

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057150.D
 Acq On : 9 Aug 2019 16:38
 Operator : JC/SP
 Sample : K4262-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-19D_080819

Quant Time: Aug 10 02:13:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1369616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1912944	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1561749	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	375179	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	629585	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	
35) Dibromofluoromethane	6.99	113	568415	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
50) Toluene-d8	9.56	98	2206681	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
62) 4-Bromofluorobenzene	11.92	95	567831	38.37	ug/l	0.00
Spiked Amount			Recovery	=	76.74%	

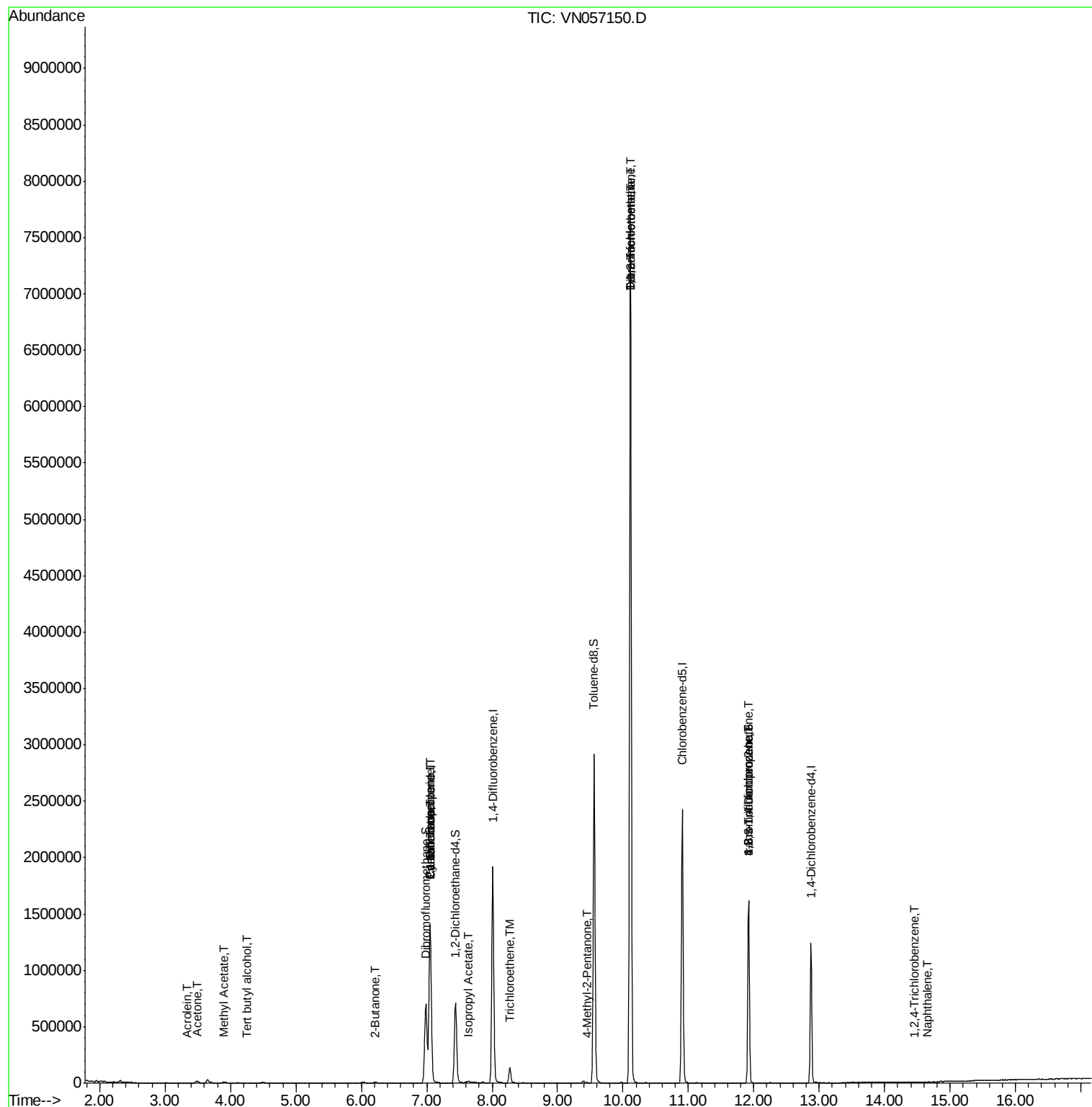
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.24	59	722	0.360	ug/l #	73
13) Acrolein	3.34	56	269	0.212	ug/l #	42
16) Acetone	3.48	43	24209	5.691	ug/l	95
18) Methyl Acetate	3.90	43	16311	0.638	ug/l	99
25) 2-Butanone	6.21	43	5847	0.900	ug/l #	83
31) Cyclohexane	7.05	56	19042	0.932	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	84353	5.356	ug/l #	48
38) Carbon Tetrachloride	7.05	117	117447	7.155	ug/l #	16
43) Isopropyl Acetate	7.63	43	9241	0.417	ug/l #	51
44) Trichloroethene	8.27	130	58232	4.169	ug/l	97
51) 4-Methyl-2-Pentanone	9.45	43	2627	0.204	ug/l	96
55) 1,1,2-Trichloroethane	10.11	97	15270	1.255	ug/l #	1
60) Dibromochloromethane	10.11	129	1694702	132.584	ug/l #	11
64) Tetrachloroethene	10.11	164	2046365	157.556	ug/l	96
73) Isopropylbenzene	11.77	105	62	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	11.93	83	151	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	263075	35.039	ug/l #	100
79) 2-Chlorotoluene	12.19	91	160	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	11.92	75	263075	103.101	ug/l #	14
83) tert-Butylbenzene	12.52	119	332	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.46	180	135	5.952	ug/l #	12
95) Naphthalene	14.66	128	172	2.820	ug/l #	69

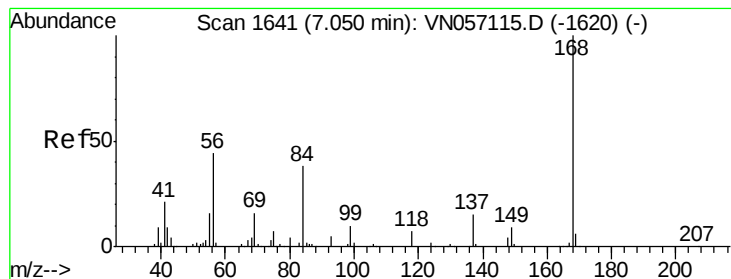
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
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QLast Update : Thu Aug 08 06:49:25 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

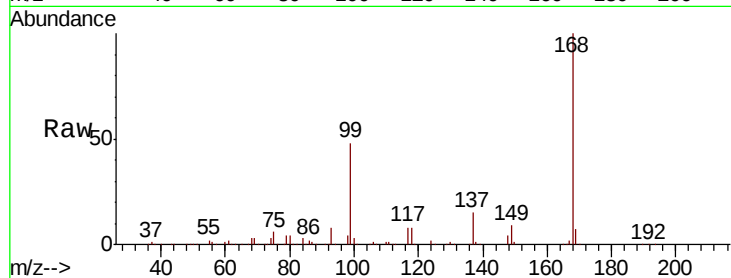
MW-19D_080819

Tgt Ion:168 Resp: 1369616

Ion Ratio Lower Upper

168 100

99 48.5 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.05

600000

500000

400000

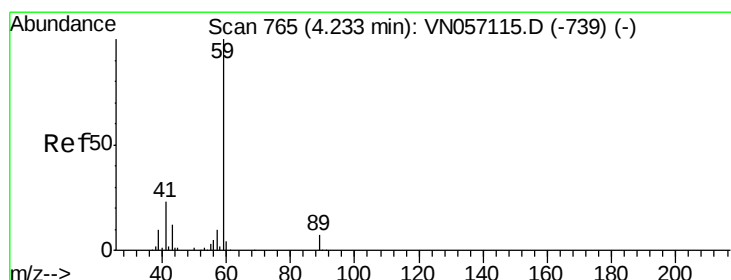
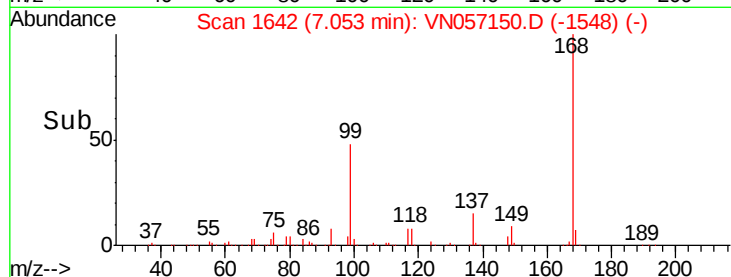
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 0.360 ug/l

