

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057158.D
 Acq On : 9 Aug 2019 19:59
 Operator : JC/SP
 Sample : K4262-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R 080819

Quant Time: Aug 10 02:15:27 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	1317076	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1838149	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.90	117	1464116	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.87	152	346215	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	608760	44.94	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.88%		
35) Dibromofluoromethane	6.99	113	553788	48.01	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.02%		
50) Toluene-d8	9.56	98	2122911	48.11	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.22%		
62) 4-Bromofluorobenzene	11.92	95	526357	37.02	ug/l	0.00
Spiked Amount 50.000			Recovery =	74.04%		

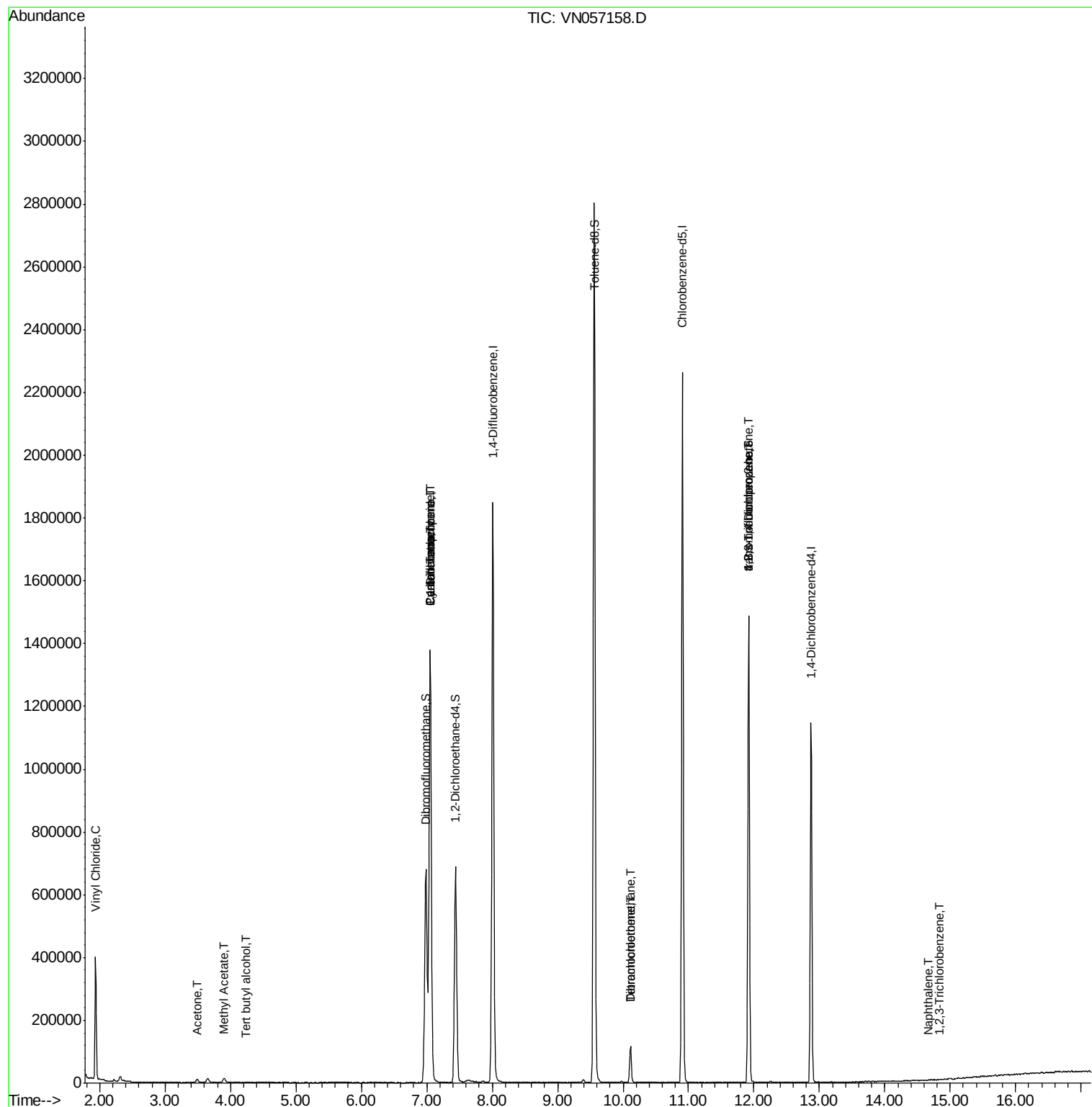
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.94	62	4866	0.372	ug/l #	43
11) Tert butyl alcohol	4.24	59	472	0.245	ug/l #	73
16) Acetone	3.48	43	12698	3.104	ug/l	90
18) Methyl Acetate	3.90	43	24320	1.356	ug/l	98
31) Cyclohexane	7.05	56	18862	0.960	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	80447	5.315	ug/l #	48
38) Carbon Tetrachloride	7.05	117	108057	6.851	ug/l #	16
60) Dibromochloromethane	10.11	129	25094	2.043	ug/l #	11
64) Tetrachloroethene	10.11	164	31487	2.586	ug/l	98
73) Isopropylbenzene	11.77	105	31	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	11.91	83	66	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	247476	35.780	ug/l #	100
79) 2-Chlorotoluene	12.11	91	131	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	11.92	75	247476	105.101	ug/l #	14
83) tert-Butylbenzene	12.56	119	205	Below Cal	#	28
90) Hexachloroethane	13.48	117	68	Below Cal	#	1
94) Hexachlorobutadiene	14.54	225	62	Below Cal	#	19
95) Naphthalene	14.66	128	490	2.857	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.83	180	74	5.734	ug/l #	12

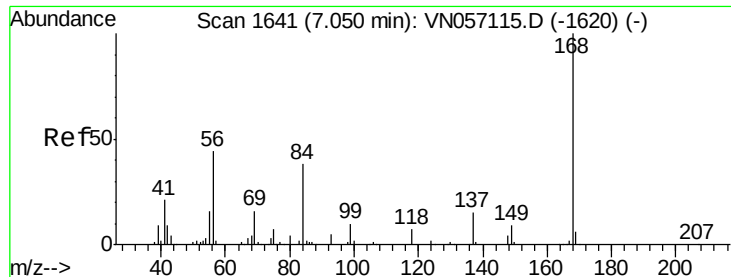
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057158.D

Acq: 9 Aug 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

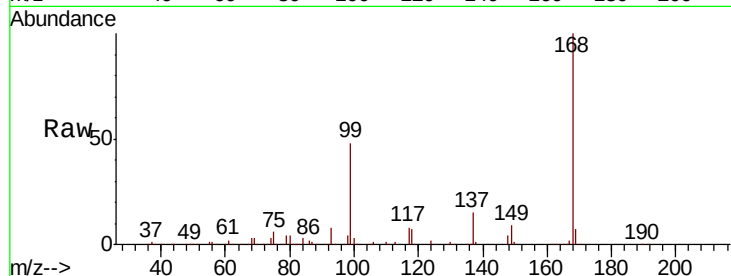
MW-4R 080819

Tgt Ion:168 Resp: 1317076

Ion Ratio Lower Upper

168 100

99 48.4 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.05

600000

500000

400000

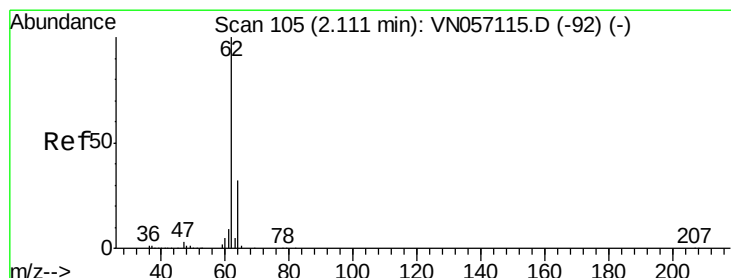
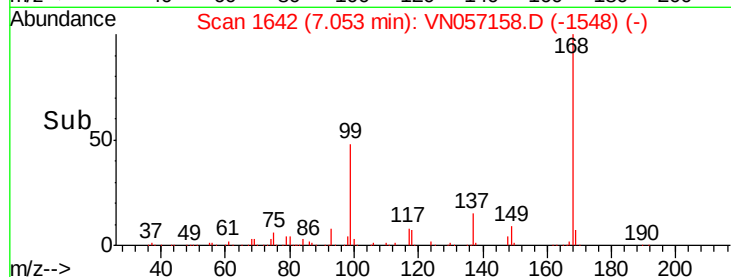
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 0.372 ug/l

