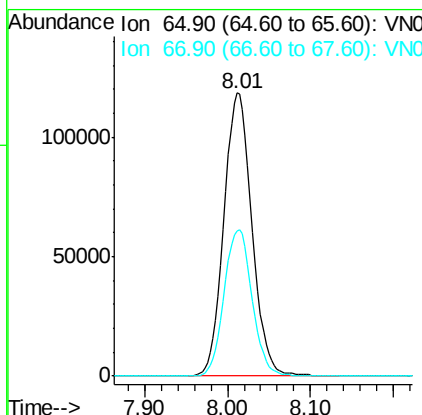
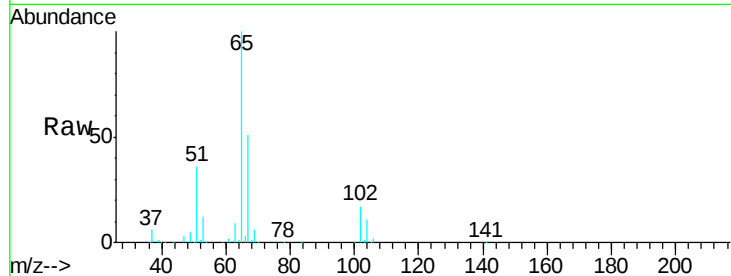




#33
 1,2-Dichloroethane-d4
 Concen: 50.016 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058514.D
 Acq: 3 Oct 2019 16:50

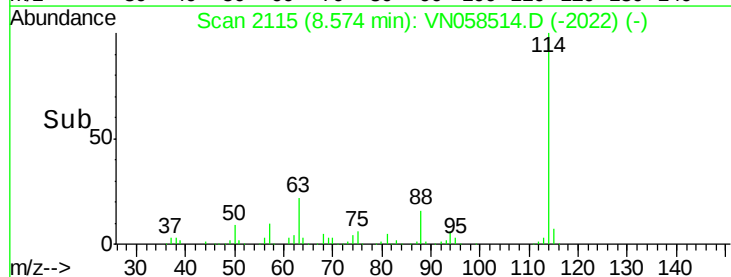
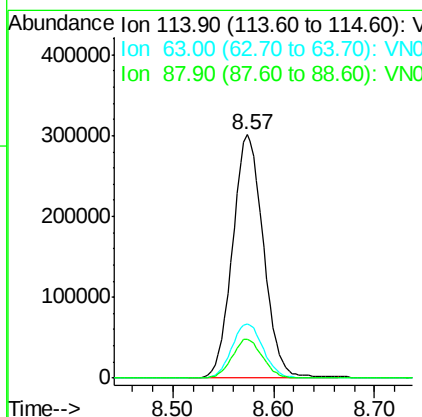
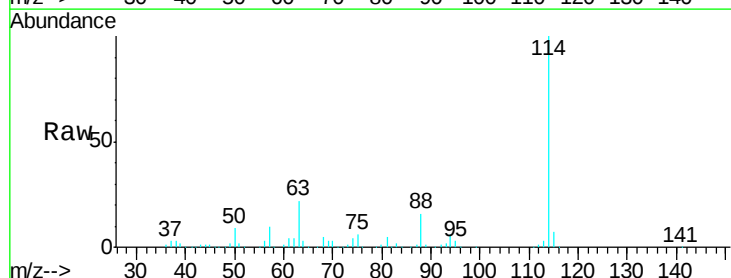
Instrument :
 MSVOA_N
 ClientSampleId :
 EAST-ACCESS-SP

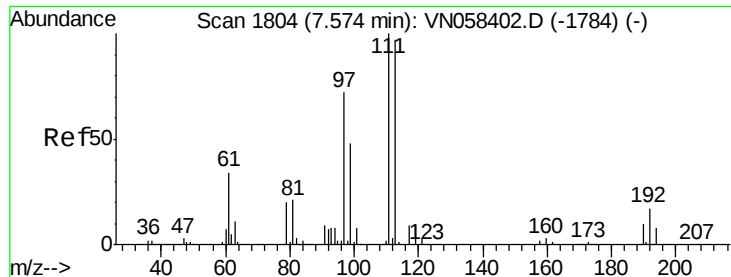
Tgt Ion: 65 Resp: 278922
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058514.D
 Acq: 3 Oct 2019 16:50

Tgt Ion: 114 Resp: 639078
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 45.0
 88 16.0 0.0 32.2





#35

Dibromofluoromethane

Concen: 49.430 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

Instrument :
MSVOA_N
ClientSampleId :
EAST-ACCESS-SP

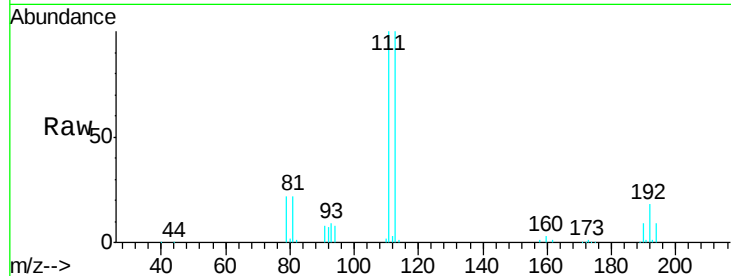
Tgt Ion:113 Resp: 193608

Ion Ratio Lower Upper

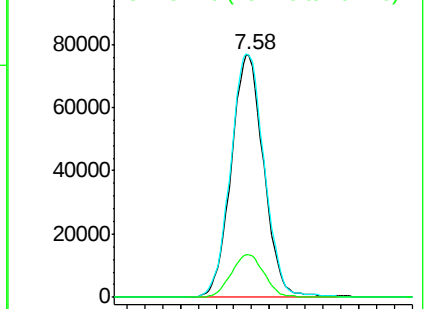
113 100

111 103.8 83.4 125.2

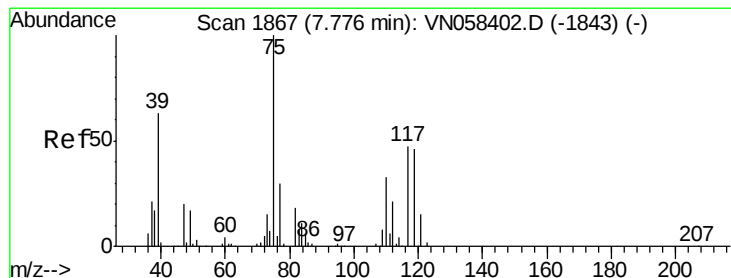
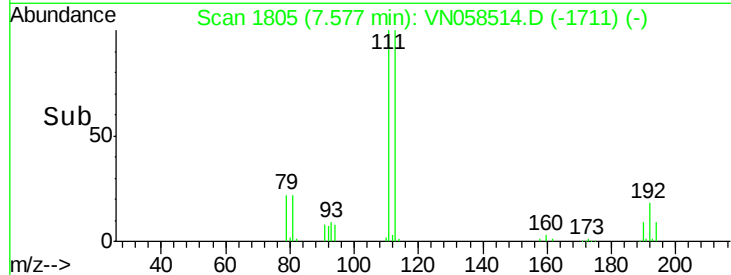
192 17.9 14.9 22.3