RT: 4.24 min Scan# 768

Delta R.T. 0.01 min

Lab File: VN057150.D

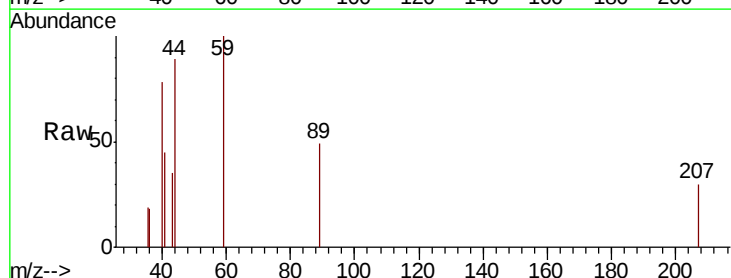
Acq: 9 Aug 2019 16:38

Tgt Ion: 59 Resp: 722

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.24

1000

800

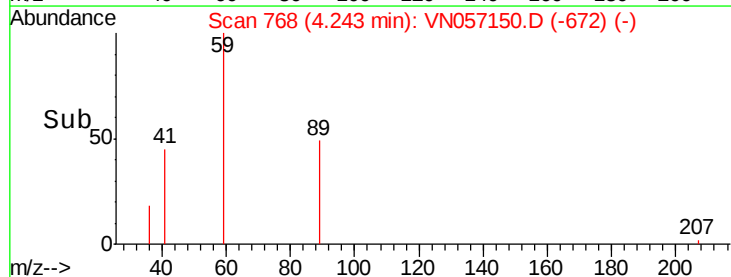
600

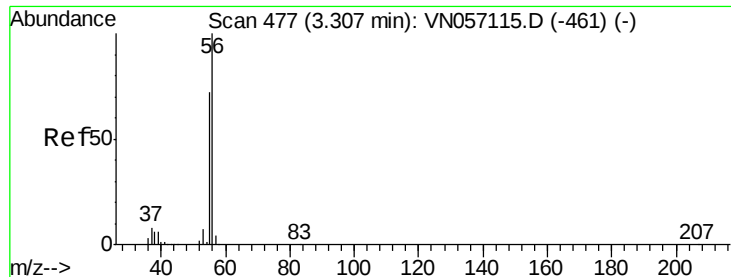
400

200

0

Time--> 4.22 4.23 4.24 4.25 4.26





#13

Acrolein

Concen: 0.212 ug/l

RT: 3.34 min Scan# 487

Delta R.T. 0.03 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

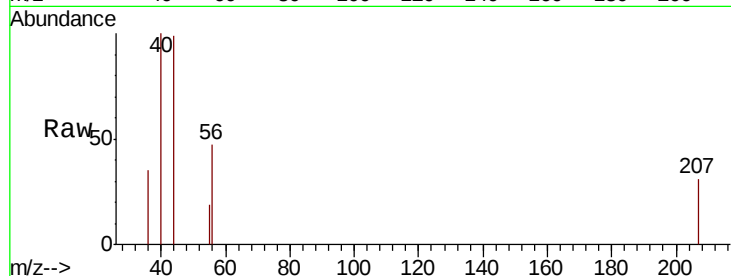
MW-19D_080819

Tgt Ion: 56 Resp: 269

Ion Ratio Lower Upper

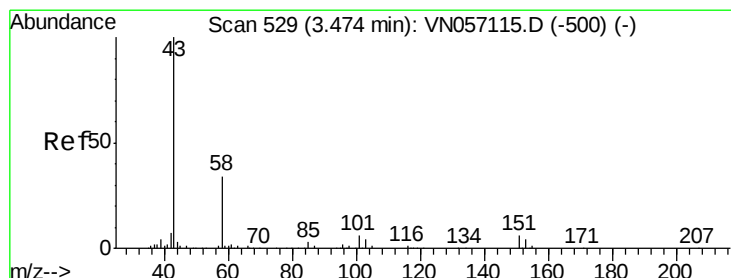
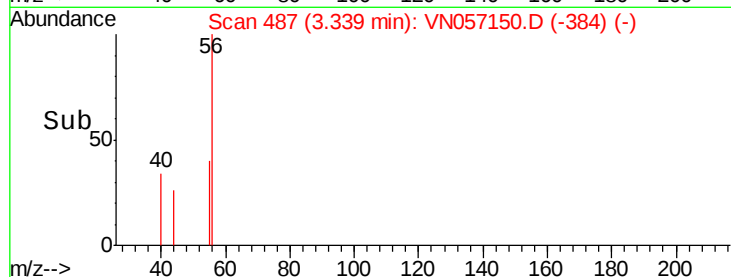
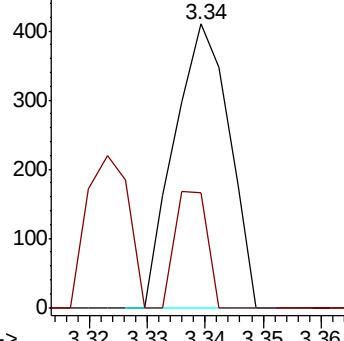
56 100

55 23.8 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 5.691 ug/l

RT: 3.48 min Scan# 531

Delta R.T. 0.01 min

Lab File: VN057150.D

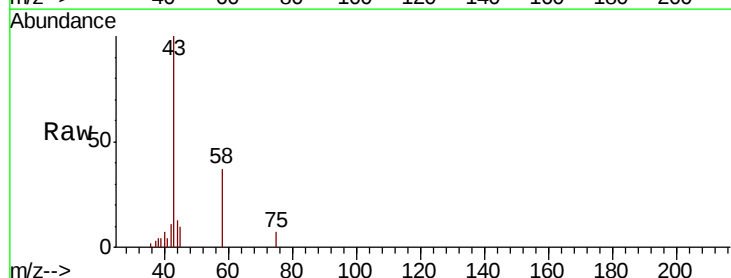
Acq: 9 Aug 2019 16:38

Tgt Ion: 43 Resp: 24209

Ion Ratio Lower Upper

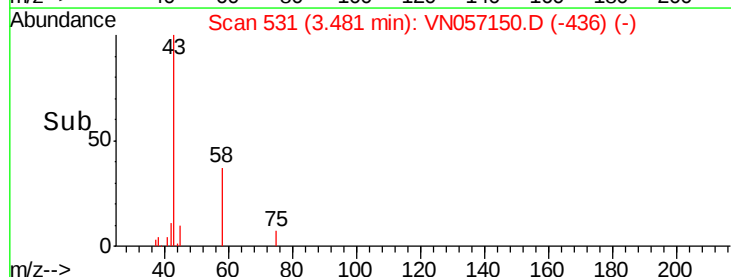
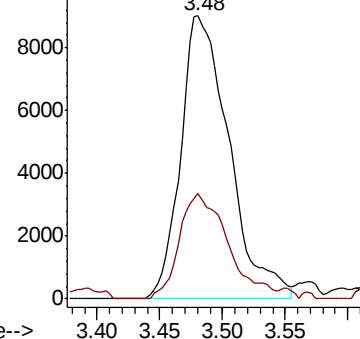
43 100

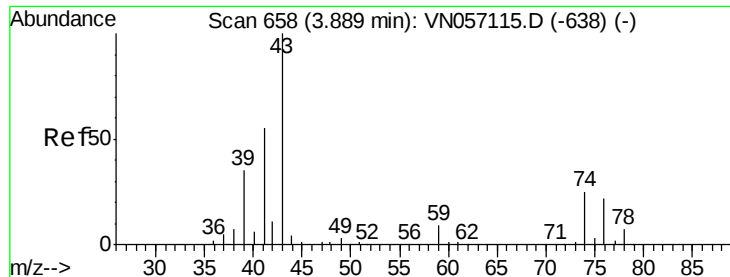
58 37.1 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

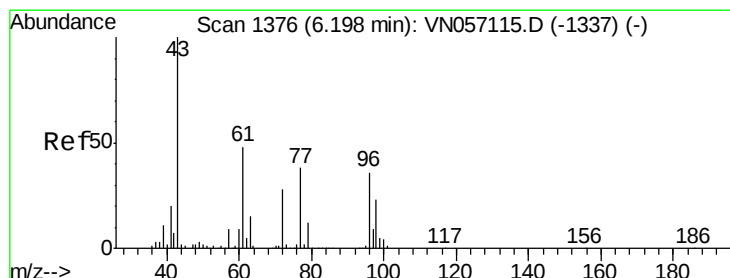
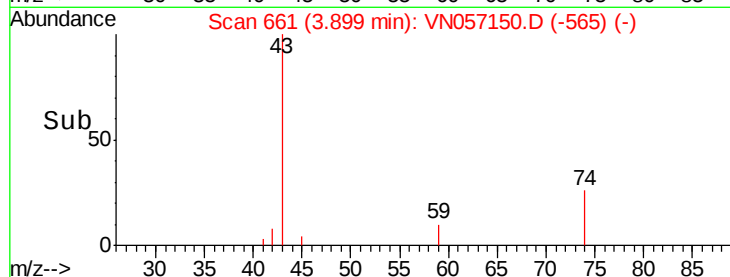
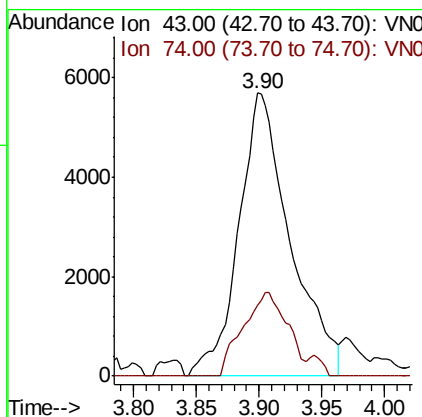
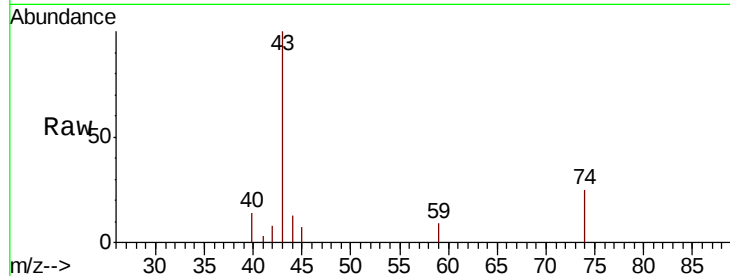




#18
Methyl Acetate
Concen: 0.638 ug/l
RT: 3.90 min Scan# 661
Delta R.T. 0.01 min
Lab File: VN057150.D
Acq: 9 Aug 2019 16:38

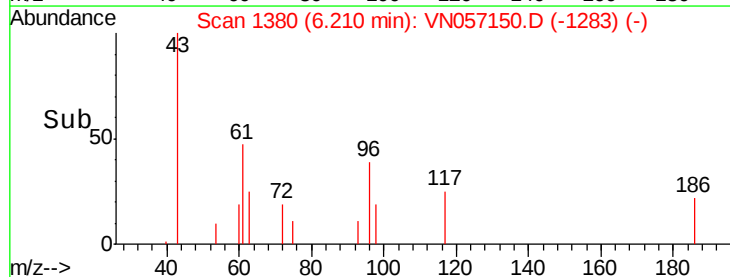
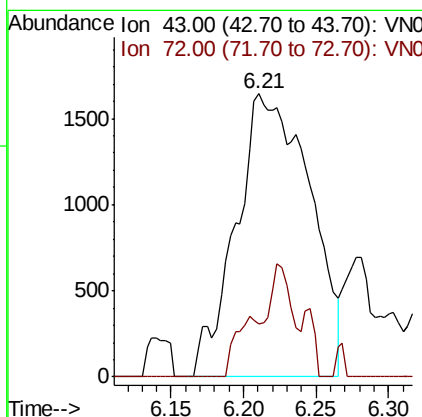
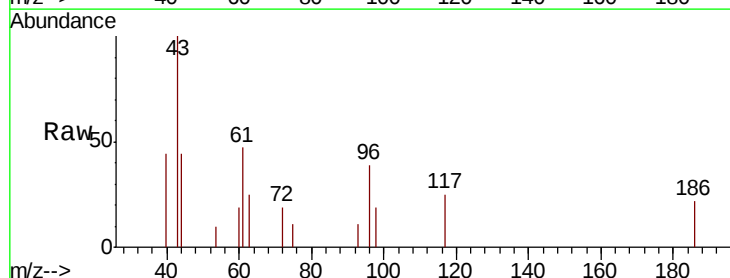
Instrument :
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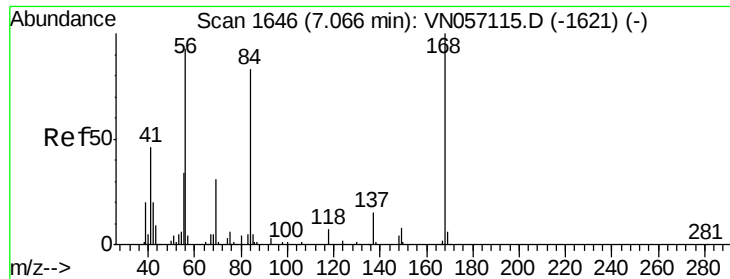
Tgt Ion: 43 Resp: 16311
Ion Ratio Lower Upper
43 100
74 25.6 20.2 30.4



