

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057901.D
 Acq On : 11 Sep 2019 6:16
 Operator : JC/SP
 Sample : K4820-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GW200A-B4-47.0-52.0-091019-FD

Quant Time: Sep 11 07:16:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	297239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	508988	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	453812	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	229790	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	308996	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
35) Dibromofluoromethane	7.58	113	210388	44.78	ug/l	0.00
Spiked Amount			Recovery	=	89.56%	
50) Toluene-d8	10.09	98	862677	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
62) 4-Bromofluorobenzene	12.40	95	279402	40.20	ug/l	0.00
Spiked Amount			Recovery	=	80.40%	

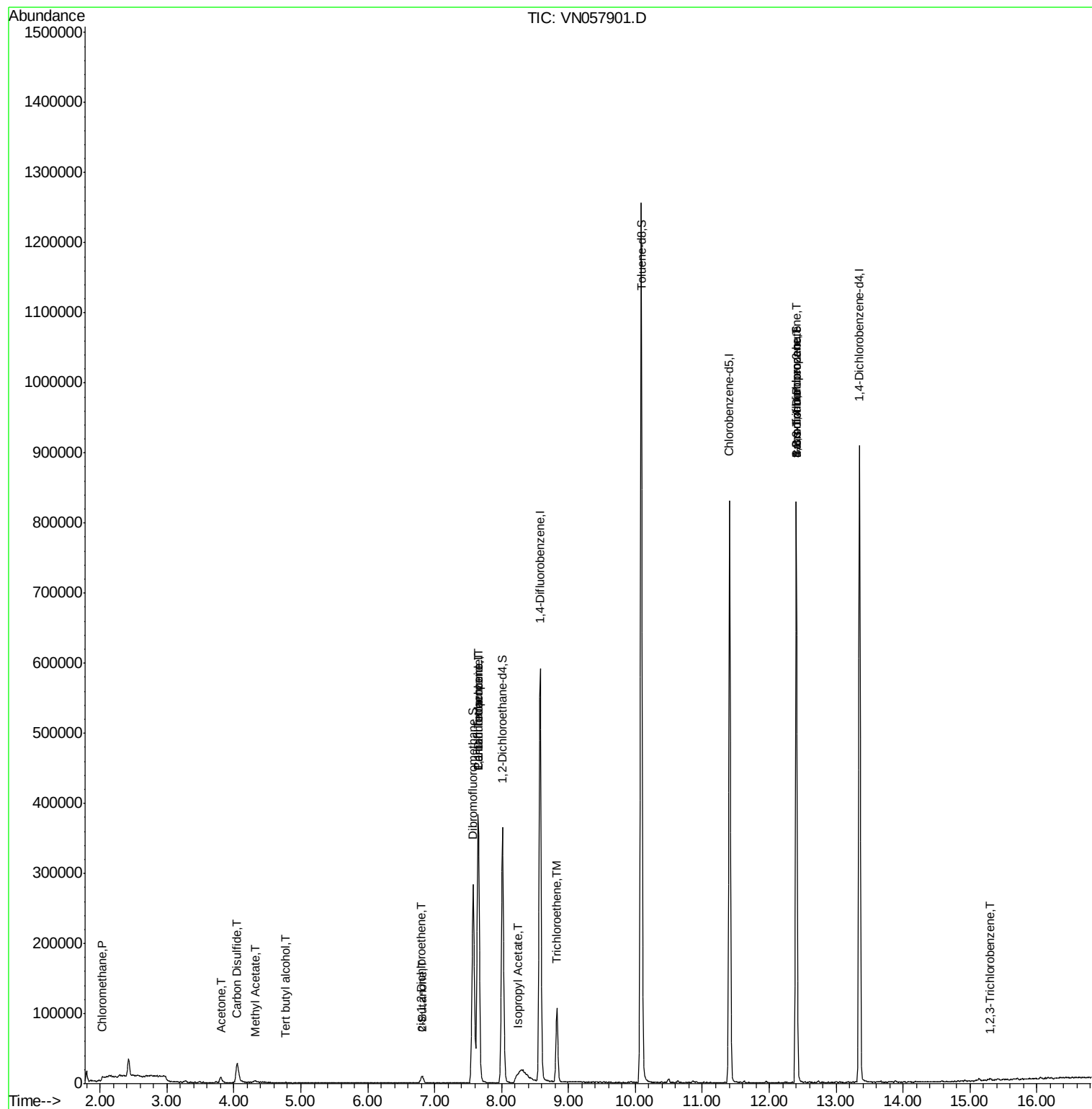
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1744	0.416	ug/l	96
5) Bromomethane	2.51	94	63	Below Cal	#	2
11) Tert butyl alcohol	4.76	59	201	0.276	ug/l #	72
16) Acetone	3.81	43	14833	7.516	ug/l	95
17) Carbon Disulfide	4.04	76	619	0.284	ug/l #	75
18) Methyl Acetate	4.32	43	4833	0.918	ug/l #	61
20) Methylene Chloride	4.54	84	123	Below Cal	#	17
25) 2-Butanone	6.82	43	633	0.222	ug/l #	49
27) cis-1,2-Dichloroethene	6.81	96	3953	0.862	ug/l	85
31) Cyclohexane	7.65	56	7760	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	26395	4.472	ug/l #	51
38) Carbon Tetrachloride	7.65	117	31473	5.840	ug/l #	15
43) Isopropyl Acetate	8.25	43	15288	1.491	ug/l #	56
44) Trichloroethene	8.83	130	35651	8.179	ug/l	98
71) Bromoform	12.40	173	665	0.259	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	151955	29.232	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	151955	102.868	ug/l #	6
95) Naphthalene	15.13	128	3037	Below Cal	#	89
96) 1,2,3-Trichlorobenzene	15.30	180	663	1.138	ug/l #	70

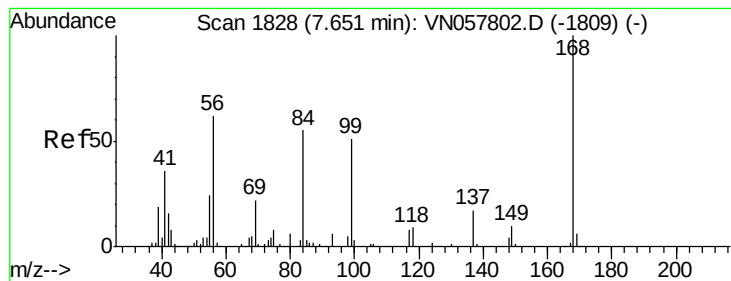
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057901.D

Acq: 11 Sep 2019 6:16

Instrument :

MSVOA_N

ClientSampleId :

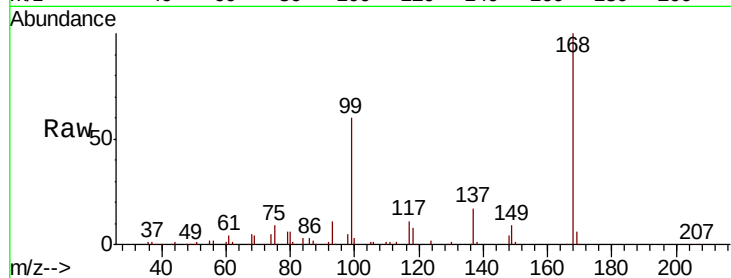
GW200A-B4-47.0-52.0-091019-FD

Tgt Ion:168 Resp: 297239

Ion Ratio Lower Upper

168 100

99 60.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

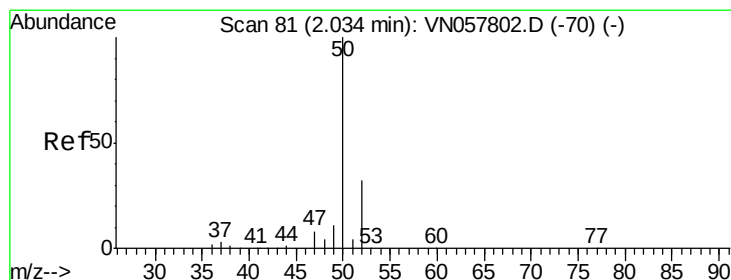
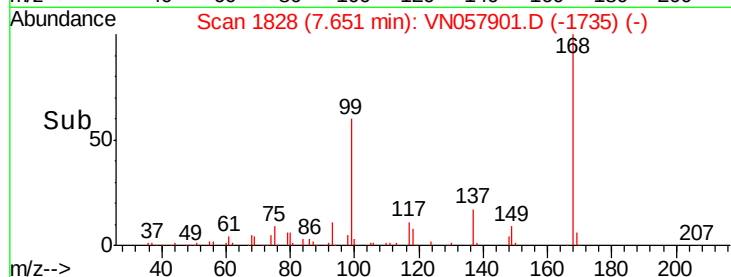
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.416 ug/l

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN057901.D

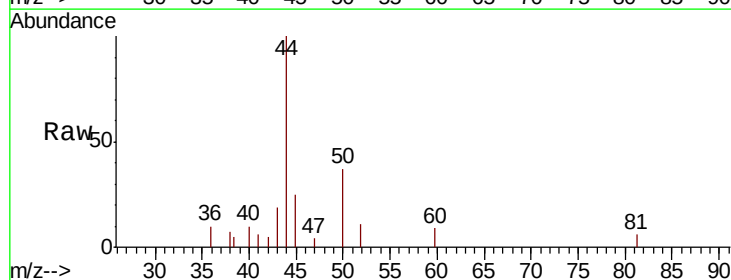
Acq: 11 Sep 2019 6:16

Tgt Ion: 50 Resp: 1744

Ion Ratio Lower Upper

50 100

52 29.5 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.03

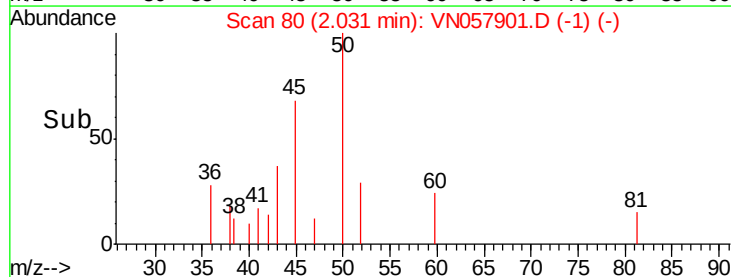
1500

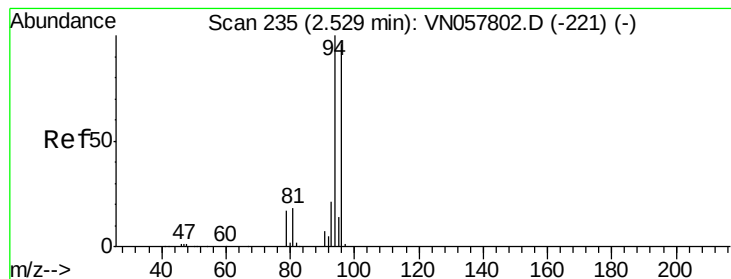
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.51 min Scan# 230