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



Time-->



#36

1,1-Dichloropropene

Concen: 5.556 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

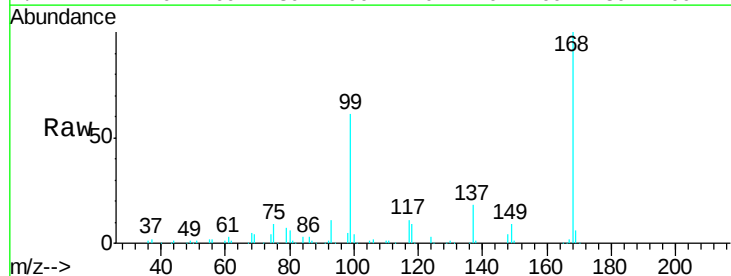
Tgt Ion: 75 Resp: 33949

Ion Ratio Lower Upper

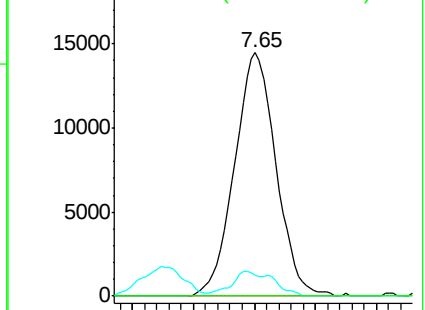
75 100

110 10.4 16.4 49.2#

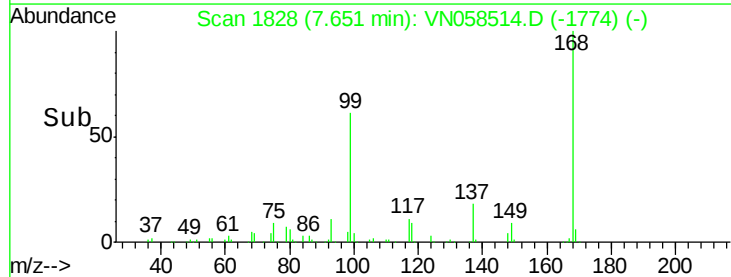
77 0.0 24.3 36.5#

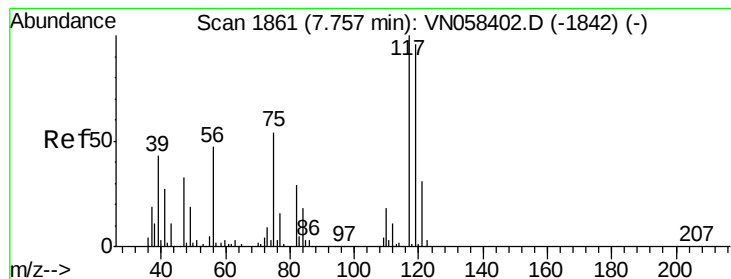


Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO



Time-->





#38

Carbon Tetrachloride

Concen: 7.482 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

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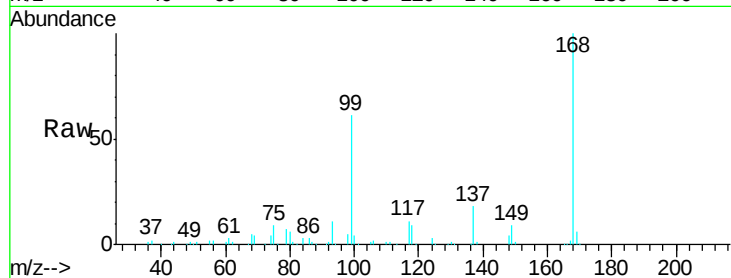
Tgt Ion:117 Resp: 41269

Ion Ratio Lower Upper

117 100

119 3.9 76.6 115.0#

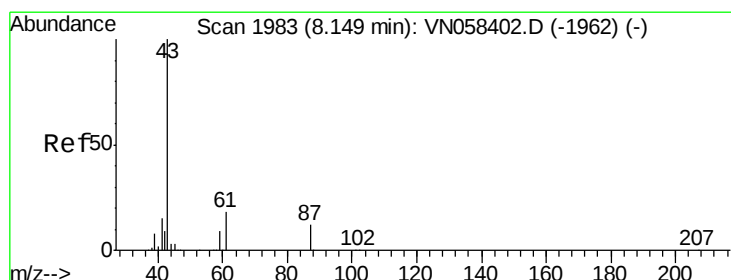
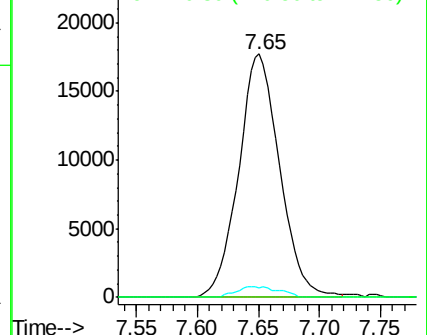
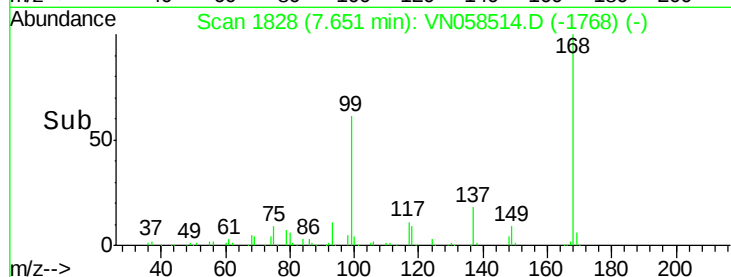
121 0.0 24.7 37.1#



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: 9.031 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

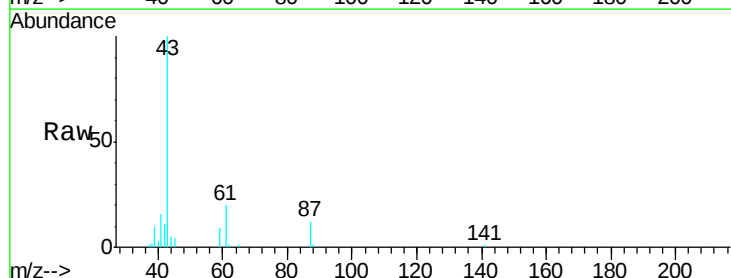
Tgt Ion: 43 Resp: 87985

Ion Ratio Lower Upper

43 100

61 16.5 14.8 22.2

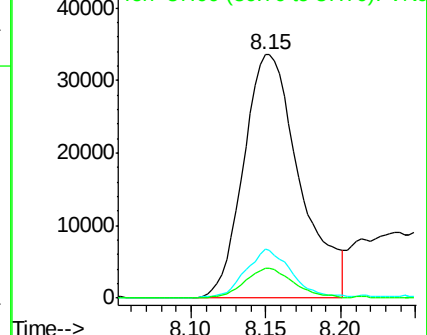
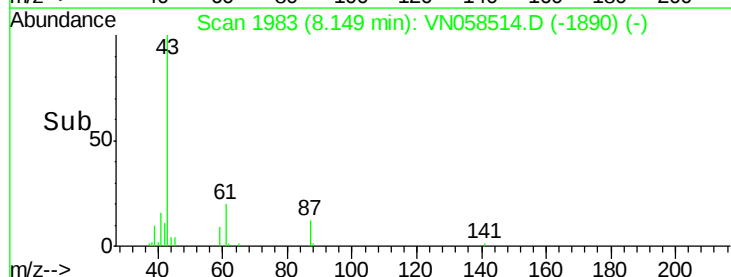
87 10.5 9.7 14.5