#25
2-Butanone
Concen: 0.900 ug/l
RT: 6.21 min Scan# 1380
Delta R.T. 0.01 min
Lab File: VN057150.D
Acq: 9 Aug 2019 16:38

Tgt Ion: 43 Resp: 5847
Ion Ratio Lower Upper
43 100
72 18.9 22.2 33.4#

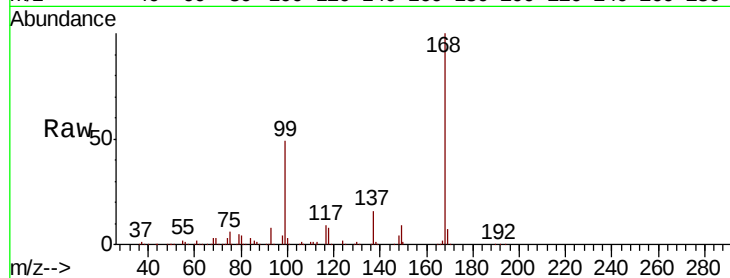




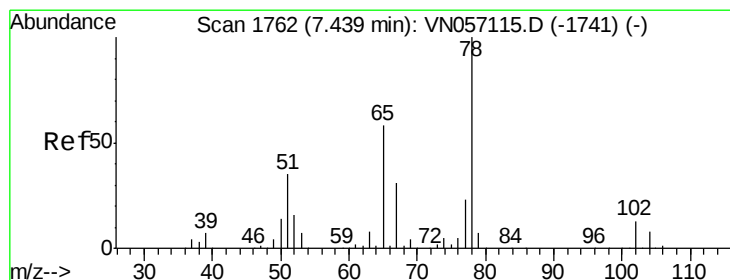
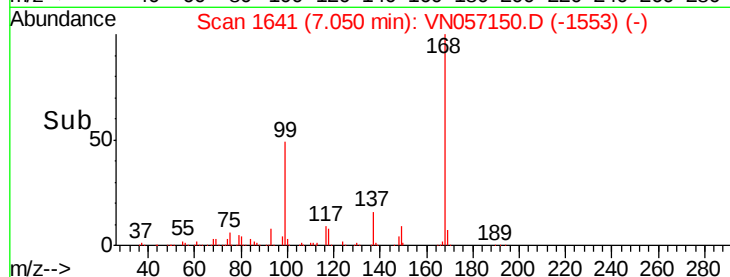
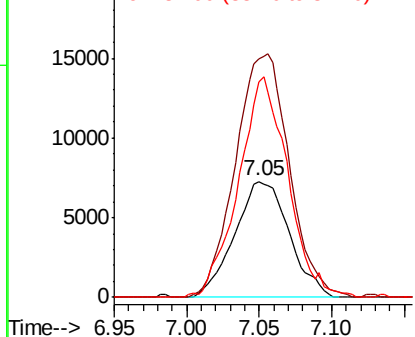
#31
Cyclohexane
Concen: 0.932 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.02 min
Lab File: VN057150.D
Acq: 9 Aug 2019 16:38

Instrument :
MSVOA_N
ClientSampleId :
MW-19D_080819

Tgt Ion: 56 Resp: 19042
Ion Ratio Lower Upper
56 100
69 205.6 26.9 40.3#
84 183.8 71.9 107.9#

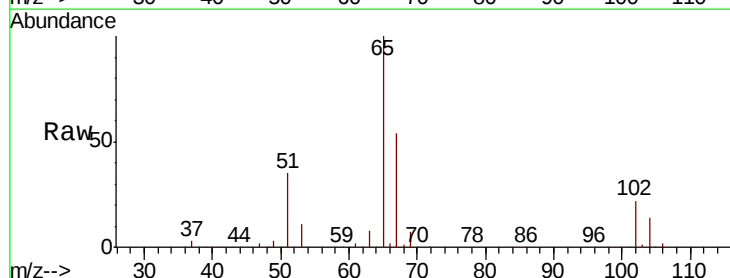


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

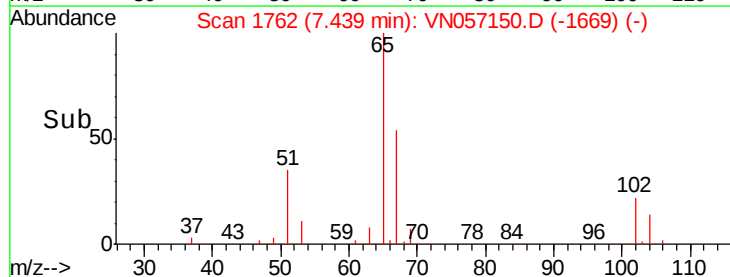
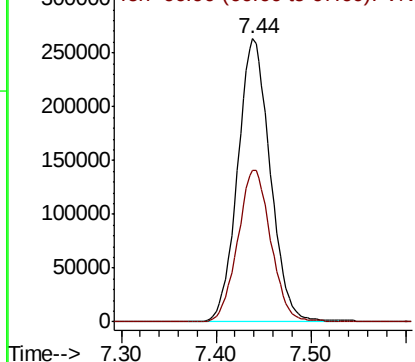


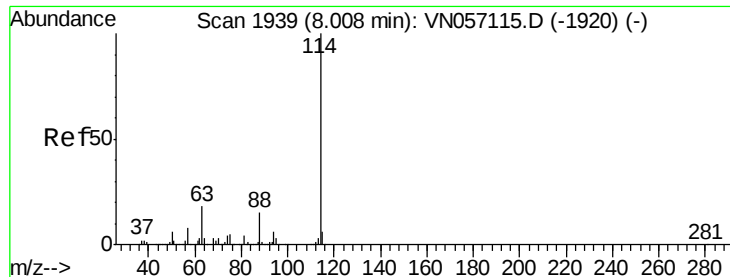
#33
1,2-Dichloroethane-d4
Concen: 44.697 ug/l
RT: 7.44 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VN057150.D
Acq: 9 Aug 2019 16:38

Tgt Ion: 65 Resp: 629585
Ion Ratio Lower Upper
65 100
67 54.5 0.0 108.2



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: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819

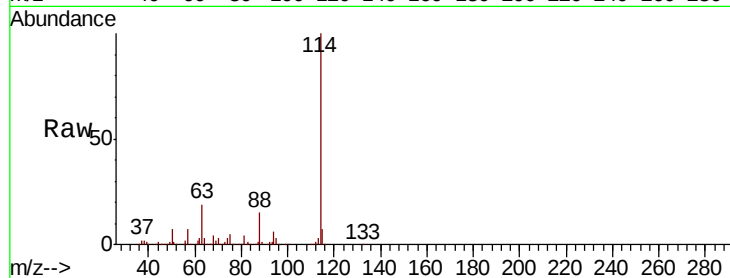
Tgt Ion:114 Resp: 1912944

Ion Ratio Lower Upper

114 100

63 18.9 0.0 36.2

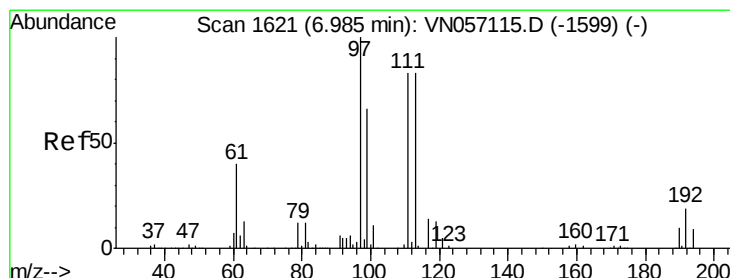
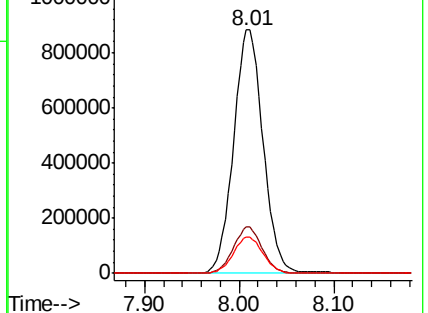
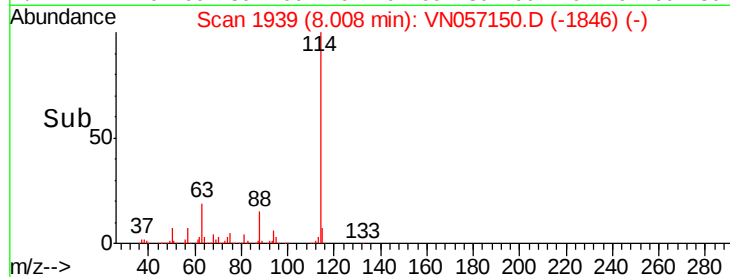
88 15.0 0.0 30.0



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: 47.352 ug/l

RT: 6.99 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

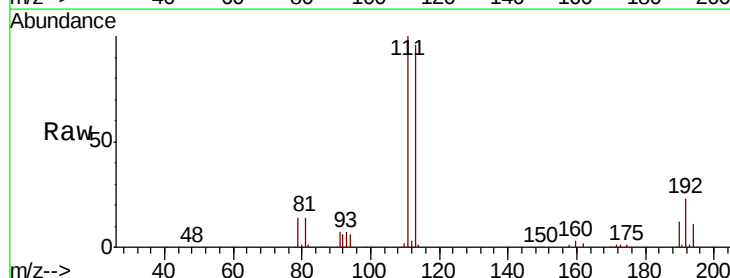
Tgt Ion:113 Resp: 568415

Ion Ratio Lower Upper

113 100

111 103.6 81.3 121.9

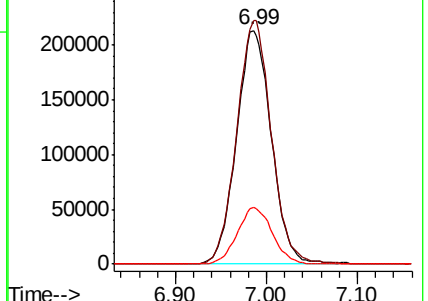
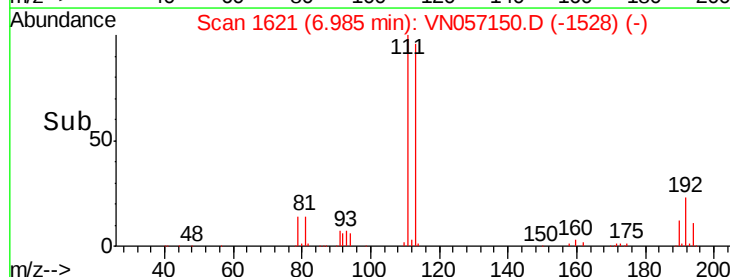
192 24.4 19.0 28.4