Delta R.T. -0.02 min

Lab File: VN057901.D

Acq: 11 Sep 2019 6:16

Instrument :

MSVOA_N

ClientSampleId :

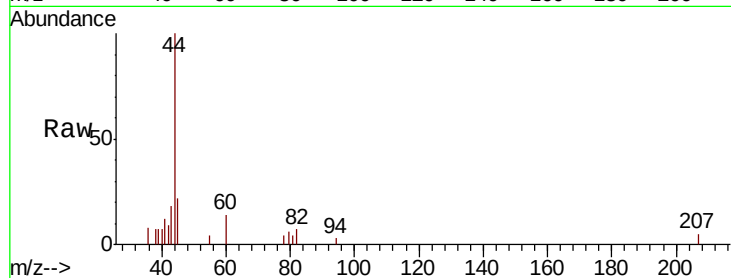
GW200A-B4-47.0-52.0-091019-FD

Tgt Ion: 94 Resp: 63

Ion Ratio Lower Upper

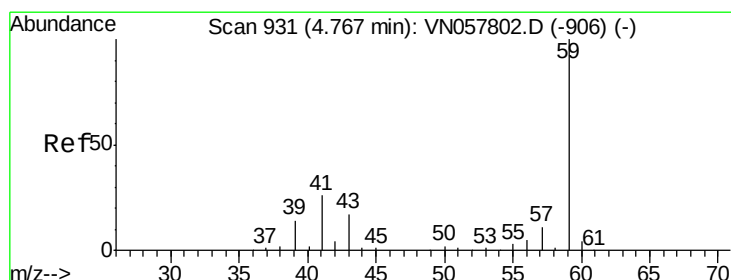
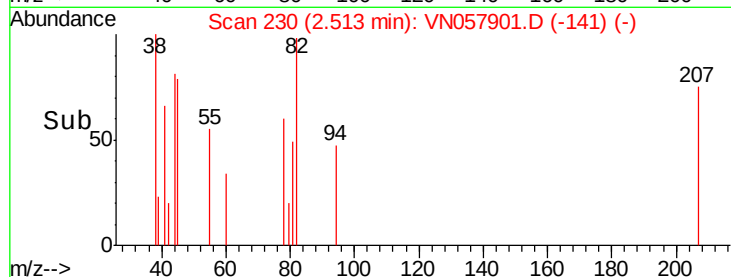
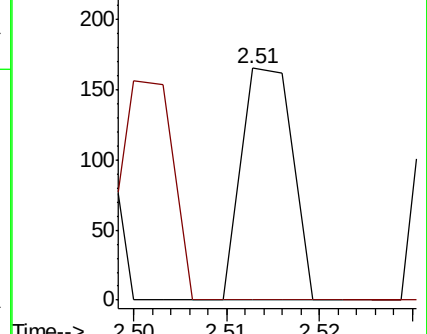
94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.276 ug/l

RT: 4.76 min Scan# 930

Delta R.T. -0.00 min

Lab File: VN057901.D

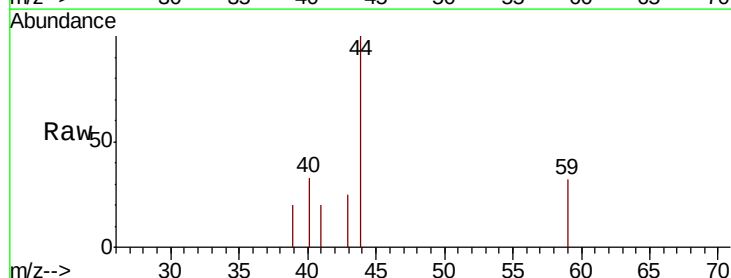
Acq: 11 Sep 2019 6:16

Tgt Ion: 59 Resp: 201

Ion Ratio Lower Upper

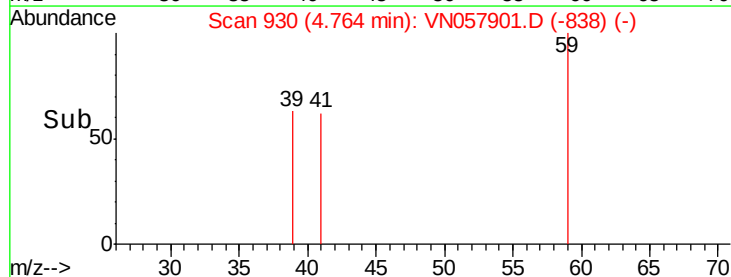
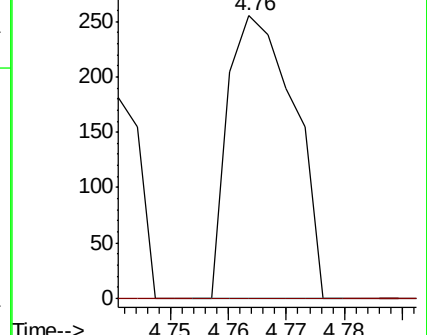
59 100

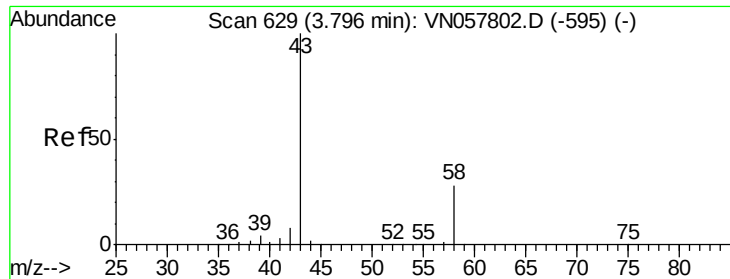
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 7.516 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057901.D

Acq: 11 Sep 2019 6:16

Instrument :

MSVOA_N

ClientSampleId :

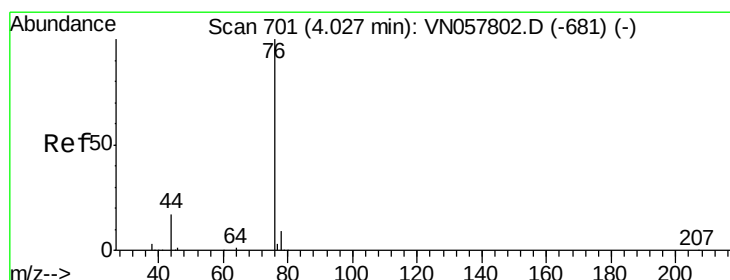
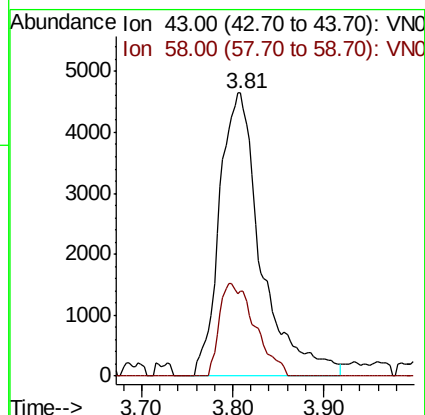
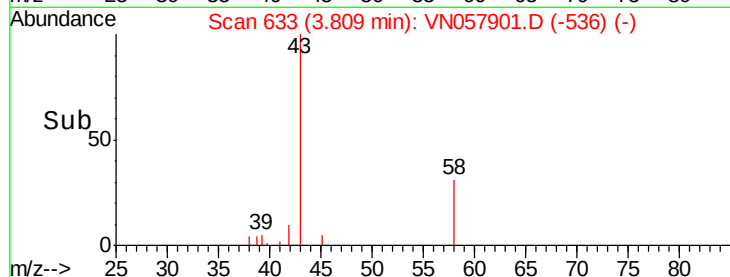
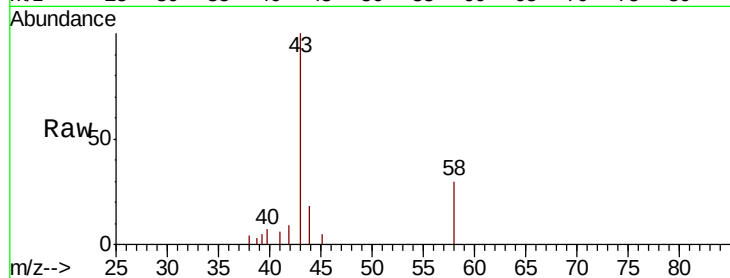
GW200A-B4-47.0-52.0-091019-FD

