

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080119\
 Data File : VN057040.D
 Acq On : 1 Aug 2019 16:21
 Operator : JC/SP
 Sample : K4097-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-578-580

Quant Time: Aug 02 05:14:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	559451	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	807048	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	666008	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	180344	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	333332	58.21	ug/l	0.00
Spiked Amount			Recovery	=	116.42%	
35) Dibromofluoromethane	7.58	113	299649	58.00	ug/l	0.00
Spiked Amount			Recovery	=	116.00%	
50) Toluene-d8	10.08	98	1133160	57.51	ug/l	0.00
Spiked Amount			Recovery	=	115.02%	
62) 4-Bromofluorobenzene	12.40	95	292137	45.55	ug/l	0.00
Spiked Amount			Recovery	=	91.10%	

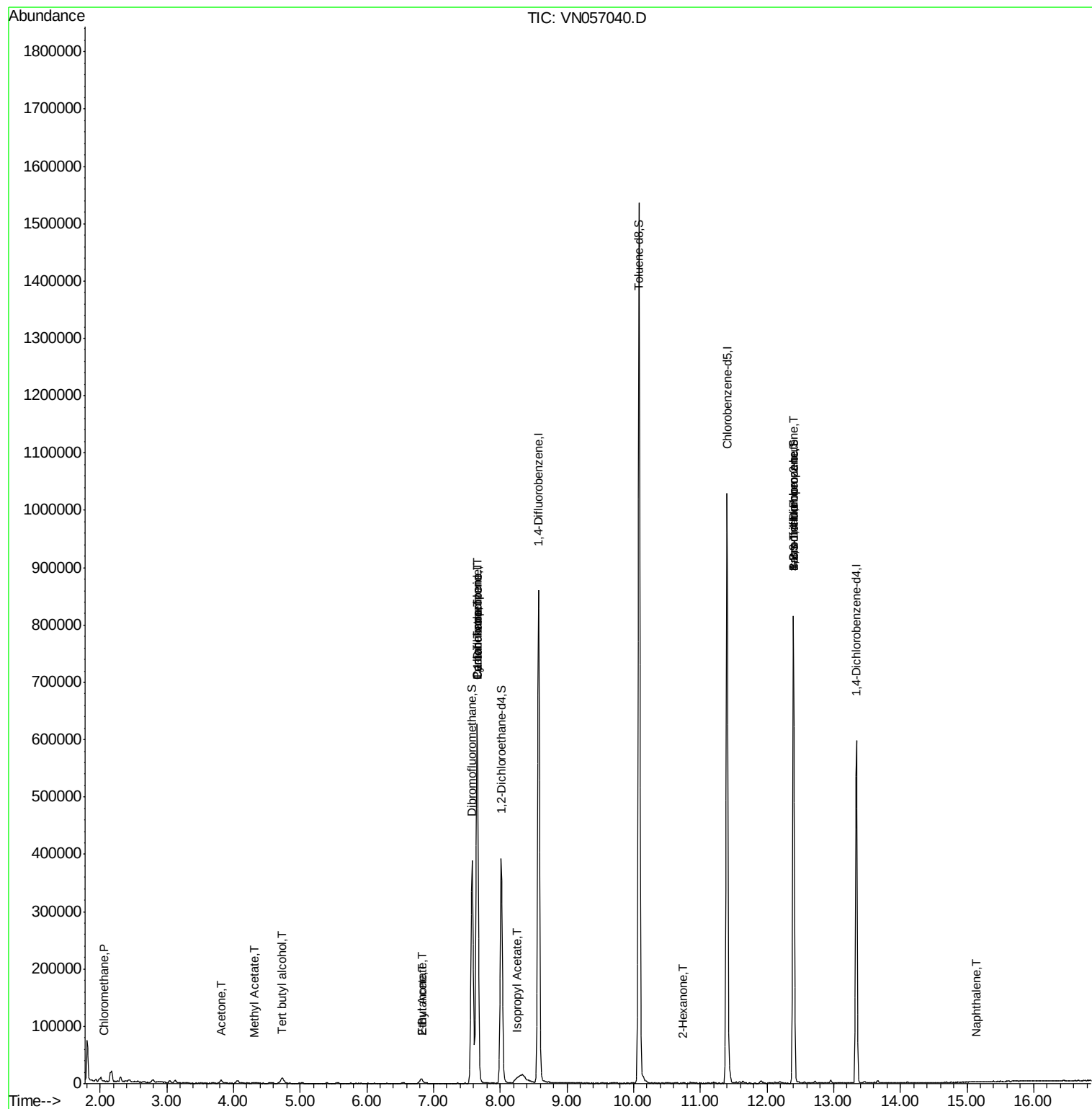
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1447	0.214	ug/l	98
11) Tert butyl alcohol	4.74	59	9388	12.128	ug/l #	74
16) Acetone	3.81	43	10131	4.883	ug/l	96
18) Methyl Acetate	4.32	43	3579	0.541	ug/l #	67
25) 2-Butanone	6.84	43	2242	0.762	ug/l	100
31) Cyclohexane	7.65	56	8229	0.874	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	34468	4.854	ug/l #	49
37) Ethyl Acetate	6.84	43	2242	0.394	ug/l #	67
38) Carbon Tetrachloride	7.66	117	47581	7.083	ug/l #	16
43) Isopropyl Acetate	8.25	43	7272	0.774	ug/l #	52
59) 2-Hexanone	10.75	43	807	2.686	ug/l #	28
71) Bromoform	12.40	173	2319	0.650	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	112	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	135267	36.933	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	135267	118.665	ug/l #	15
95) Naphthalene	15.13	128	69	3.596	ug/l #	70

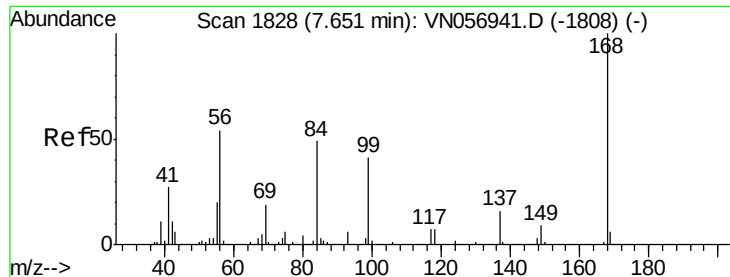
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

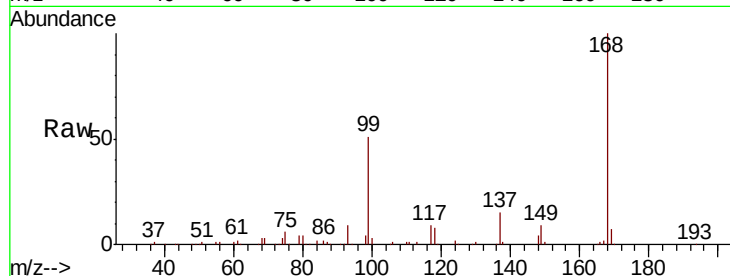
BP-VPB203-GW-578-580

Tot Ion:168 Resp: 559451

Ion Ratio Lower Upper

168 100

99 51.1 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VN056941.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN056941.D (-1808) (-)

