

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057139.D
 Acq On : 9 Aug 2019 12:11
 Operator : JC/SP
 Sample : K4262-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB_080819

Quant Time: Aug 10 02:10:23 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

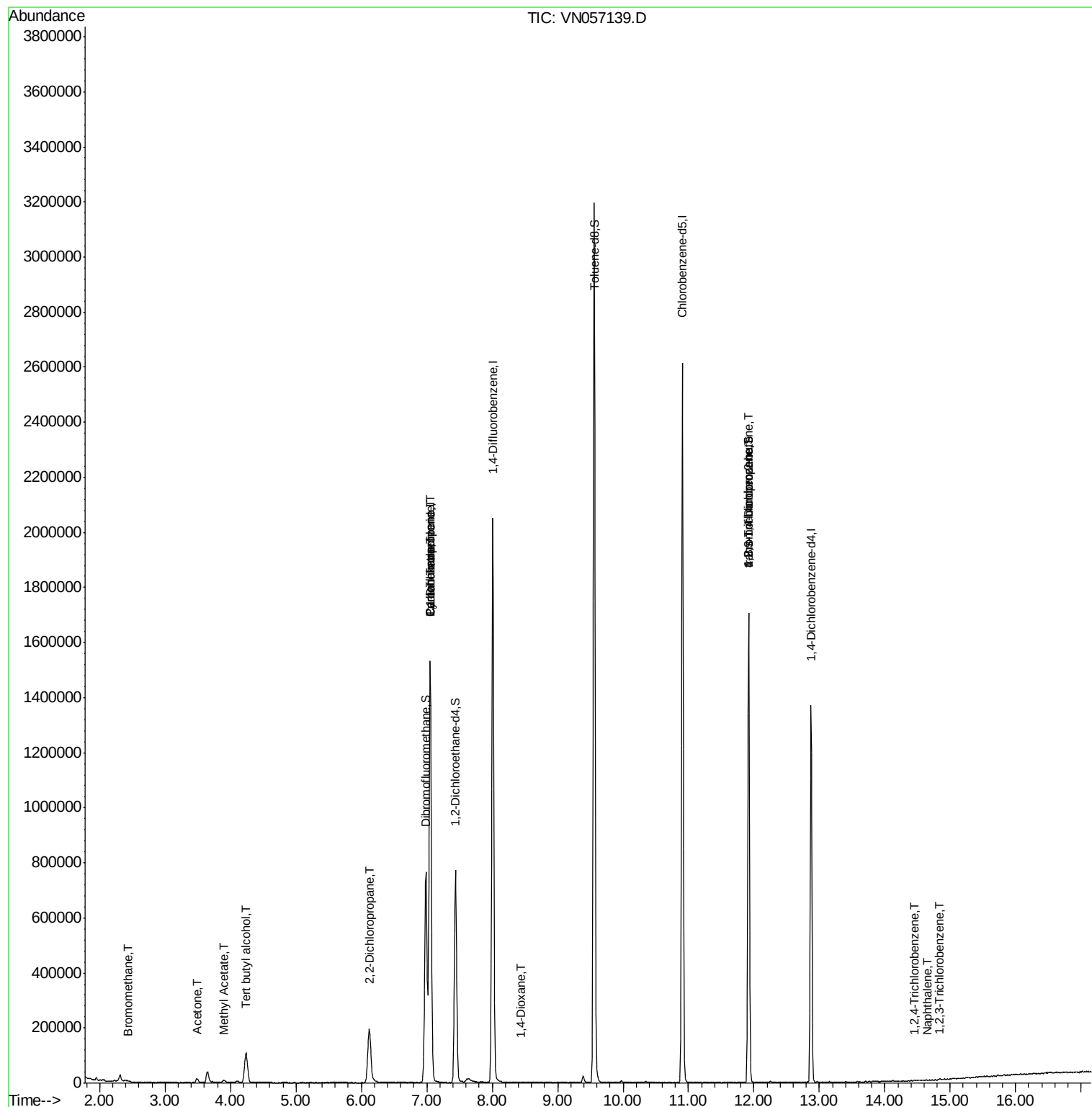
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1469233	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	2055602	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1687614	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.87	152	404714	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	674770	44.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.32%	
35) Dibromofluoromethane	6.99	113	623586	48.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.68%	
50) Toluene-d8	9.56	98	2363292	47.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.78%	
62) 4-Bromofluorobenzene	11.92	95	613594	38.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.18%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.45	94	2013	0.203	ug/l #	56
11) Tert butyl alcohol	4.24	59	91489	42.549	ug/l #	75
16) Acetone	3.49	43	18581	4.072	ug/l	93
18) Methyl Acetate	3.90	43	16167	0.539	ug/l #	72
26) 2,2-Dichloropropane	6.12	77	16441	0.928	ug/l #	51
31) Cyclohexane	7.05	56	20398	0.931	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	90207	5.330	ug/l #	47
38) Carbon Tetrachloride	7.05	117	122951	6.971	ug/l #	16
49) 1,4-Dioxane	8.43	88	67	0.293	ug/l #	27
73) Isopropylbenzene	11.78	105	629	Below Cal		82
75) 1,1,2,2-Tetrachloroethane	12.02	83	29	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.92	75	279754	34.497	ug/l #	100
79) 2-Chlorotoluene	12.20	91	583	Below Cal		78
81) trans-1,4-Dichloro-2-buten	11.92	75	279754	101.636	ug/l #	14
83) tert-Butylbenzene	12.52	119	408	Below Cal	#	78
93) 1,2,4-Trichlorobenzene	14.45	180	520	6.008	ug/l #	28
94) Hexachlorobutadiene	14.55	225	187	Below Cal		77
95) Naphthalene	14.67	128	1157	2.913	ug/l #	73
96) 1,2,3-Trichlorobenzene	14.84	180	1402	5.926	ug/l	74

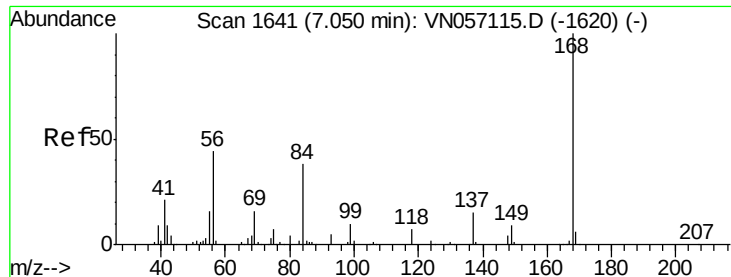
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057139.D

Acq: 9 Aug 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

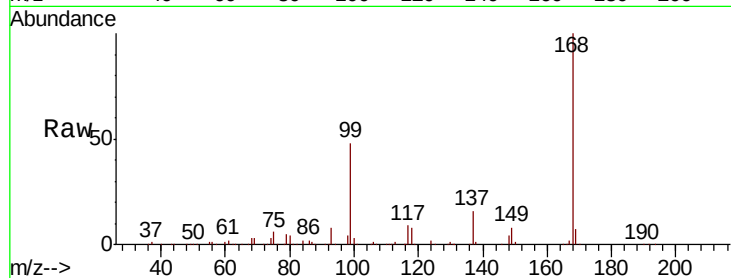
FB_080819

Tgt Ion:168 Resp: 1469233

Ion Ratio Lower Upper

168 100

99 47.9 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.05

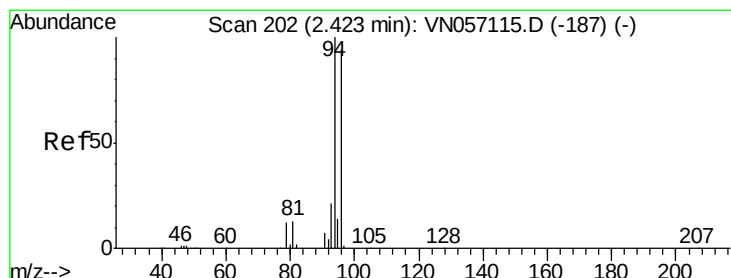
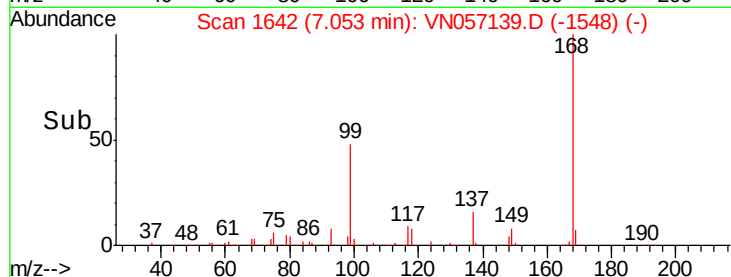
600000

400000

200000

0

Time--> 6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 0.203 ug/l

RT: 2.45 min Scan# 209

Delta R.T. 0.02 min

Lab File: VN057139.D

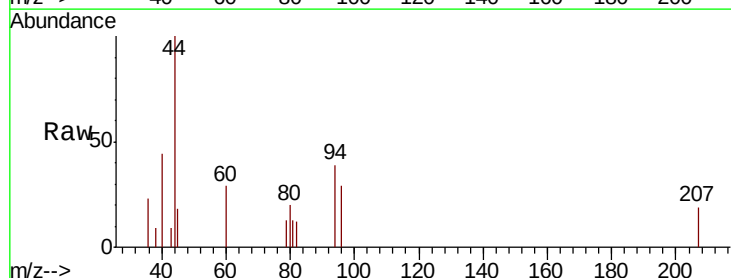
Acq: 9 Aug 2019 12:11

Tgt Ion: 94 Resp: 2013

Ion Ratio Lower Upper

94 100

96 51.6 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.45

800

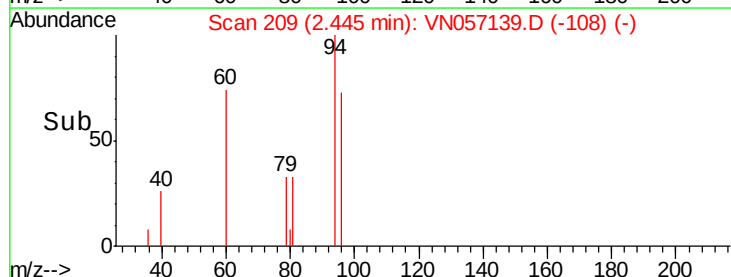
600

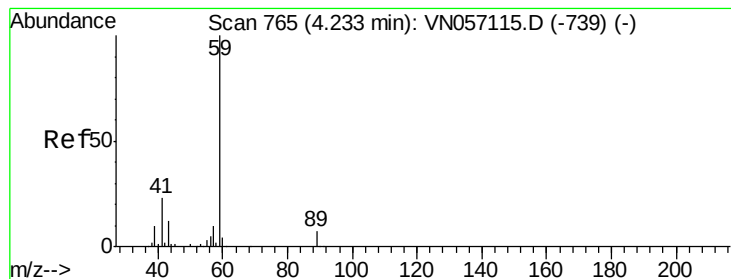
400

200

0

Time--> 2.40 2.45 2.50





#11

Tert butyl alcohol

Concen: 42.549 ug/l

RT: 4.24 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

Instrument :