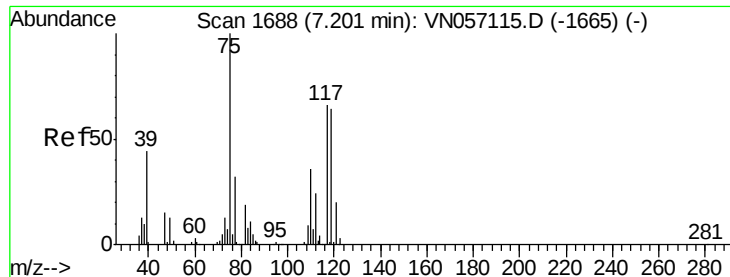


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

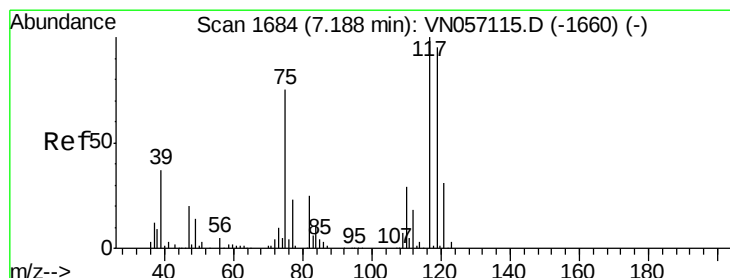
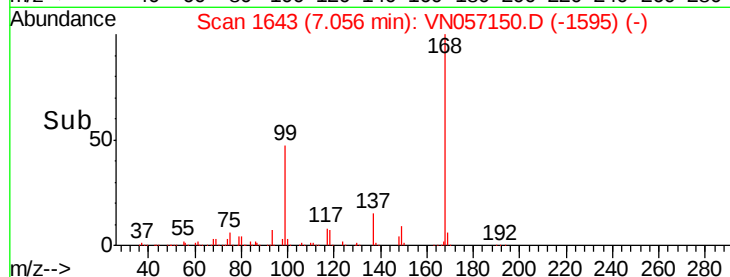
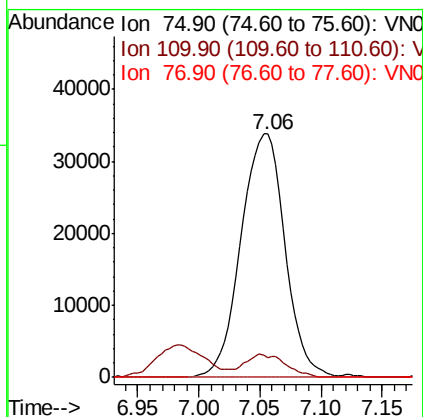
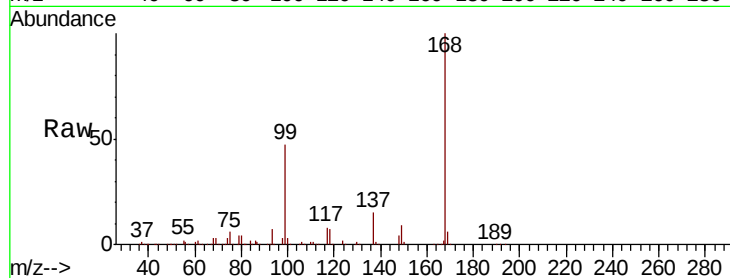




#36
 1,1-Dichloropropene
 Concen: 5.356 ug/l
 RT: 7.06 min Scan# 1643
 Delta R.T. -0.14 min
 Lab File: VN057150.D
 Acq: 9 Aug 2019 16:38

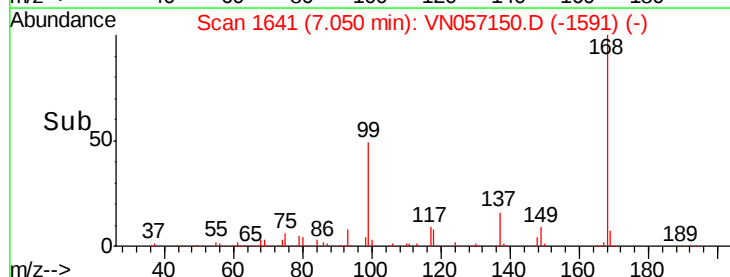
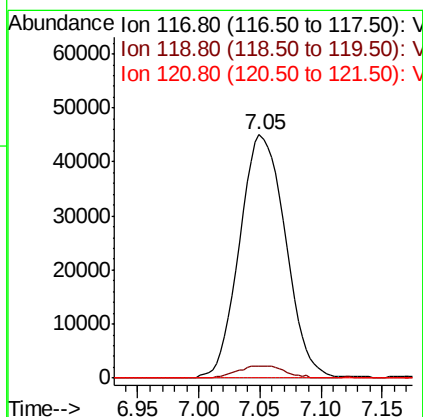
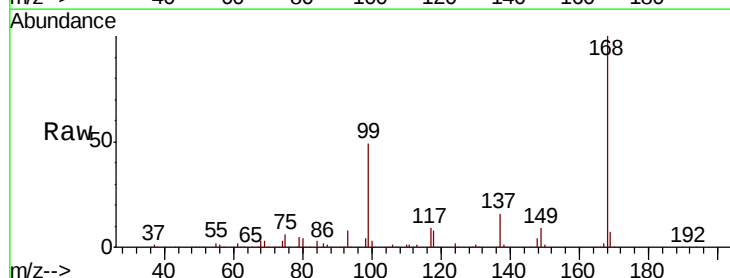
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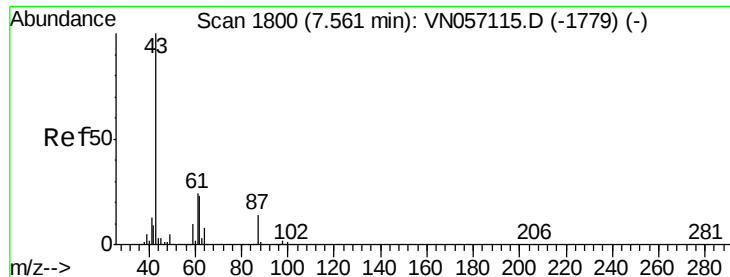
Tgt Ion: 75 Resp: 84353
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.7 56.1#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 7.155 ug/l
 RT: 7.05 min Scan# 1641
 Delta R.T. -0.14 min
 Lab File: VN057150.D
 Acq: 9 Aug 2019 16:38

Tgt Ion: 117 Resp: 117447
 Ion Ratio Lower Upper
 117 100
 119 4.9 75.8 113.6#
 121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 0.417 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.06 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819

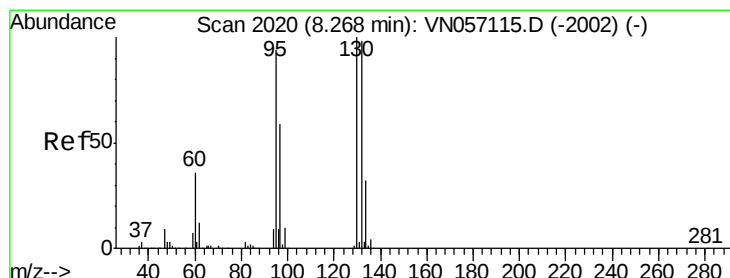
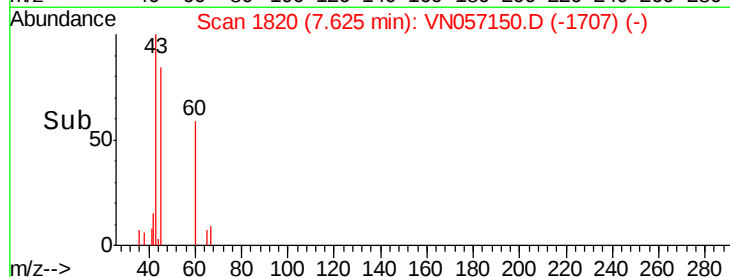
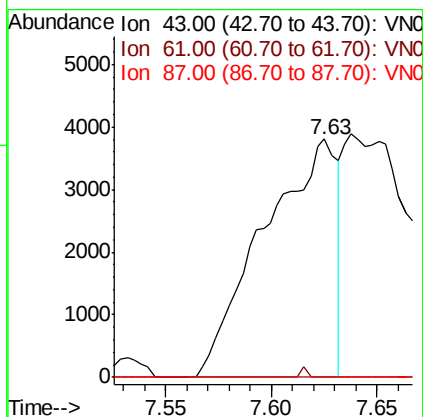
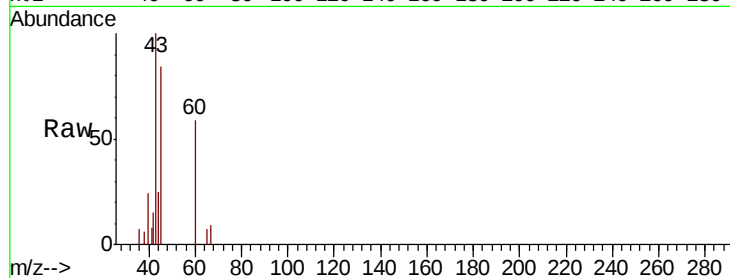
Tgt Ion: 43 Resp: 9241

Ion Ratio Lower Upper

43 100

61 0.0 24.2 36.2#

87 0.0 11.8 17.8#



#44

Trichloroethene

Concen: 4.169 ug/l

RT: 8.27 min Scan# 2021

Delta R.T. 0.00 min

Lab File: VN057150.D

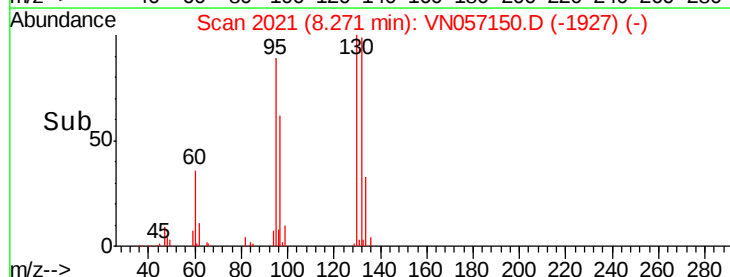
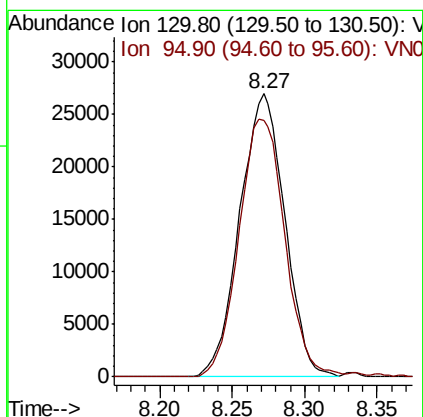
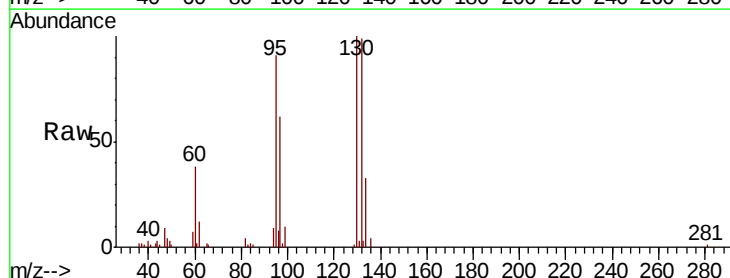
Acq: 9 Aug 2019 16:38