7.65

250000

200000

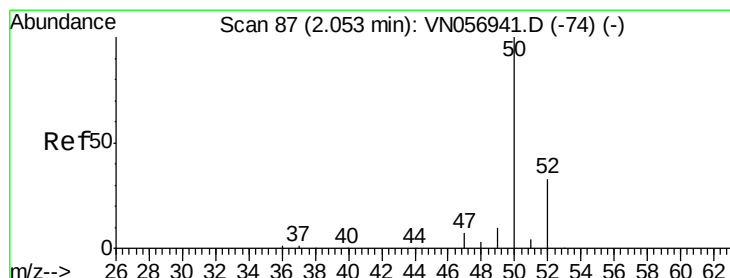
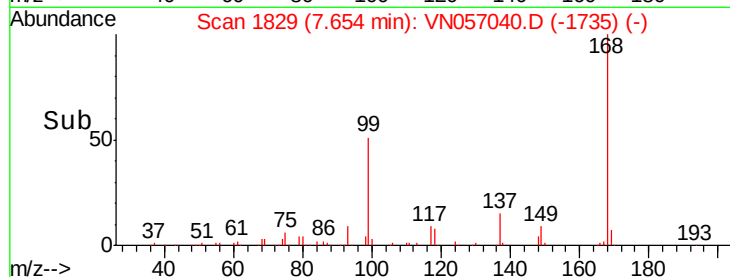
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.214 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN057040.D

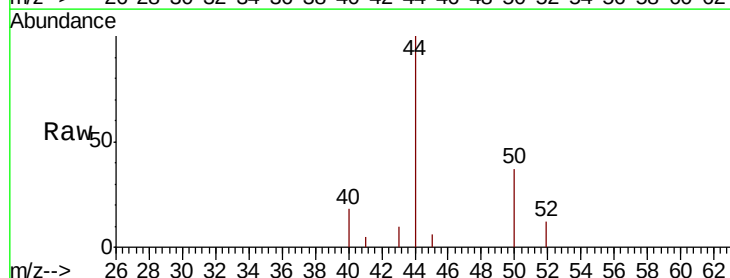
Acq: 1 Aug 2019 16:21

Tgt Ion: 50 Resp: 1447

Ion Ratio Lower Upper

50 100

52 31.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN056941.D (-74) (-)

Ion 51.90 (51.60 to 52.60): VN056941.D (-74) (-)

2.06

1200

1000

800

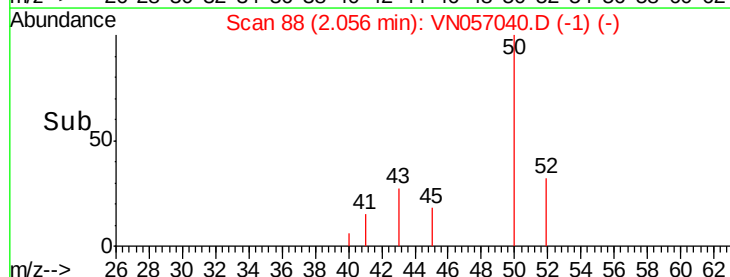
600

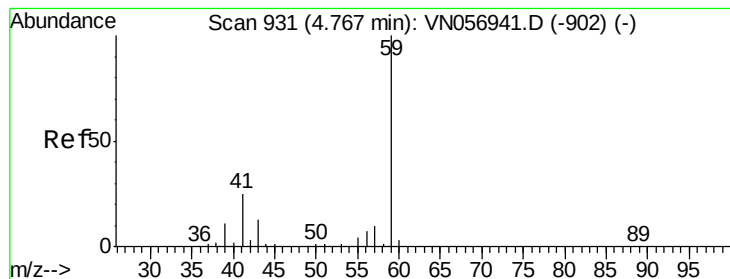
400

200

0

Time-->



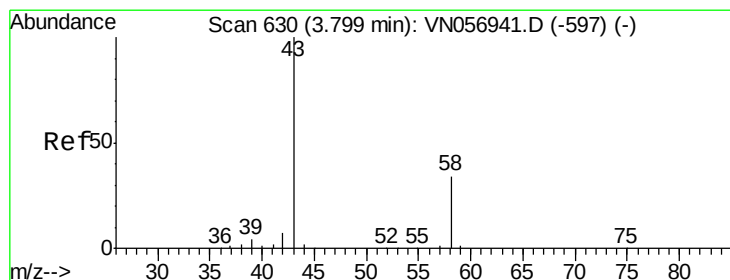
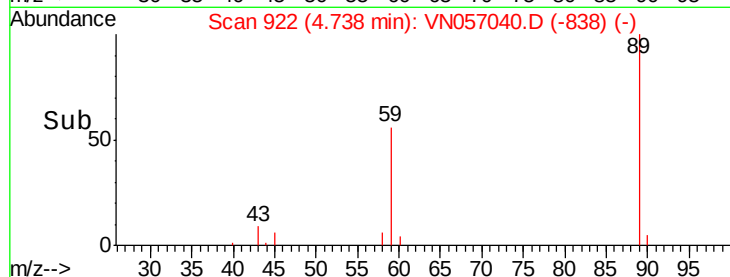
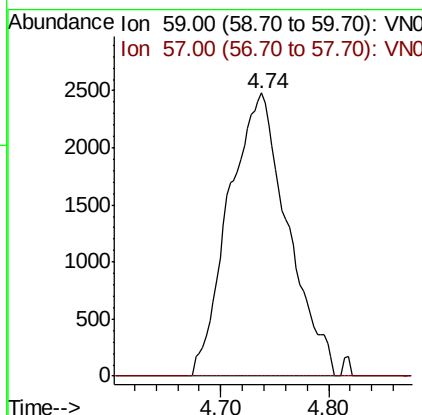
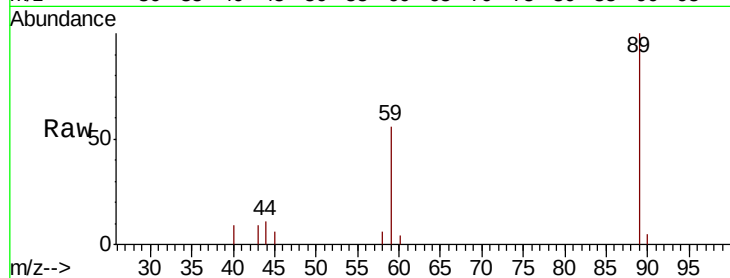


#11

Tert butyl alcohol
 Concen: 12.128 ug/l
 RT: 4.74 min Scan# 922
 Delta R.T. -0.03 min
 Lab File: VN057040.D
 Acq: 1 Aug 2019 16:21