MSVOA_N

ClientSampled :

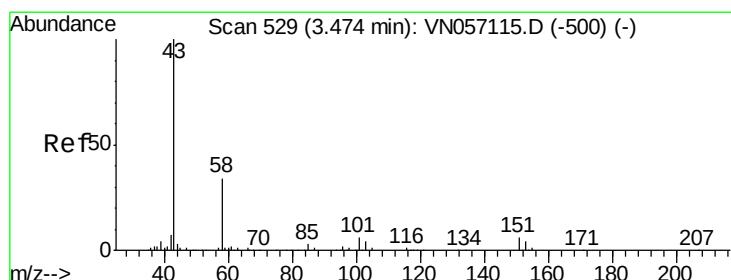
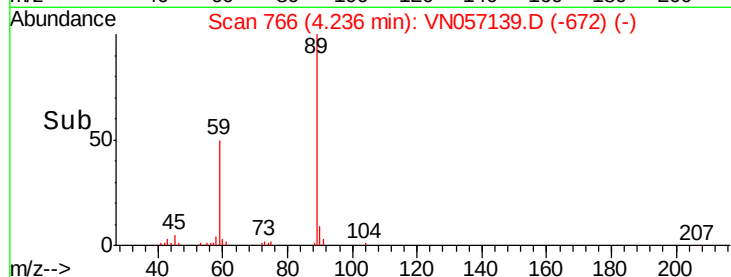
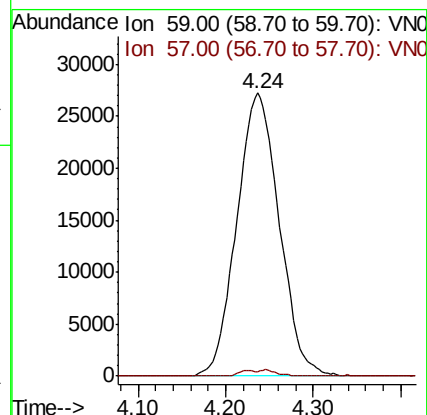
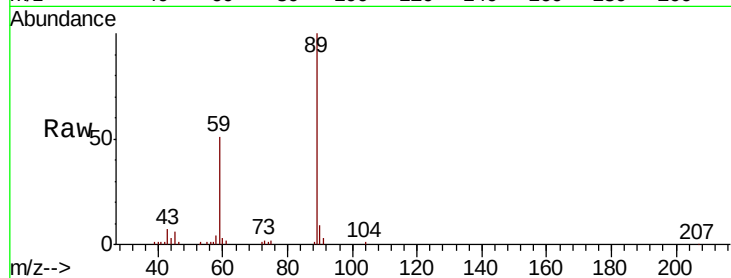
FB_080819

Tgt Ion: 59 Resp: 91489

Ion Ratio Lower Upper

59 100

57 0.7 7.9 11.9#



#16

Acetone

Concen: 4.072 ug/l

RT: 3.49 min Scan# 533

Delta R.T. 0.01 min

Lab File: VN057139.D

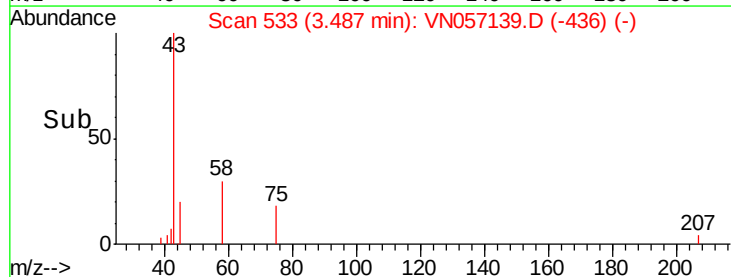
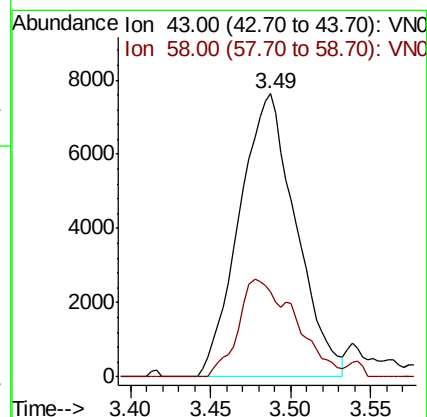
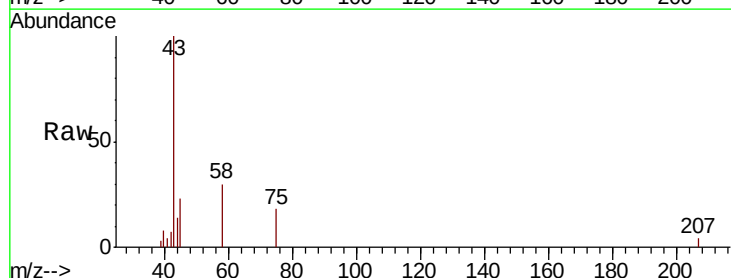
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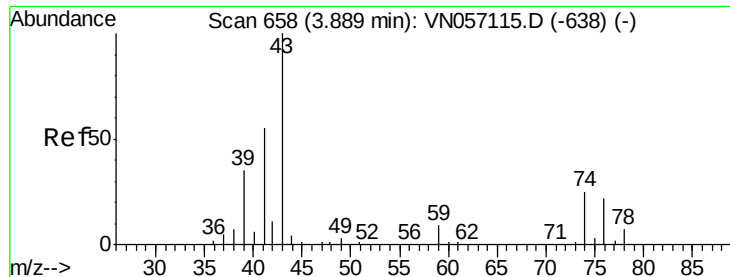
Tgt Ion: 43 Resp: 18581

Ion Ratio Lower Upper

43 100

58 30.2 27.4 41.2

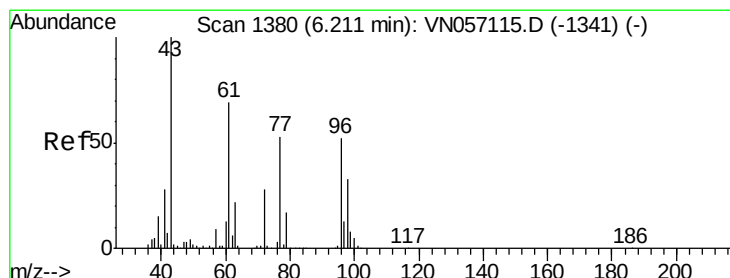
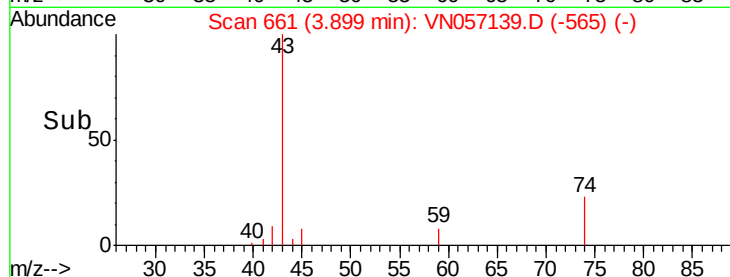
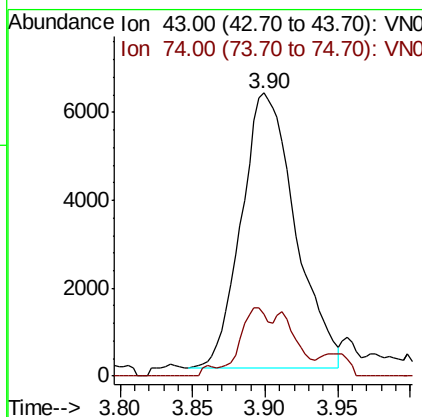
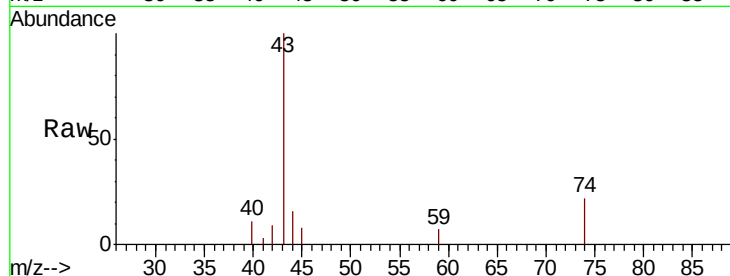




#18
Methyl Acetate
Concen: 0.539 ug/l
RT: 3.90 min Scan# 661
Delta R.T. 0.01 min
Lab File: VN057139.D
Acq: 9 Aug 2019 12:11