Tgt Ion: 43.00 Resp: 14833

Ion Ratio Lower Upper

43 100

58 30.1 22.2 33.2



#17

Carbon Disulfide

Concen: 0.284 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.01 min

Lab File: VN057901.D

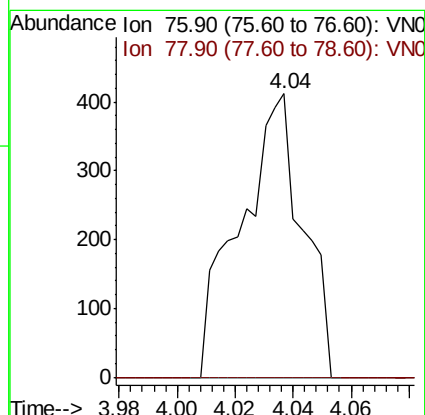
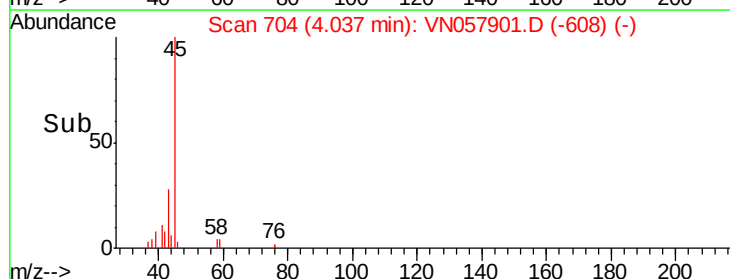
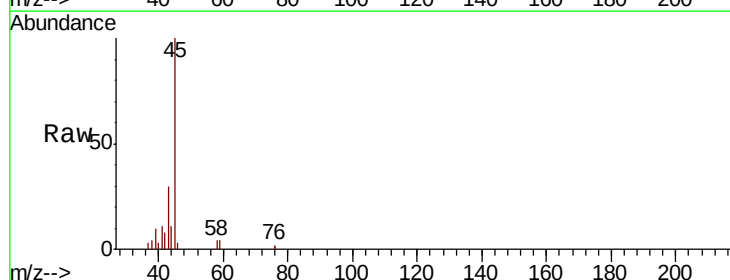
Acq: 11 Sep 2019 6:16

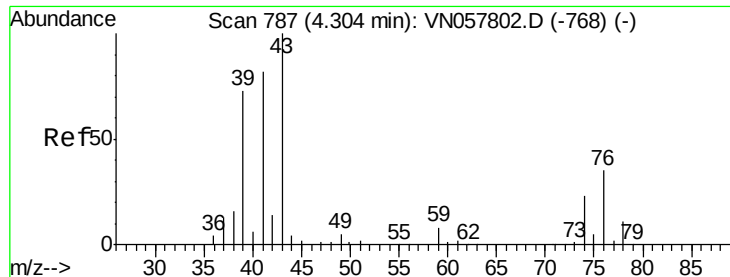
Tgt Ion: 76 Resp: 619

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

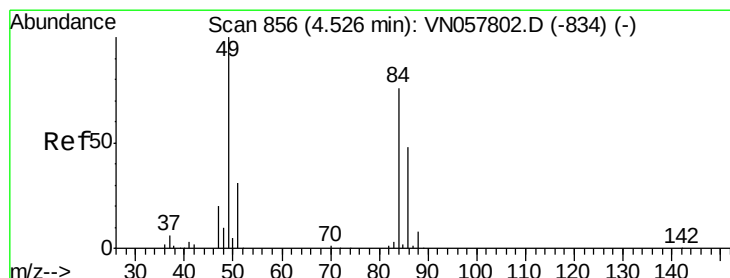
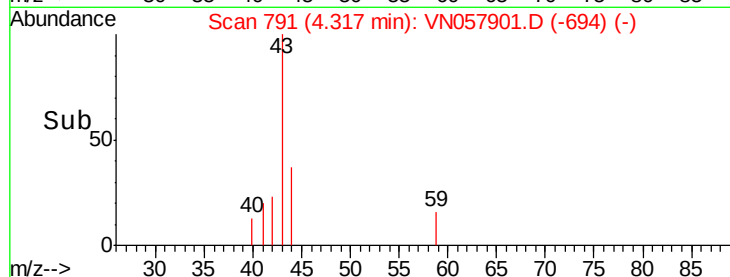
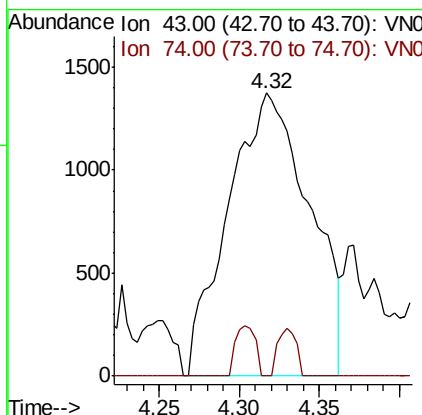
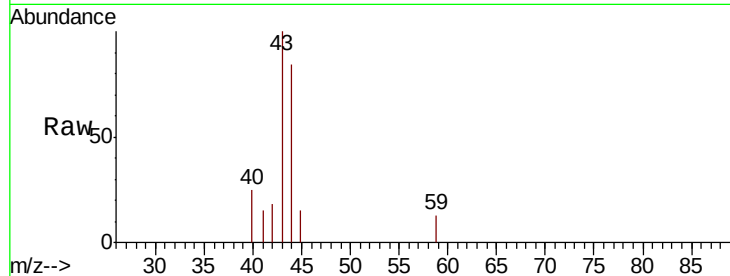




#18
Methyl Acetate
Concen: 0.918 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN057901.D
Acq: 11 Sep 2019 6:16

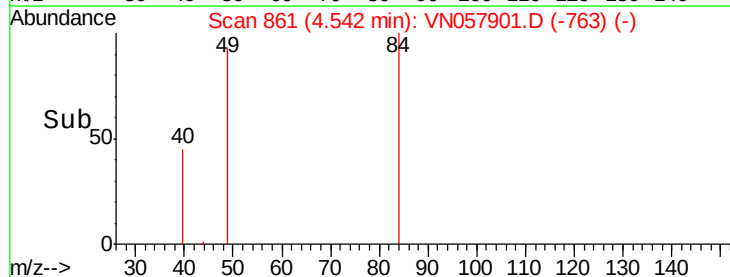
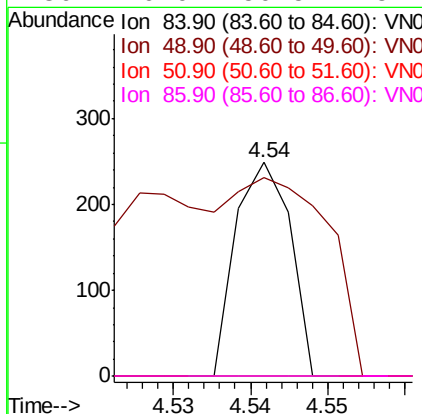
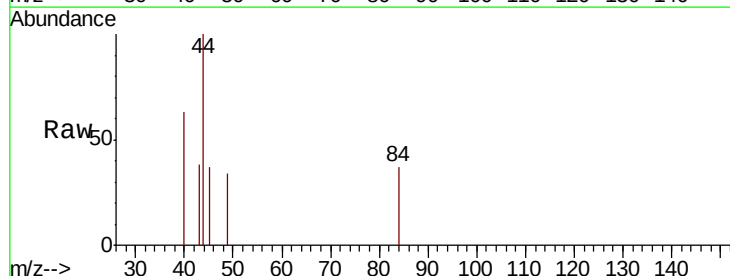
Instrument :
MSVOA_N
ClientSampleId :
GW200A-B4-47.0-52.0-091019-FD

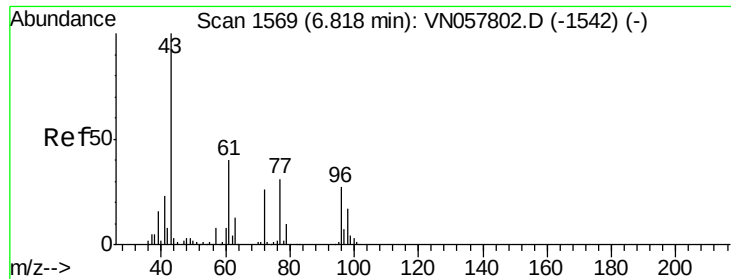
Tgt Ion: 43 Resp: 4833
Ion Ratio Lower Upper
43 100
74 3.8 17.9 26.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 861
Delta R.T. 0.02 min
Lab File: VN057901.D
Acq: 11 Sep 2019 6:16

Tgt Ion: 84 Resp: 123
Ion Ratio Lower Upper
84 100
49 26.9 104.8 157.2#
51 0.0 33.0 49.4#
86 0.0 50.5 75.7#

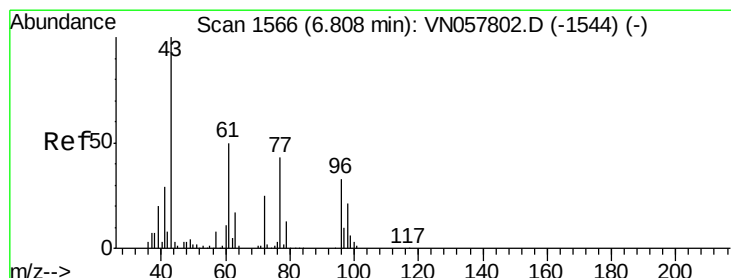
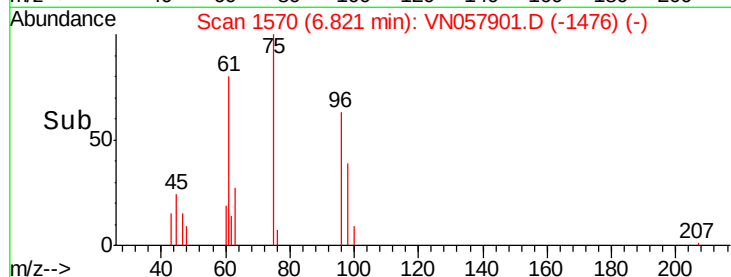
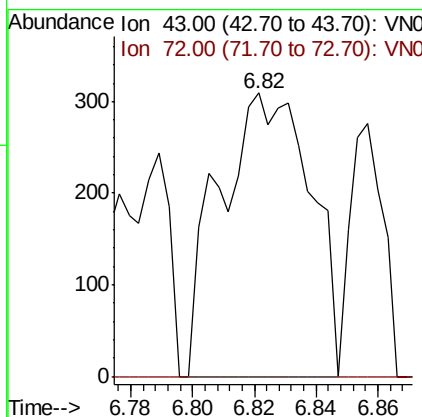
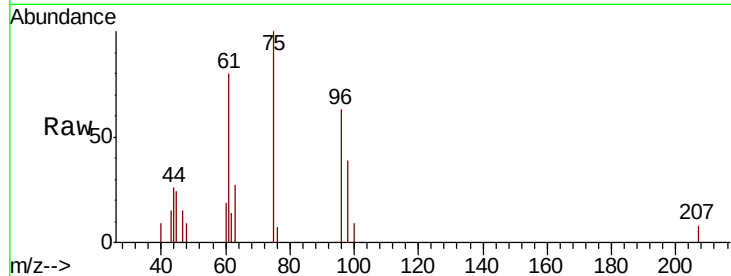