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-578-580

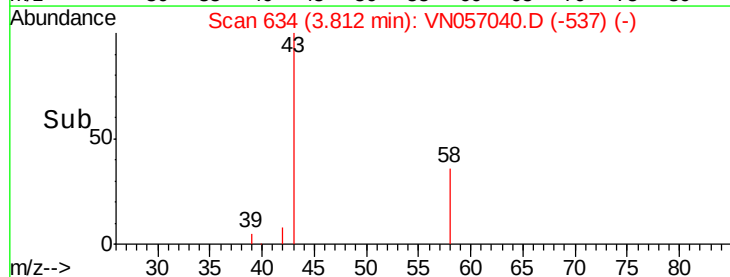
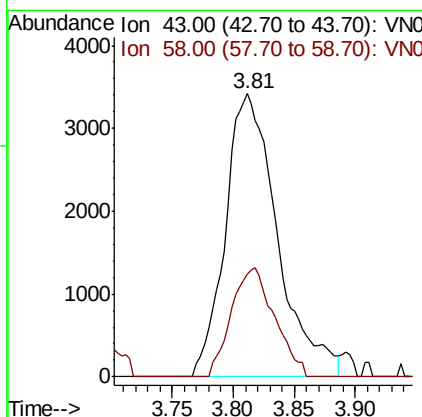
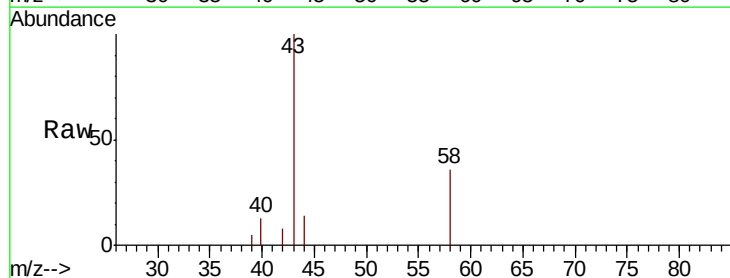
Tot Ion: 59 Resp: 9388
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.5 11.3#

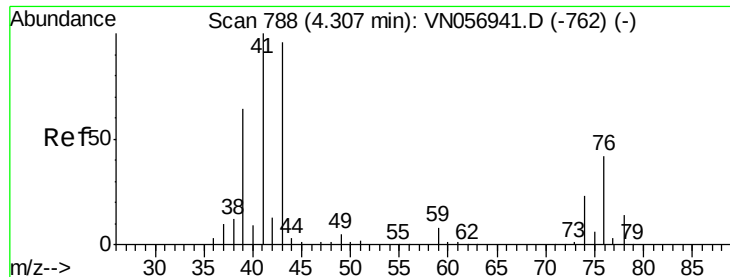


#16

Acetone
 Concen: 4.883 ug/l
 RT: 3.81 min Scan# 634
 Delta R.T. 0.01 min
 Lab File: VN057040.D
 Acq: 1 Aug 2019 16:21

Tgt Ion: 43 Resp: 10131
 Ion Ratio Lower Upper
 43 100
 58 36.3 27.2 40.8

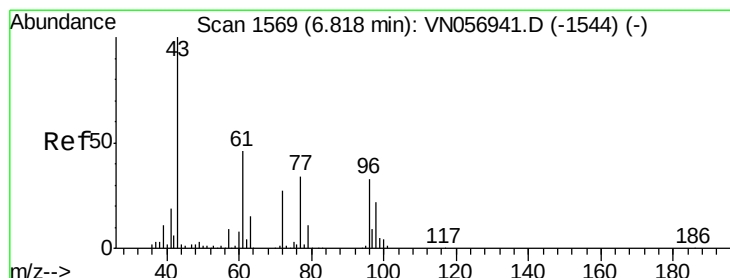
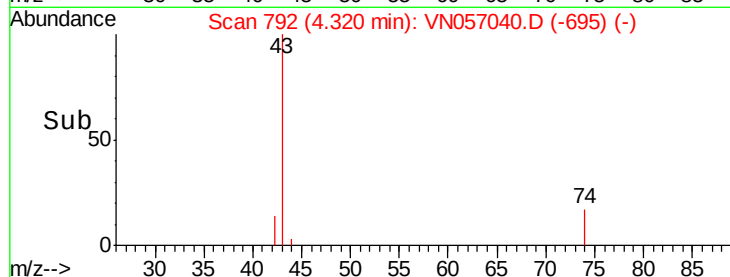
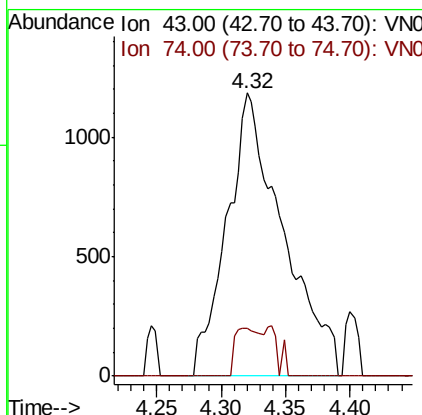
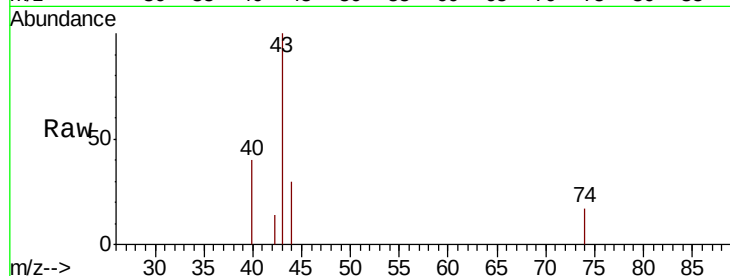




#18
Methyl Acetate
Concen: 0.541 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN057040.D
Acq: 1 Aug 2019 16:21

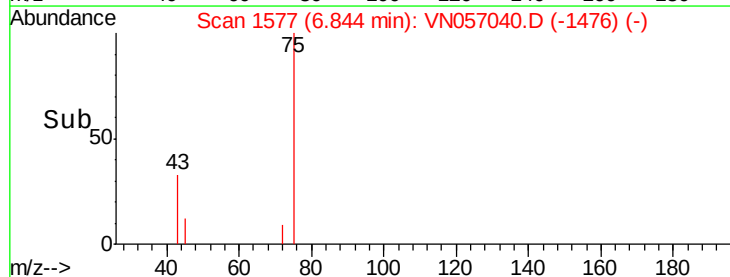
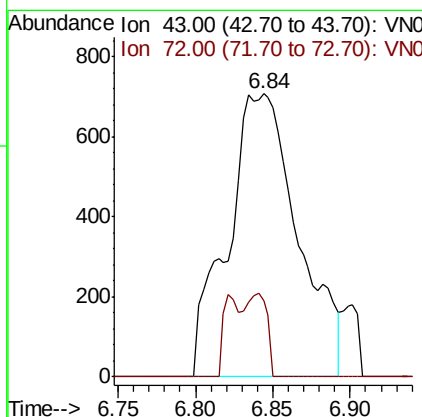
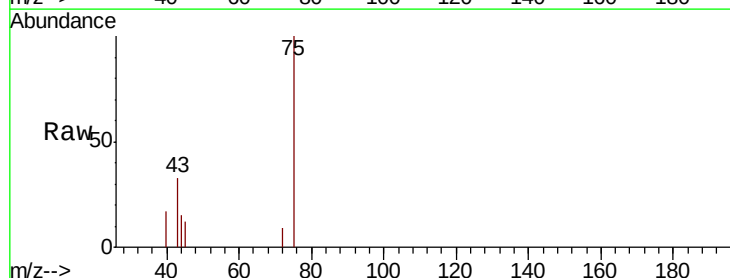
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-578-580