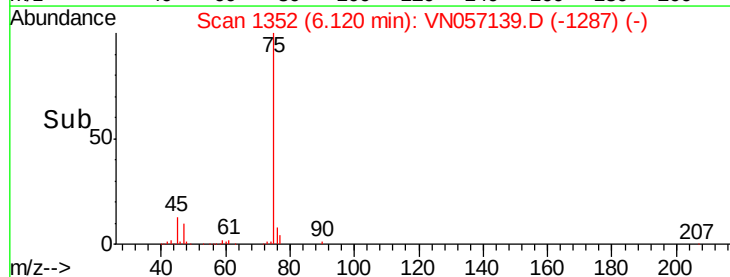
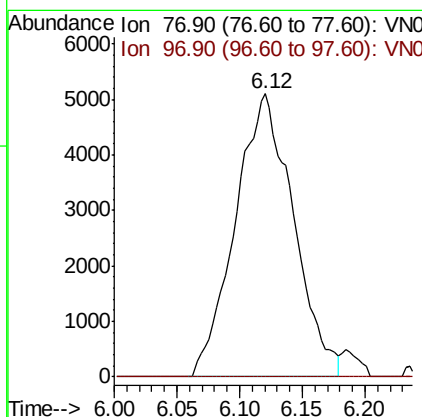
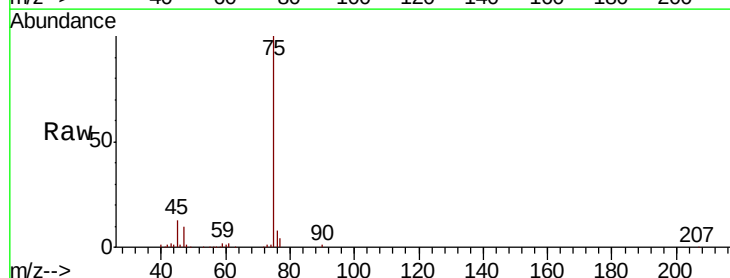
Instrument :
MSVOA_N
ClientSampleId :
FB_080819

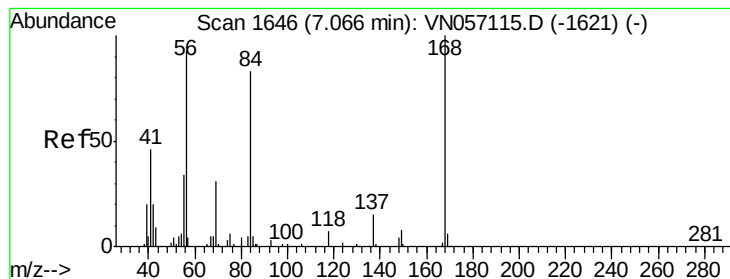
Tgt Ion: 43 Resp: 16167
Ion Ratio Lower Upper
43 100
74 11.4 20.2 30.4#



#26
2,2-Dichloropropane
Concen: 0.928 ug/l
RT: 6.12 min Scan# 1352
Delta R.T. -0.09 min
Lab File: VN057139.D
Acq: 9 Aug 2019 12:11

Tgt Ion: 77 Resp: 16441
Ion Ratio Lower Upper
77 100
97 0.0 12.3 36.8#





#31

Cyclohexane

Concen: 0.931 ug/l

RT: 7.05 min Scan# 1640

Delta R.T. -0.02 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

Instrument :

MSVOA_N

ClientSampled :

FB_080819

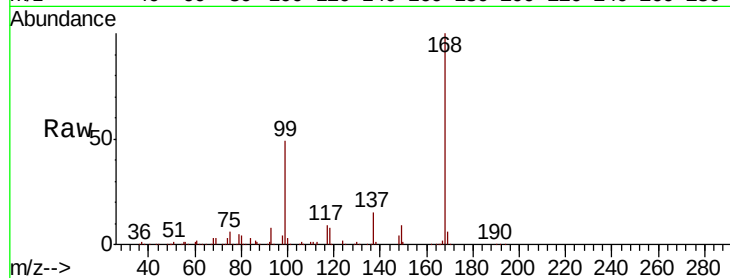
Tgt Ion: 56 Resp: 20398

Ion Ratio Lower Upper

56 100

69 224.9 26.9 40.3#

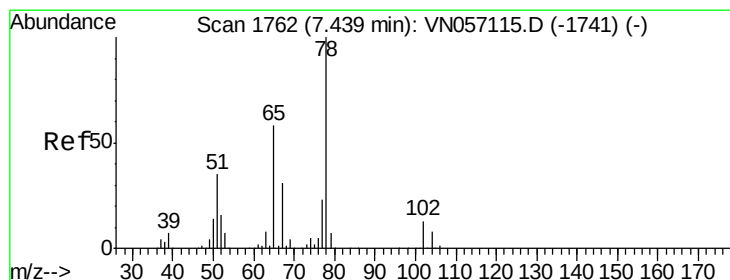
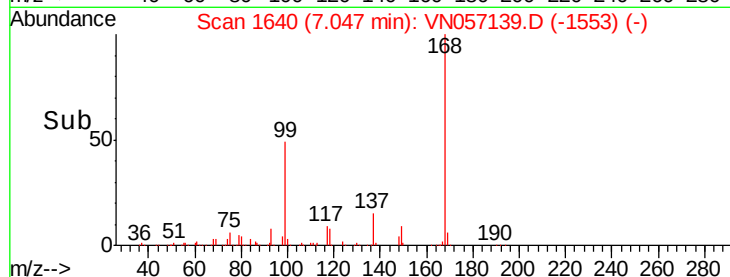
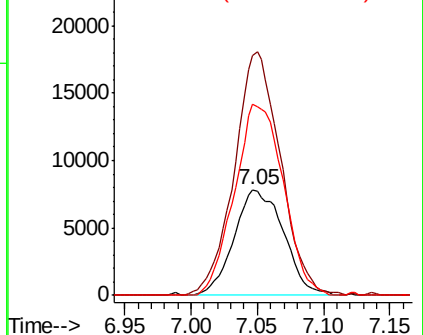
84 181.1 71.9 107.9#



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: 44.657 ug/l

RT: 7.44 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VN057139.D

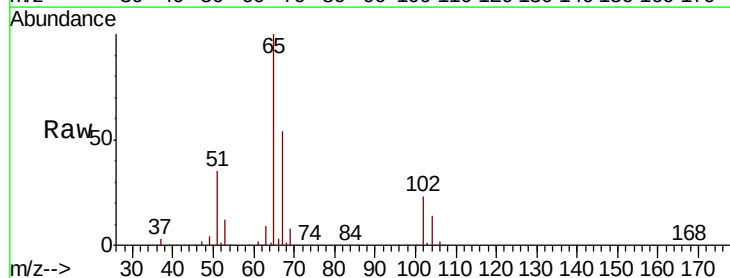
Acq: 9 Aug 2019 12:11

Tgt Ion: 65 Resp: 674770

Ion Ratio Lower Upper

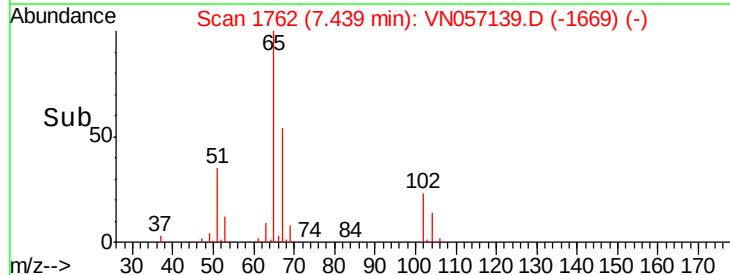
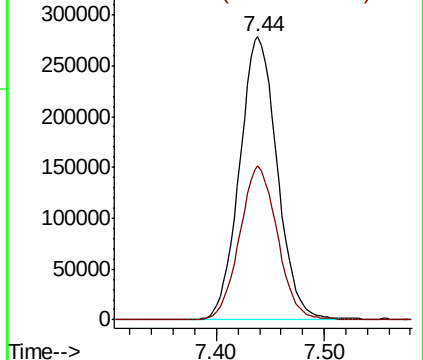
65 100

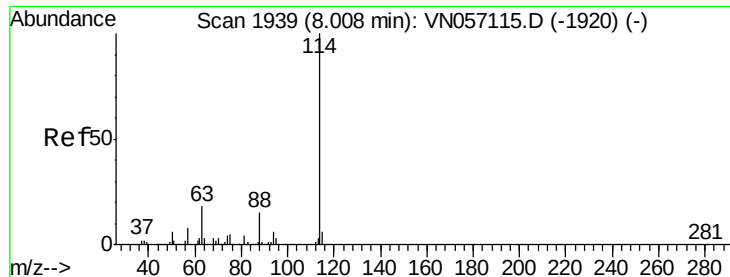
67 54.5 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



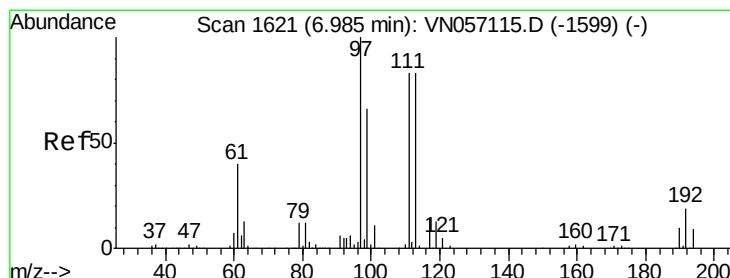
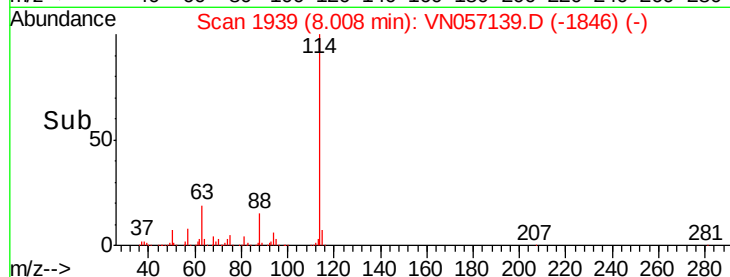
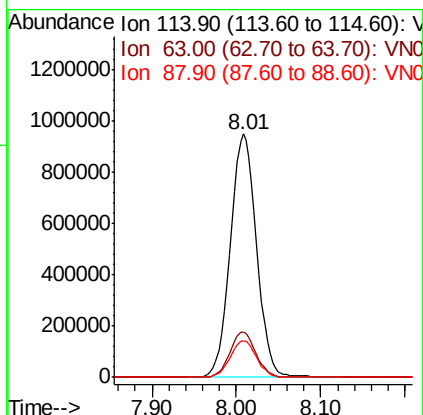
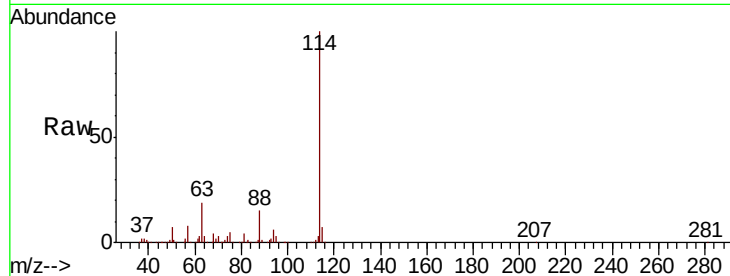