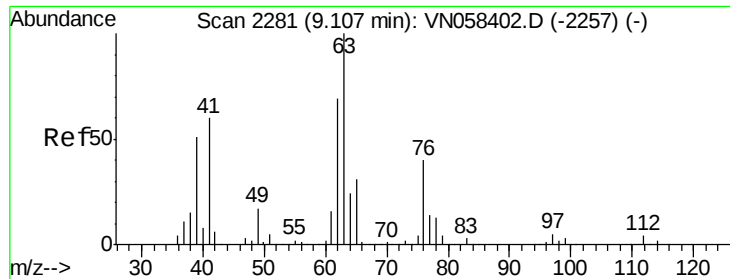


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

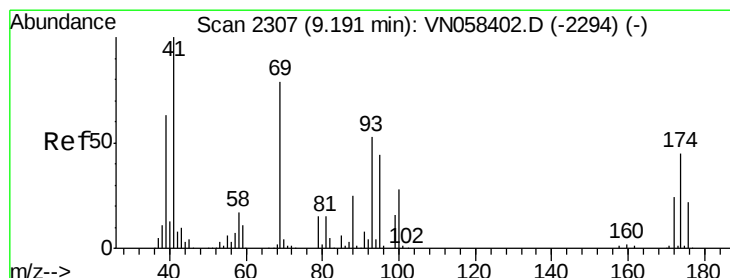
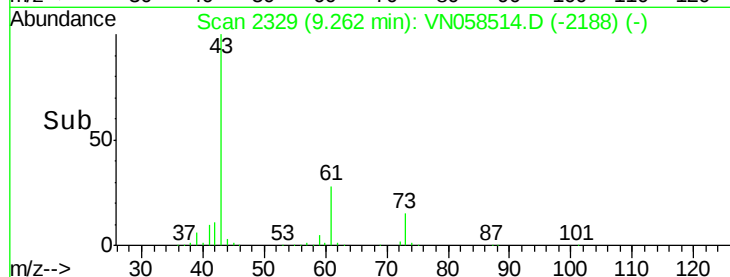
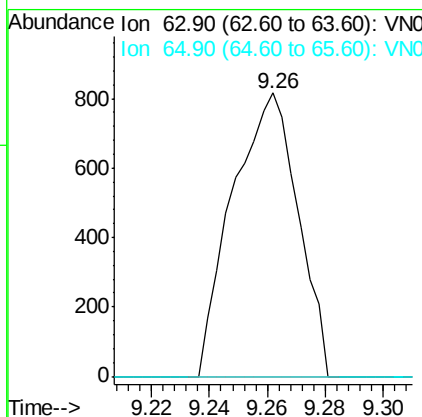
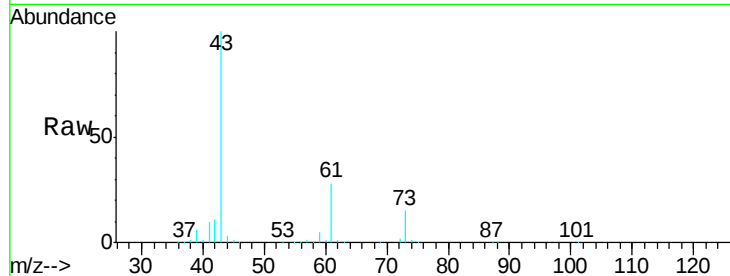




#45
 1,2-Dichloropropane
 Concen: 0.272 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN058514.D
 Acq: 3 Oct 2019 16:50

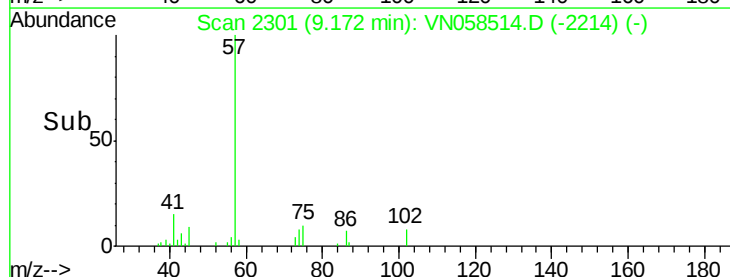
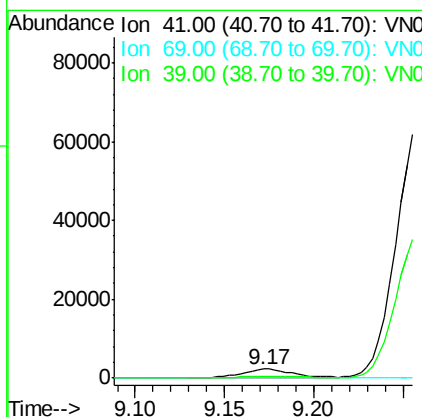
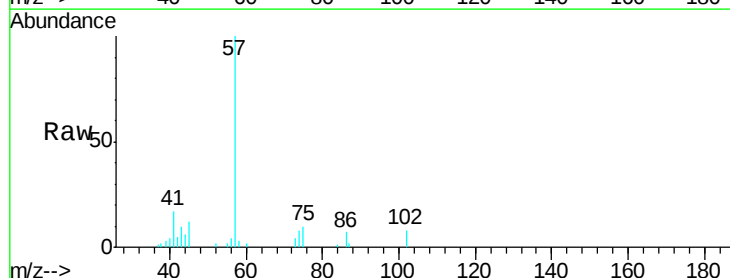
Instrument :
 MSVOA_N
 ClientSampleId :
 EAST-ACCESS-SP

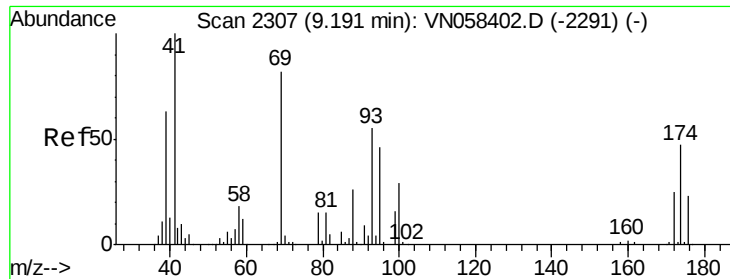
Tgt Ion: 63 Resp: 1281
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.062 ug/l
 RT: 9.17 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: VN058514.D
 Acq: 3 Oct 2019 16:50

Tgt Ion: 41 Resp: 4712
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.7 97.1#
 39 0.0 52.9 79.3#





#49

1,4-Dioxane

Concen: 1.248 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

Instrument :
MSVOA_N
ClientSampleId :
EAST-ACCESS-SP

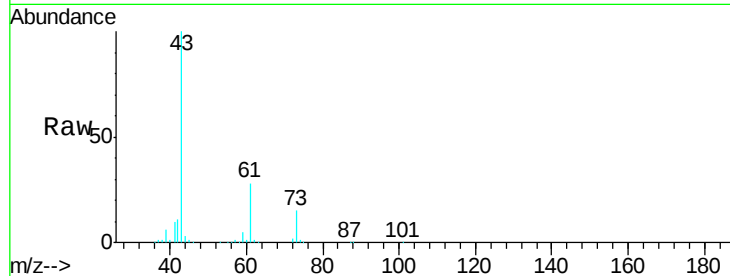
Tgt Ion: 88 Resp: 74

Ion Ratio Lower Upper

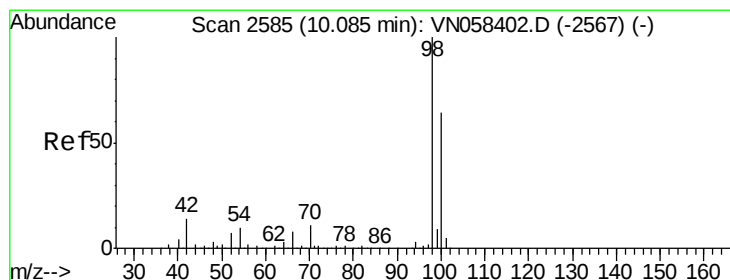
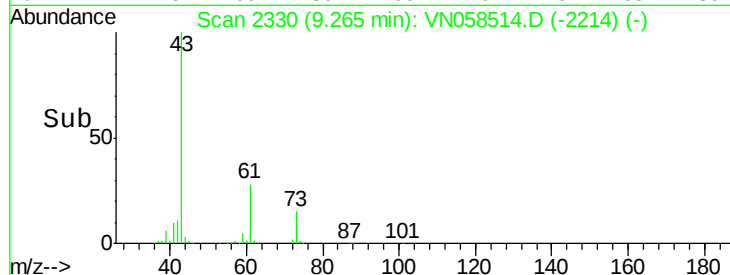
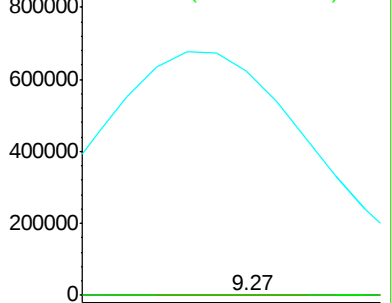
88 100