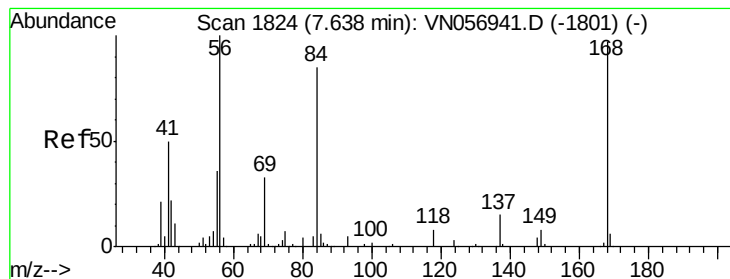
Tot Ion: 43 Resp: 3579
Ion Ratio Lower Upper
43 100
74 8.0 19.7 29.5#



#25
2-Butanone
Concen: 0.762 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.03 min
Lab File: VN057040.D
Acq: 1 Aug 2019 16:21

Tgt Ion: 43 Resp: 2242
Ion Ratio Lower Upper
43 100
72 26.9 21.5 32.3





#31

Cyclohexane

Concen: 0.874 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-578-580

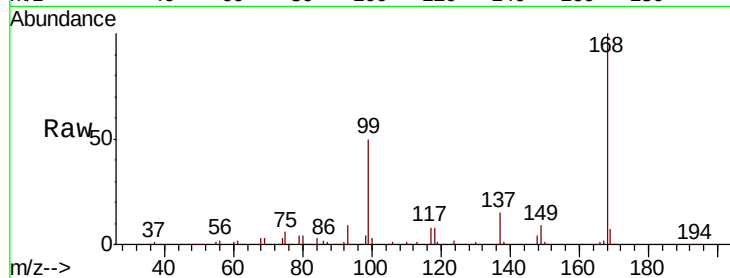
Tot Ion: 56 Resp: 8229

Ion Ratio Lower Upper

56 100

69 203.7 26.2 39.2#

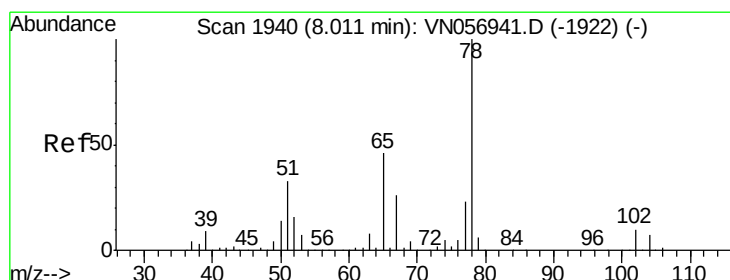
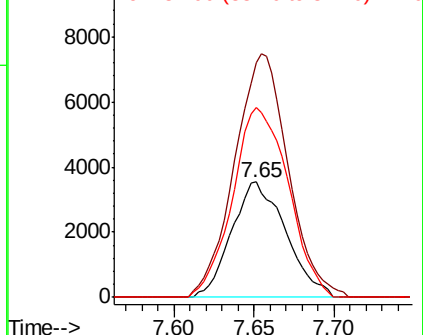
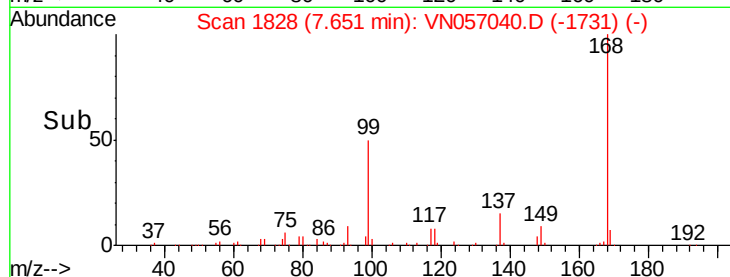
84 164.6 68.2 102.2#



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: 58.206 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.01 min

Lab File: VN057040.D

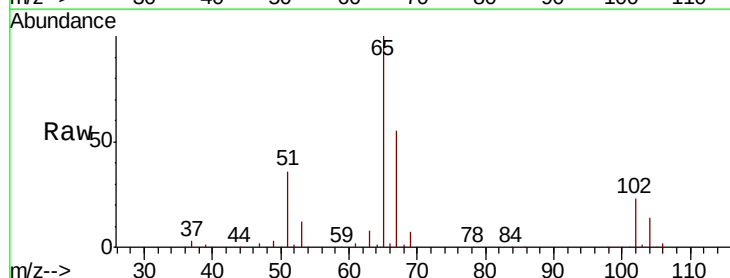
Acq: 1 Aug 2019 16:21

Tgt Ion: 65 Resp: 333332

Ion Ratio Lower Upper

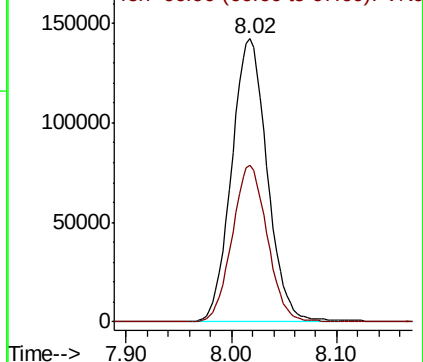
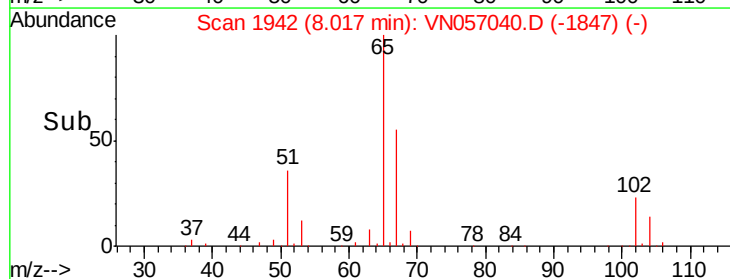
65 100

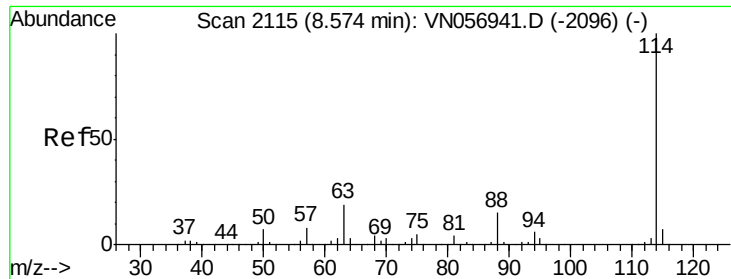
67 54.6 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