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057139.D
 Acq: 9 Aug 2019 12:11

Instrument :
 MSVOA_N
 ClientSampleId :
 FB_080819

Tgt Ion:114 Resp: 2055602

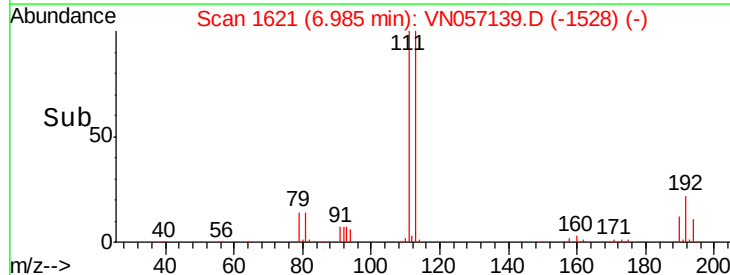
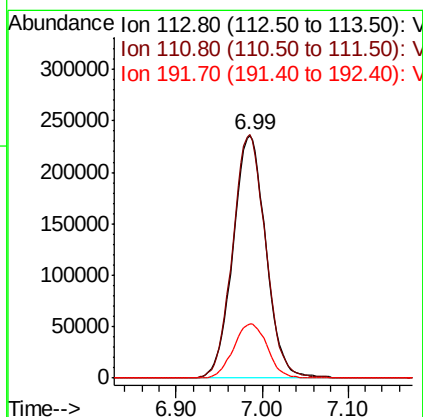
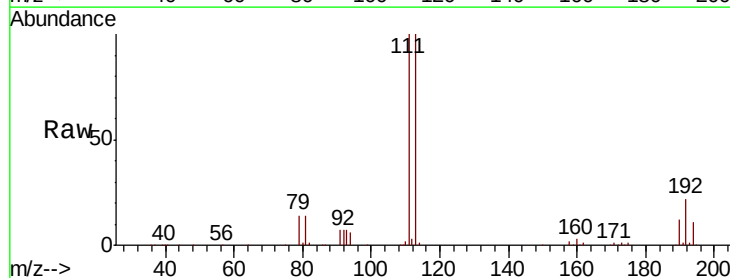
Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	36.2
88	15.1	0.0	30.0

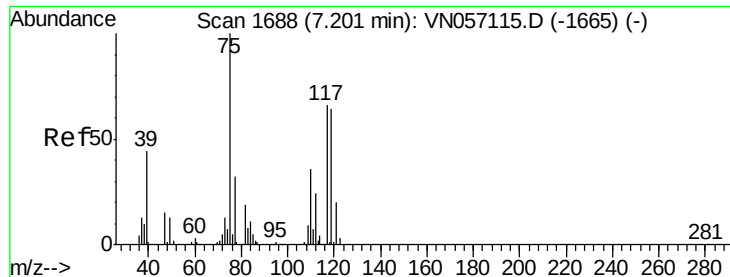


#35
 Dibromofluoromethane
 Concen: 48.343 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057139.D
 Acq: 9 Aug 2019 12:11

Tgt Ion:113 Resp: 623586

Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.3	121.9
192	23.0	19.0	28.4

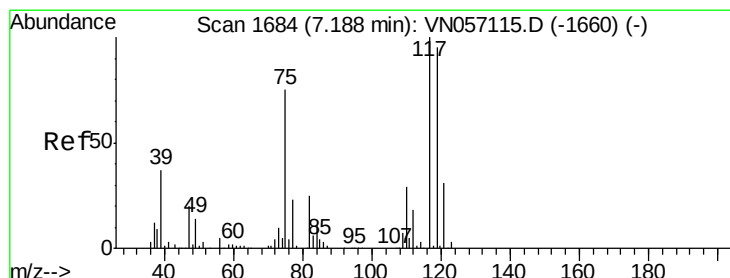
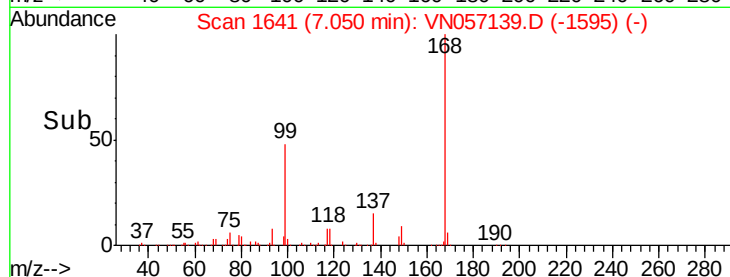
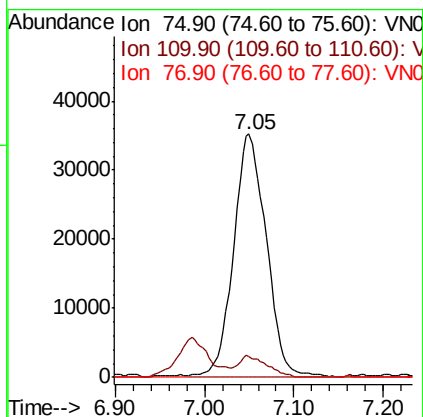
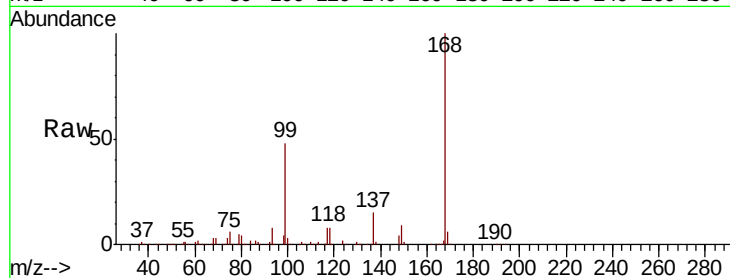




#36
 1,1-Dichloropropene
 Concen: 5.330 ug/l
 RT: 7.05 min Scan# 1641
 Delta R.T. -0.15 min
 Lab File: VN057139.D
 Acq: 9 Aug 2019 12:11

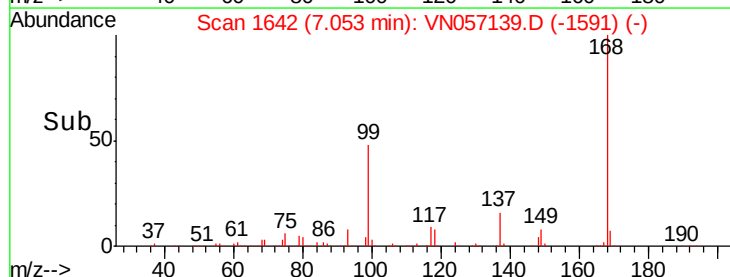
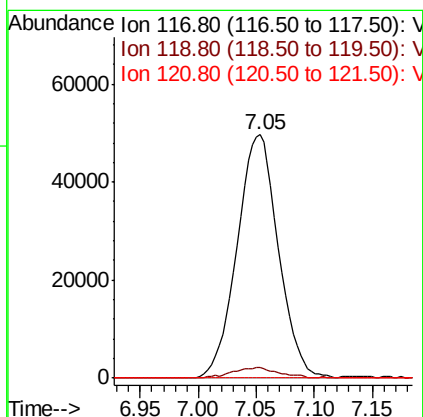
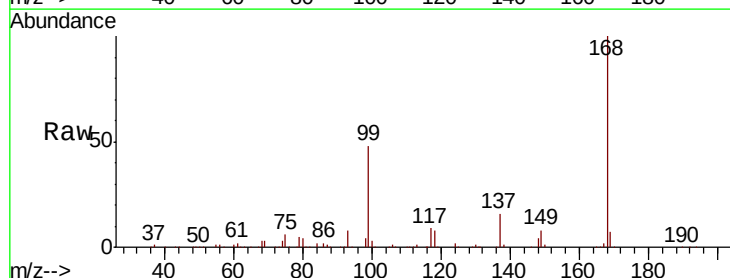
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 MSVOA_N
 ClientSampled :
 FB_080819

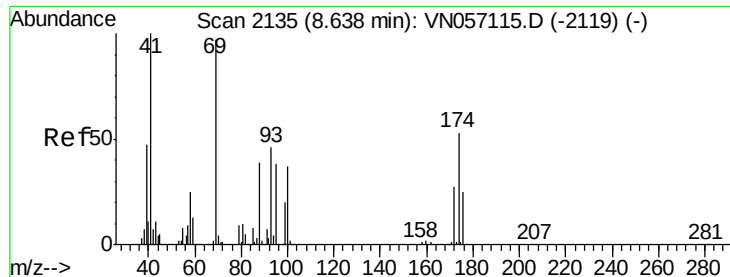
Tgt Ion: 75 Resp: 90207
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.7 56.1#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.971 ug/l
 RT: 7.05 min Scan# 1642
 Delta R.T. -0.14 min
 Lab File: VN057139.D
 Acq: 9 Aug 2019 12:11

Tgt Ion: 117 Resp: 122951
 Ion Ratio Lower Upper
 117 100
 119 4.3 75.8 113.6#
 121 0.0 24.4 36.6#