RT: 1.94 min Scan# 51

Delta R.T. -0.17 min

Lab File: VN057158.D

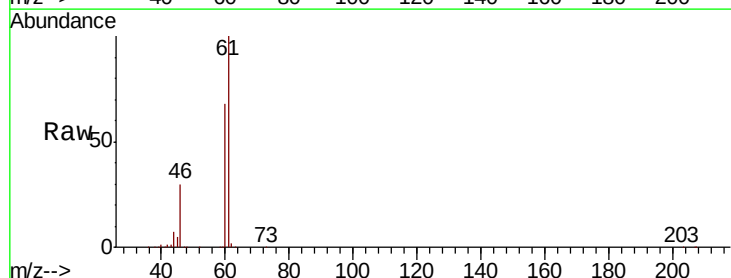
Acq: 9 Aug 2019 19:59

Tgt Ion: 62 Resp: 4866

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

1.94

4000

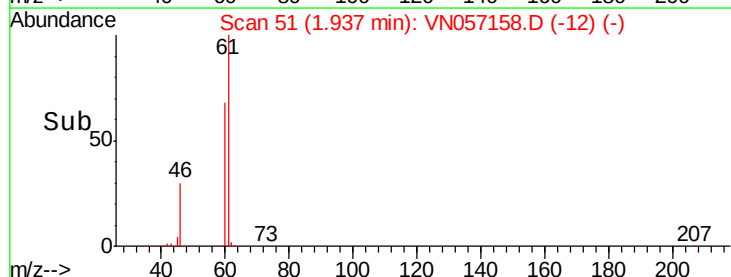
3000

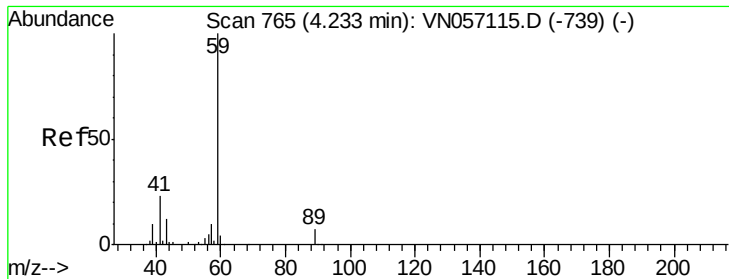
2000

1000

0

Time-->



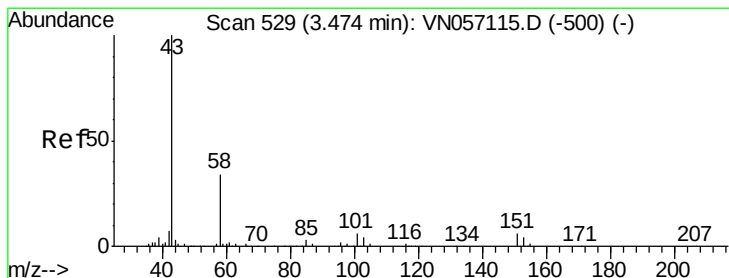
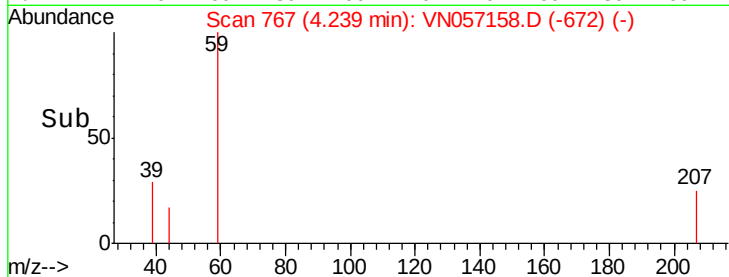
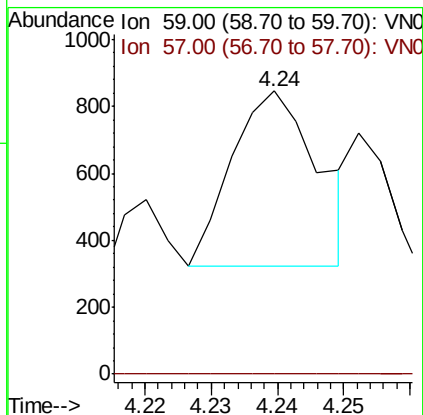
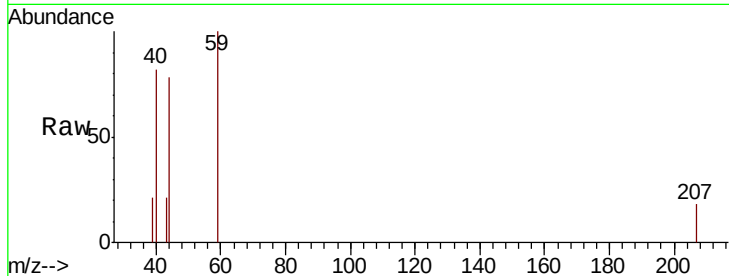


#11

Tert butyl alcohol
 Concen: 0.245 ug/l
 RT: 4.24 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VN057158.D
 Acq: 9 Aug 2019 19:59

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 MW-4R_080819

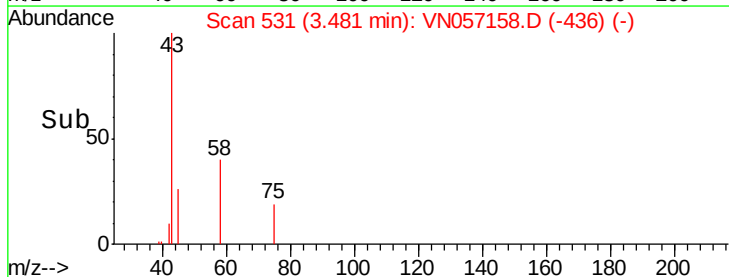
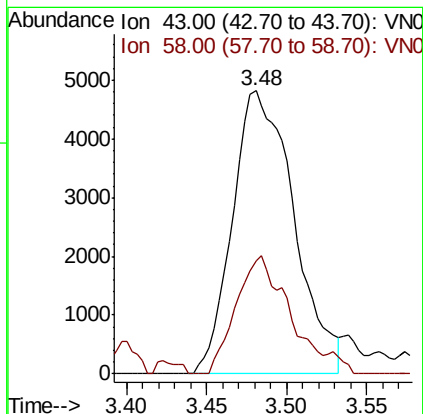
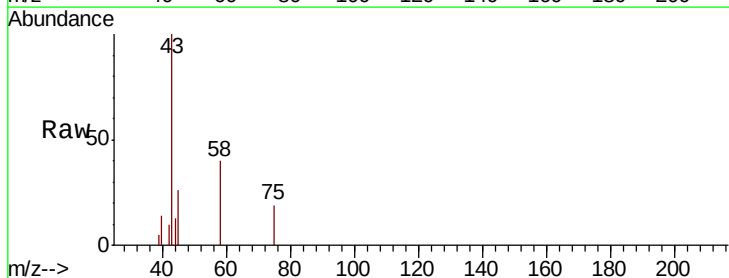
Tgt Ion: 59 Resp: 472
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

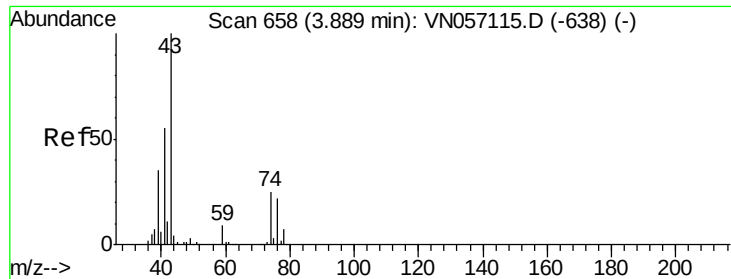


#16

Acetone
 Concen: 3.104 ug/l
 RT: 3.48 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VN057158.D
 Acq: 9 Aug 2019 19:59

Tgt Ion: 43 Resp: 12698
 Ion Ratio Lower Upper
 43 100
 58 40.1 27.4 41.2

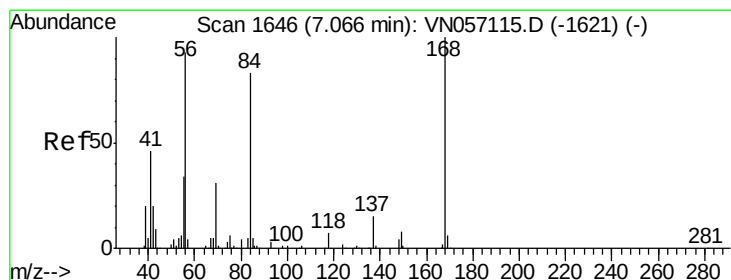
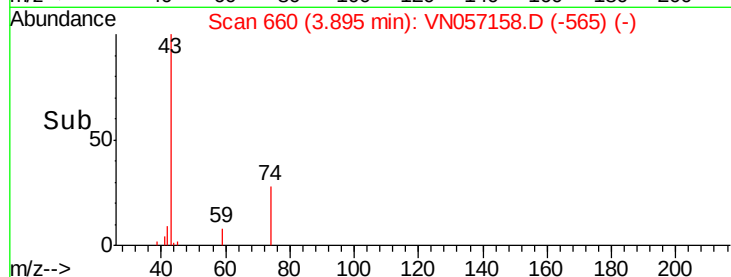
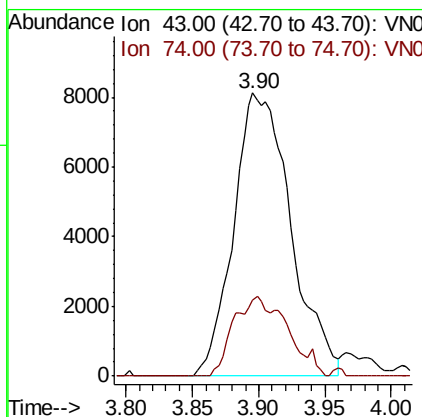
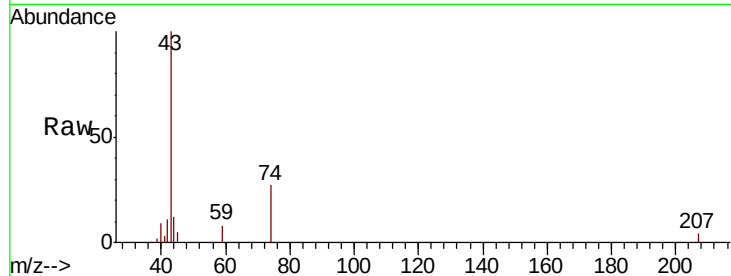




#18
Methyl Acetate
Concen: 1.356 ug/l
RT: 3.90 min Scan# 660
Delta R.T. 0.01 min
Lab File: VN057158.D
Acq: 9 Aug 2019 19:59