43 1719468.9 31.1 46.7#

58 7629.7 58.1 87.1#



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: 52.164 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058514.D

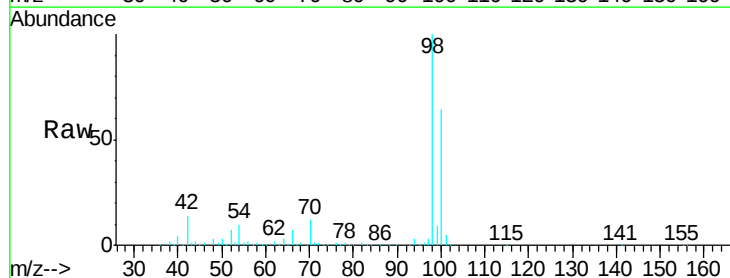
Acq: 3 Oct 2019 16:50

Tgt Ion: 98 Resp: 800407

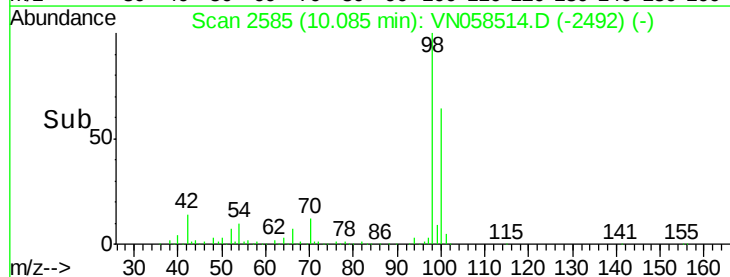
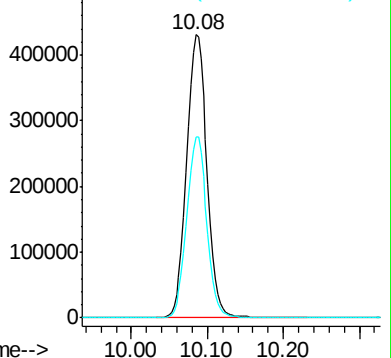
Ion Ratio Lower Upper

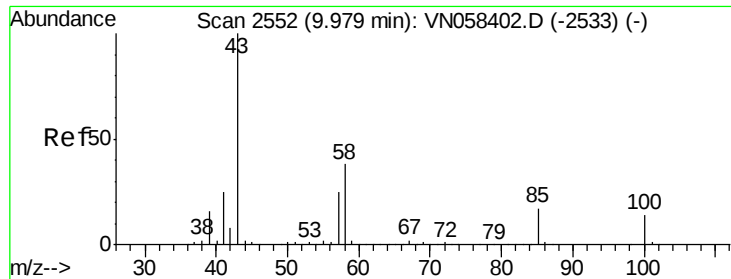
98 100

100 63.3 51.0 76.6



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: 1.068 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

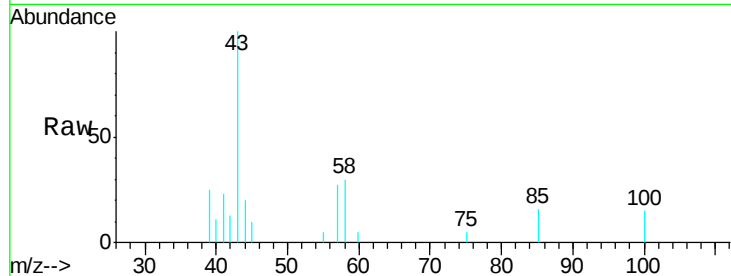
EAST-ACCESS-SP

Tgt Ion: 43 Resp: 5343

Ion Ratio Lower Upper

43 100

58 37.5 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN058402.D (-2533) (-)

9.98

3000

2000

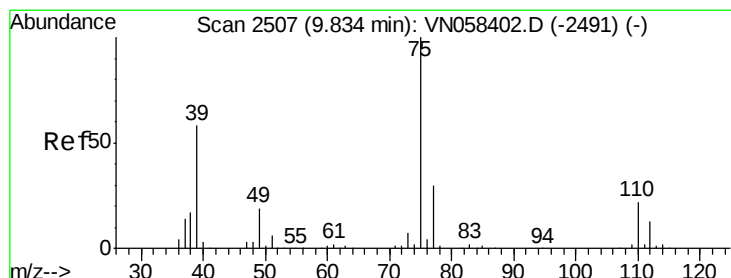
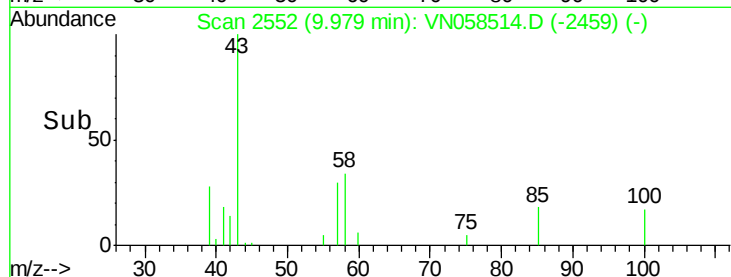
1000

0

9.95

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.751 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

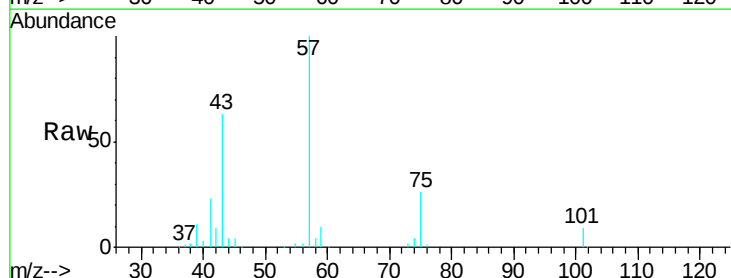
Tgt Ion: 75 Resp: 32443

Ion Ratio Lower Upper

75 100

77 0.0 24.2 36.4#

39 41.3 46.4 69.6#



Abundance Ion 74.90 (74.60 to 75.60): VN058402.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN058402.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN058402.D (-2491) (-)