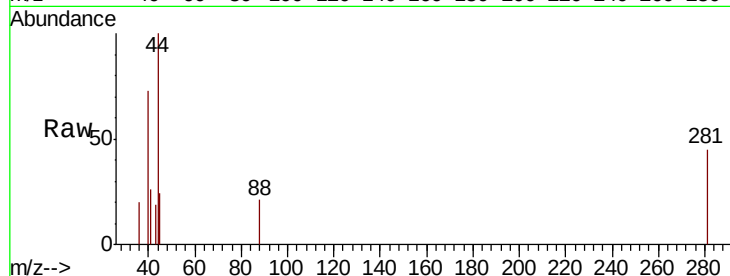




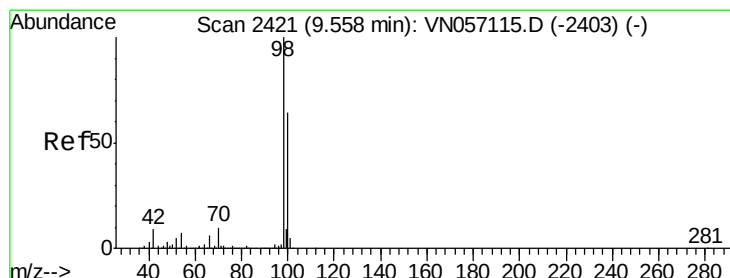
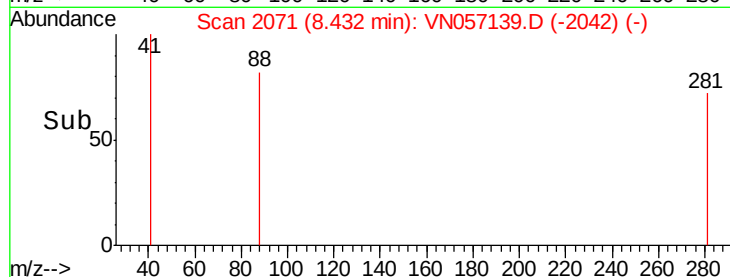
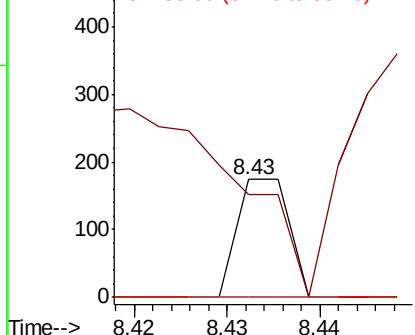
#49
1,4-Dioxane
Concen: 0.293 ug/l
RT: 8.43 min Scan# 2071
Delta R.T. -0.21 min
Lab File: VN057139.D
Acq: 9 Aug 2019 12:11

Instrument :
MSVOA_N
ClientSampleId :
FB_080819

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 0.0 21.7 32.5#
58 0.0 51.1 76.7#

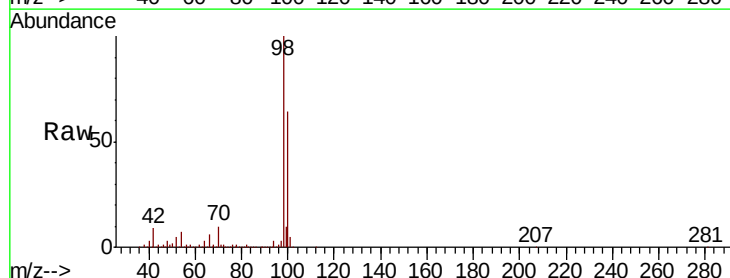


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

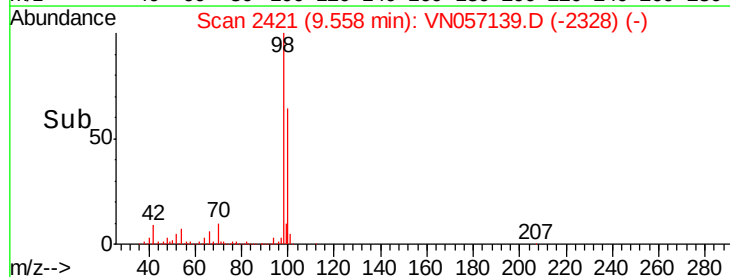
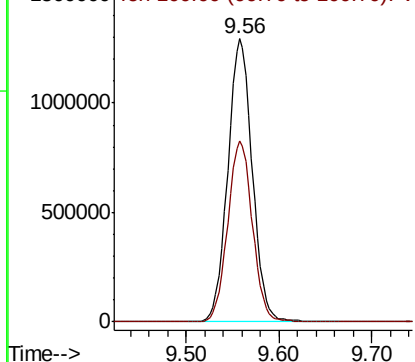


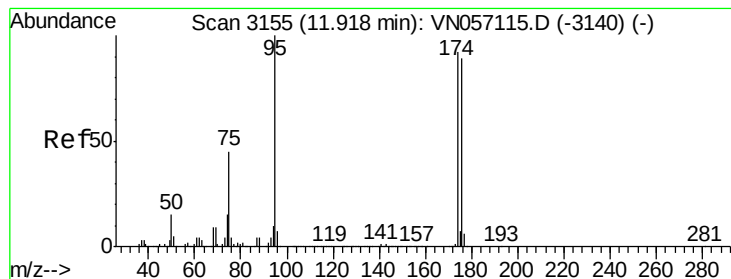
#50
Toluene-d8
Concen: 47.888 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. -0.00 min
Lab File: VN057139.D
Acq: 9 Aug 2019 12:11

Tgt Ion: 98 Resp: 2363292
Ion Ratio Lower Upper
98 100
100 64.6 51.2 76.8



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





#62

4-Bromofluorobenzene

Concen: 38.588 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. -0.00 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

FB_080819

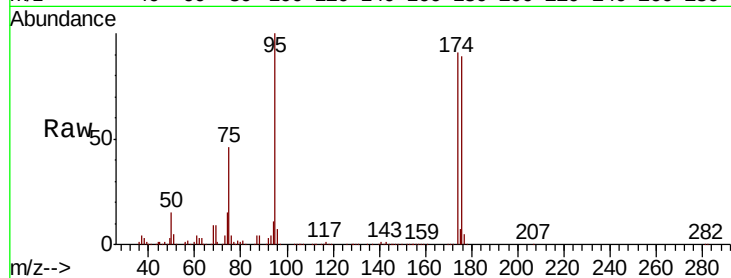
Tgt Ion: 95 Resp: 613594

Ion Ratio Lower Upper

95 100

174 94.0 0.0 185.0

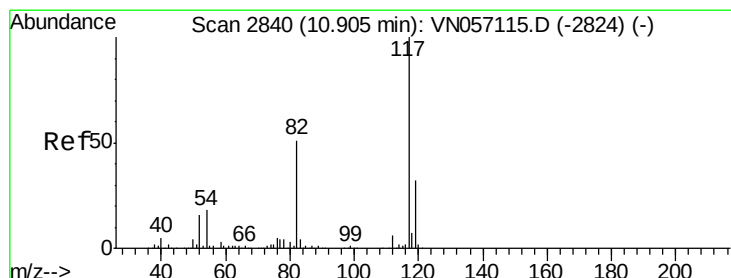
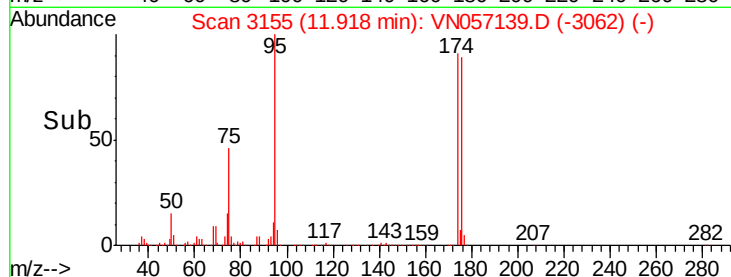
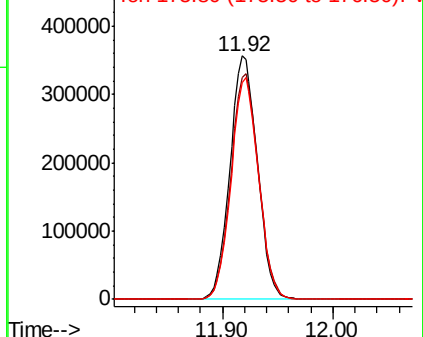
176 90.9 0.0 181.2



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.91 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

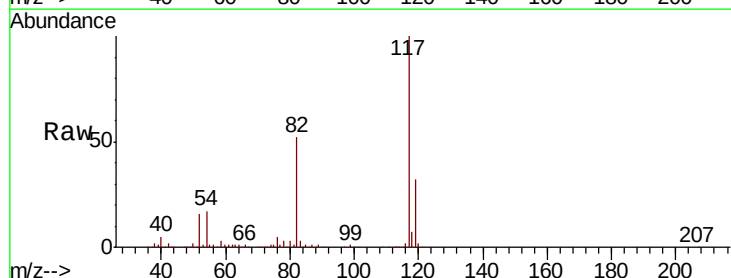
Tgt Ion: 117 Resp: 1687614

Ion Ratio Lower Upper

117 100

82 51.6 40.8 61.2

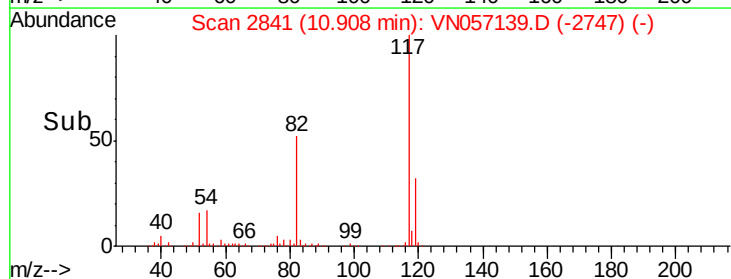
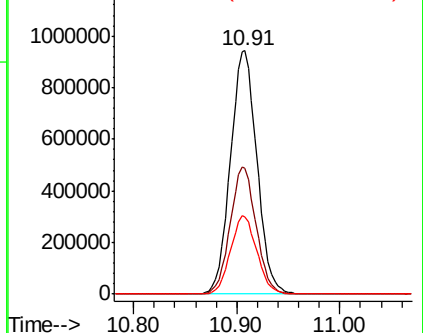
119 31.9 25.7 38.5