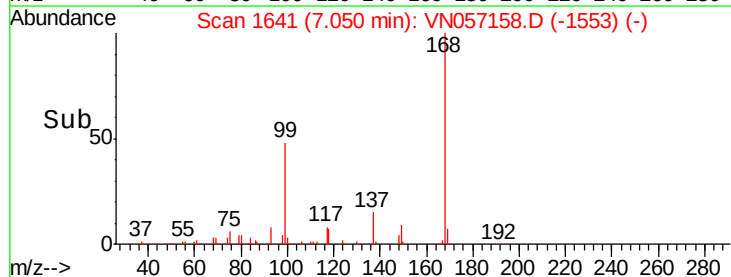
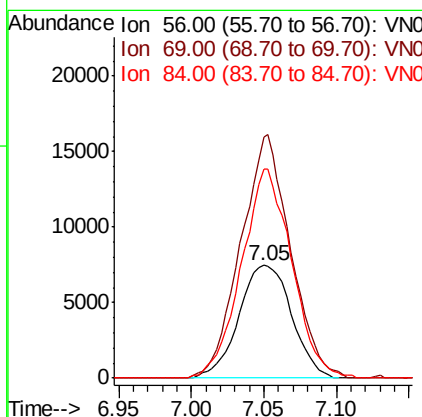
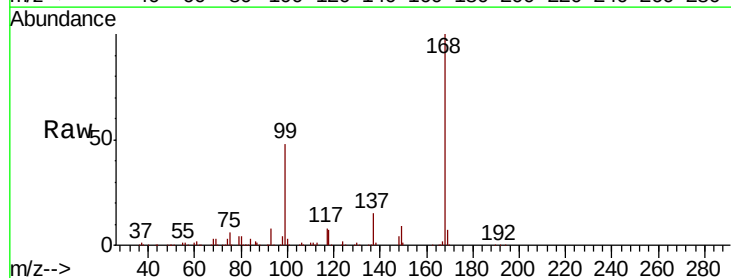
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ClientSampleId :
MW-4R_080819

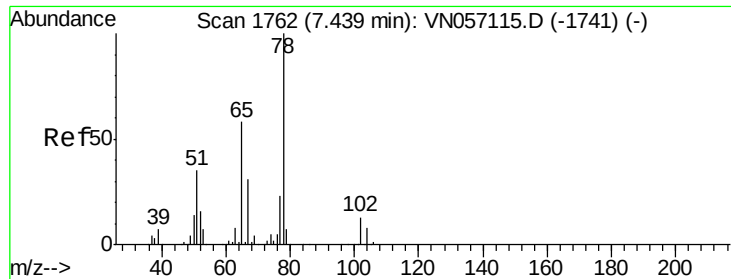
Tgt Ion: 43 Resp: 24320
Ion Ratio Lower Upper
43 100
74 26.5 20.2 30.4



#31
Cyclohexane
Concen: 0.960 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.02 min
Lab File: VN057158.D
Acq: 9 Aug 2019 19:59

Tgt Ion: 56 Resp: 18862
Ion Ratio Lower Upper
56 100
69 214.1 26.9 40.3#
84 185.8 71.9 107.9#

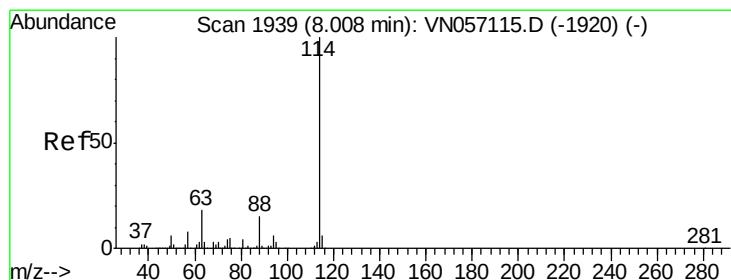
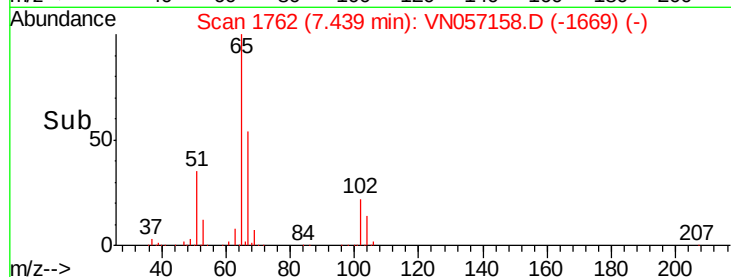
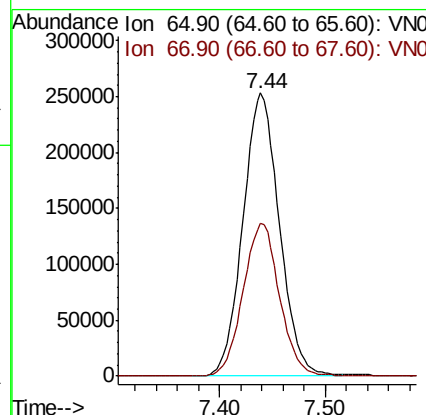
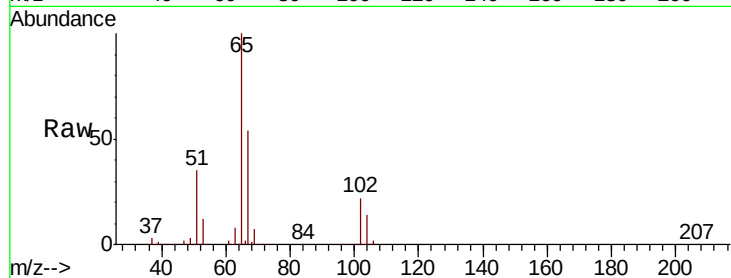




#33
 1,2-Dichloroethane-d4
 Concen: 44.943 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VN057158.D
 Acq: 9 Aug 2019 19:59

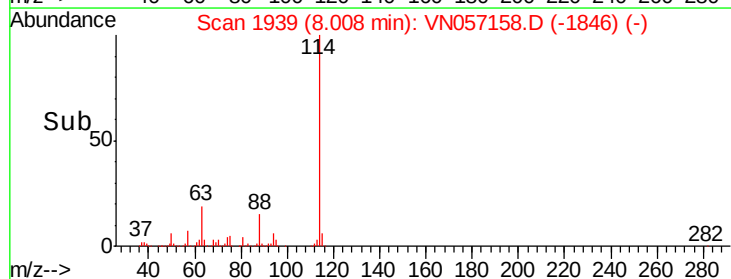
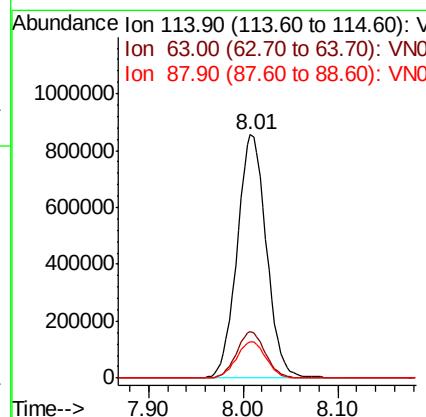
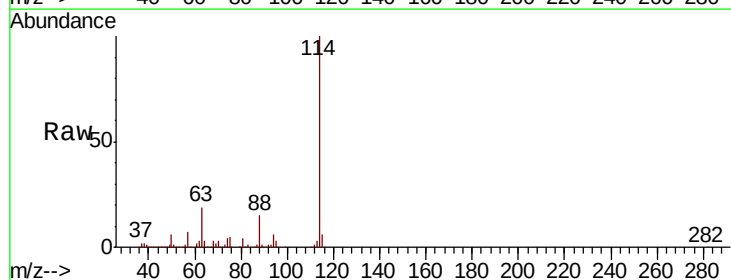
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 ClientSampleId :
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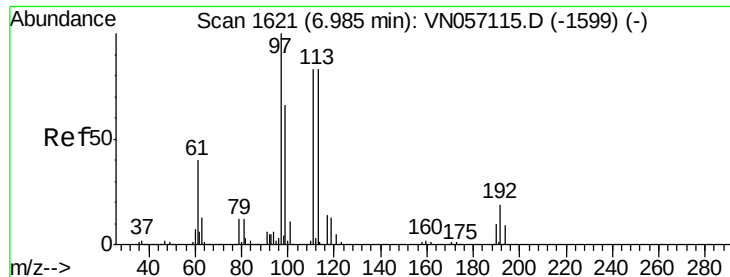
Tgt Ion: 65 Resp: 608760
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057158.D
 Acq: 9 Aug 2019 19:59

Tgt Ion: 114 Resp: 1838149
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 36.2
 88 15.1 0.0 30.0

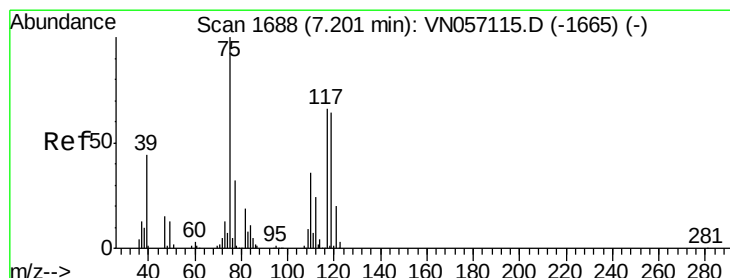
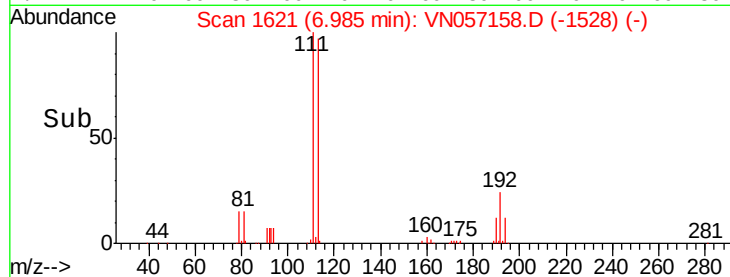
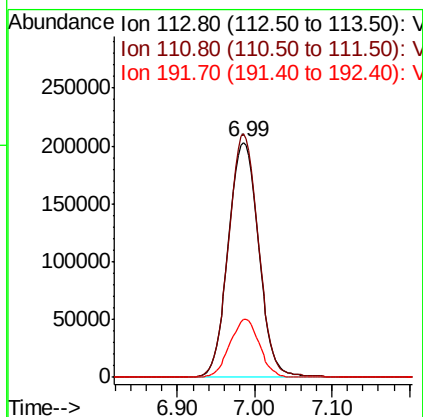
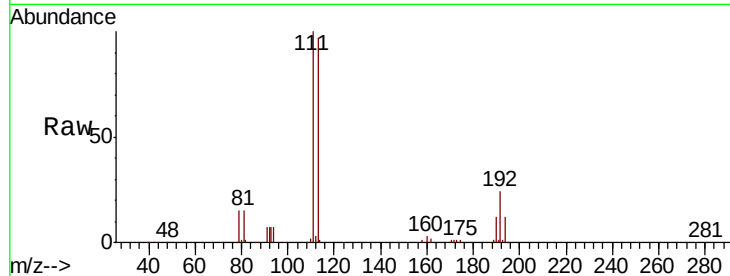