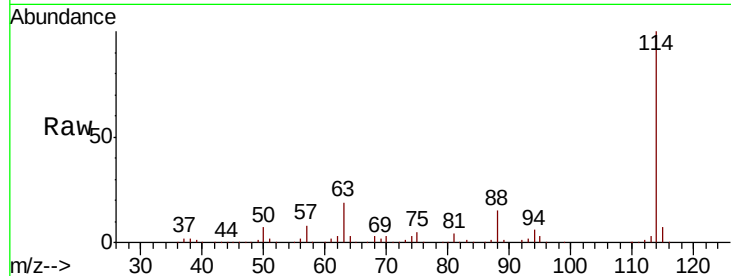




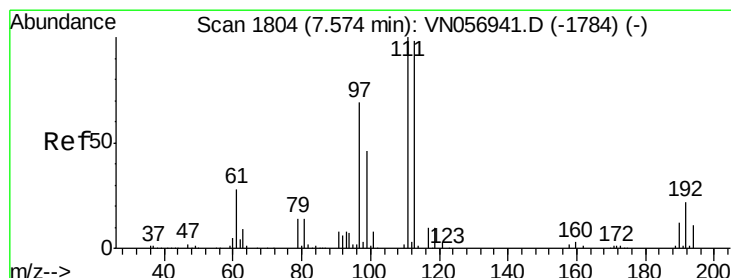
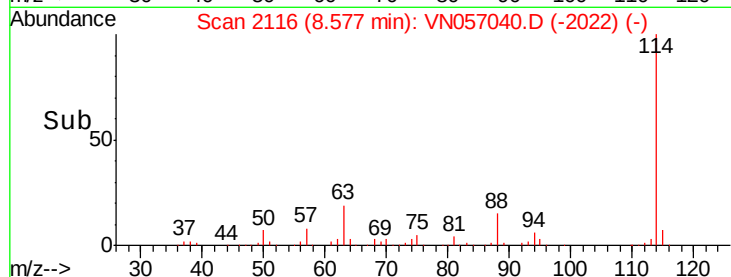
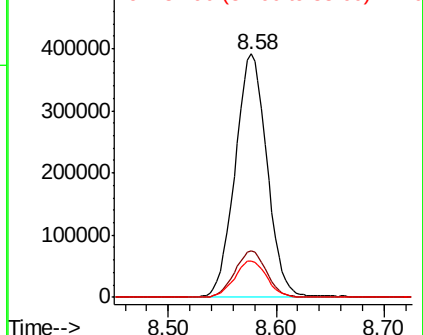
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN057040.D
Acq: 1 Aug 2019 16:21

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-578-580

Tot Ion:114 Resp: 807048
Ion Ratio Lower Upper
114 100
63 19.3 0.0 38.0
88 15.1 0.0 30.0

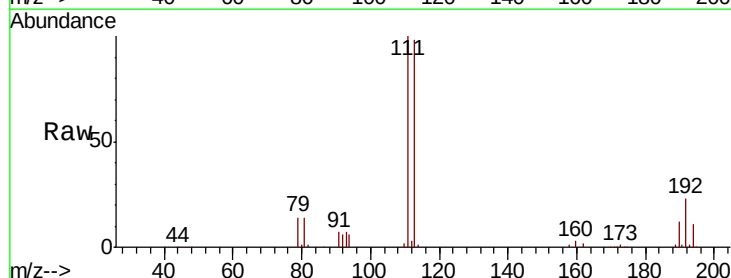


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

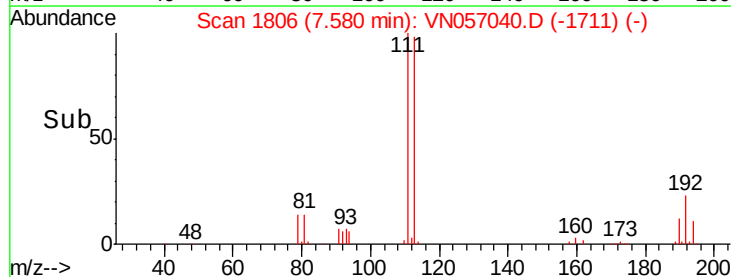
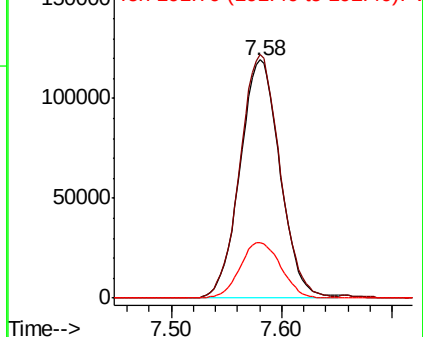


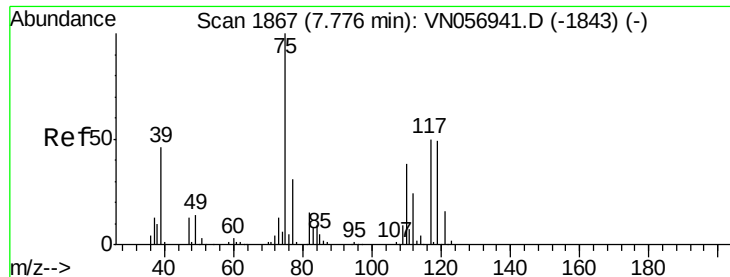
#35
Dibromofluoromethane
Concen: 57.999 ug/l
RT: 7.58 min Scan# 1806
Delta R.T. 0.01 min
Lab File: VN057040.D
Acq: 1 Aug 2019 16:21

Tgt Ion:113 Resp: 299649
Ion Ratio Lower Upper
113 100
111 102.0 82.0 123.0
192 24.0 18.4 27.6



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: 4.854 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.12 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-578-580

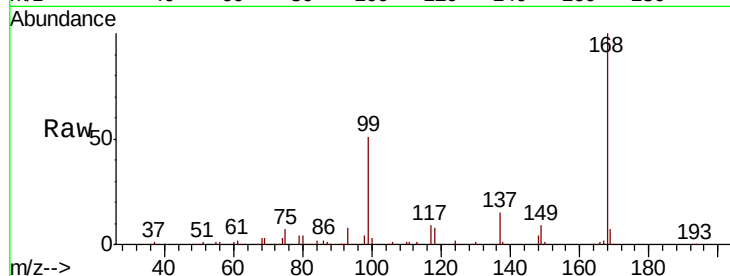
Tot Ion: 75 Resp: 34468

Ion Ratio Lower Upper

75 100

110 9.2 18.6 55.8#

77 0.0 25.2 37.8#

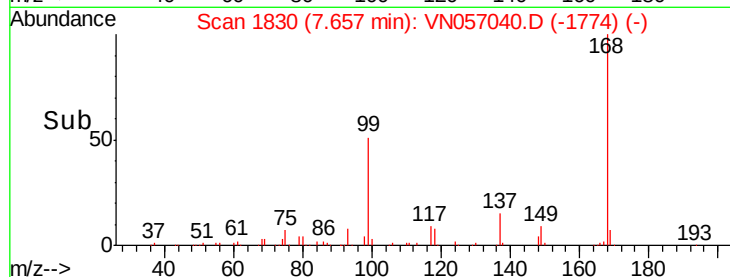


Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-1843) (-)

Ion 109.90 (109.60 to 110.60): VN056941.D (-1843) (-)

Ion 76.90 (76.60 to 77.60): VN056941.D (-1843) (-)

Time-->

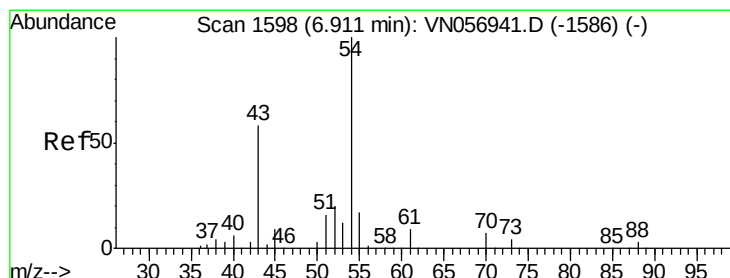


Abundance Ion 74.90 (74.60 to 75.60): VN057040.D (-1774) (-)

Ion 109.90 (109.60 to 110.60): VN057040.D (-1774) (-)