#25
 2-Butanone
 Concen: 0.222 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. 0.00 min
 Lab File: VN057901.D
 Acq: 11 Sep 2019 6:16

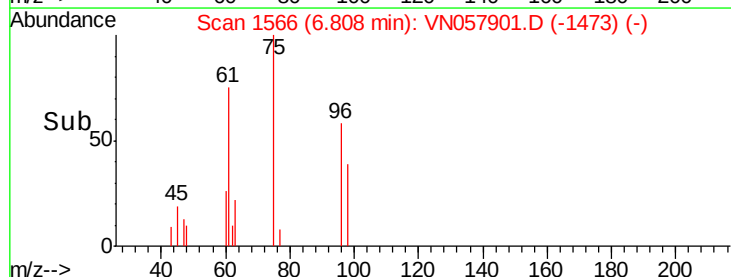
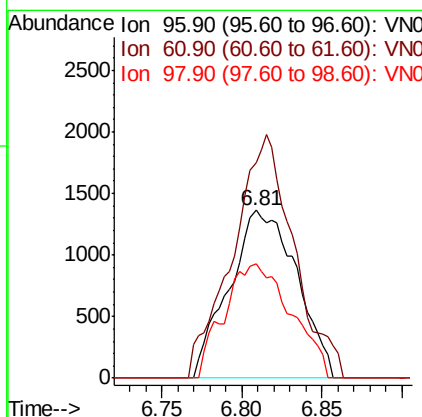
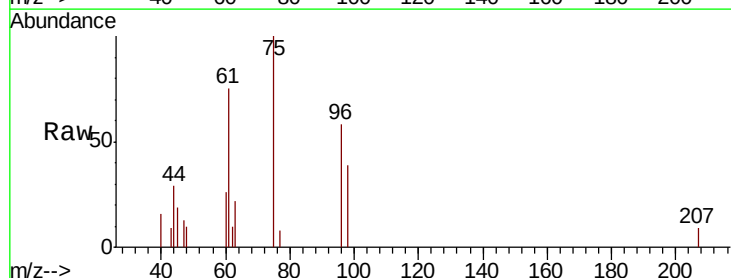
Instrument :
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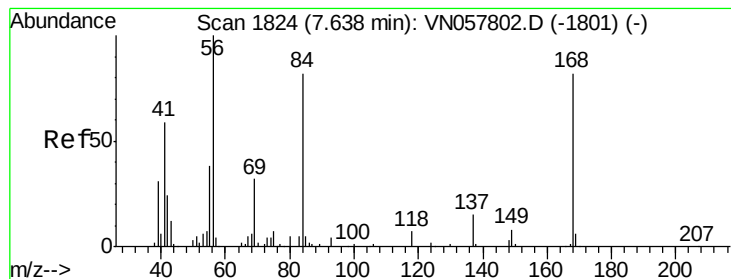
Tgt Ion: 43 Resp: 633
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.6 30.8#



#27
 cis-1,2-Dichloroethene
 Concen: 0.862 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VN057901.D
 Acq: 11 Sep 2019 6:16

Tgt Ion: 96 Resp: 3953
 Ion Ratio Lower Upper
 96 100
 61 131.2 0.0 314.0
 98 67.6 0.0 128.6





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057901.D

Acq: 11 Sep 2019 6:16

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-47.0-52.0-091019-FD

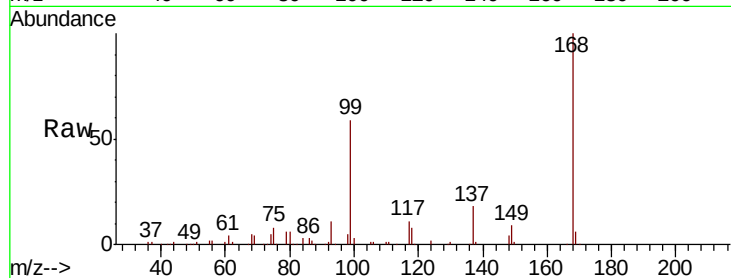
Tgt Ion: 56 Resp: 7760

Ion Ratio Lower Upper

56 100

69 156.1 25.9 38.9#

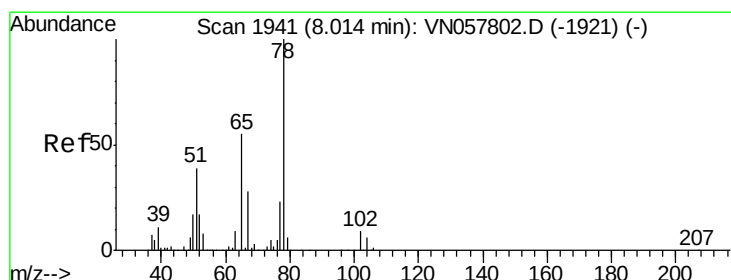
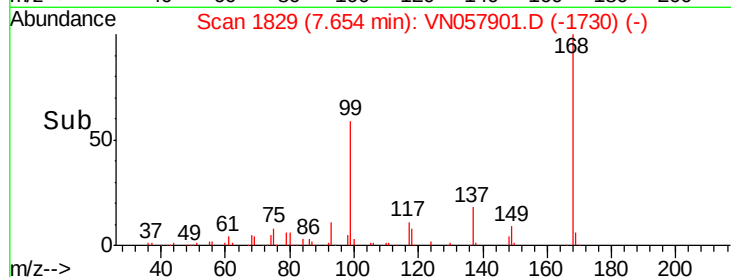
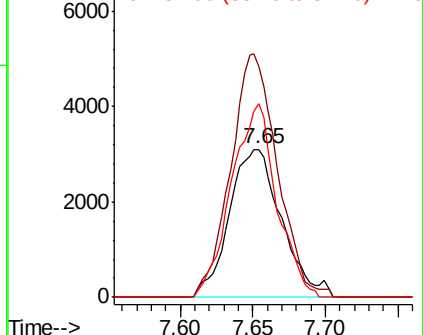
84 130.5 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN057802.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN057802.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN057802.D (-1801) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.325 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057901.D

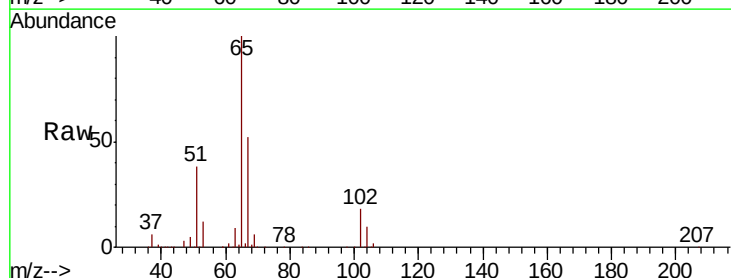
Acq: 11 Sep 2019 6:16

Tgt Ion: 65 Resp: 308996

Ion Ratio Lower Upper

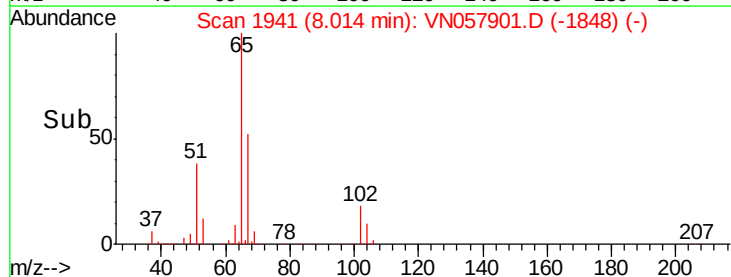
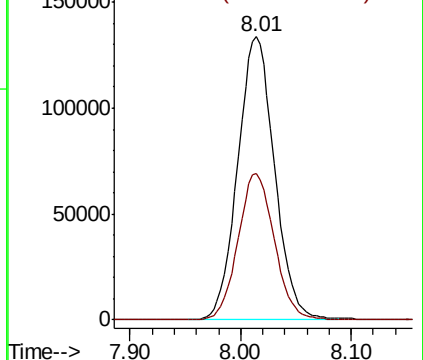
65 100

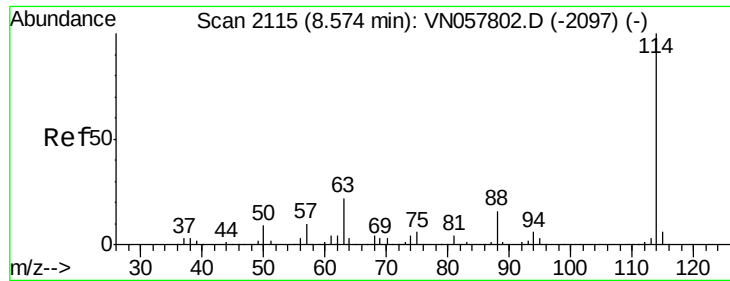
67 51.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