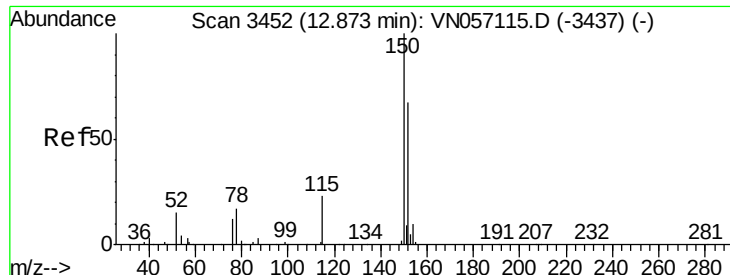


Abundance Ion 116.90 (116.60 to 117.60): VN057115.D (-2824) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.87 min Scan# 3452

Delta R.T. -0.00 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

FB_080819

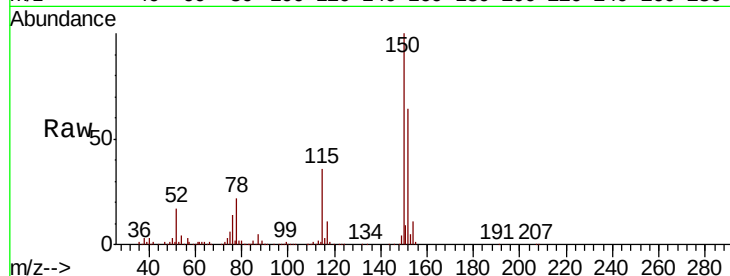
Tgt Ion:152 Resp: 404714

Ion Ratio Lower Upper

152 100

115 55.5 27.5 82.5

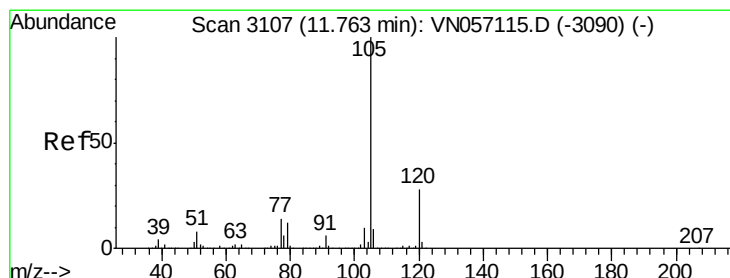
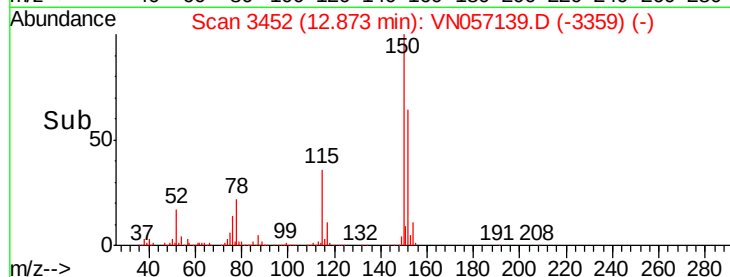
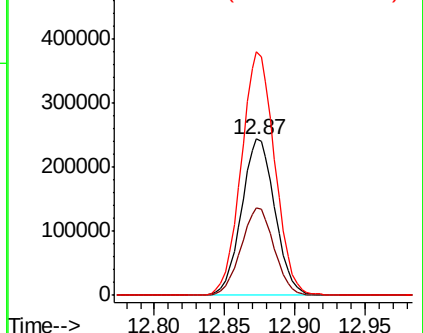
150 156.4 0.0 341.6



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: 11.78 min Scan# 3111

Delta R.T. 0.01 min

Lab File: VN057139.D

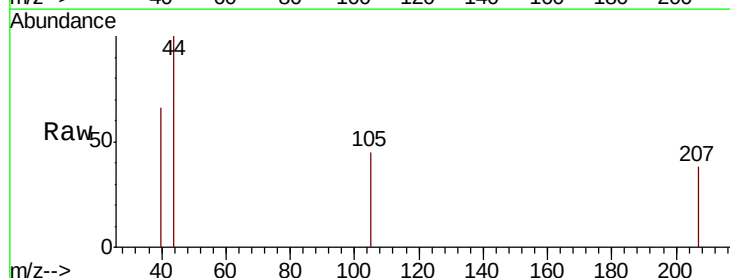
Acq: 9 Aug 2019 12:11

Tgt Ion:105 Resp: 629

Ion Ratio Lower Upper

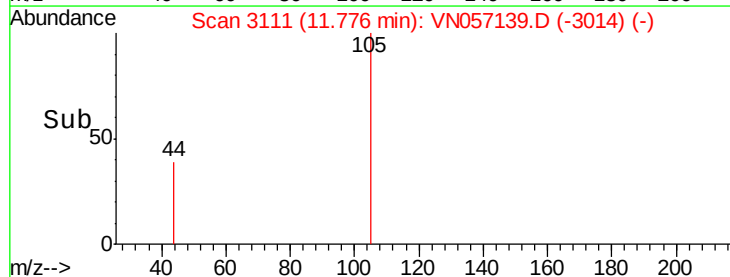
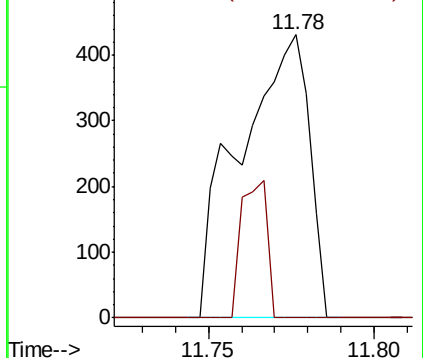
105 100

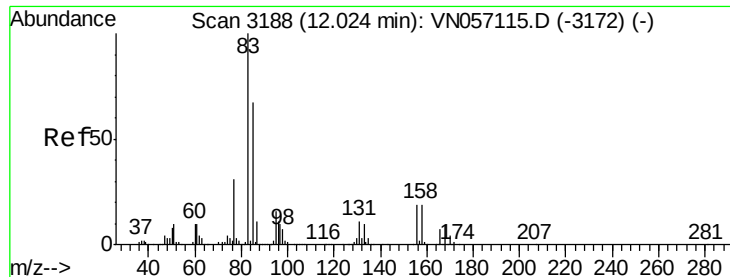
120 18.0 13.7 41.0



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: 12.02 min Scan# 3186

Delta R.T. -0.01 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

FB_080819

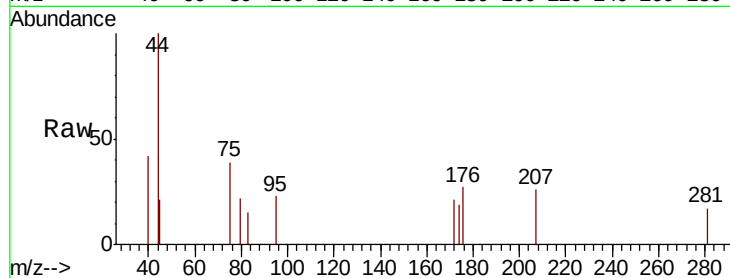
Tgt Ion: 83 Resp: 29

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

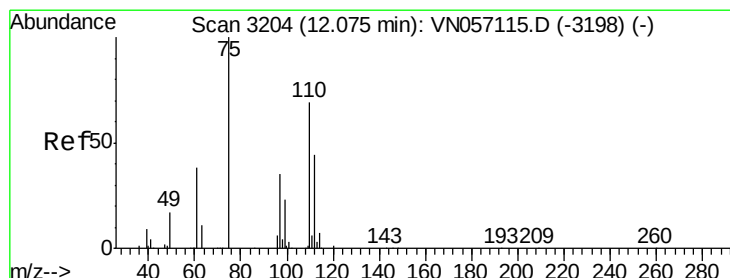
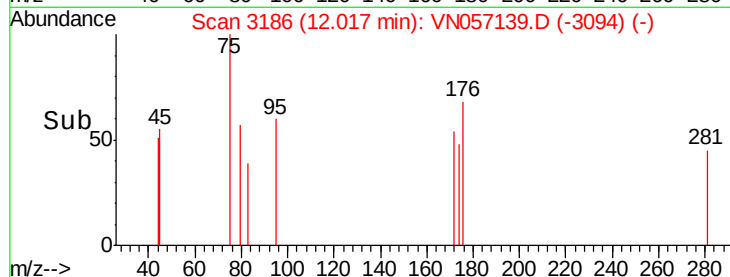
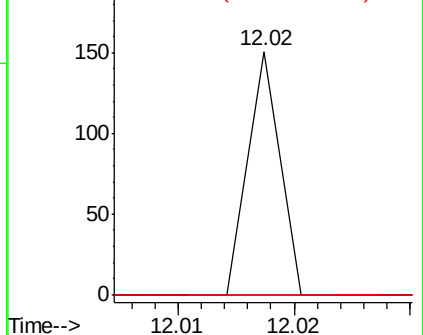
85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 34.497 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. -0.16 min