#35
 Dibromofluoromethane
 Concen: 48.011 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057158.D
 Acq: 9 Aug 2019 19:59

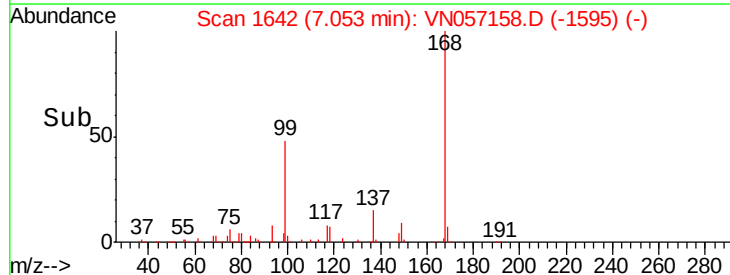
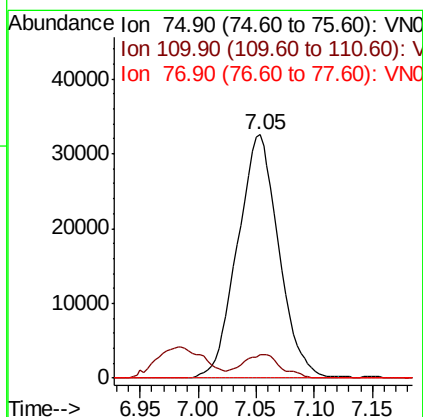
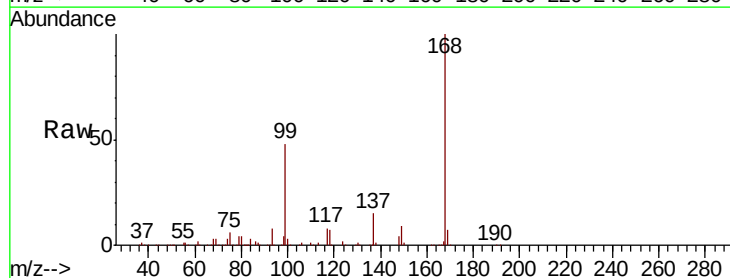
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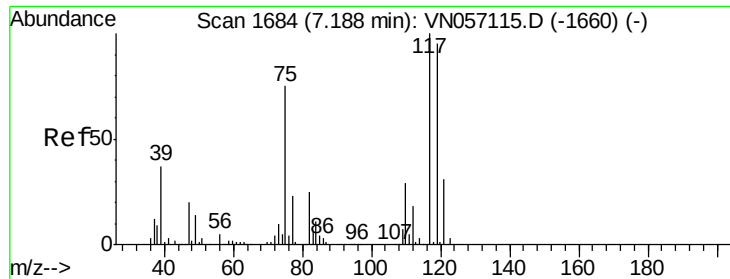
Tgt Ion: 113 Resp: 553788
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.3 121.9
 192 24.1 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 5.315 ug/l
 RT: 7.05 min Scan# 1642
 Delta R.T. -0.15 min
 Lab File: VN057158.D
 Acq: 9 Aug 2019 19:59

Tgt Ion: 75 Resp: 80447
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.7 56.1#
 77 0.0 25.0 37.4#

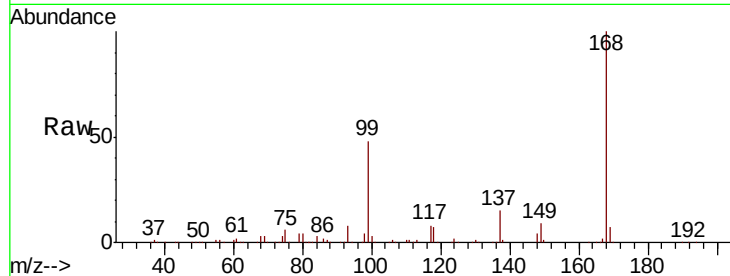




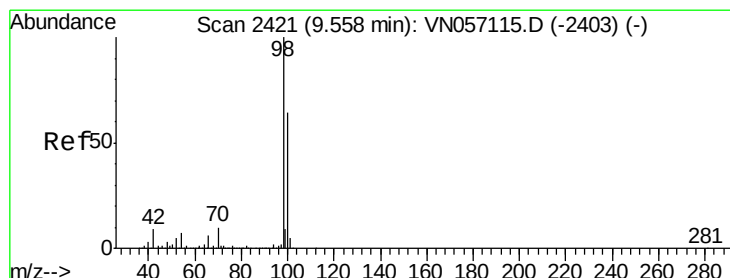
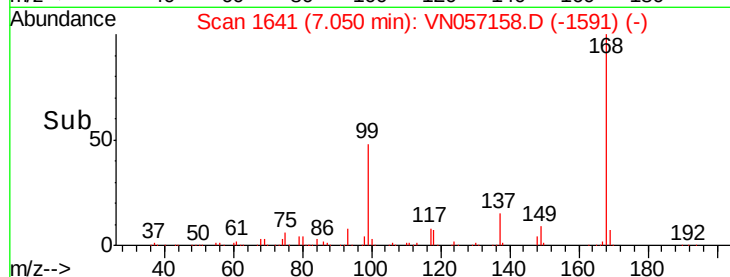
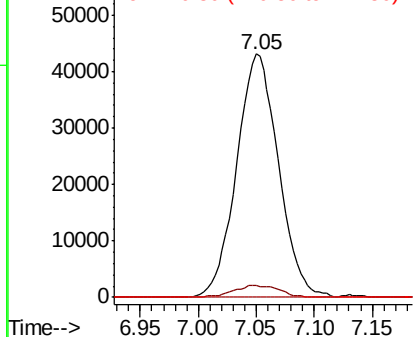
#38
Carbon Tetrachloride
Concen: 6.851 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.14 min
Lab File: VN057158.D
Acq: 9 Aug 2019 19:59

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819

Tgt Ion:117 Resp: 108057
Ion Ratio Lower Upper
117 100
119 4.9 75.8 113.6#
121 0.0 24.4 36.6#

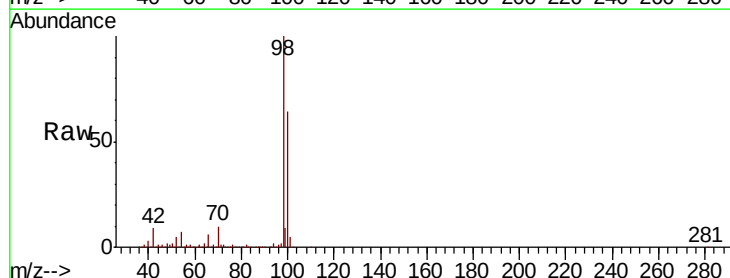


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

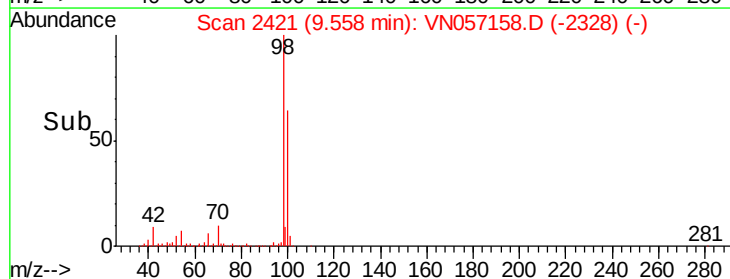
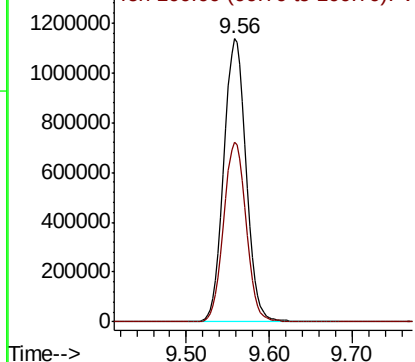


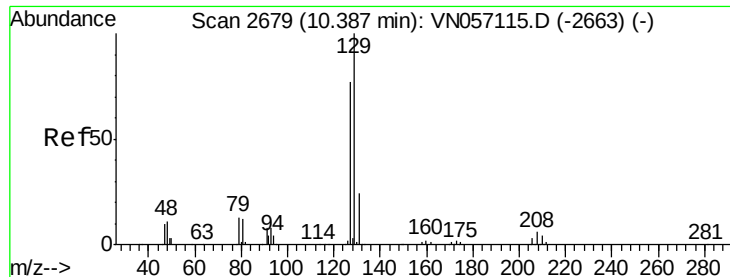
#50
Toluene-d8
Concen: 48.106 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. -0.00 min
Lab File: VN057158.D
Acq: 9 Aug 2019 19:59