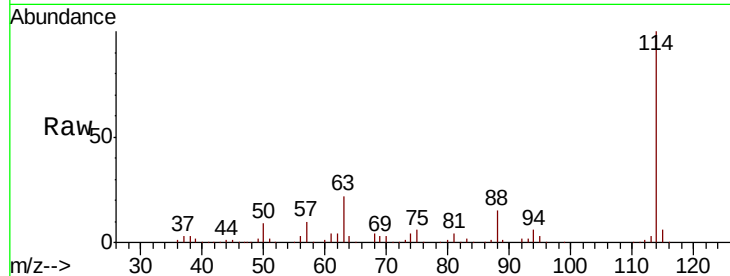




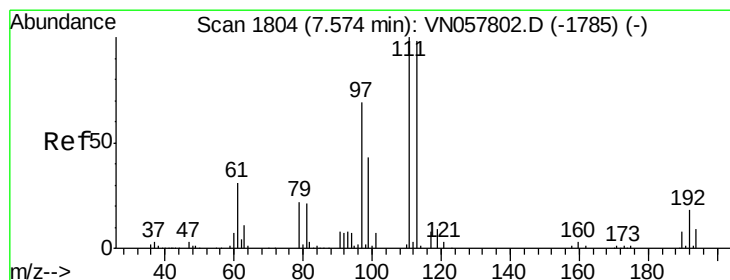
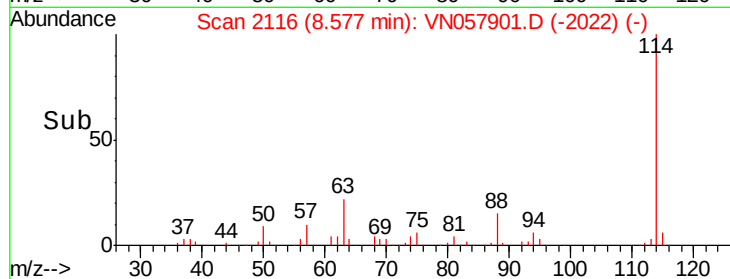
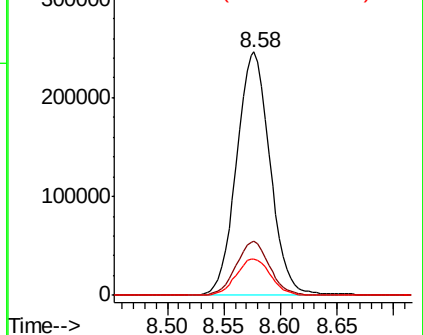
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057901.D
 Acq: 11 Sep 2019 6:16

Instrument :
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 GW200A-B4-47.0-52.0-091019-FD

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	508988		
63	22.1		0.0	44.0
88	15.0		0.0	31.4

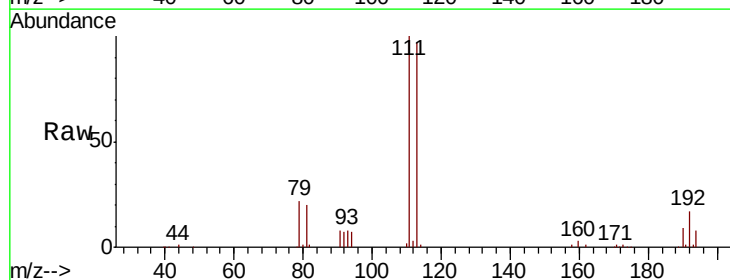


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

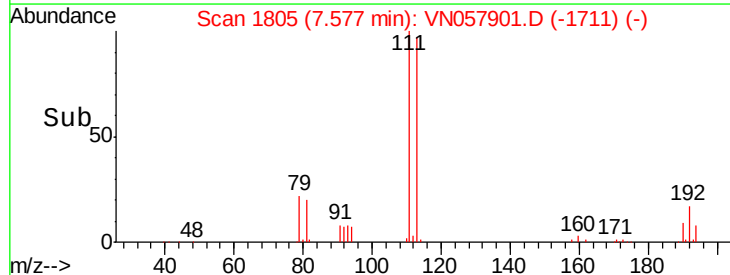
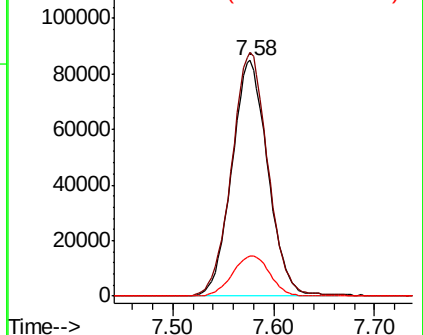


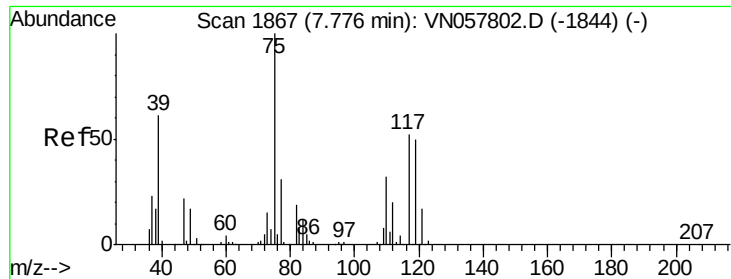
#35
 Dibromofluoromethane
 Concen: 44.785 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057901.D
 Acq: 11 Sep 2019 6:16

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	210388		
111	104.4		81.3	121.9
192	17.8		14.6	22.0



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

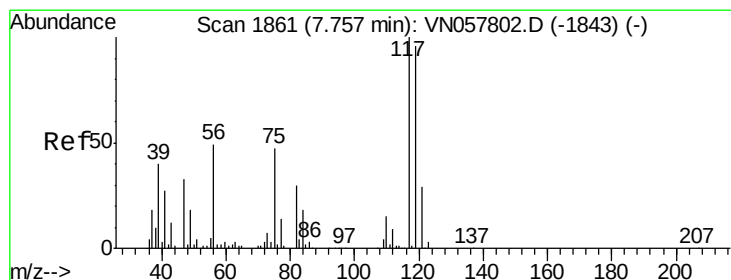
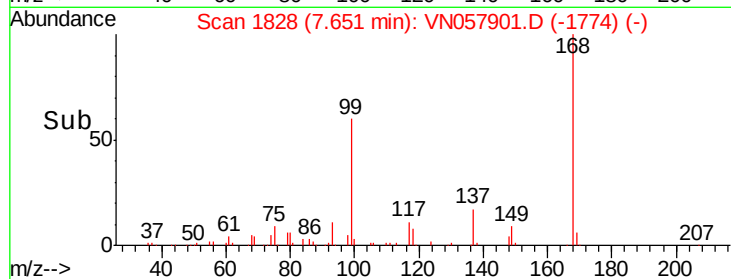
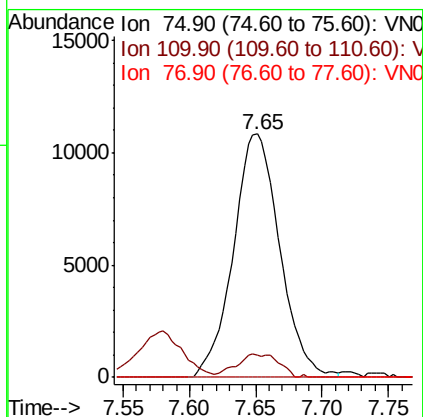
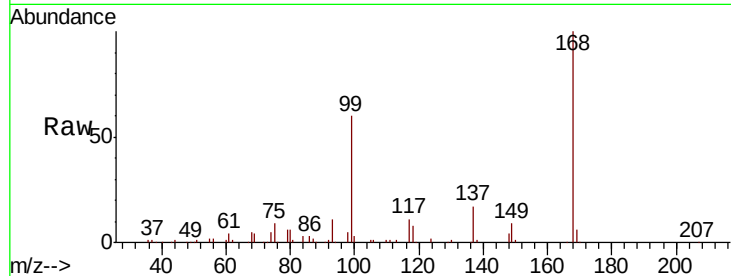




#36
 1,1-Dichloropropene
 Concen: 4.472 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057901.D
 Acq: 11 Sep 2019 6:16

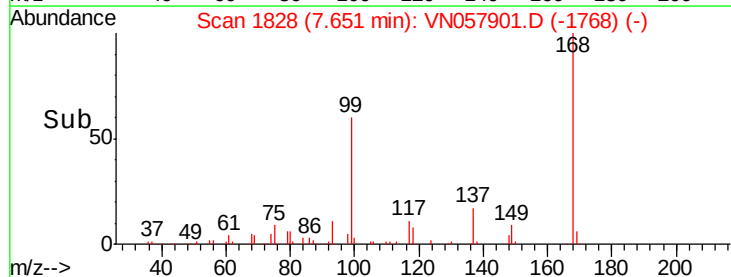
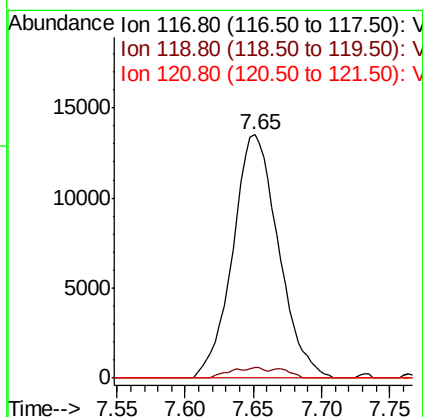
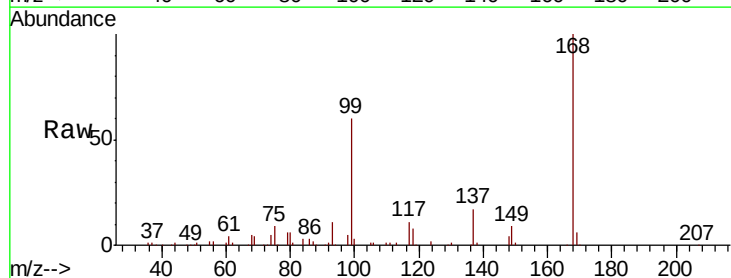
Instrument :
 MSVOA_N
 ClientSampleId :
 GW200A-B4-47.0-52.0-091019-FD