Ion 76.90 (76.60 to 77.60): VN057040.D (-1774) (-)

Time-->



#37

Ethyl Acetate

Concen: 0.394 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.07 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

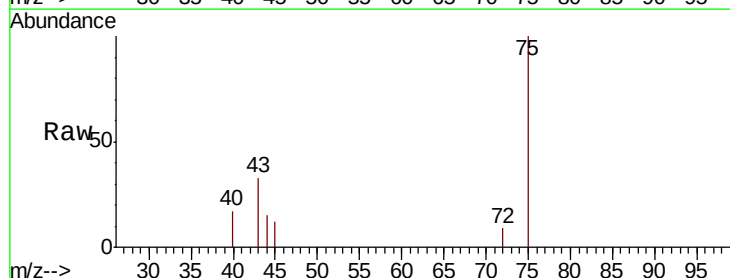
Tgt Ion: 43 Resp: 2242

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

70 0.0 8.5 12.7#

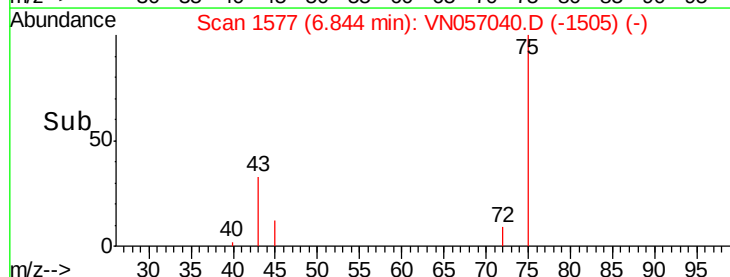


Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-1586) (-)

Ion 60.90 (60.60 to 61.60): VN056941.D (-1586) (-)

Ion 70.00 (69.70 to 70.70): VN056941.D (-1586) (-)

Time-->

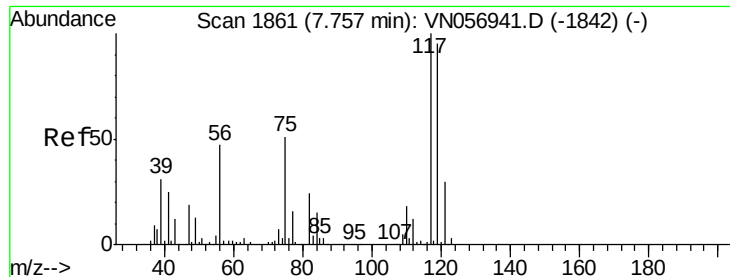


Abundance Ion 43.00 (42.70 to 43.70): VN057040.D (-1505) (-)

Ion 60.90 (60.60 to 61.60): VN057040.D (-1505) (-)

Ion 70.00 (69.70 to 70.70): VN057040.D (-1505) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 7.083 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.10 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-578-580

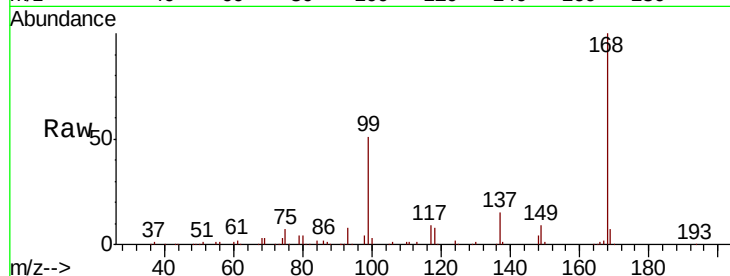
Tot Ion:117 Resp: 47581

Ion Ratio Lower Upper

117 100

119 4.4 75.3 112.9#

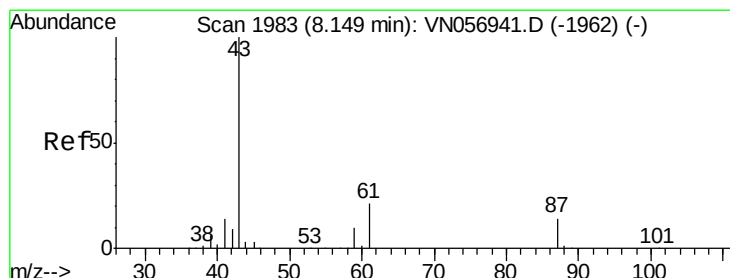
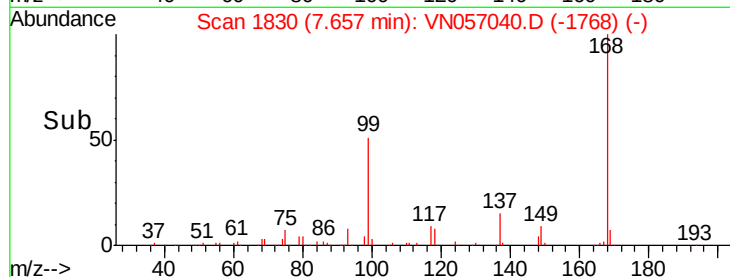
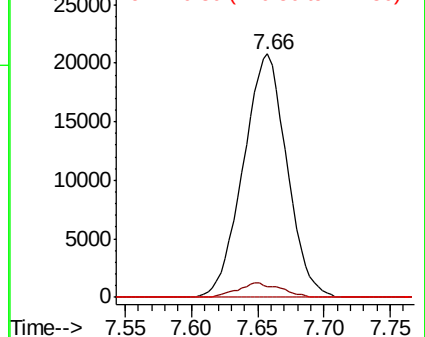
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.774 ug/l

RT: 8.25 min Scan# 2013

Delta R.T. 0.10 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

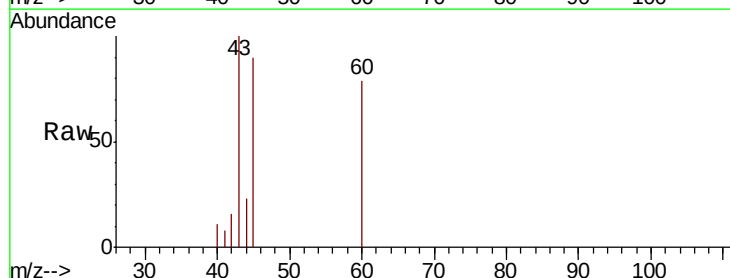
Tgt Ion: 43 Resp: 7272

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

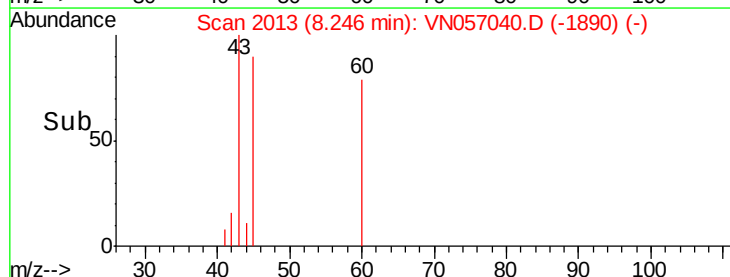
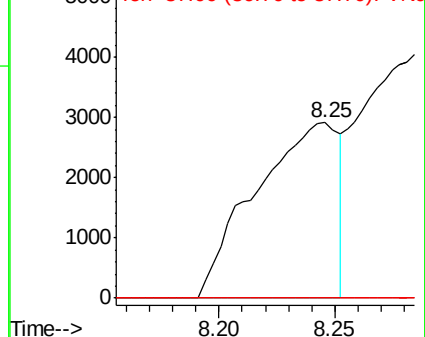
87 0.0 11.7 17.5#