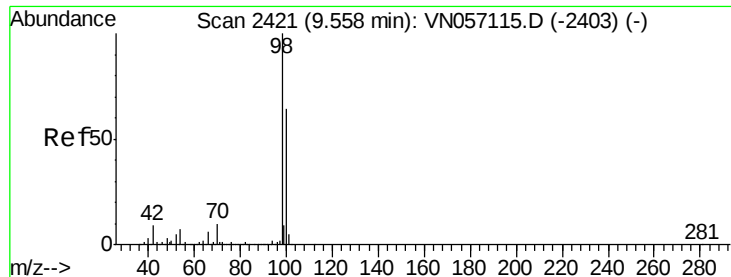
Tgt Ion: 130 Resp: 58232

Ion Ratio Lower Upper

130 100

95 90.7 0.0 187.4

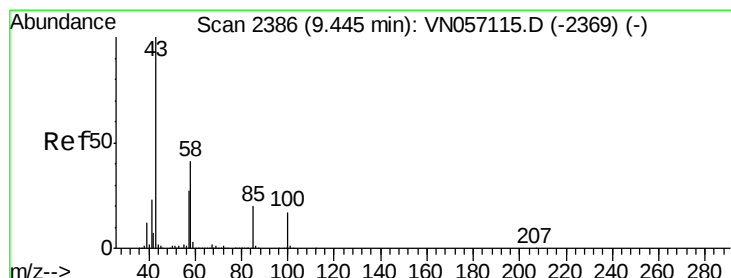
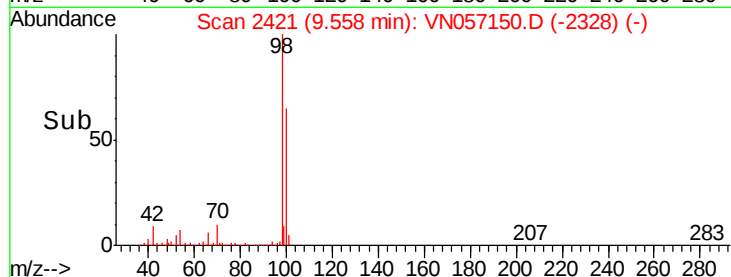
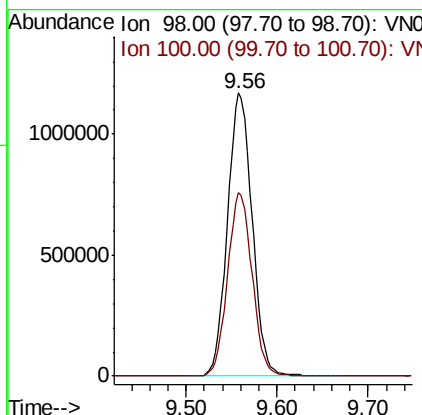
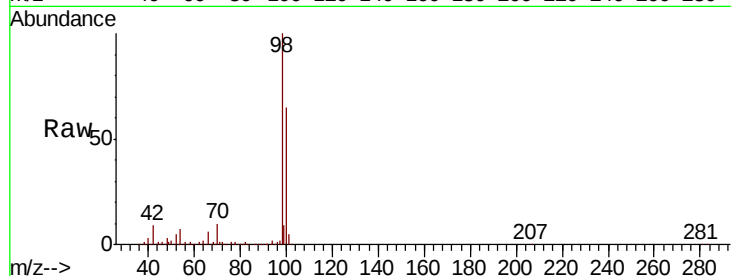




#50
Toluene-d8
Concen: 48.049 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. -0.00 min
Lab File: VN057150.D
Acq: 9 Aug 2019 16:38

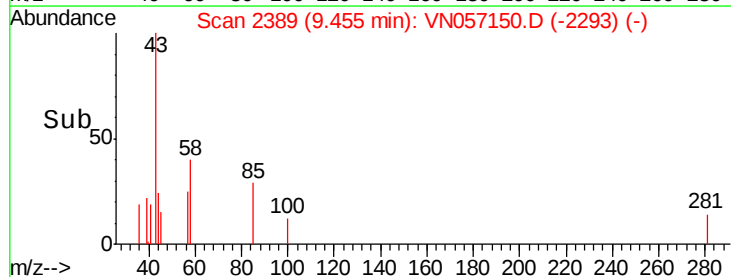
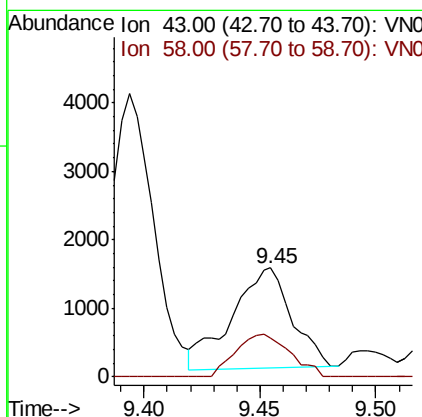
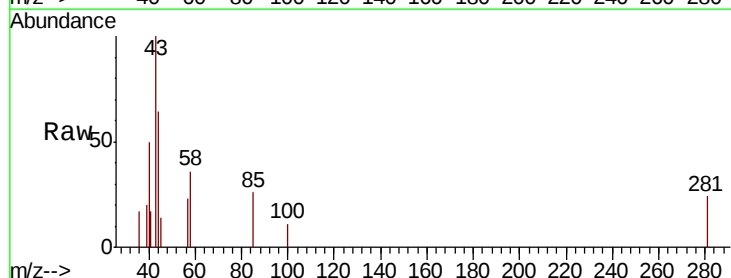
Instrument :
MSVOA_N
ClientSampleId :
MW-19D_080819

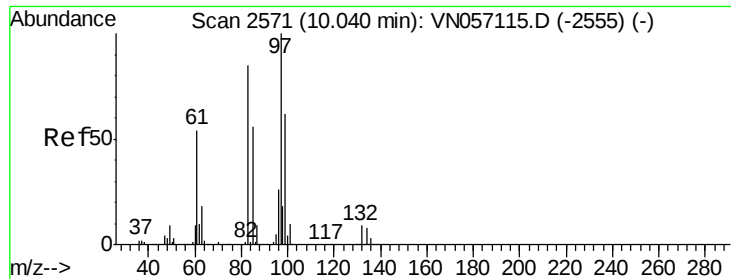
Tgt Ion: 98 Resp: 2206681
Ion Ratio Lower Upper
98 100
100 64.6 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.204 ug/l
RT: 9.45 min Scan# 2389
Delta R.T. 0.01 min
Lab File: VN057150.D
Acq: 9 Aug 2019 16:38

Tgt Ion: 43 Resp: 2627
Ion Ratio Lower Upper
43 100
58 38.8 33.2 49.8

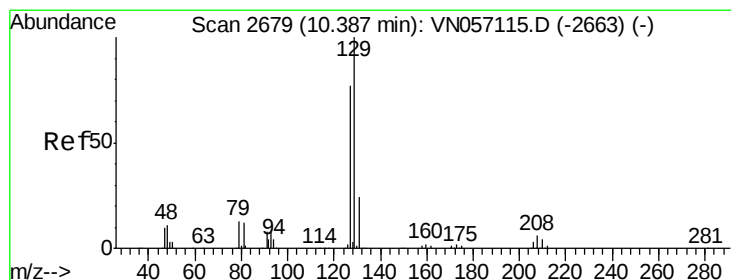
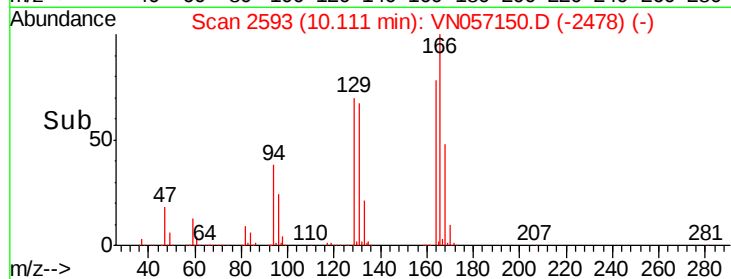
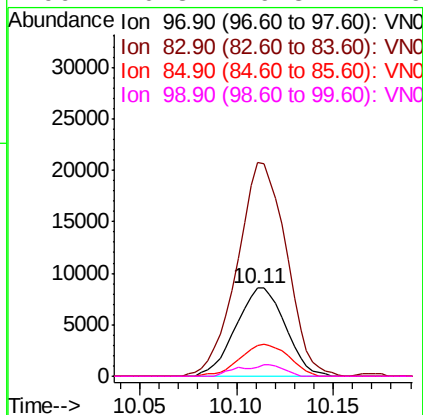
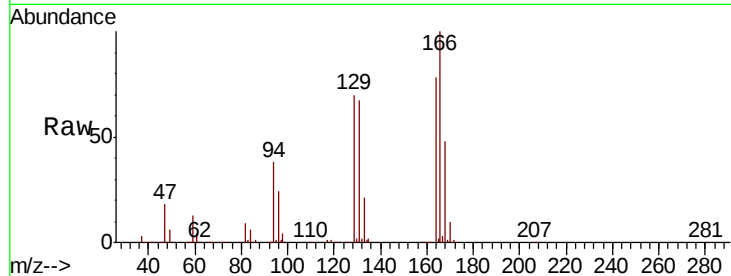




#55
 1,1,2-Trichloroethane
 Concen: 1.255 ug/l
 RT: 10.11 min Scan# 2593
 Delta R.T. 0.07 min
 Lab File: VN057150.D
 Acq: 9 Aug 2019 16:38