Tgt Ion: 98 Resp: 2122911
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8



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

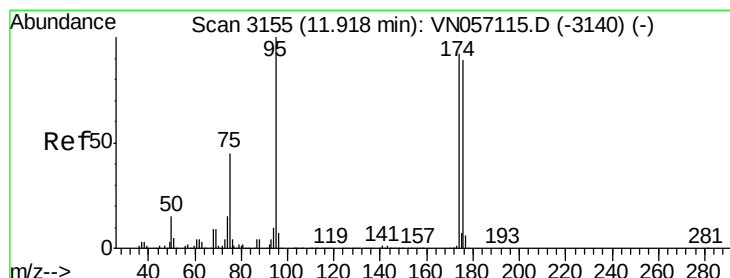
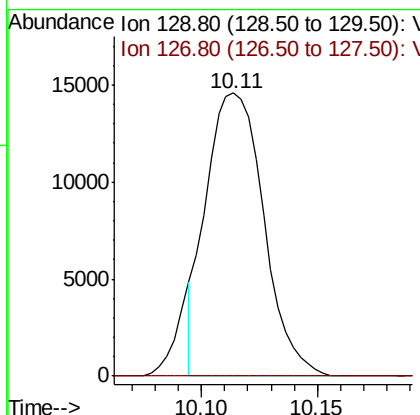
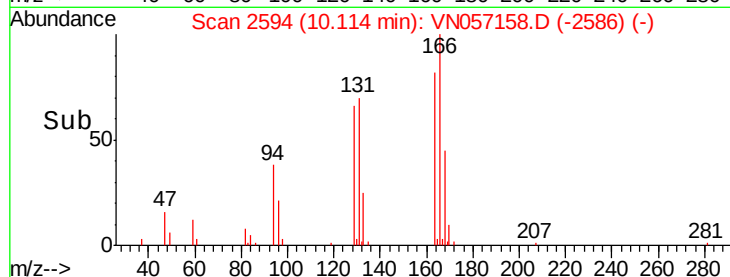
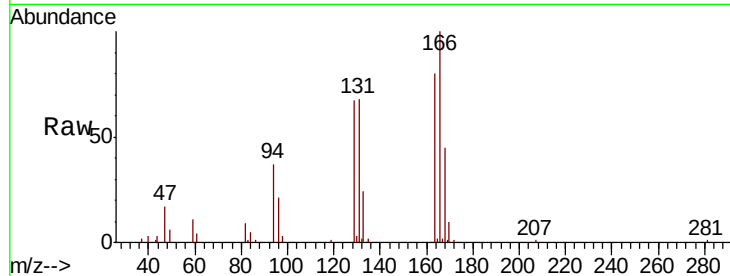




#60
Dibromochloromethane
Concen: 2.043 ug/l
RT: 10.11 min Scan# 2594
Delta R.T. -0.27 min
Lab File: VN057158.D
Acq: 9 Aug 2019 19:59

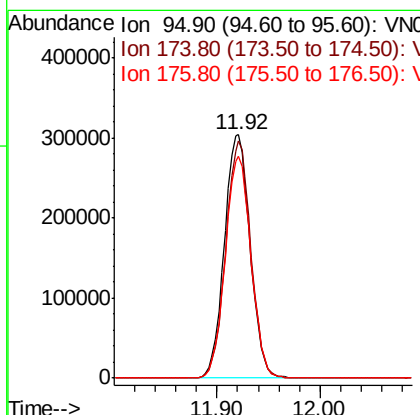
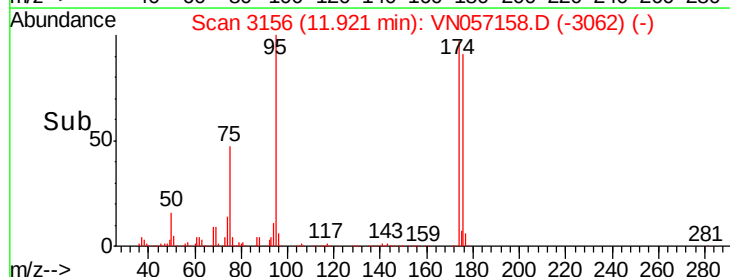
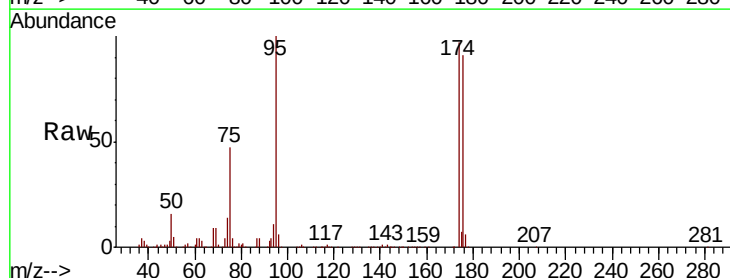
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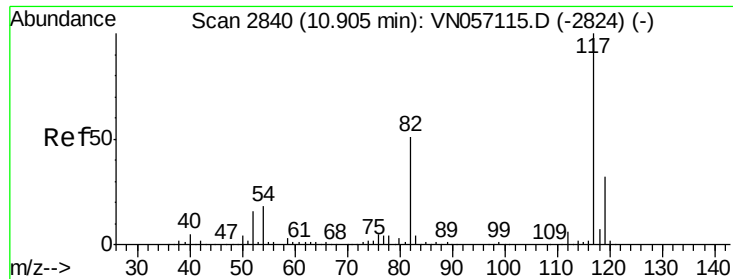
Tgt Ion: 129 Resp: 25094
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 37.018 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN057158.D
Acq: 9 Aug 2019 19:59

Tgt Ion: 95 Resp: 526357
Ion Ratio Lower Upper
95 100
174 95.5 0.0 185.0
176 91.3 0.0 181.2

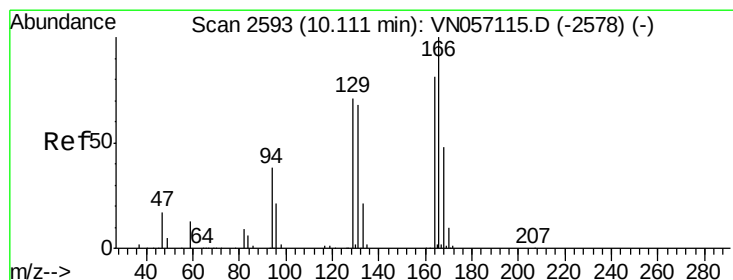
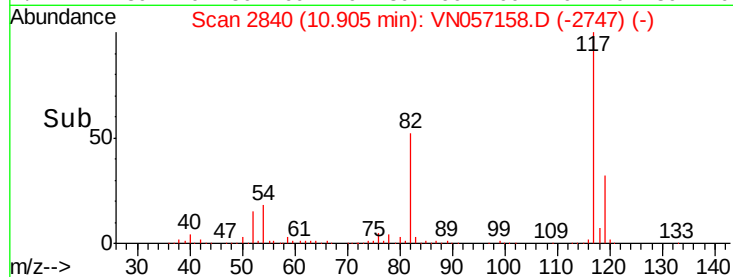
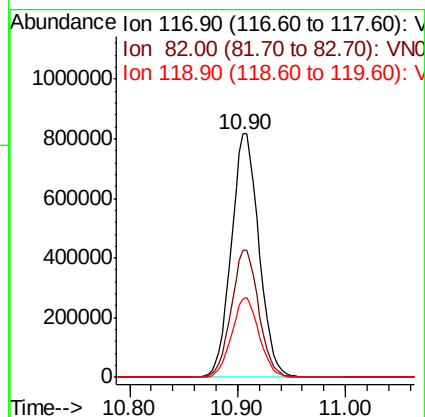
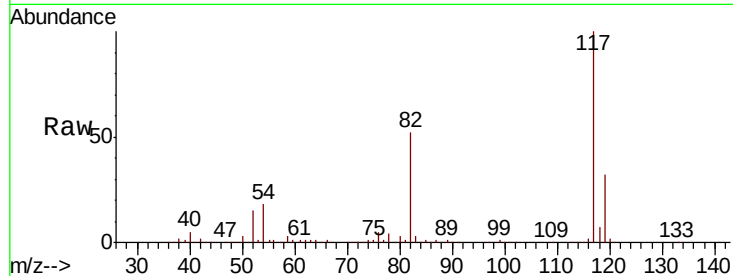




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VN057158.D
Acq: 9 Aug 2019 19:59

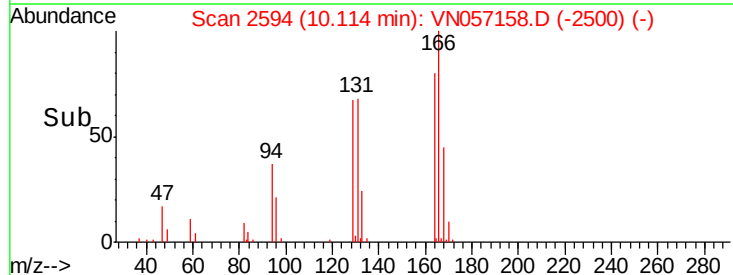
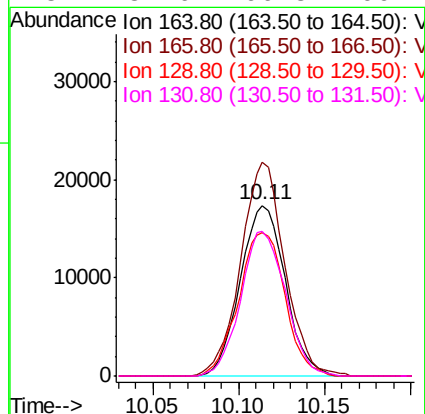
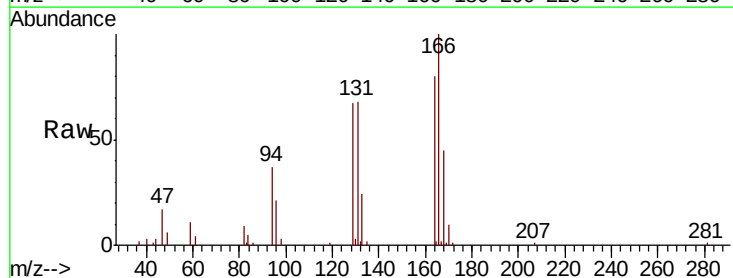
Instrument :
MSVOA_N
ClientSampled :
MW-4R 080819