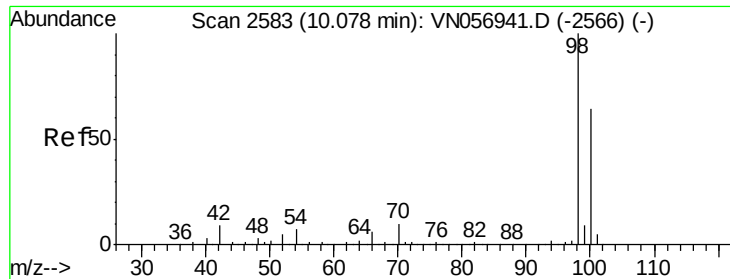


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 57.515 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

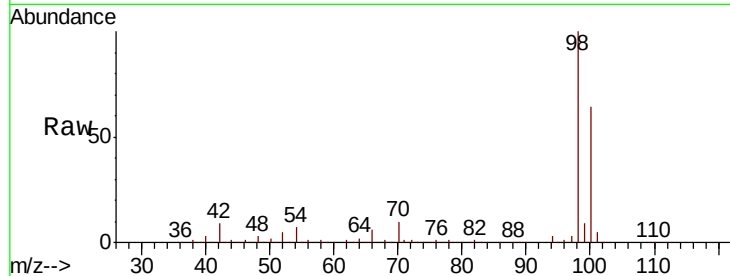
BP-VPB203-GW-578-580

Tot Ion: 98 Resp: 1133160

Ion Ratio Lower Upper

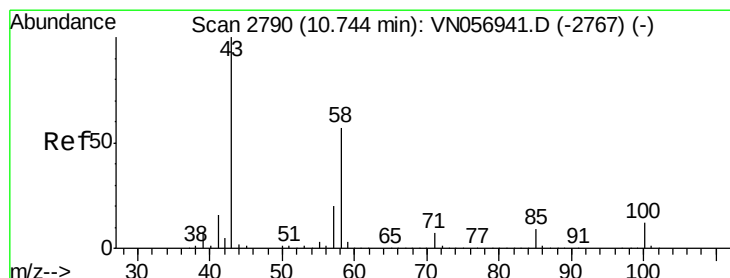
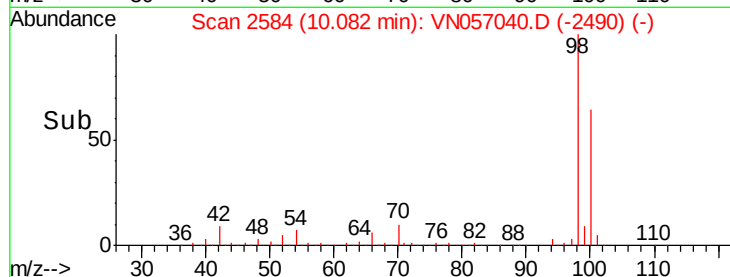
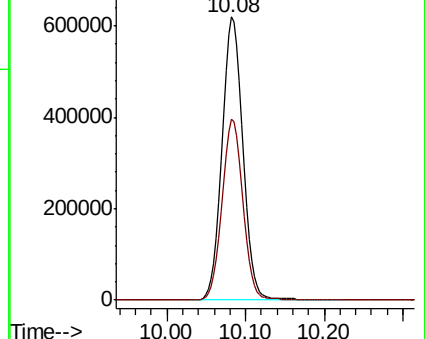
98 100

100 63.7 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#59

2-Hexanone

Concen: 2.686 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN057040.D

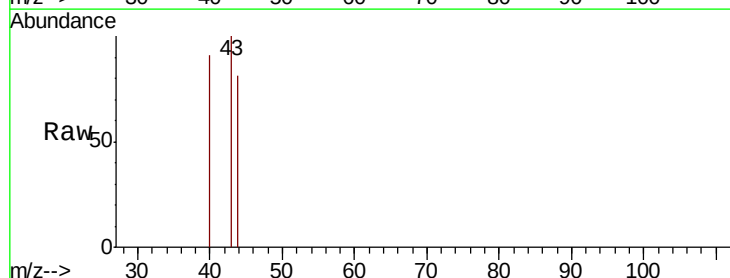
Acq: 1 Aug 2019 16:21

Tgt Ion: 43 Resp: 807

Ion Ratio Lower Upper

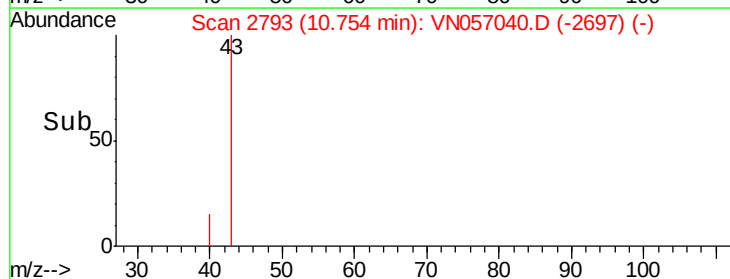
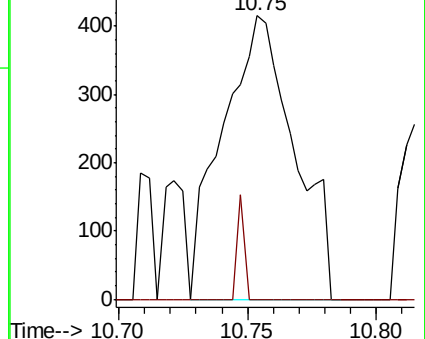
43 100

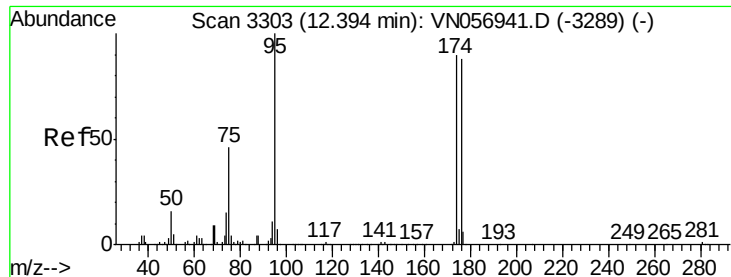
58 3.7 28.5 85.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.547 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-578-580

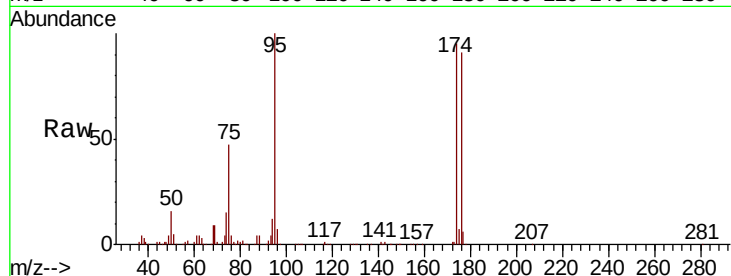
Tot Ion: 95 Resp: 292137

Ion Ratio Lower Upper

95 100

174 95.4 0.0 182.2

176 90.4 0.0 179.4



Abundance Ion 94.90 (94.60 to 95.60): VN056941.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN056941.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN056941.D (-3289) (-)