9.90

20000

15000

10000

5000

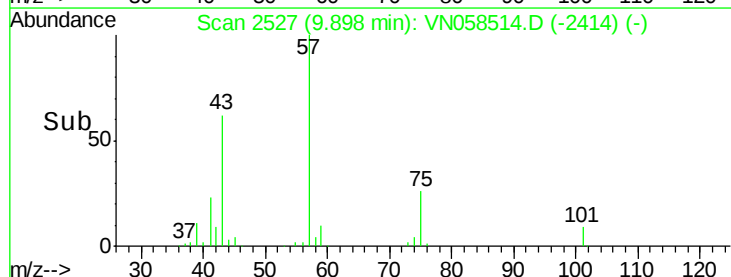
0

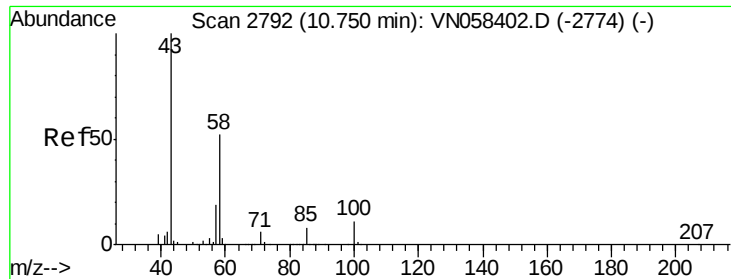
9.85

9.90

9.95

Time-->

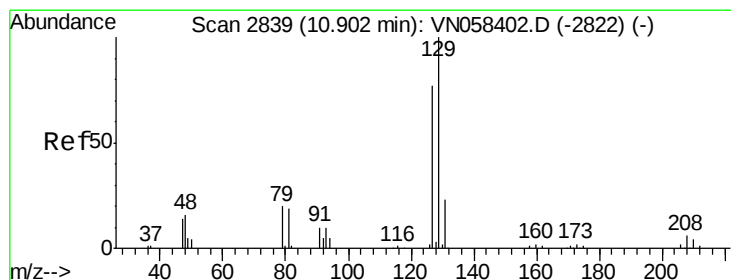
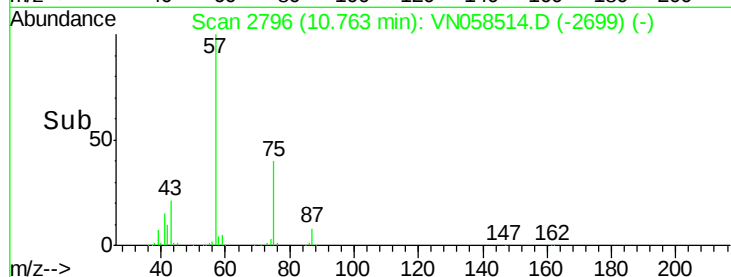
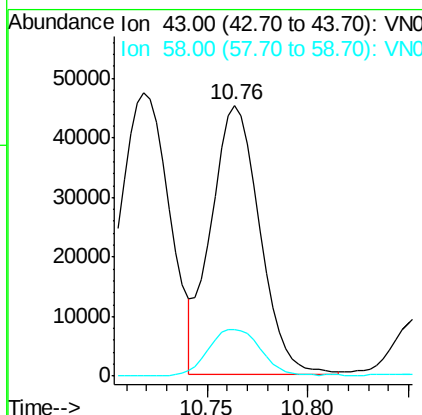
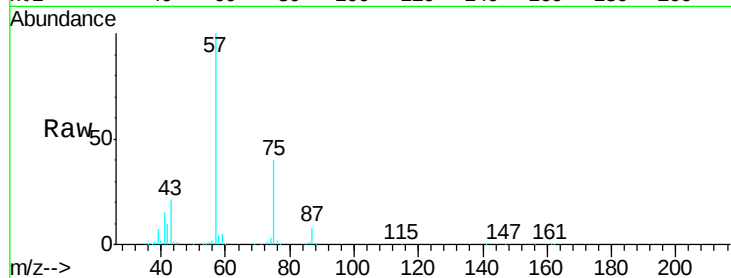




#59
2-Hexanone
Concen: 20.804 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058514.D
Acq: 3 Oct 2019 16:50

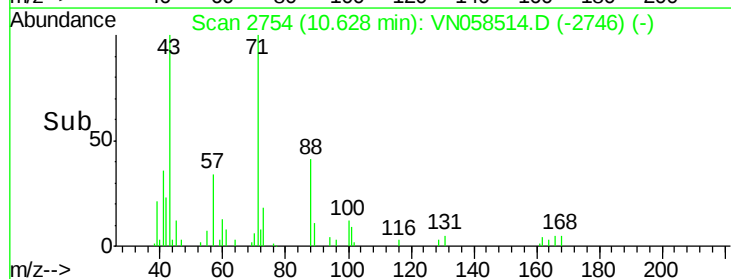
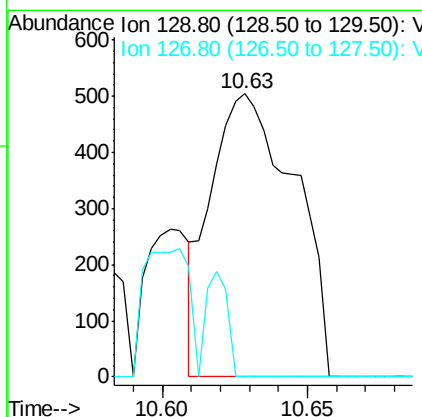
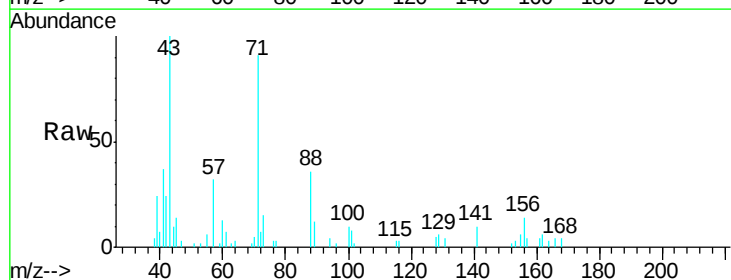
Instrument :
MSVOA_N
ClientSampleId :
EAST-ACCESS-SP

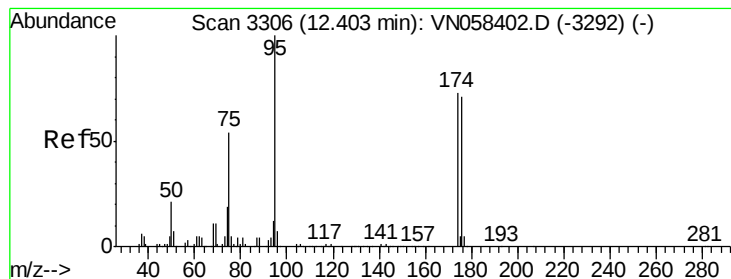
Tgt Ion: 43 Resp: 75810
Ion Ratio Lower Upper
43 100
58 18.9 25.8 77.3#



#60
Dibromochloromethane
Concen: Below Cal
RT: 10.63 min Scan# 2754
Delta R.T. -0.27 min
Lab File: VN058514.D
Acq: 3 Oct 2019 16:50

Tgt Ion: 129 Resp: 1012
Ion Ratio Lower Upper
129 100
127 9.6 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 46.549 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

EAST-ACCESS-SP

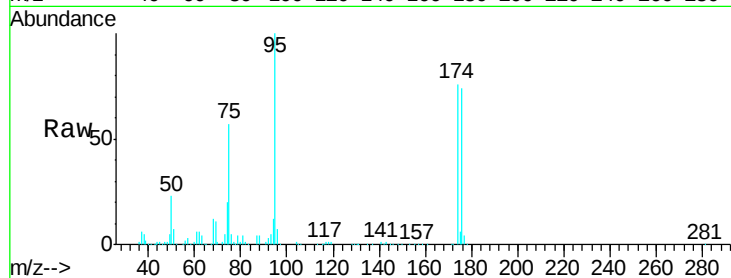
Tgt Ion: 95 Resp: 258255

Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.6

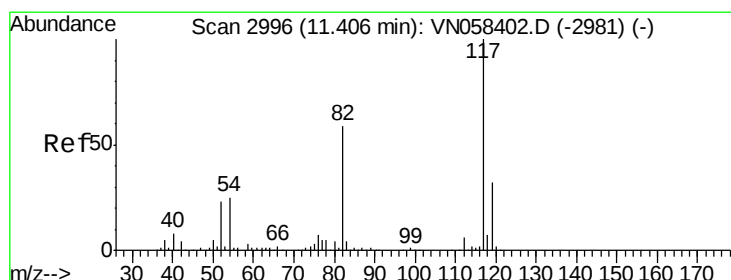
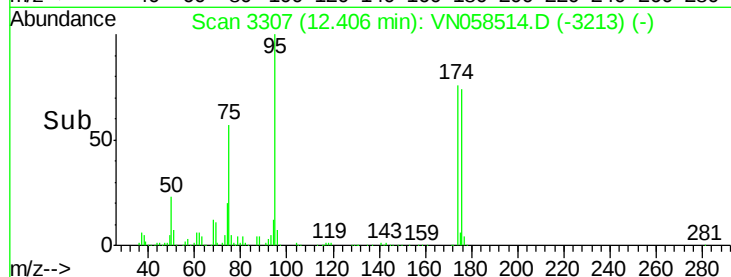
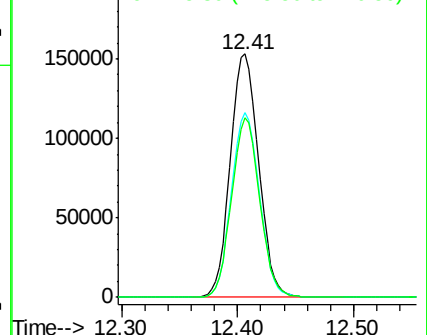
176 73.1 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