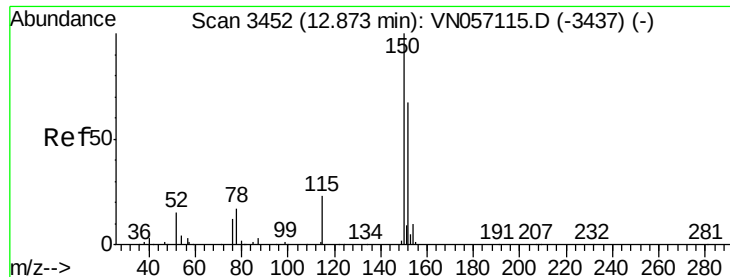
Tgt Ion:117 Resp: 1464116
Ion Ratio Lower Upper
117 100
82 52.3 40.8 61.2
119 32.5 25.7 38.5



#64
Tetrachloroethene
Concen: 2.586 ug/l
RT: 10.11 min Scan# 2594
Delta R.T. 0.00 min
Lab File: VN057158.D
Acq: 9 Aug 2019 19:59

Tgt Ion:164 Resp: 31487
Ion Ratio Lower Upper
164 100
166 125.0 98.3 147.5
129 83.8 69.8 104.6
131 84.6 66.8 100.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.87 min Scan# 3452

Delta R.T. -0.00 min

Lab File: VN057158.D

Acq: 9 Aug 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

MW-4R 080819

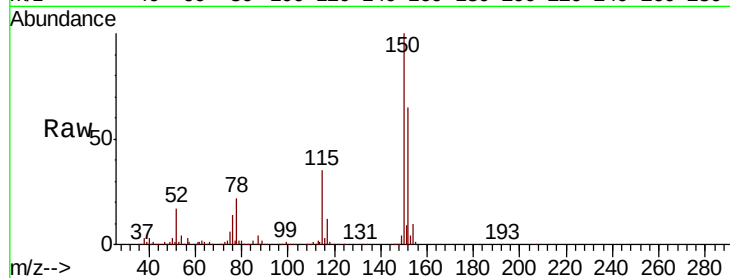
Tgt Ion:152 Resp: 346215

Ion Ratio Lower Upper

152 100

115 53.8 27.5 82.5

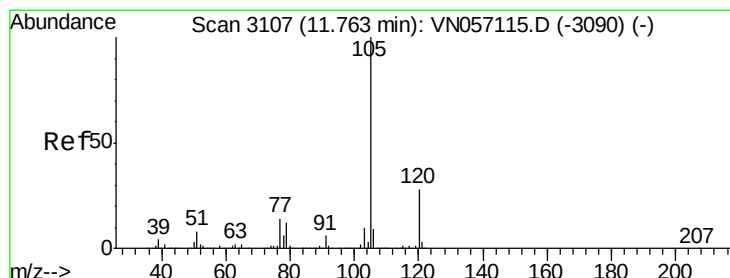
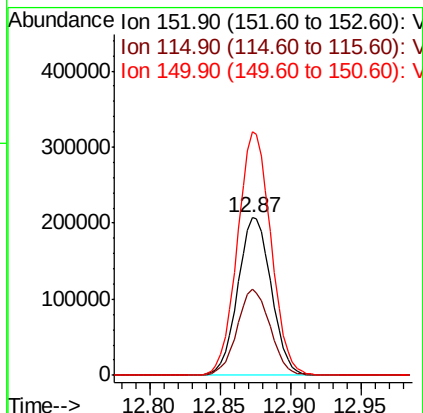
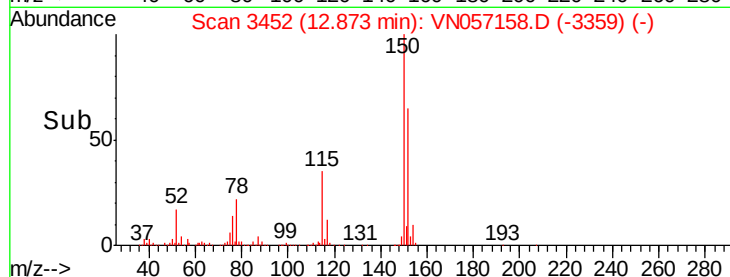
150 154.1 0.0 341.6



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: VN057158.D

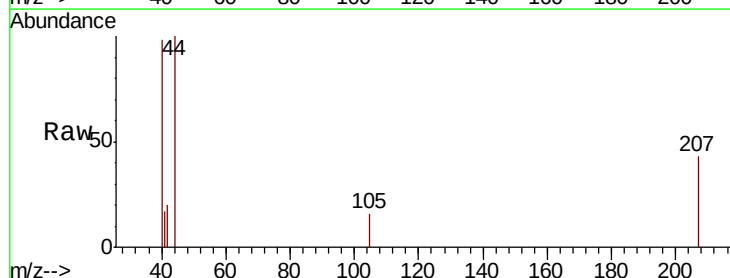
Acq: 9 Aug 2019 19:59

Tgt Ion:105 Resp: 31

Ion Ratio Lower Upper

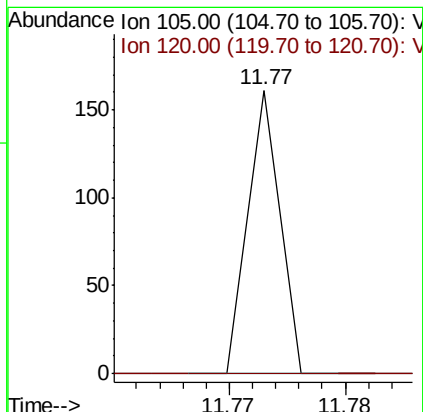
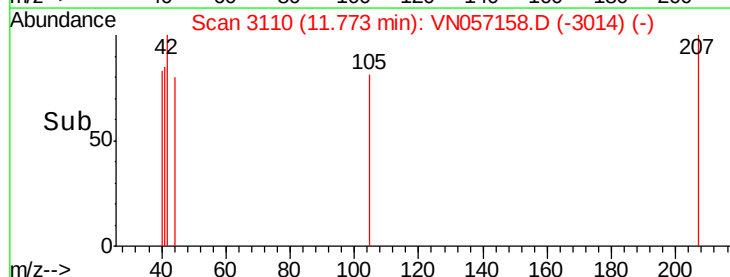
105 100

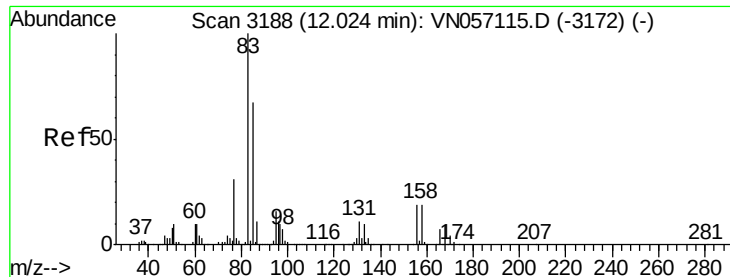
120 0.0 13.7 41.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.91 min Scan# 3154

Delta R.T. -0.11 min

Lab File: VN057158.D

Acq: 9 Aug 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

MW-4R 080819

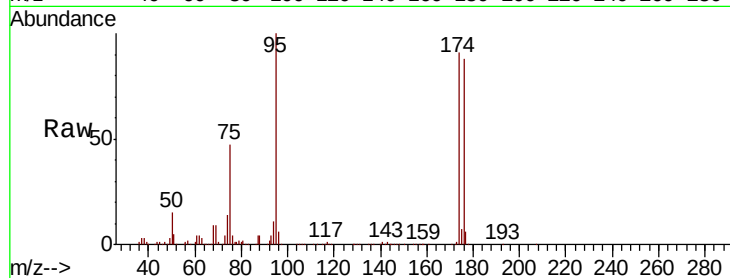
Tgt Ion: 83 Resp: 66

Ion Ratio Lower Upper

83 100

131 860.6 5.5 16.4#

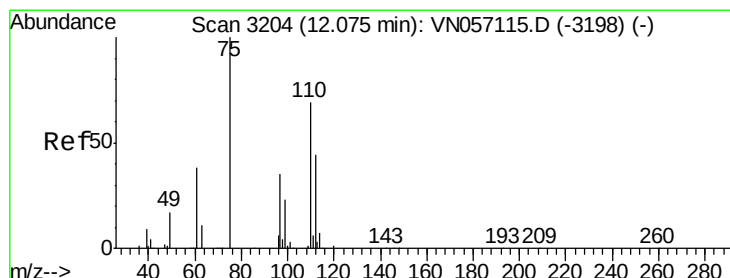
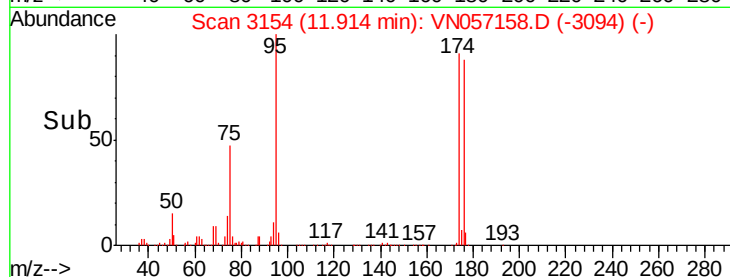
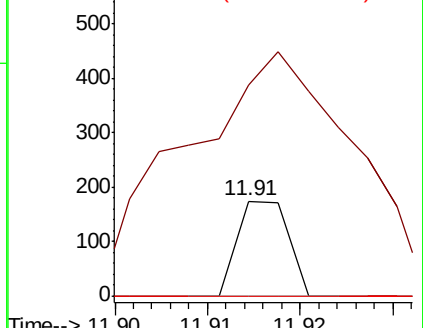
85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 35.780 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.15 min