Lab File: VN057139.D

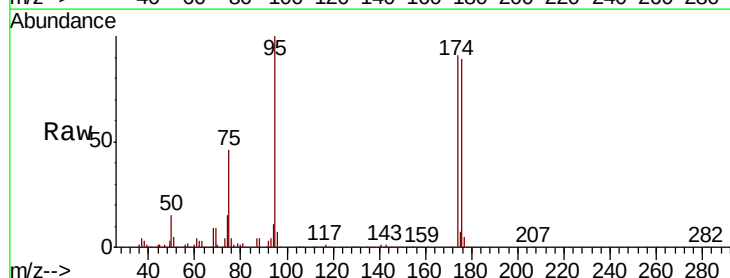
Acq: 9 Aug 2019 12:11

Tgt Ion: 75 Resp: 279754

Ion Ratio Lower Upper

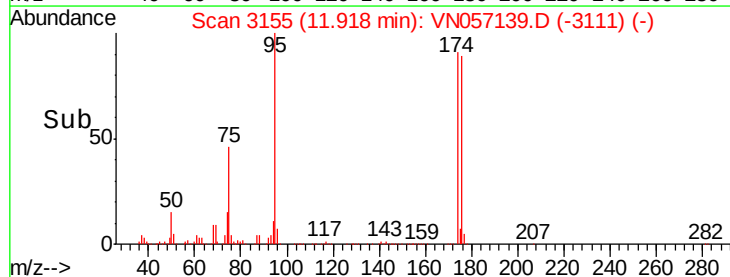
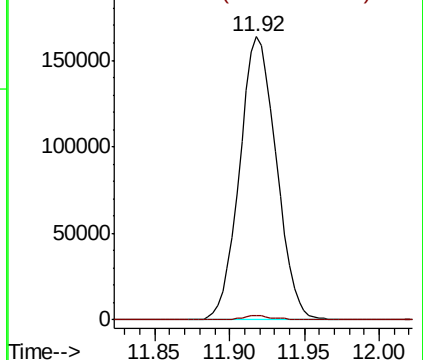
75 100

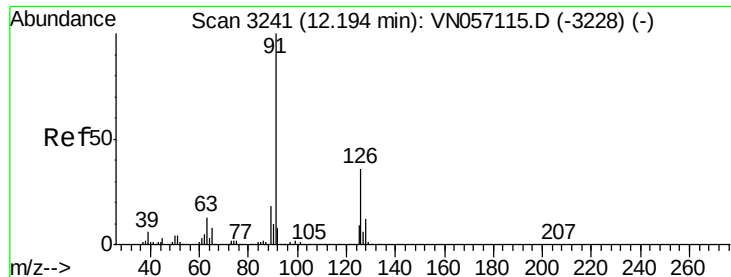
77 1.4 0.0 0.0#



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: 12.20 min Scan# 3244

Delta R.T. 0.01 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

Instrument :

MSVOA_N

ClientSampled :

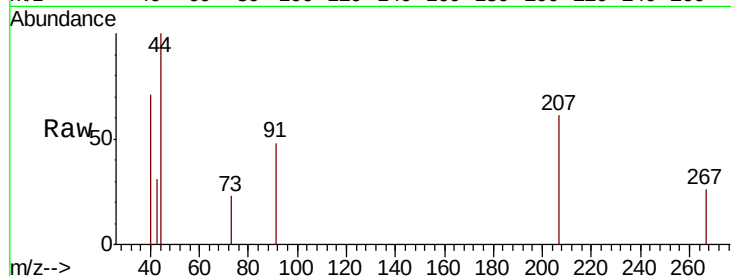
FB_080819

Tgt Ion: 91 Resp: 583

Ion Ratio Lower Upper

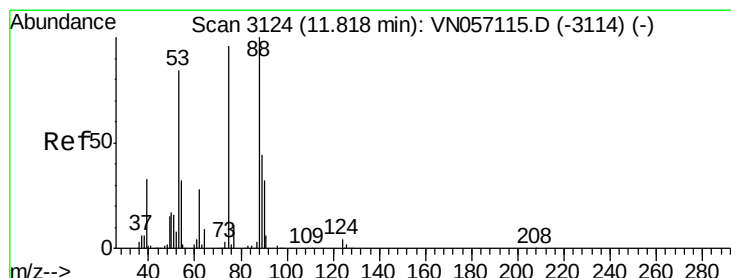
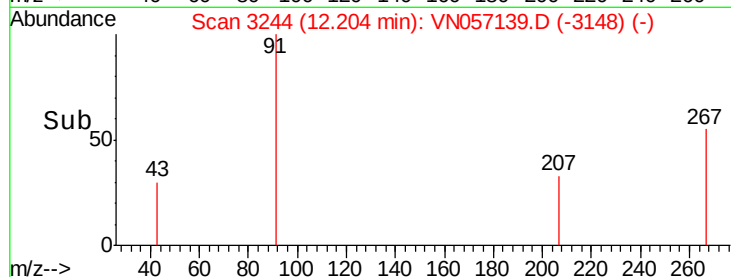
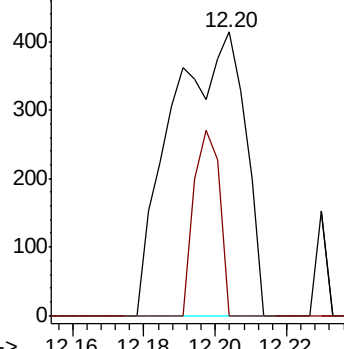
91 100

126 23.2 18.1 54.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): VN



#81

trans-1,4-Dichloro-2-butene

Concen: 101.636 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. 0.10 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

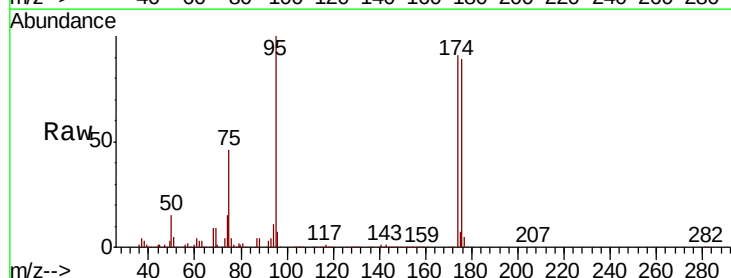
Tgt Ion: 75 Resp: 279754

Ion Ratio Lower Upper

75 100

53 0.0 70.6 106.0#

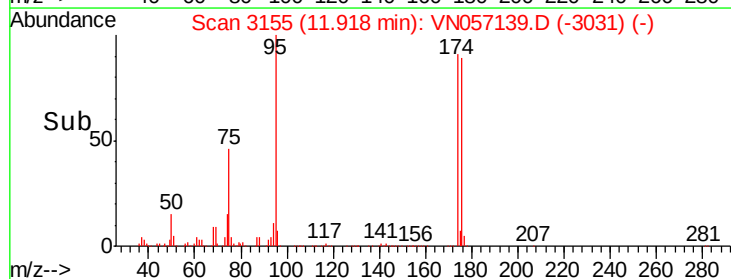
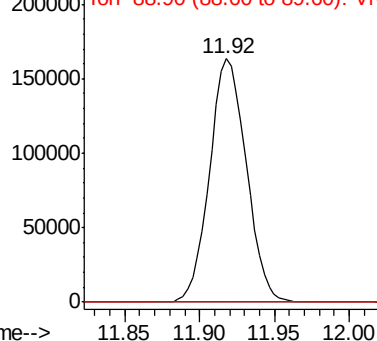
89 0.0 36.4 54.6#

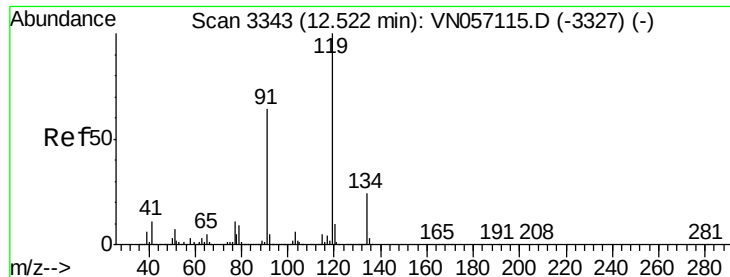


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

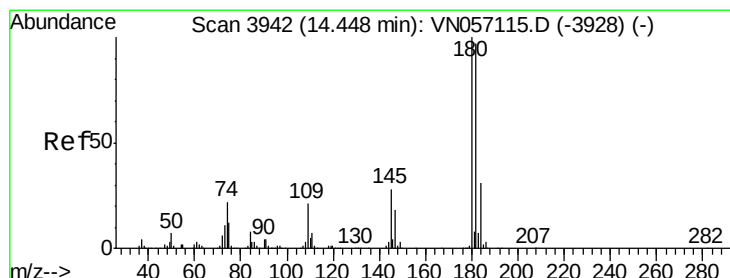
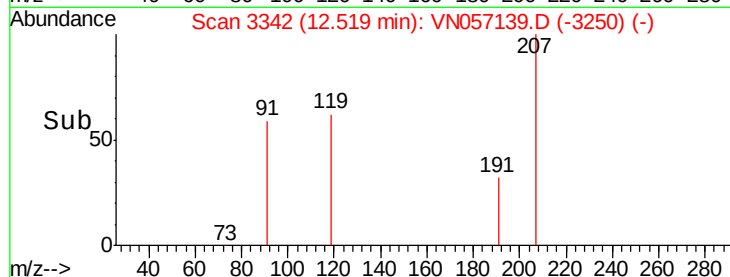
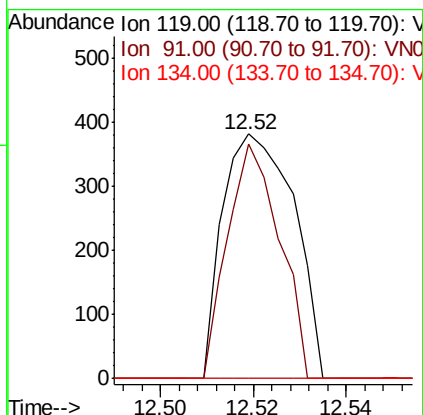
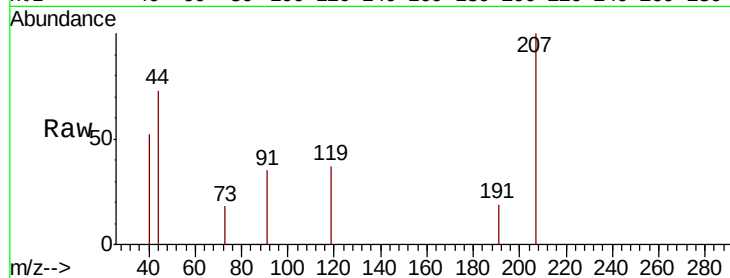