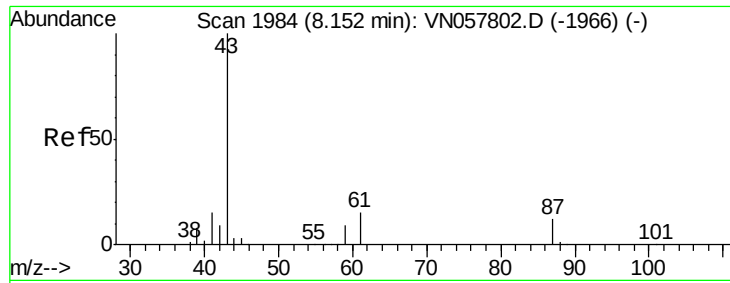
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.840 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057901.D
 Acq: 11 Sep 2019 6:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 1.491 ug/l

RT: 8.25 min Scan# 2013

Delta R.T. 0.09 min

Lab File: VN057901.D

Acq: 11 Sep 2019 6:16

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-47.0-52.0-091019-FD

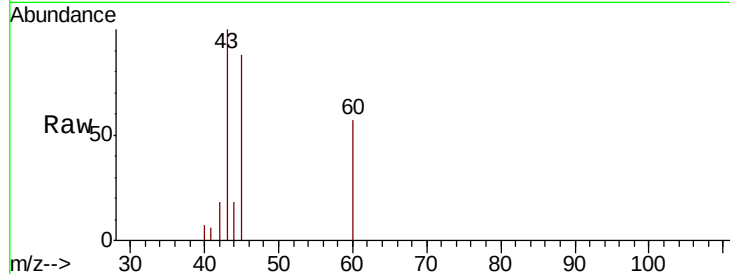
Tgt Ion: 43 Resp: 15288

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

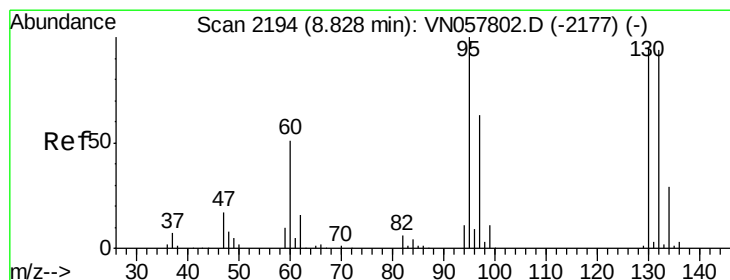
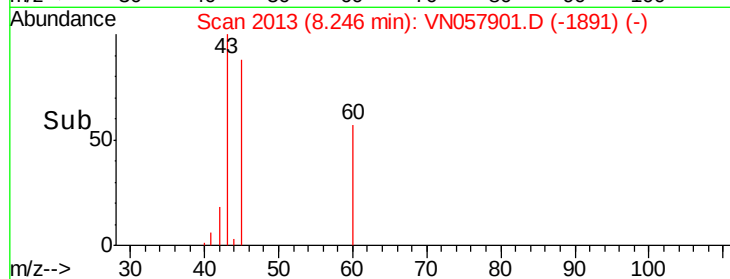
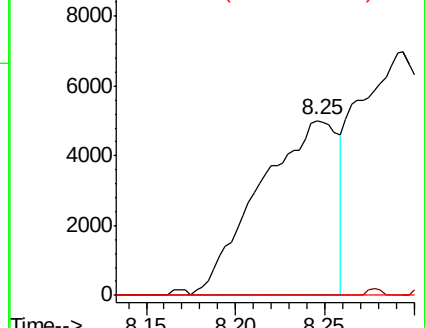
87 0.0 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)



#44

Trichloroethene

Concen: 8.179 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN057901.D

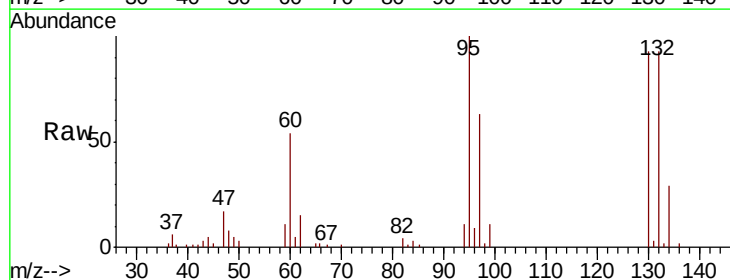
Acq: 11 Sep 2019 6:16

Tgt Ion: 130 Resp: 35651

Ion Ratio Lower Upper

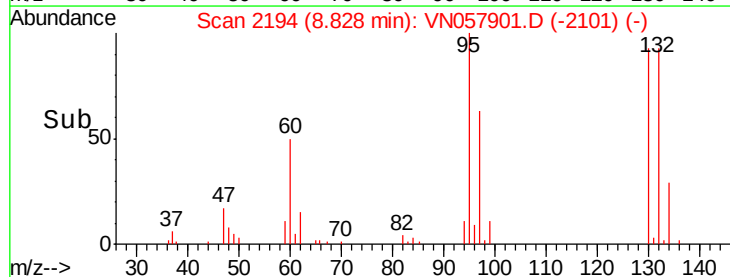
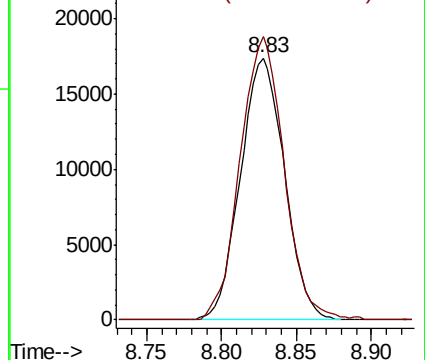
130 100

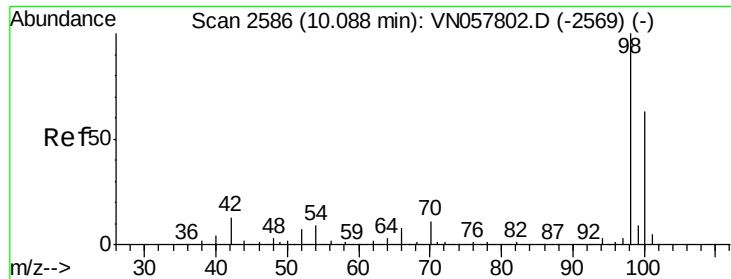
95 108.0 0.0 211.4



Abundance Ion 129.80 (129.50 to 130.50): VN057802.D (-2177) (-)

Ion 94.90 (94.60 to 95.60): VN057802.D (-2177) (-)





#50

Toluene-d8

Concen: 47.298 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057901.D

Acq: 11 Sep 2019 6:16

Instrument :

MSVOA_N

ClientSampleId :

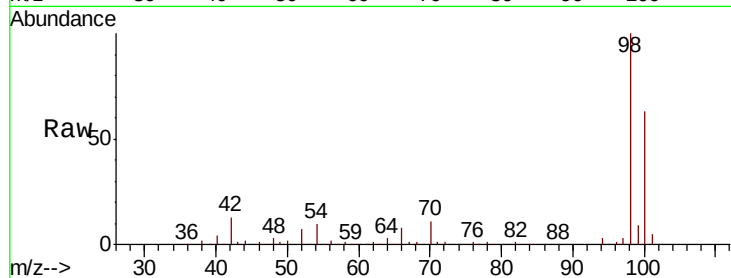
GW200A-B4-47.0-52.0-091019-FD

Tgt Ion: 98 Resp: 862677

Ion Ratio Lower Upper

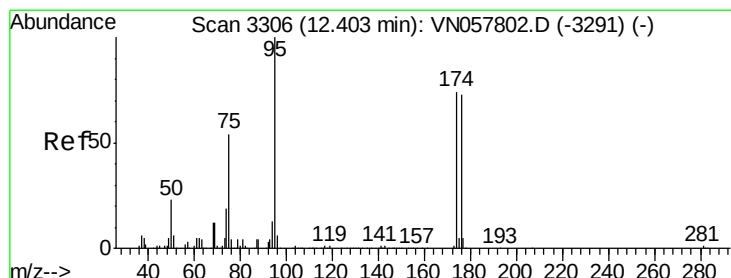
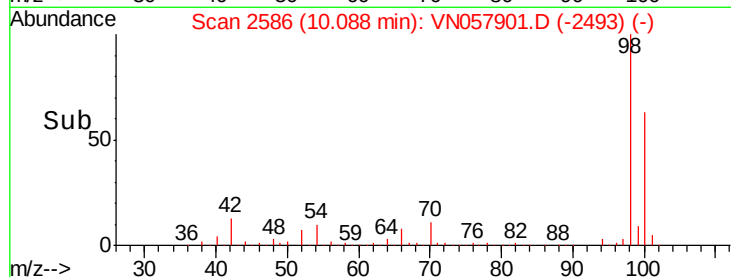
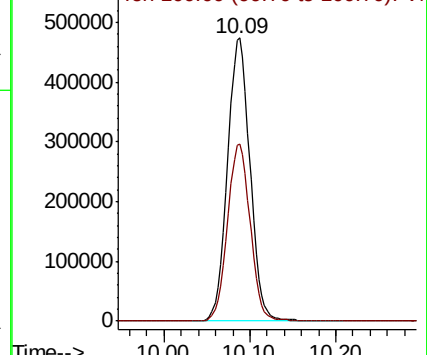
98 100

100 63.1 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 40.197 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057901.D