Lab File: VN057158.D

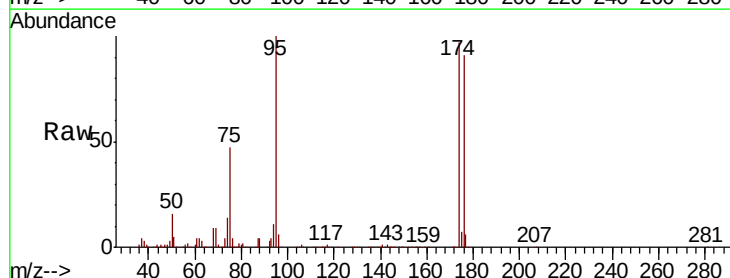
Acq: 9 Aug 2019 19:59

Tgt Ion: 75 Resp: 247476

Ion Ratio Lower Upper

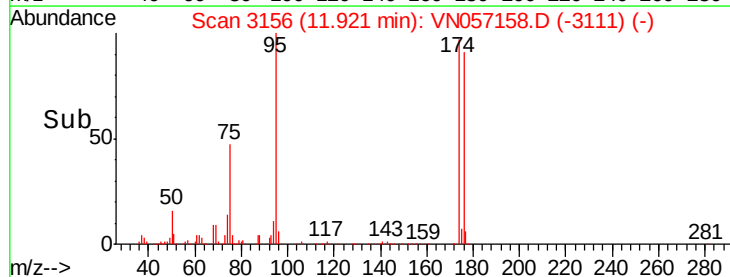
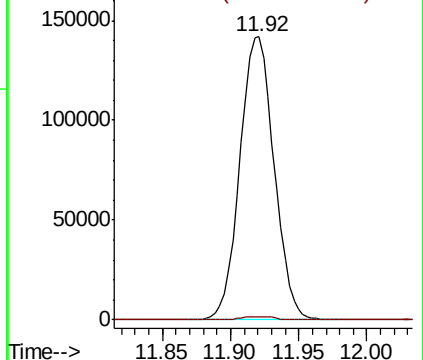
75 100

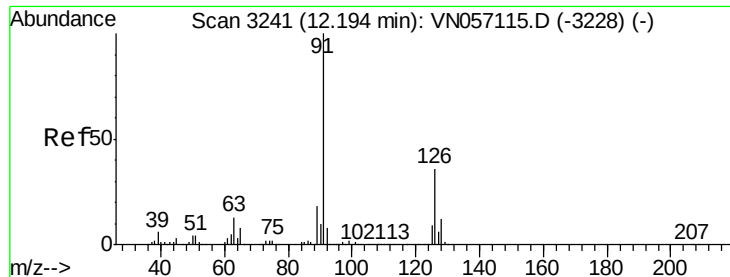
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

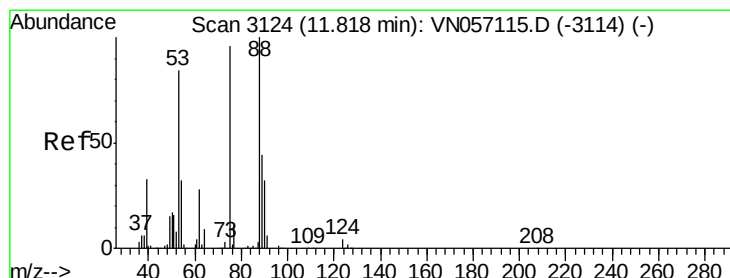
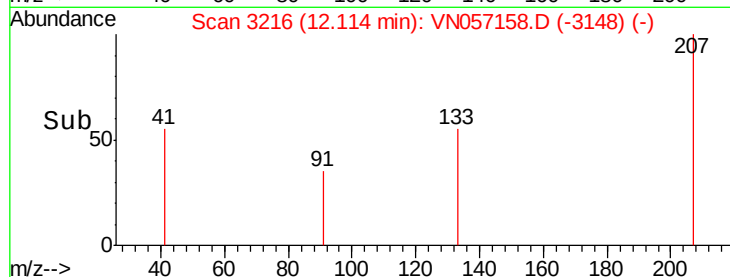
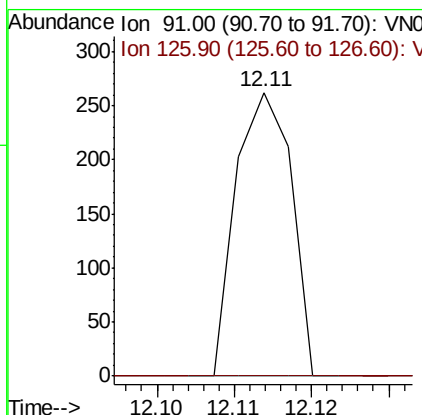
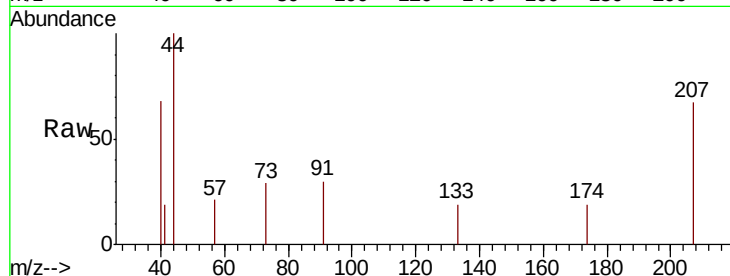




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.11 min Scan# 3216
 Delta R.T. -0.08 min
 Lab File: VN057158.D
 Acq: 9 Aug 2019 19:59

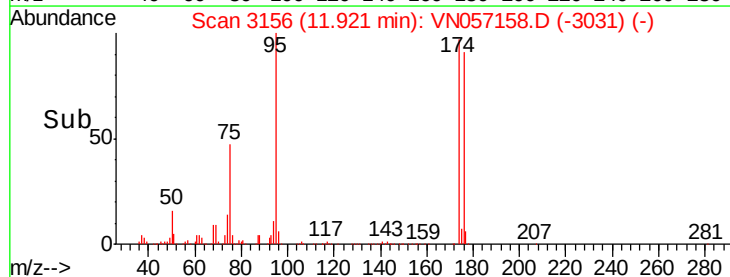
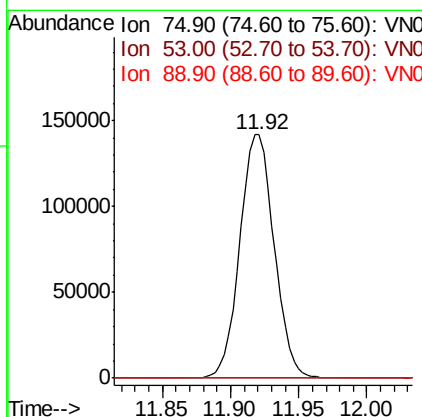
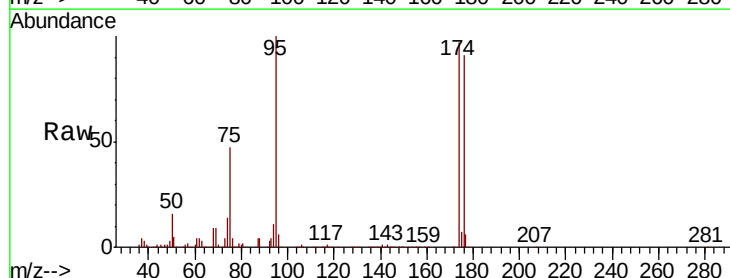
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819

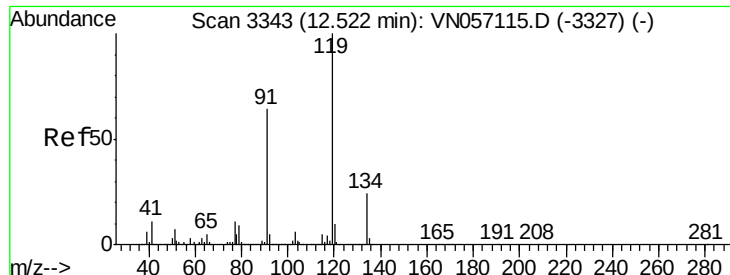
Tgt Ion: 91 Resp: 131
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 105.101 ug/l
 RT: 11.92 min Scan# 3156
 Delta R.T. 0.10 min
 Lab File: VN057158.D
 Acq: 9 Aug 2019 19:59

Tgt Ion: 75 Resp: 247476
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.6 106.0#
 89 0.0 36.4 54.6#





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.56 min Scan# 3354

Delta R.T. 0.04 min

Lab File: VN057158.D

Acq: 9 Aug 2019 19:59

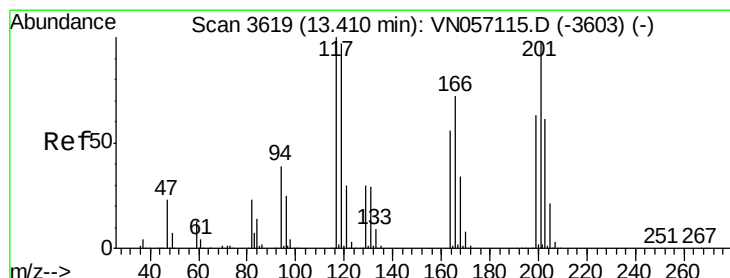
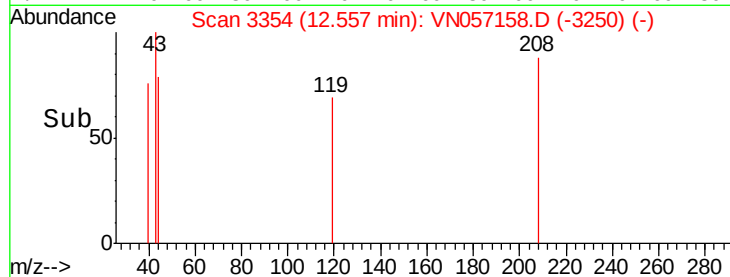
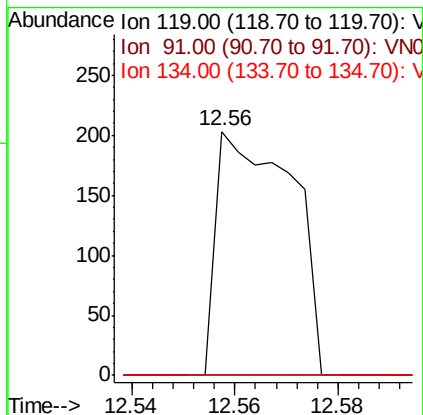
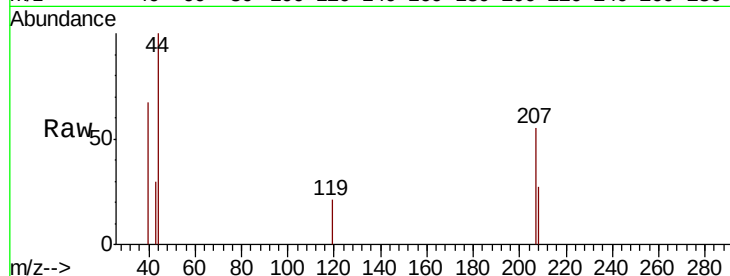
Instrument :