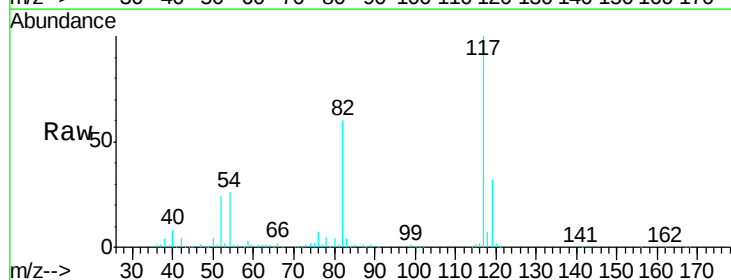
Tgt Ion: 117 Resp: 560390

Ion Ratio Lower Upper

117 100

82 59.9 47.4 71.0

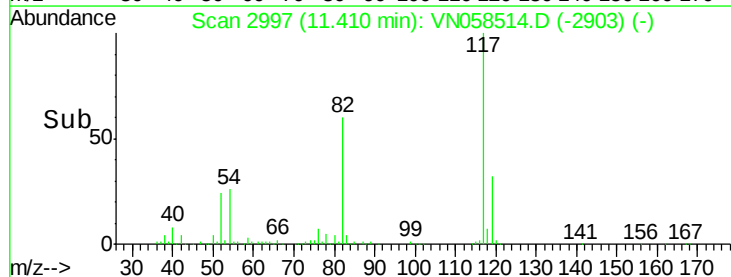
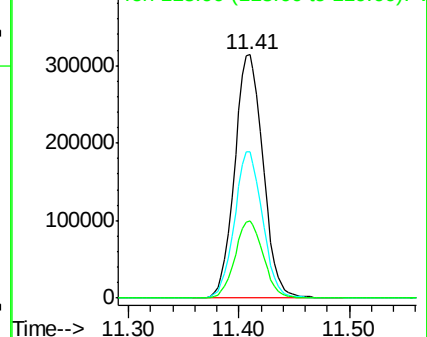
119 31.9 25.5 38.3

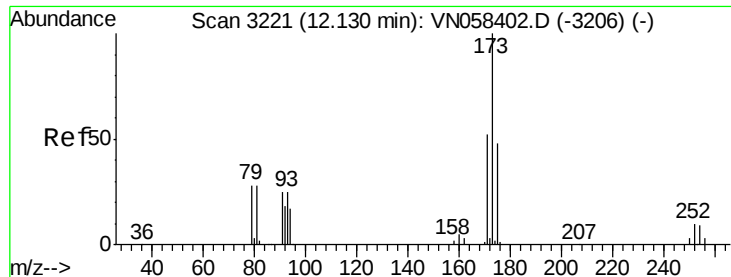


Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)





#71

Bromoform

Concen: 0.709 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

EAST-ACCESS-SP

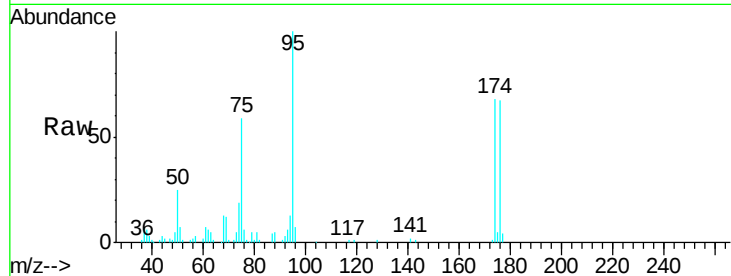
Tgt Ion:173 Resp: 38

Ion Ratio Lower Upper

173 100

175 31731.6 24.3 73.0#

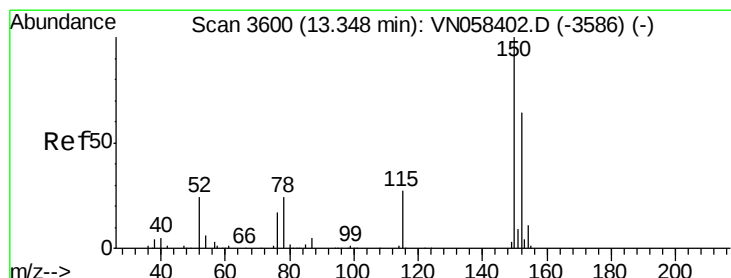
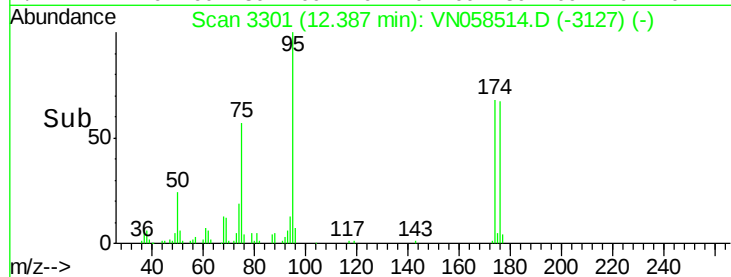
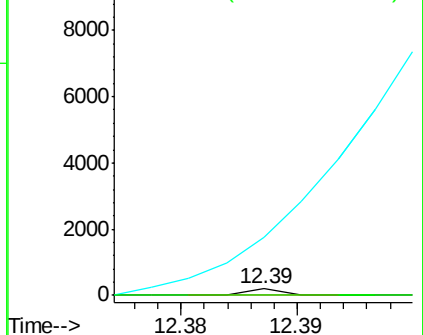
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

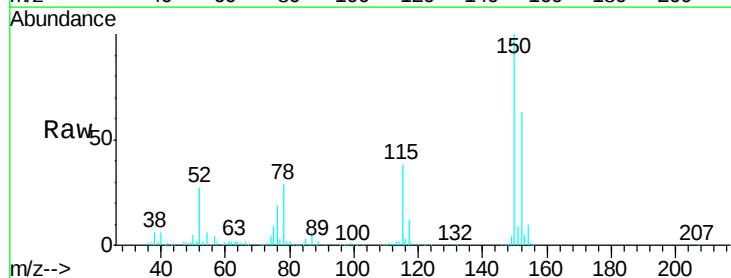
Tgt Ion:152 Resp: 226893

Ion Ratio Lower Upper

152 100

115 61.0 30.0 90.0

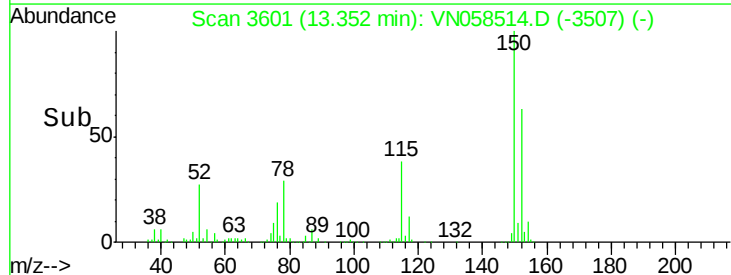
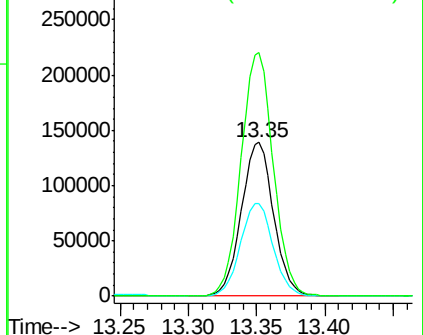
150 159.9 0.0 348.2