Acq: 11 Sep 2019 6:16

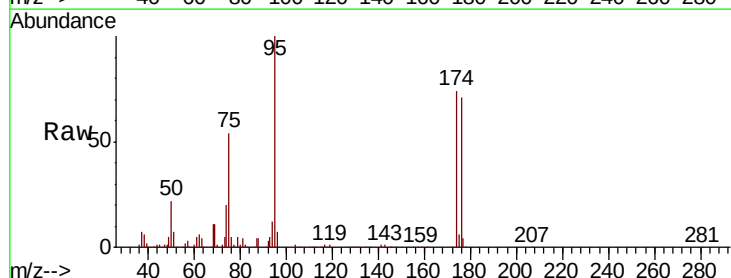
Tgt Ion: 95 Resp: 279402

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.2

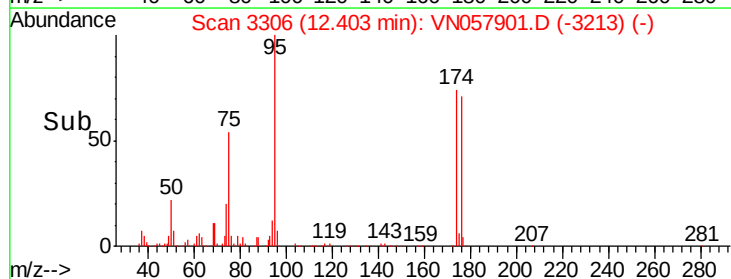
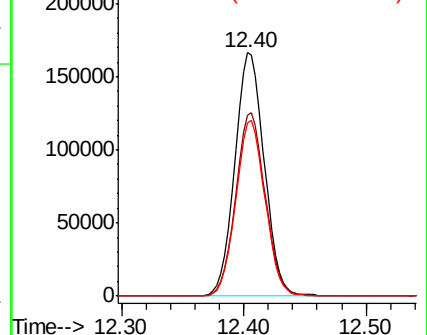
176 71.8 0.0 146.0

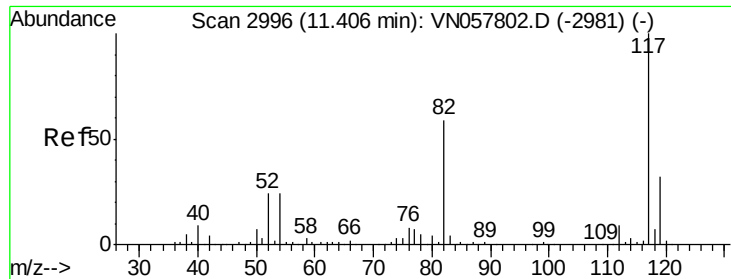


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

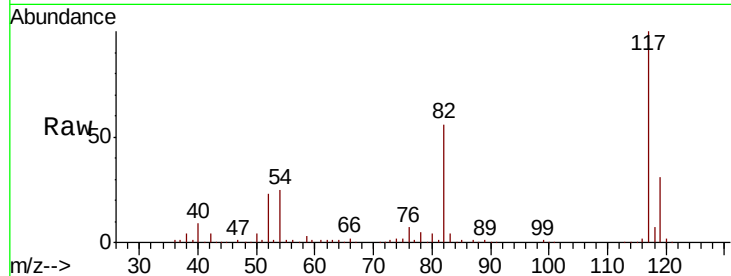




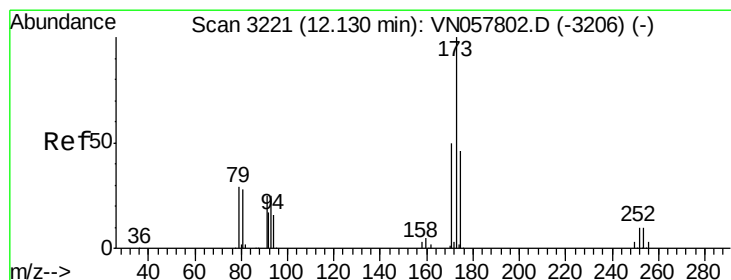
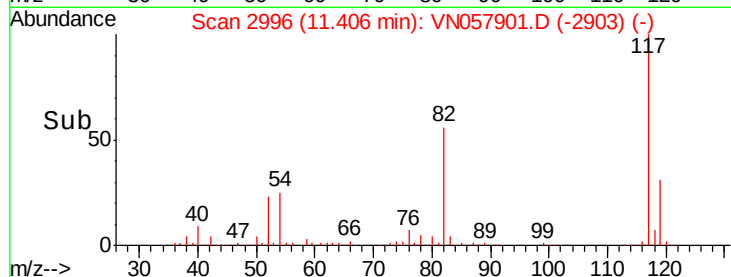
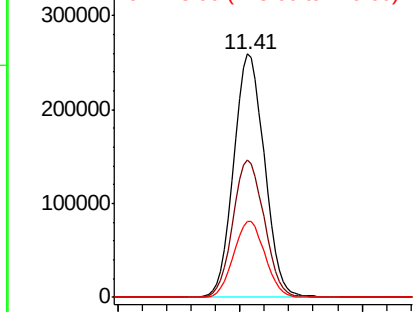
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057901.D
Acq: 11 Sep 2019 6:16

Instrument :
MSVOA_N
ClientSampleId :
GW200A-B4-47.0-52.0-091019-FD

Tgt Ion:117 Resp: 453812
Ion Ratio Lower Upper
117 100
82 56.3 47.2 70.8
119 31.3 25.3 37.9

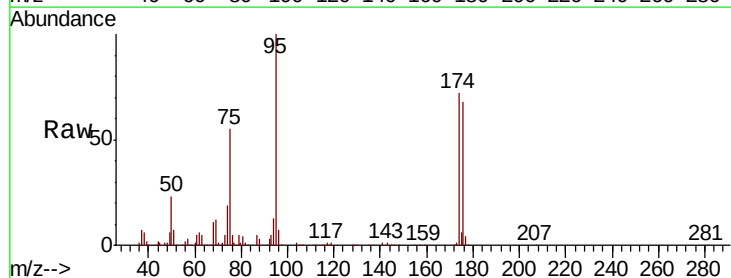


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

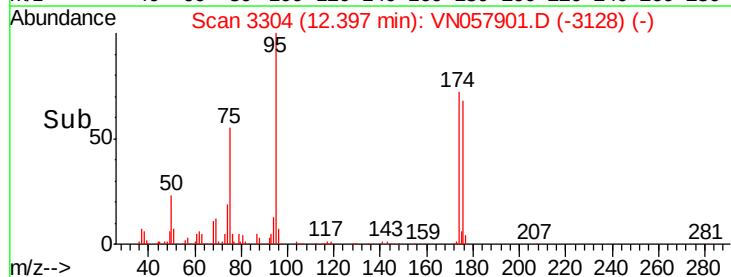
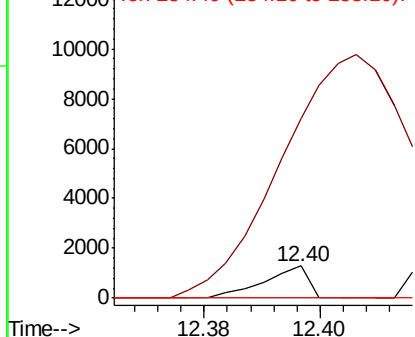


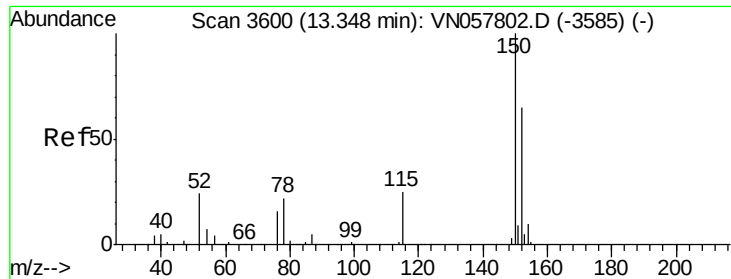
#71
Bromoform
Concen: 0.259 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN057901.D
Acq: 11 Sep 2019 6:16

Tgt Ion:173 Resp: 665
Ion Ratio Lower Upper
173 100
175 2101.8 23.5 70.6#
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# 3600

Delta R.T. 0.00 min

Lab File: VN057901.D

Acq: 11 Sep 2019 6:16

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-47.0-52.0-091019-FD

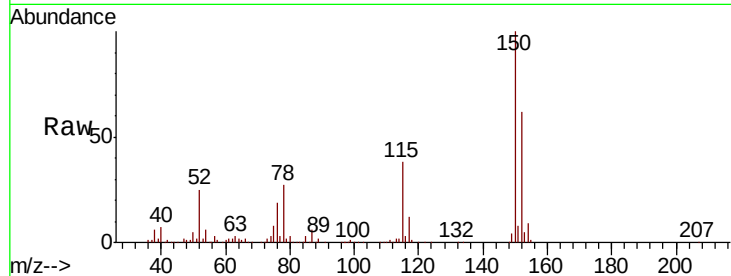
Tgt Ion: 152 Resp: 229790

Ion Ratio Lower Upper

152 100

115 60.8 30.3 91.0

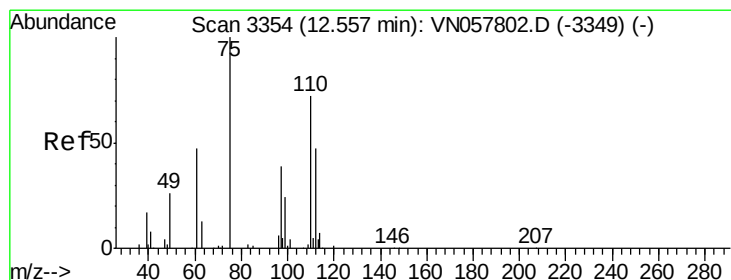
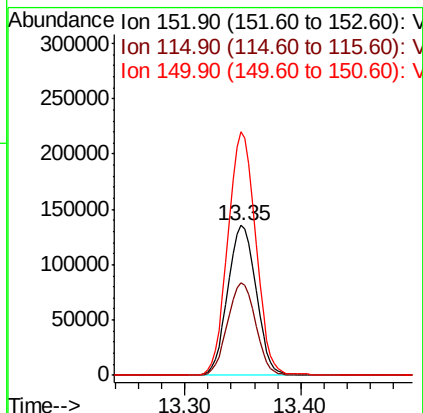
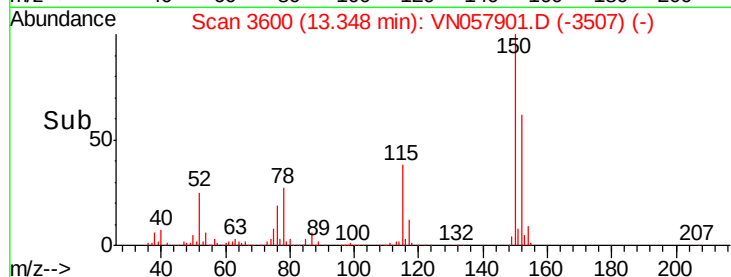
150 159.2 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 29.232 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057901.D