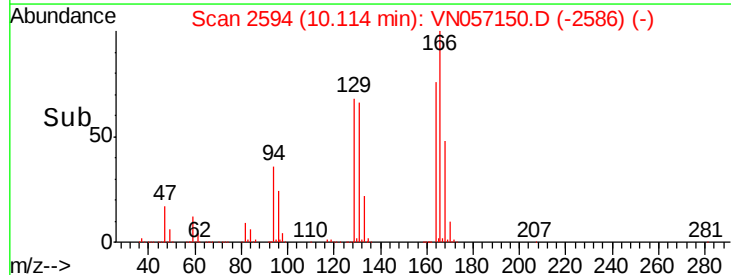
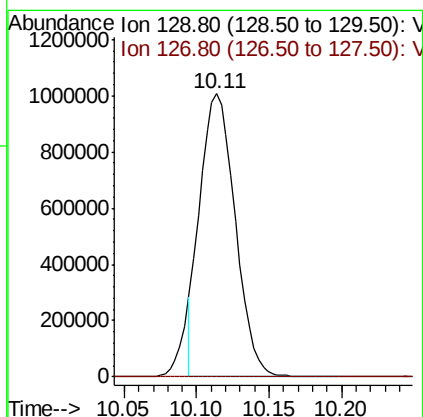
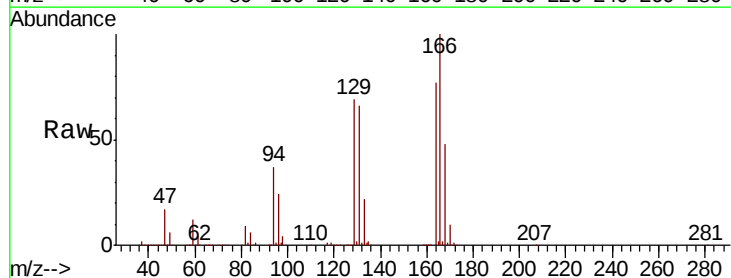
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-19D_080819

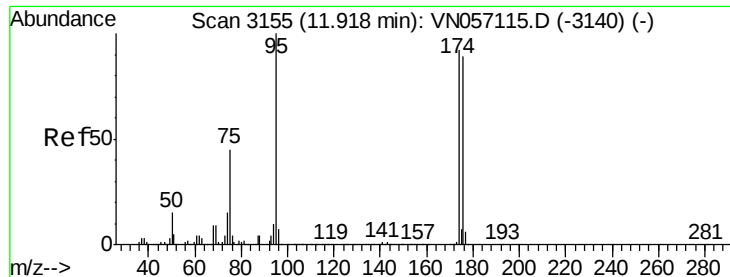
Tgt Ion: 97 Resp: 15270
 Ion Ratio Lower Upper
 97 100
 83 240.7 67.8 101.8#
 85 35.1 44.4 66.6#
 99 10.3 49.8 74.6#



#60
 Dibromochloromethane
 Concen: 132.584 ug/l
 RT: 10.11 min Scan# 2594
 Delta R.T. -0.27 min
 Lab File: VN057150.D
 Acq: 9 Aug 2019 16:38

Tgt Ion: 129 Resp: 1694702
 Ion Ratio Lower Upper
 129 100
 127 0.1 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 38.373 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819

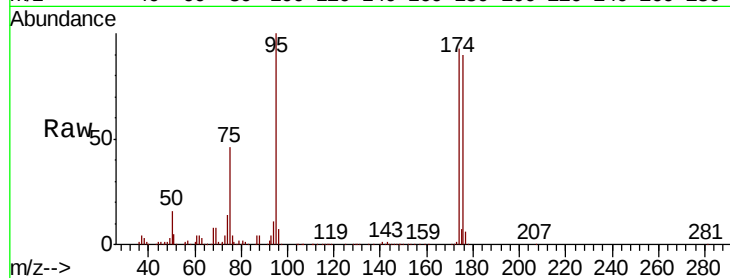
Tgt Ion: 95 Resp: 567831

Ion Ratio Lower Upper

95 100

174 92.8 0.0 185.0

176 91.5 0.0 181.2



Abundance Ion 94.90 (94.60 to 95.60): VN057115.D (-3140) (-)

Ion 173.80 (173.50 to 174.50): VN057115.D (-3140) (-)

Ion 175.80 (175.50 to 176.50): VN057115.D (-3140) (-)

11.92

400000

300000

200000

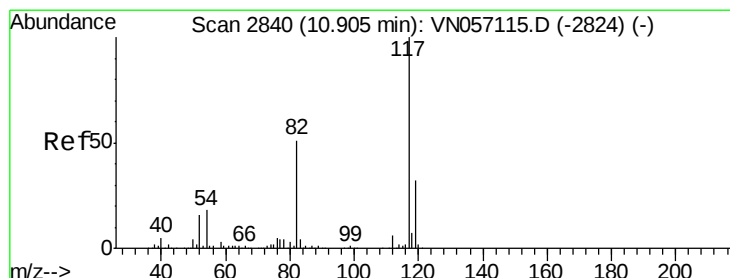
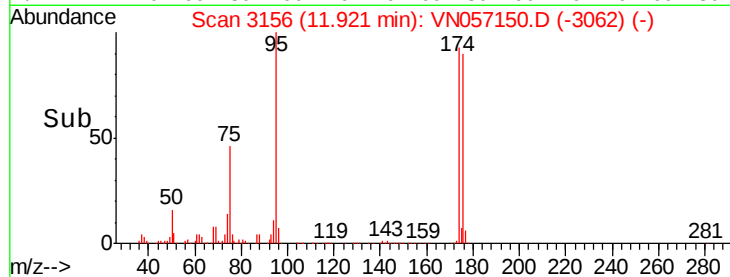
100000

0

11.90

12.00

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.91 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

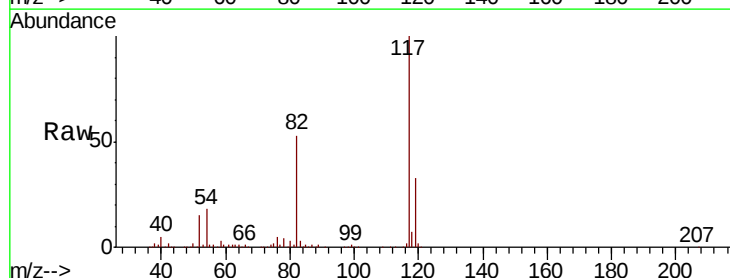
Tgt Ion: 117 Resp: 1561749

Ion Ratio Lower Upper

117 100

82 52.7 40.8 61.2

119 32.9 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VN057115.D (-2824) (-)

Ion 82.00 (81.70 to 82.70): VN057115.D (-2824) (-)

Ion 118.90 (118.60 to 119.60): VN057115.D (-2824) (-)

10.91

1200000

1000000

800000

600000

400000

200000

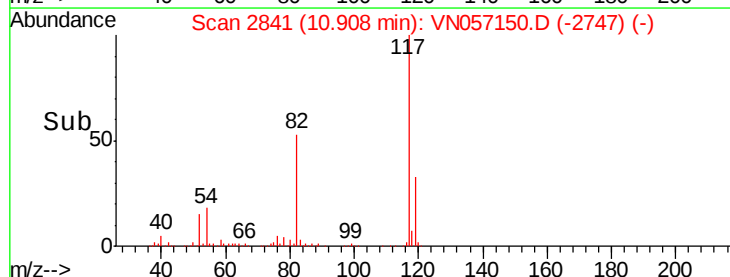
0

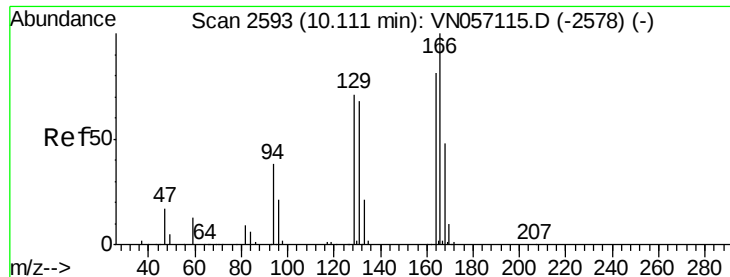
10.80

10.90

11.00

Time-->





#64

Tetrachloroethene

Concen: 157.556 ug/l

RT: 10.11 min Scan# 2594

Delta R.T. 0.00 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819

Tgt Ion:164 Resp: 2046365

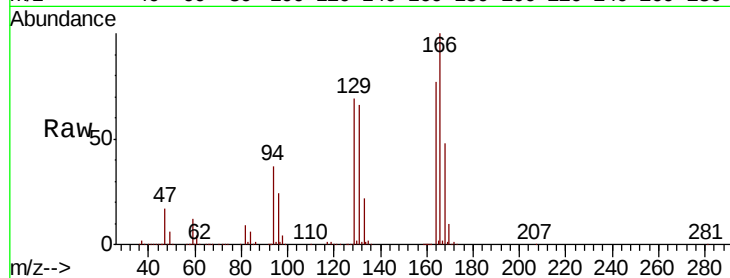
Ion Ratio Lower Upper

164 100

166 130.0 98.3 147.5

129 89.7 69.8 104.6

131 86.1 66.8 100.2

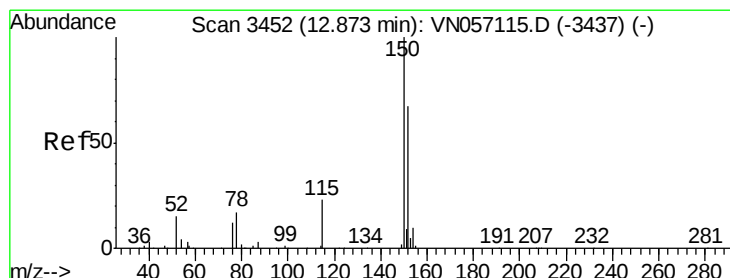
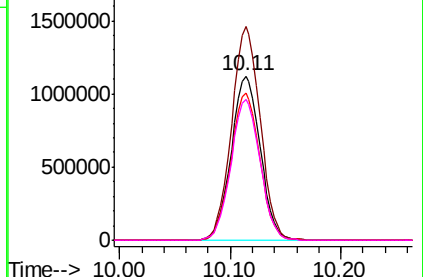
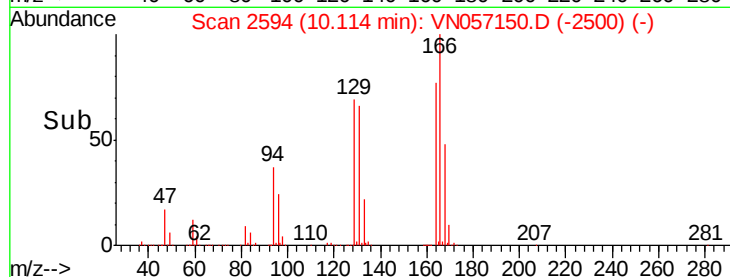