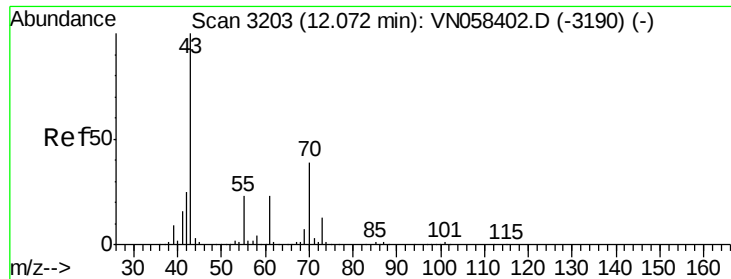


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

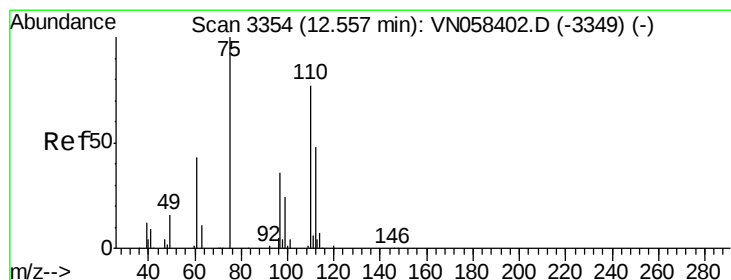
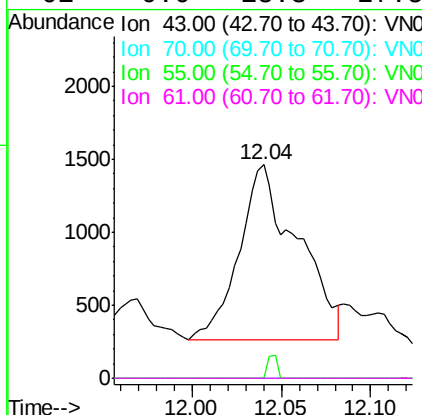
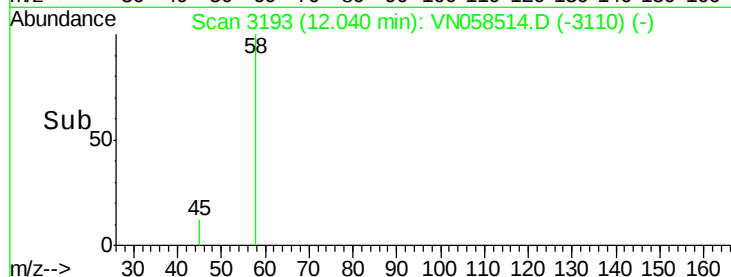
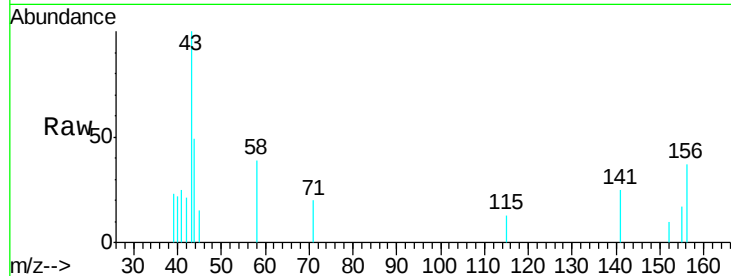




#74
N-ethyl acetate
Concen: 0.411 ug/l
RT: 12.04 min Scan# 3193
Delta R.T. -0.03 min
Lab File: VN058514.D
Acq: 3 Oct 2019 16:50

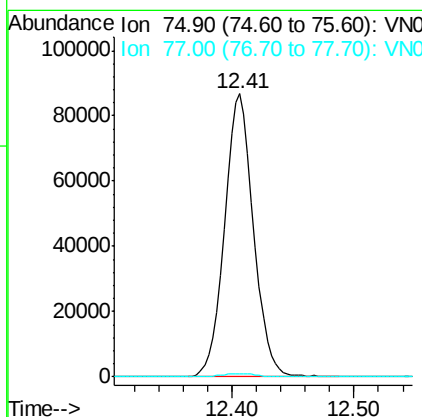
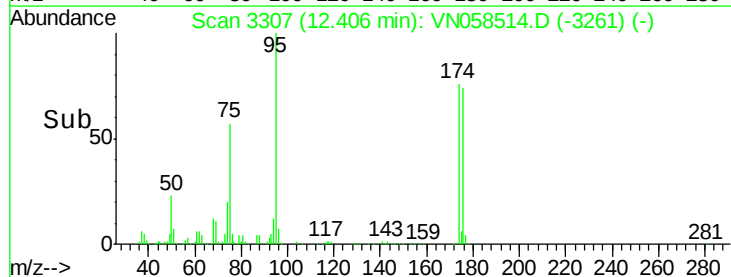
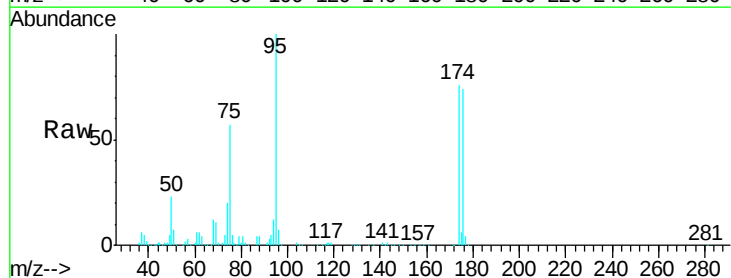
Instrument :
MSVOA_N
ClientSampleId :
EAST-ACCESS-SP

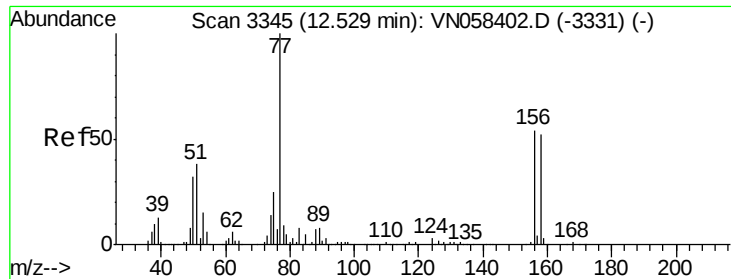
Tgt Ion: 43 Resp: 2740
Ion Ratio Lower Upper
43 100
70 0.0 31.4 47.2#
55 2.2 18.2 27.4#
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 34.661 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. -0.15 min
Lab File: VN058514.D
Acq: 3 Oct 2019 16:50

Tgt Ion: 75 Resp: 143642
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#77