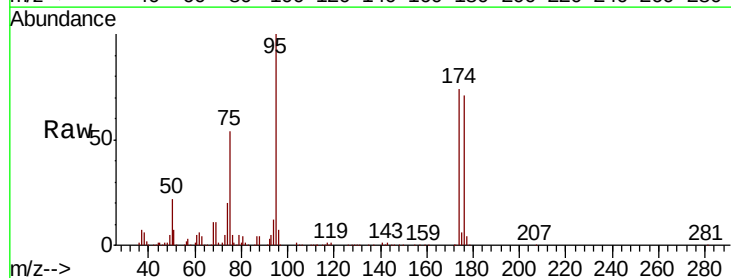
Acq: 11 Sep 2019 6:16

Tgt Ion: 75 Resp: 151955

Ion Ratio Lower Upper

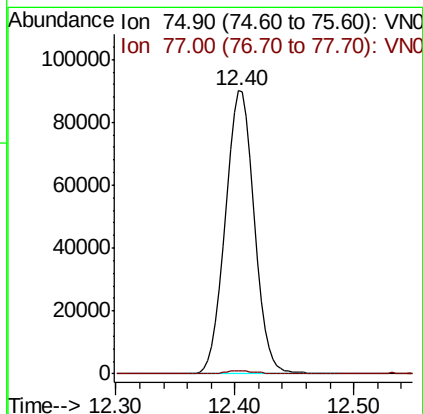
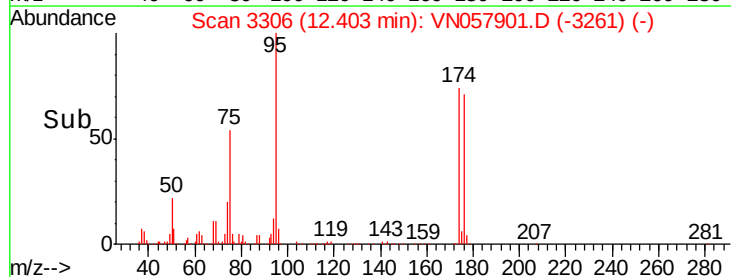
75 100

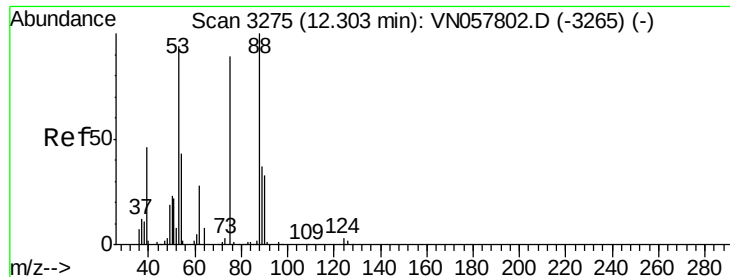
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 102.868 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057901.D

Acq: 11 Sep 2019 6:16

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-47.0-52.0-091019-FD

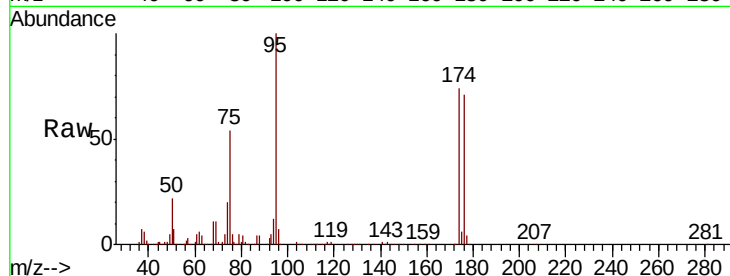
Tgt Ion: 75 Resp: 151955

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

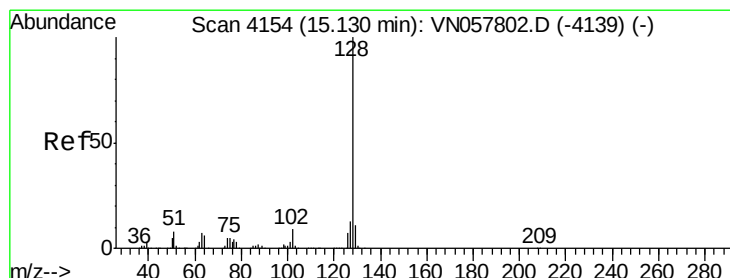
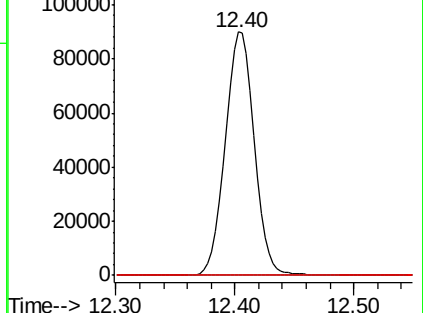
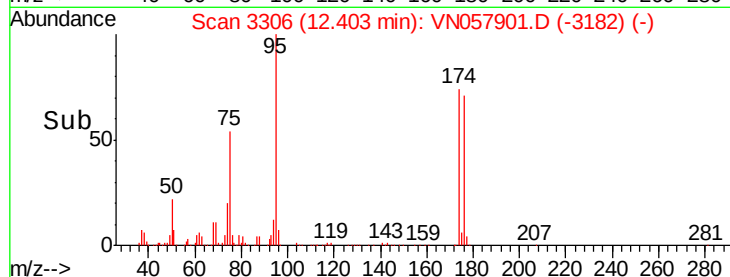
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057901.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN057901.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN057901.D (-3182) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057901.D

Acq: 11 Sep 2019 6:16

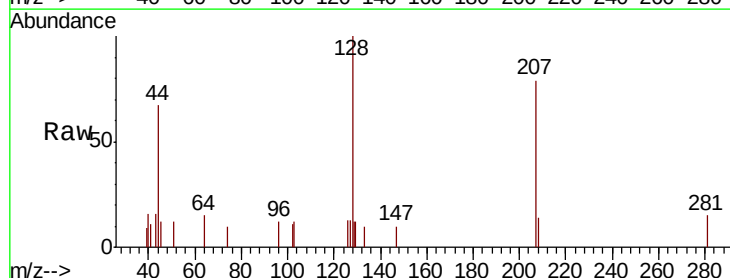
Tgt Ion: 128 Resp: 3037

Ion Ratio Lower Upper

128 100

127 8.9 10.3 15.5#

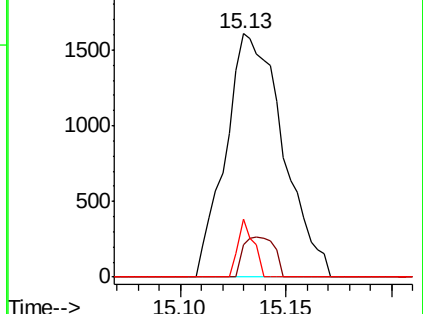
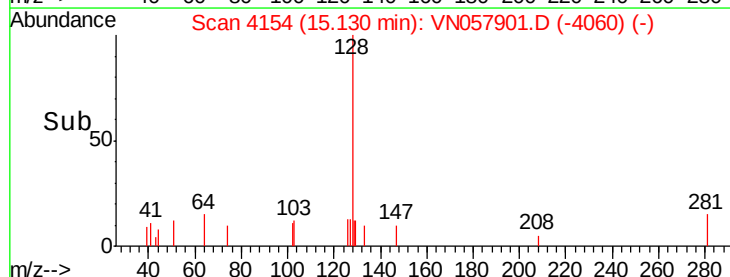
129 6.4 8.6 12.8#

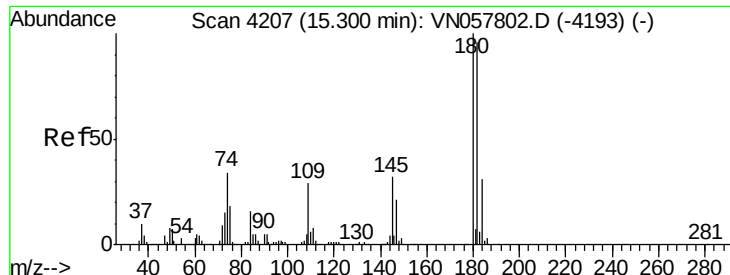


Abundance Ion 128.00 (127.70 to 128.70): VN057901.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN057901.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN057901.D (-4060) (-)

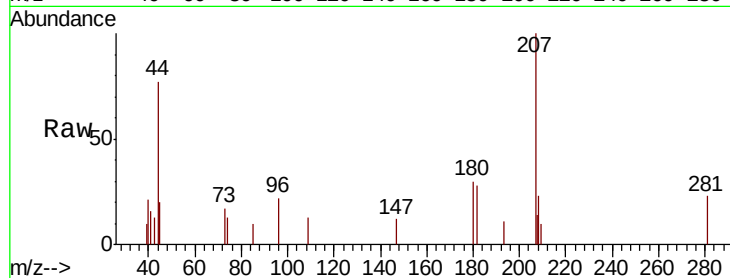




#96
 1,2,3-Trichlorobenzene
 Concen: 1.138 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.00 min
 Lab File: VN057901.D
 Acq: 11 Sep 2019 6:16

Instrument :
 MSVOA_N
 ClientSampleId :
 GW200A-B4-47.0-52.0-091019-FD

Tgt Ion:180 Resp: 663
 Ion Ratio Lower Upper
 180 100
 182 116.4 48.3 144.8
 145 0.0 16.3 48.8#



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