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.88 min Scan# 3453

Delta R.T. 0.00 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

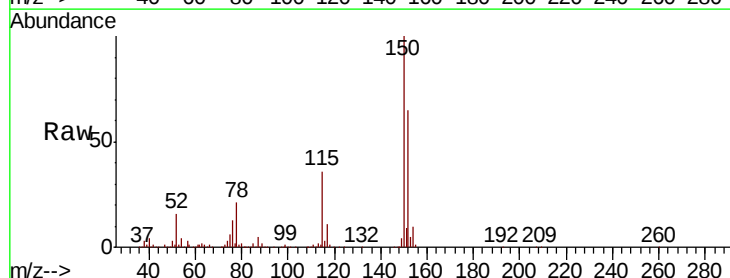
Tgt Ion:152 Resp: 375179

Ion Ratio Lower Upper

152 100

115 56.1 27.5 82.5

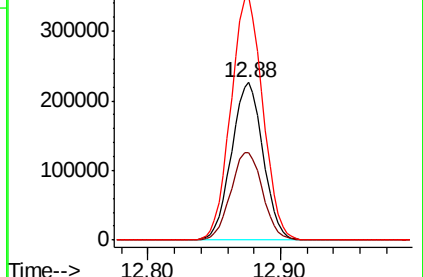
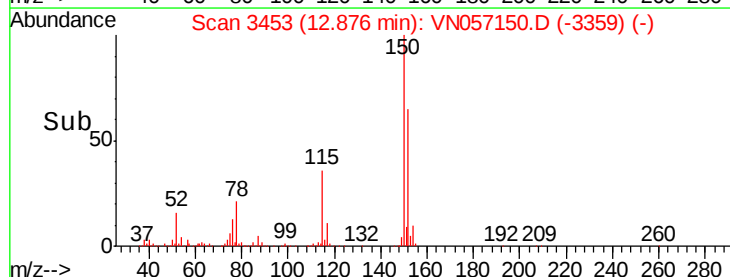
150 155.8 0.0 341.6

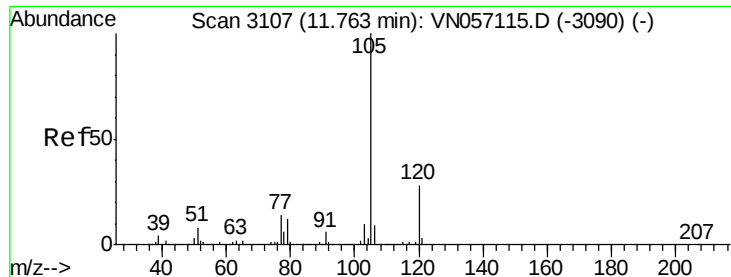


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 11.77 min Scan# 3110

Delta R.T. 0.01 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

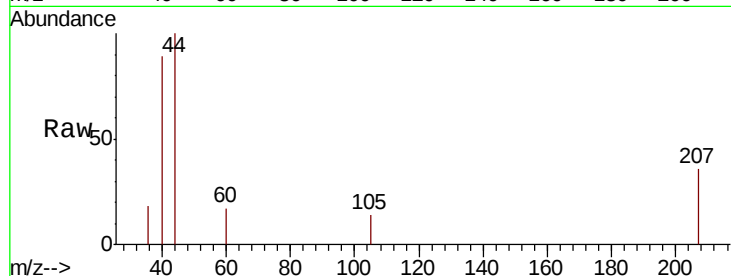
MW-19D_080819

Tgt Ion: 105 Resp: 62

Ion Ratio Lower Upper

105 100

120 0.0 13.7 41.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.77

150

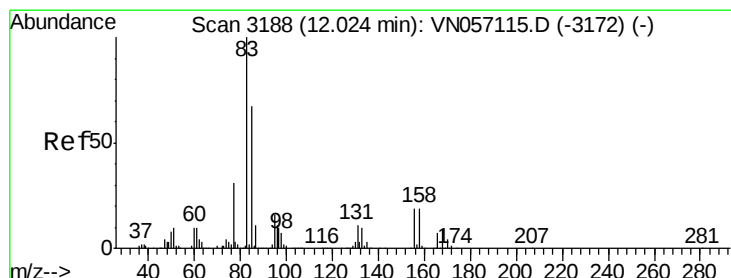
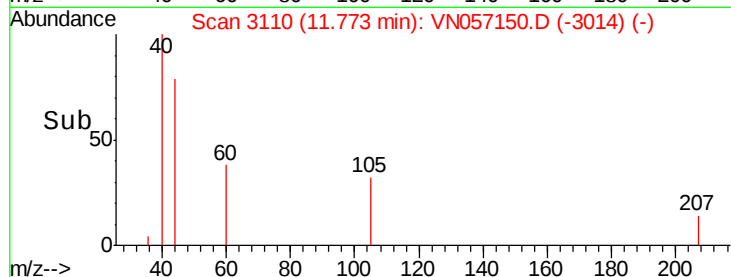
100

50

0

Time-->

11.76 11.77 11.78



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.93 min Scan# 3158

Delta R.T. -0.10 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

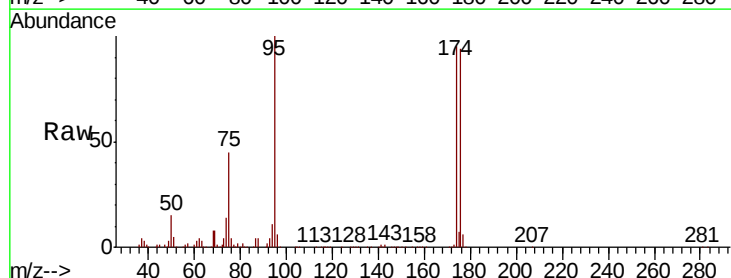
Tgt Ion: 83 Resp: 151

Ion Ratio Lower Upper

83 100

131 351.7 5.5 16.4#

85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

500

400

300

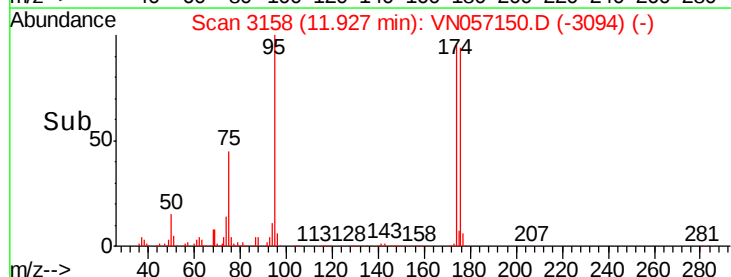
200

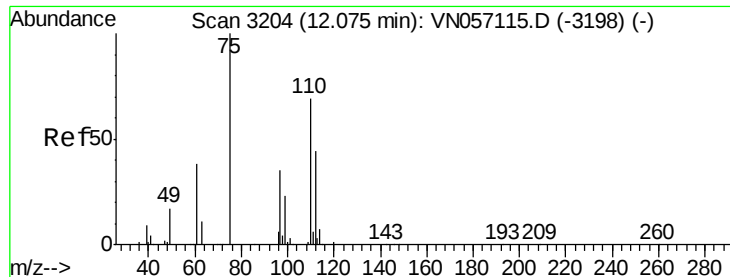
100

0

Time-->

11.91 11.92 11.93 11.94





#76

1,2,3-Trichloropropane

Concen: 35.039 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.15 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

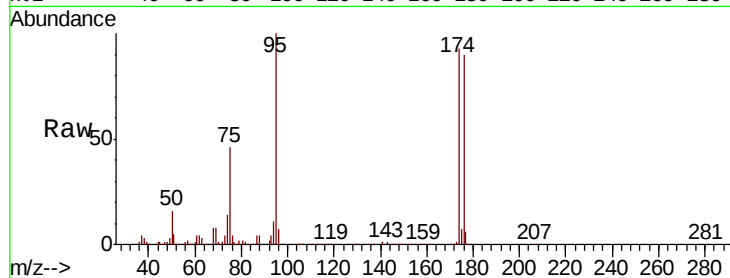
MW-19D_080819

Tgt Ion: 75 Resp: 263075

Ion Ratio Lower Upper

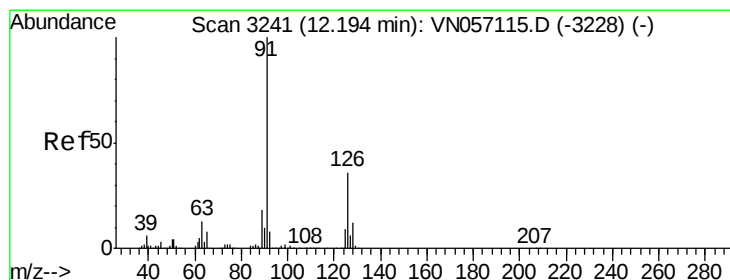
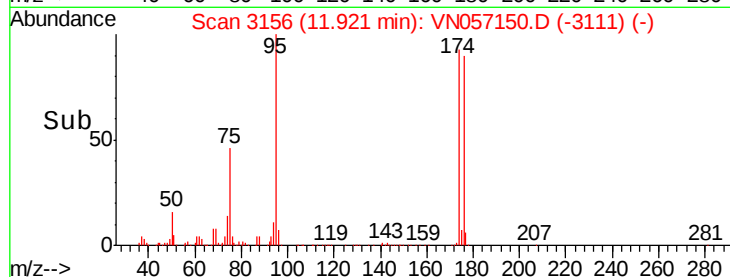
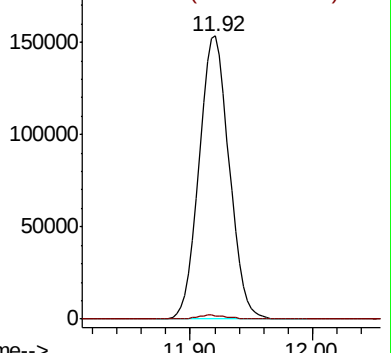
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.19 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VN057150.D

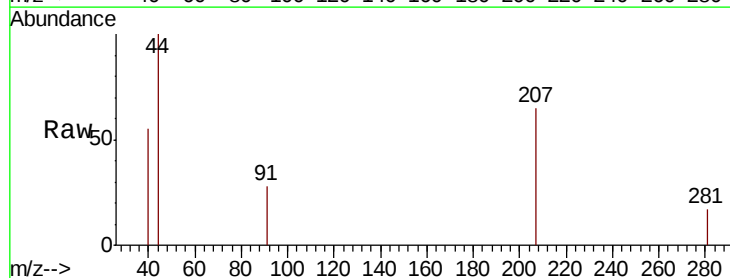
Acq: 9 Aug 2019 16:38

Tgt Ion: 91 Resp: 160

Ion Ratio Lower Upper

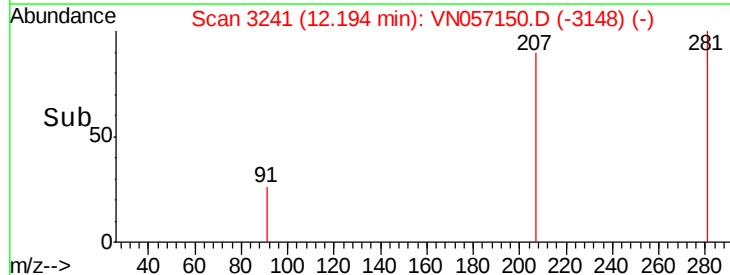
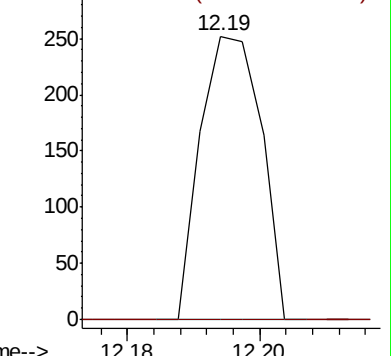
91 100