Bromobenzene

Concen: 0.397 ug/l

RT: 12.54 min Scan# 3347

Delta R.T. 0.01 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

EAST-ACCESS-SP

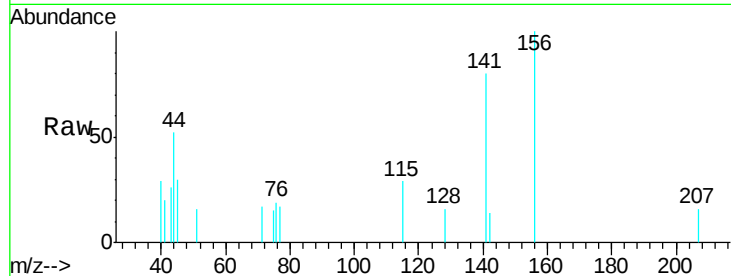
Tgt Ion:156 Resp: 1559

Ion Ratio Lower Upper

156 100

77 3.9 110.0 330.0#

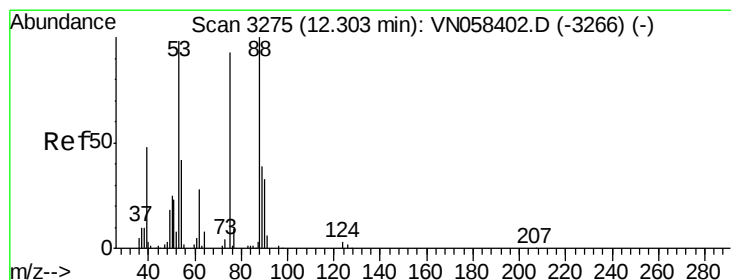
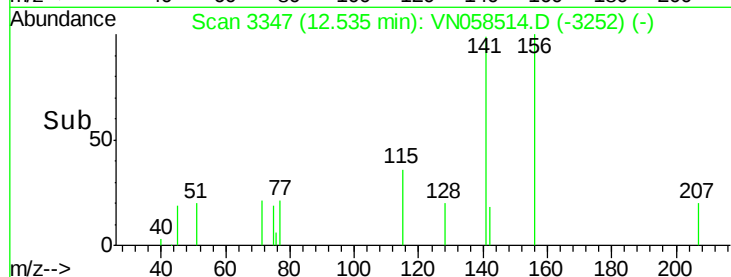
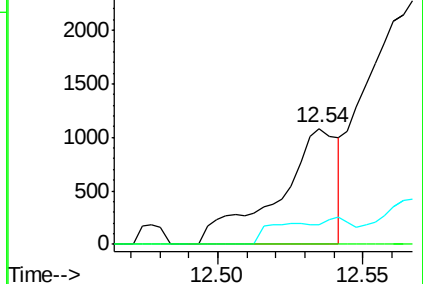
158 0.0 47.9 143.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 105.269 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058514.D

Acq: 3 Oct 2019 16:50

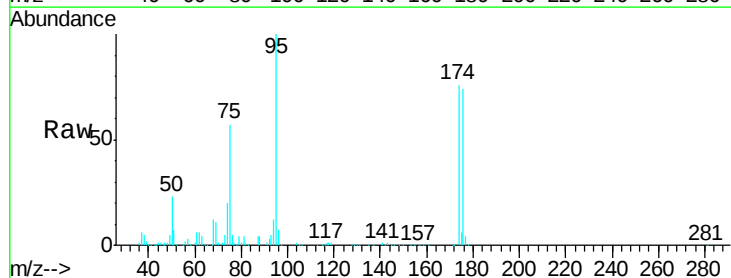
Tgt Ion: 75 Resp: 143642

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

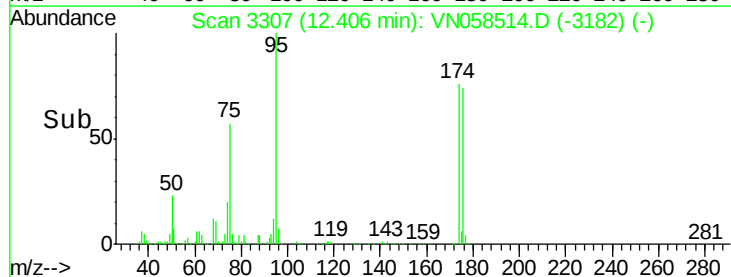
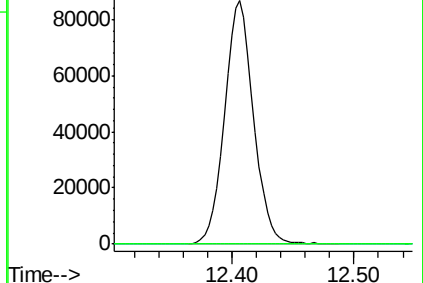
89 0.0 35.0 52.4#

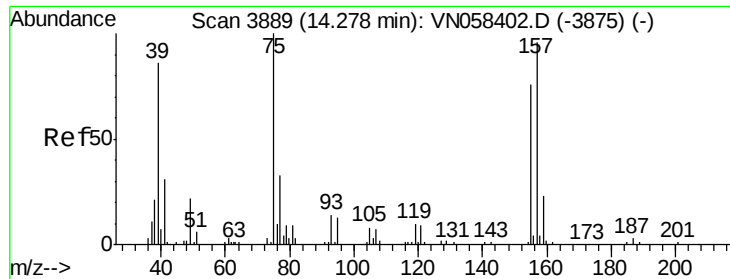


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

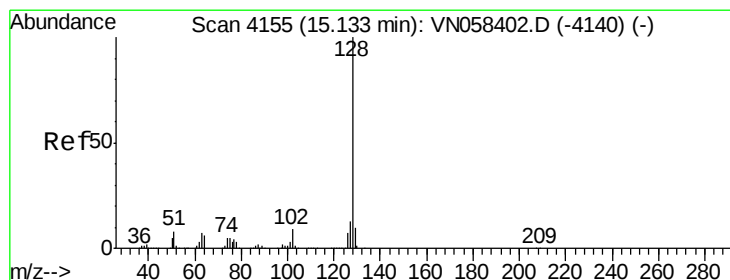
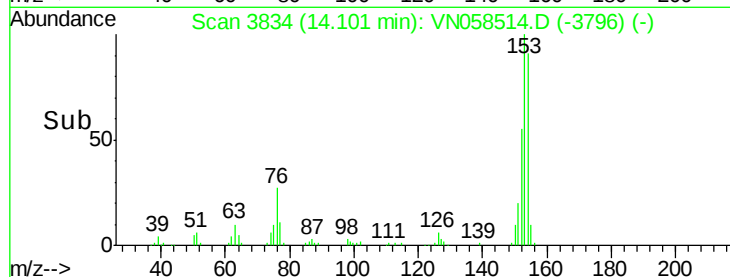
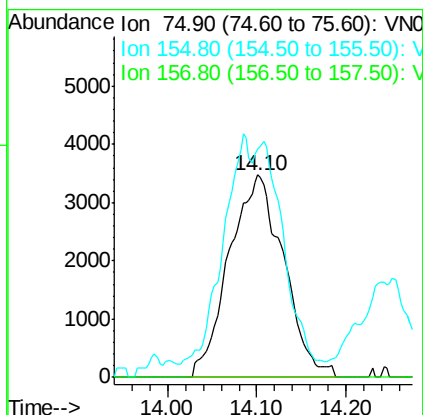
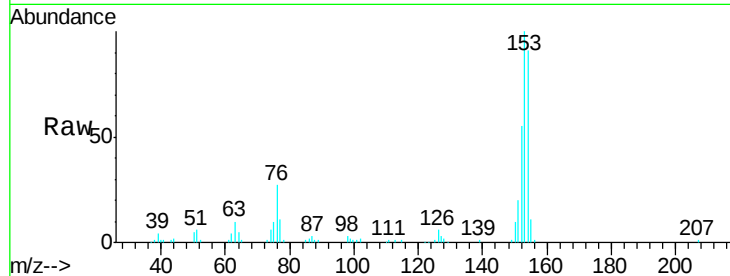




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.874 ug/l
 RT: 14.10 min Scan# 3834
 Delta R.T. -0.18 min
 Lab File: VN058514.D
 Acq: 3 Oct 2019 16:50

Instrument :
 MSVOA_N
 ClientSampleId :
 EAST-ACCESS-SP

Tgt Ion: 75 Resp: 14754
 Ion Ratio Lower Upper
 75 100
 155 57.5 39.2 117.6
 157 0.0 48.7 146.1#



#95
 Naphthalene
 Concen: 17.642 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN058514.D
 Acq: 3 Oct 2019 16:50

Tgt Ion: 128 Resp: 195772
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.2 15.4
 129 11.3 8.3 12.5