MSVOA_N

ClientSampled :

MW-4R 080819

Tgt Ion:	119	Resp:	205
Ion	Ratio	Lower	Upper
119	100		
91	0.0	31.4	94.2#
134	0.0	13.2	39.6#



#90

Hexachloroethane

Concen: Below Cal

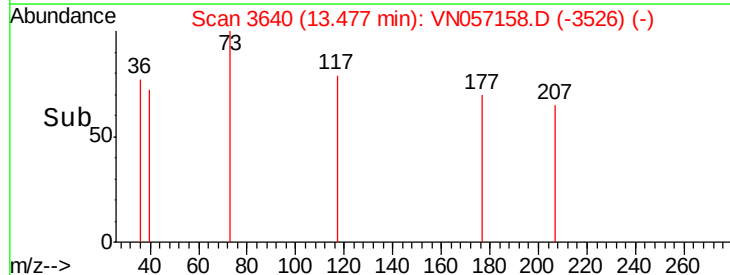
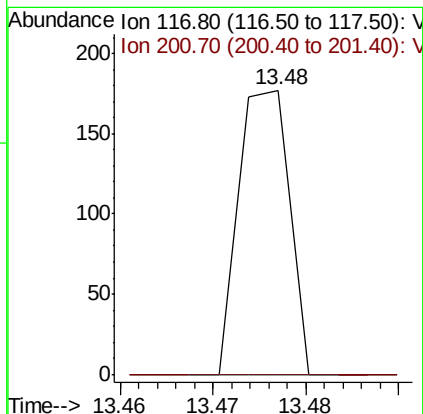
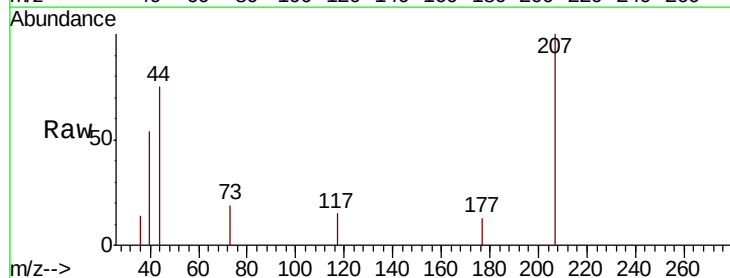
RT: 13.48 min Scan# 3640

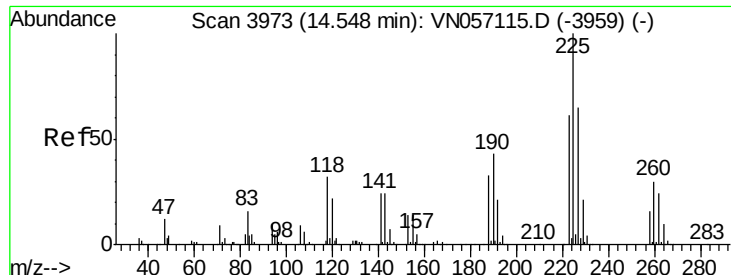
Delta R.T. 0.07 min

Lab File: VN057158.D

Acq: 9 Aug 2019 19:59

Tgt Ion:	117	Resp:	68
Ion	Ratio	Lower	Upper
117	100		
201	0.0	49.3	147.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 14.54 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VN057158.D

Acq: 9 Aug 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

MW-4R 080819

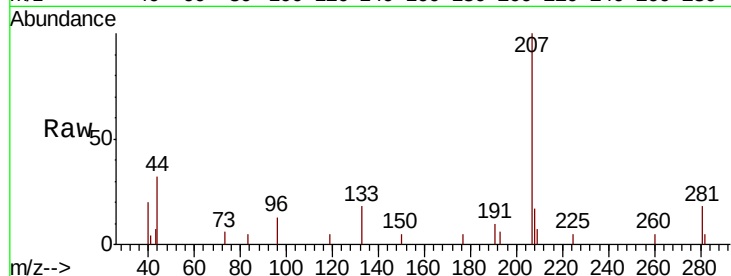
Tgt Ion:225 Resp: 62

Ion Ratio Lower Upper

225 100

223 0.0 30.9 92.8#

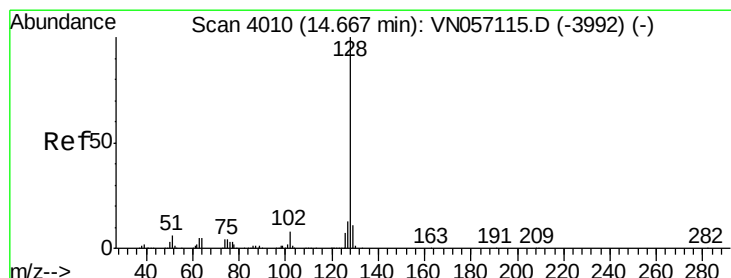
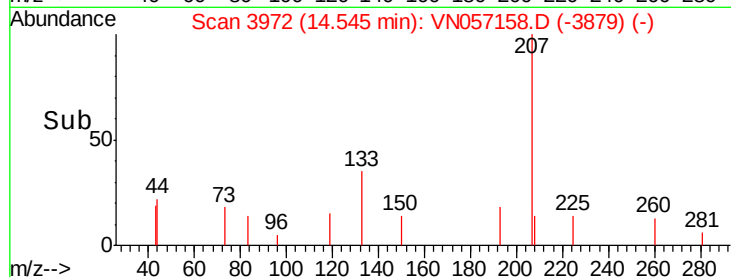
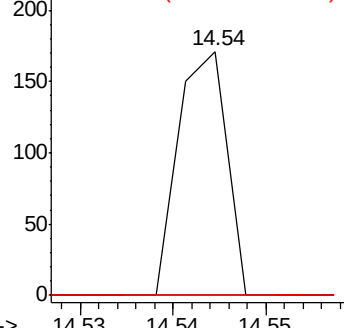
227 0.0 32.4 97.0#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.857 ug/l

RT: 14.66 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VN057158.D

Acq: 9 Aug 2019 19:59

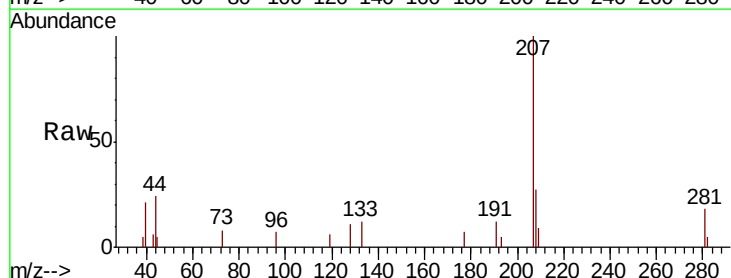
Tgt Ion:128 Resp: 490

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

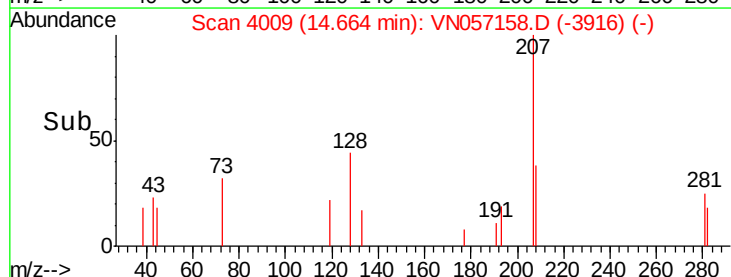
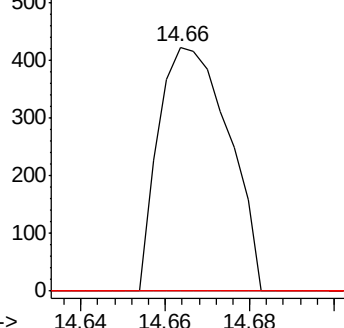
129 0.0 8.8 13.2#

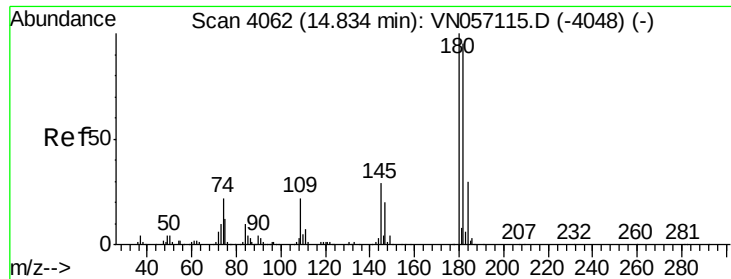


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

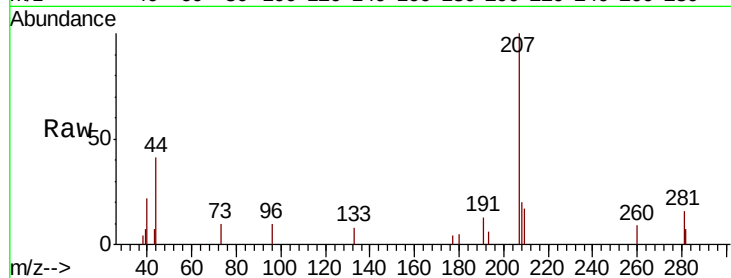




#96
 1,2,3-Trichlorobenzene
 Concen: 5.734 ug/l
 RT: 14.83 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VN057158.D
 Acq: 9 Aug 2019 19:59

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.3	144.8#
145	0.0	14.9	44.5#



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