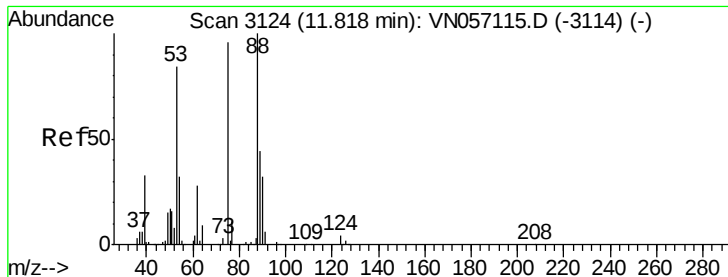
126 0.0 18.1 54.3#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 103.101 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.10 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819

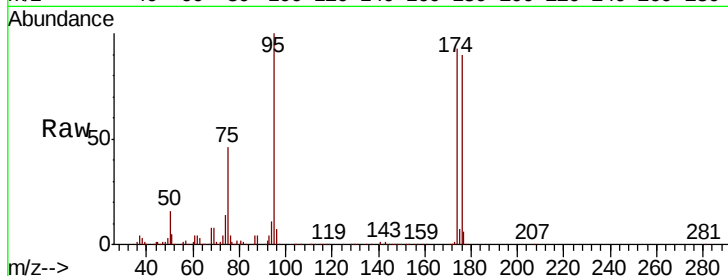
Tgt Ion: 75 Resp: 263075

Ion Ratio Lower Upper

75 100

53 0.0 70.6 106.0#

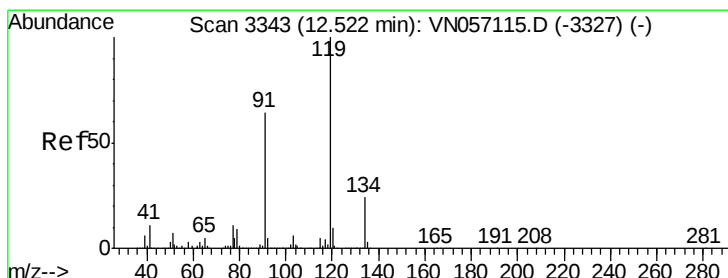
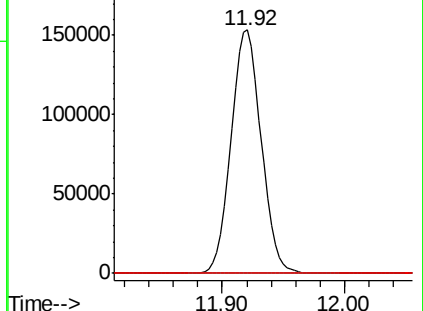
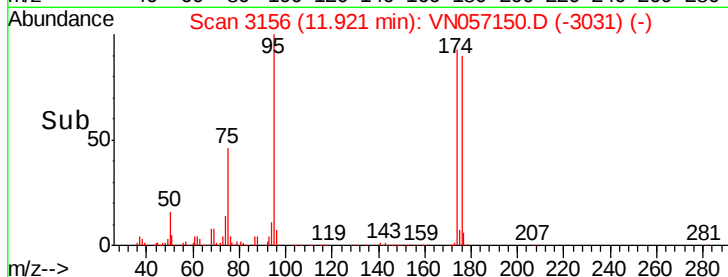
89 0.0 36.4 54.6#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN057150.D

Acq: 9 Aug 2019 16:38

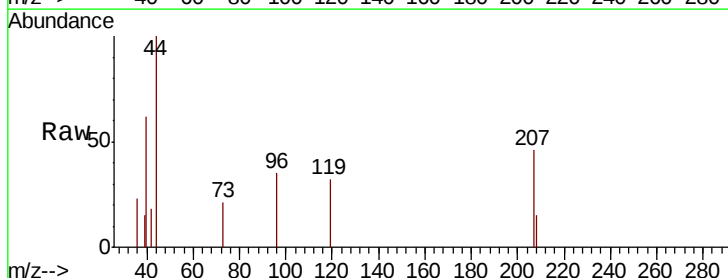
Tgt Ion: 119 Resp: 332

Ion Ratio Lower Upper

119 100

91 0.0 31.4 94.2#

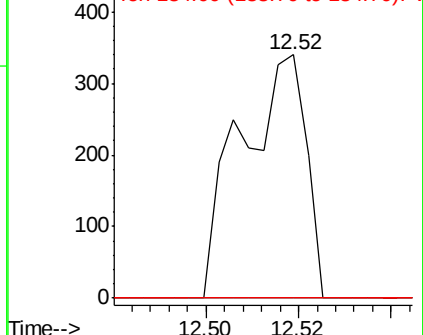
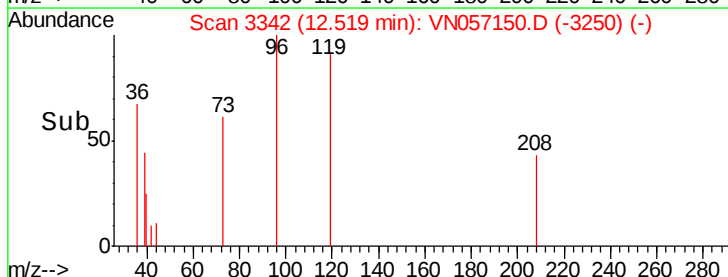
134 0.0 13.2 39.6#

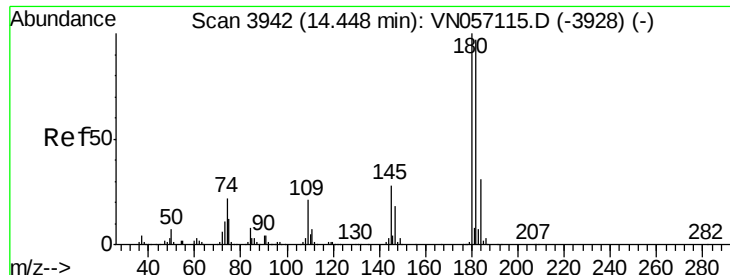


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

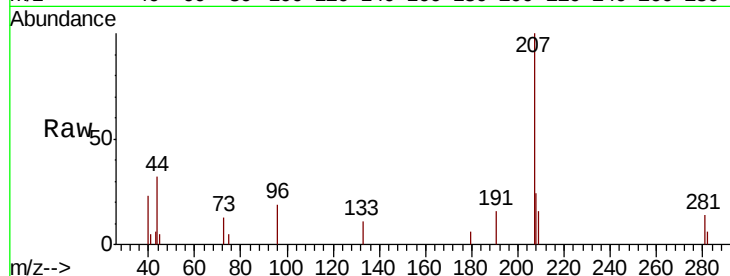




#93
 1,2,4-Trichlorobenzene
 Concen: 5.952 ug/l
 RT: 14.46 min Scan# 3946
 Delta R.T. 0.01 min
 Lab File: VN057150.D
 Acq: 9 Aug 2019 16:38

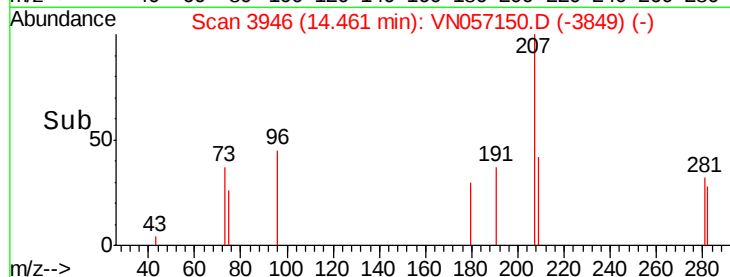
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-19D_080819

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.5	142.6#
145	0.0	14.1	42.2#

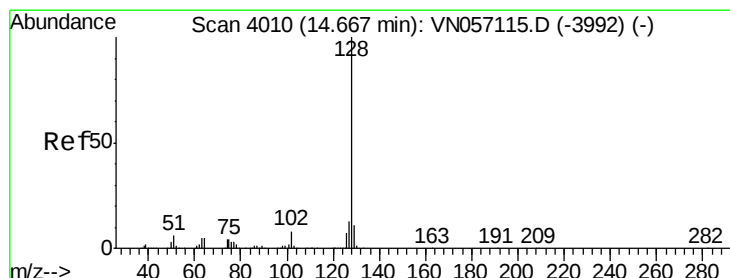


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

14.46

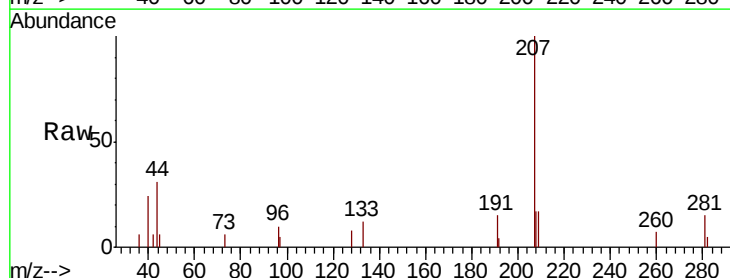


Time-->



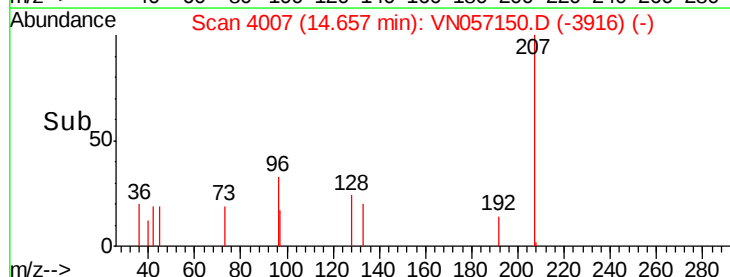
#95
 Naphthalene
 Concen: 2.820 ug/l
 RT: 14.66 min Scan# 4007
 Delta R.T. -0.01 min
 Lab File: VN057150.D
 Acq: 9 Aug 2019 16:38

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.8	13.2#



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

14.66



Time-->