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.52 min Scan# 3342
 Delta R.T. -0.00 min
 Lab File: VN057139.D
 Acq: 9 Aug 2019 12:11

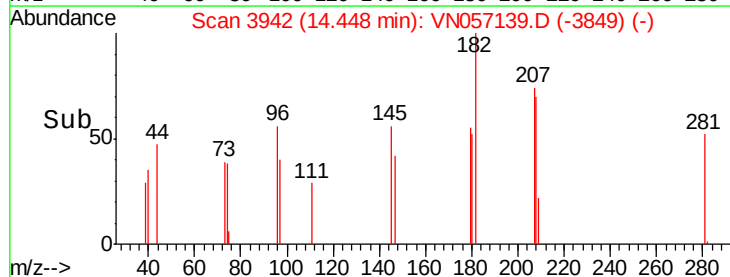
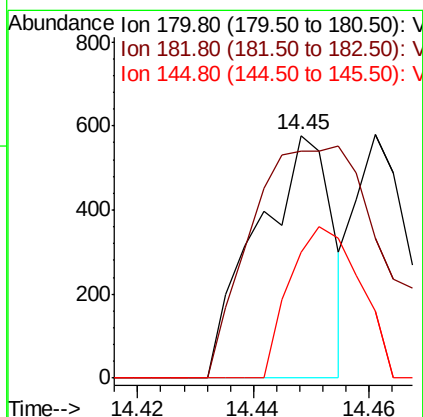
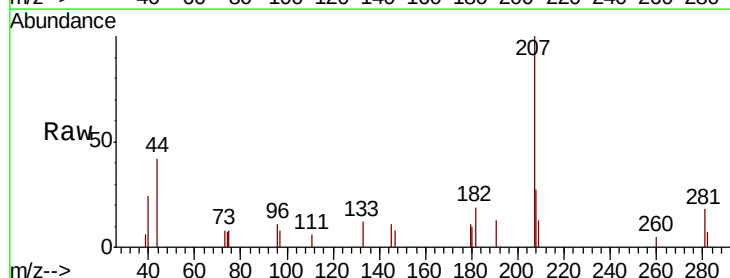
Instrument :
 MSVOA_N
 ClientSampled :
 FB_080819

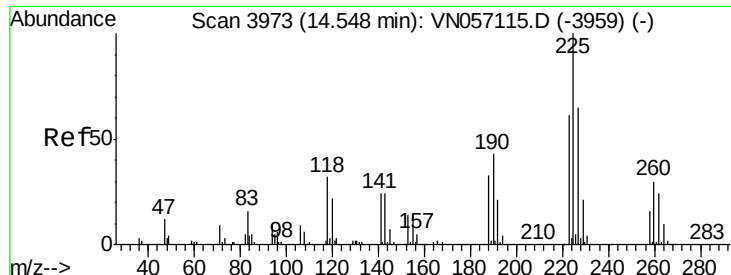
Tgt Ion:119 Resp: 408
 Ion Ratio Lower Upper
 119 100
 91 69.9 31.4 94.2
 134 0.0 13.2 39.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 6.008 ug/l
 RT: 14.45 min Scan# 3942
 Delta R.T. 0.00 min
 Lab File: VN057139.D
 Acq: 9 Aug 2019 12:11

Tgt Ion:180 Resp: 520
 Ion Ratio Lower Upper
 180 100
 182 169.6 47.5 142.6#
 145 58.8 14.1 42.2#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 14.55 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

Instrument :

MSVOA_N

ClientSampled :

FB_080819

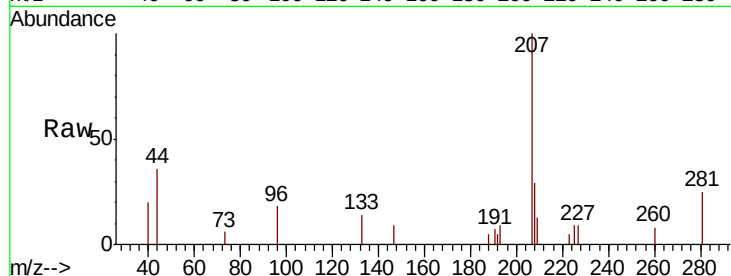
Tgt Ion:225 Resp: 187

Ion Ratio Lower Upper

225 100

223 89.3 30.9 92.8

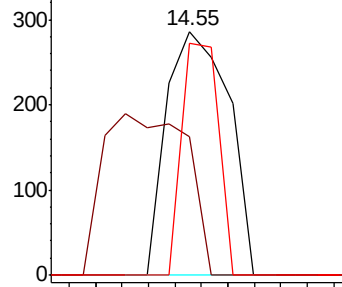
227 55.6 32.4 97.0



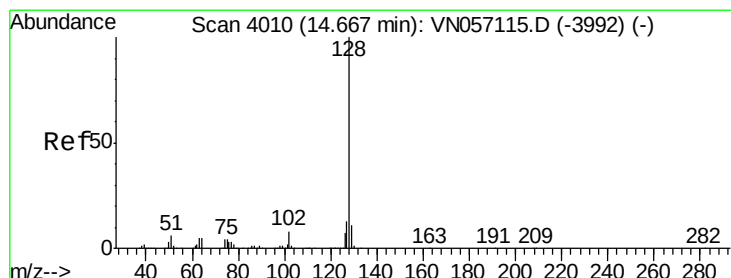
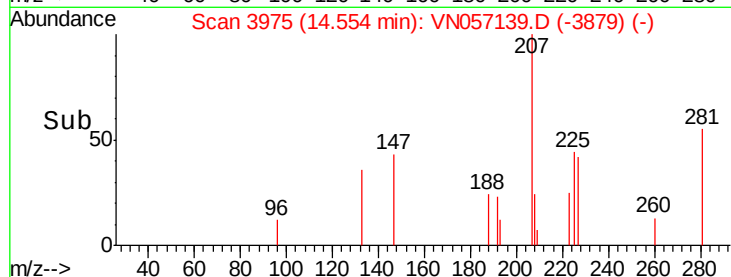
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 2.913 ug/l

RT: 14.67 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VN057139.D

Acq: 9 Aug 2019 12:11

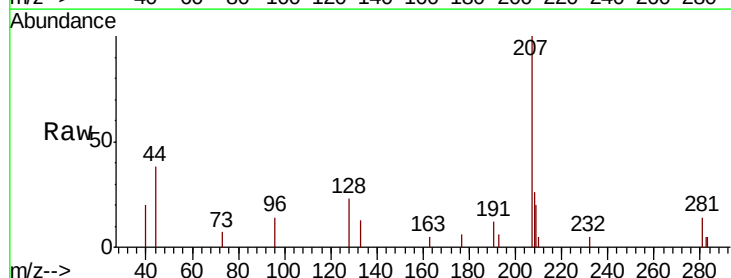
Tgt Ion:128 Resp: 1157

Ion Ratio Lower Upper

128 100

127 2.7 10.3 15.5#

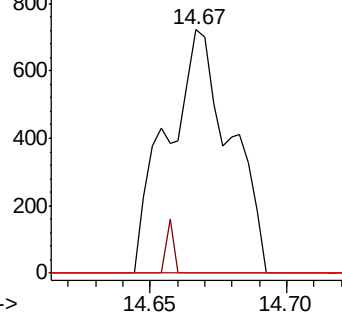
129 0.0 8.8 13.2#



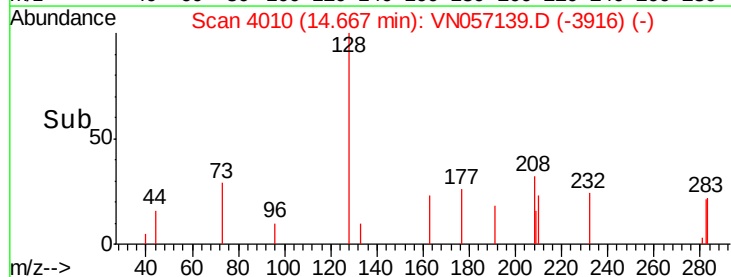
Abundance Ion 128.00 (127.70 to 128.70): V

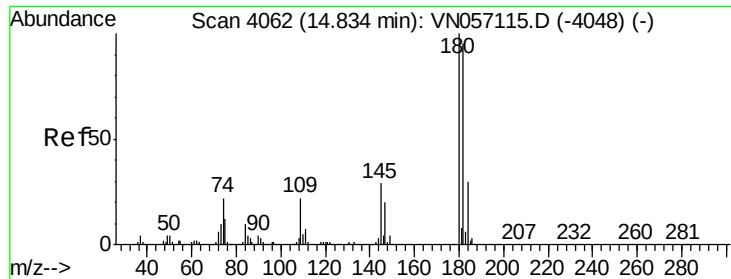
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->

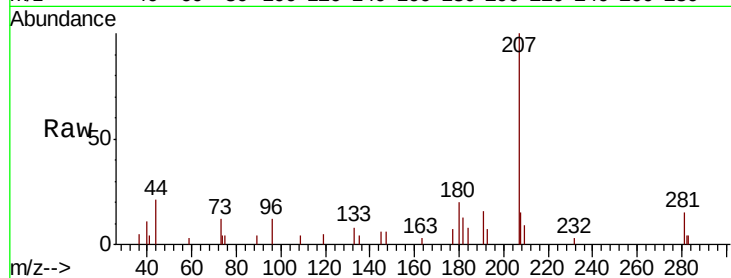




#96
 1,2,3-Trichlorobenzene
 Concen: 5.926 ug/l
 RT: 14.84 min Scan# 4063
 Delta R.T. 0.00 min
 Lab File: VN057139.D
 Acq: 9 Aug 2019 12:11

Instrument :
 MSVOA_N
 ClientSampleId :
 FB_080819

Tgt Ion	Ratio	Lower	Upper
180	100		
182	64.4	48.3	144.8
145	28.2	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