12.40

200000

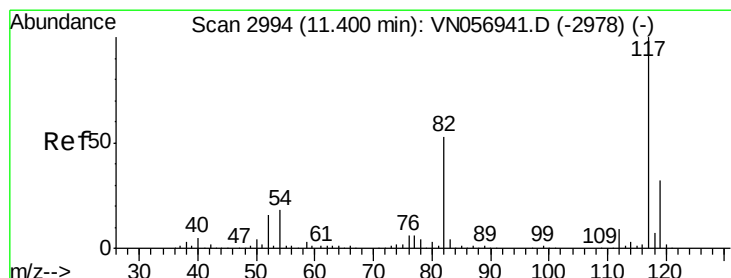
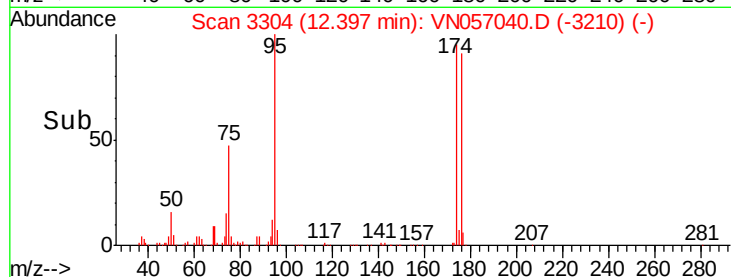
150000

100000

50000

0

Time--> 12.30 12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

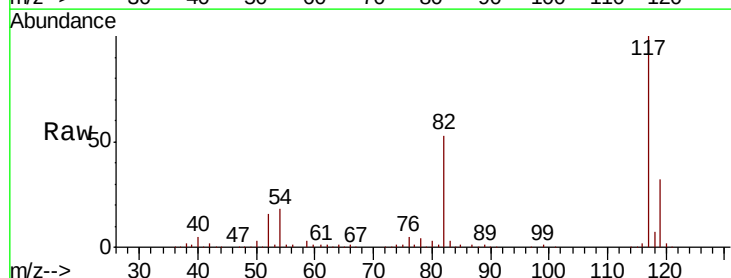
Tgt Ion: 117 Resp: 666008

Ion Ratio Lower Upper

117 100

82 53.2 42.2 63.4

119 32.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN056941.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN056941.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN056941.D (-2978) (-)

11.40

500000

400000

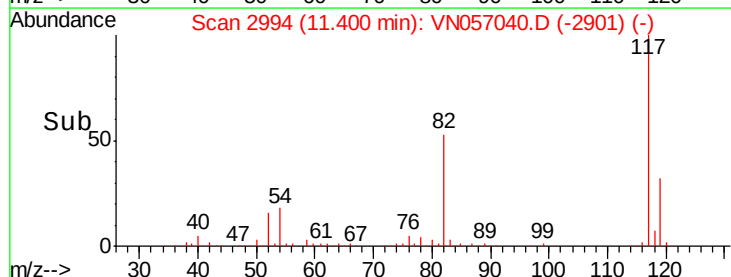
300000

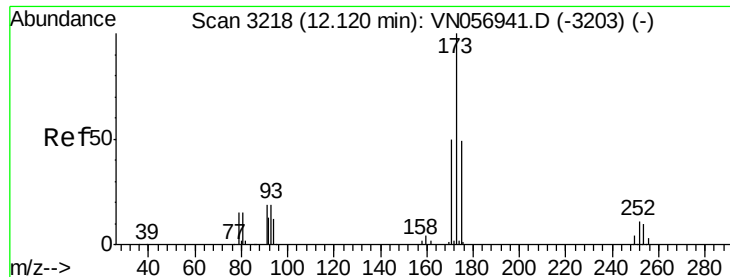
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.650 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-578-580

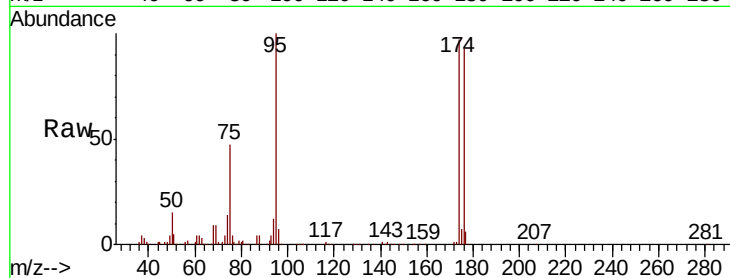
Tot Ion:173 Resp: 2319

Ion Ratio Lower Upper

173 100

175 695.0 24.1 72.4#

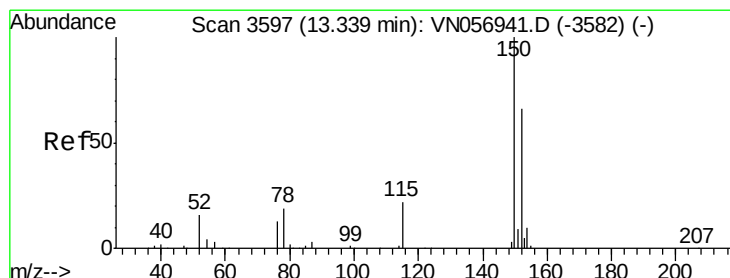
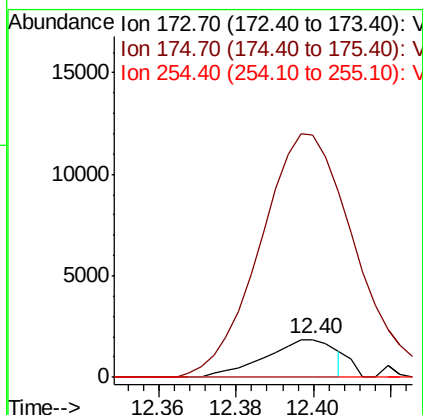
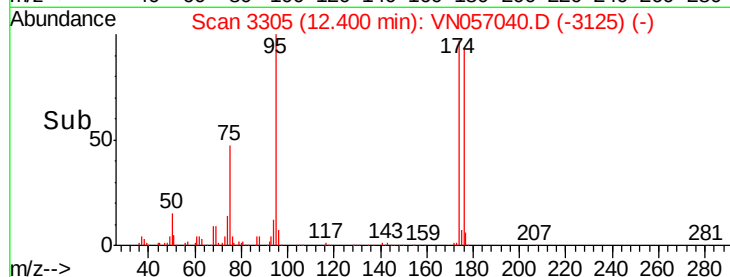
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

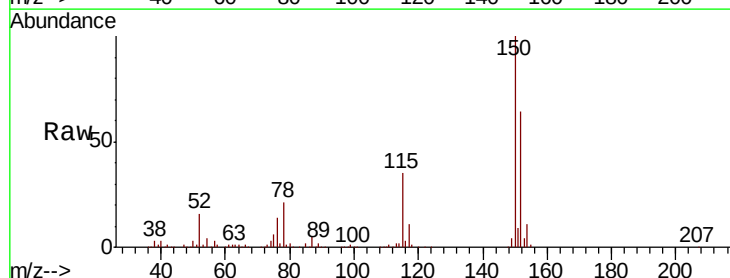
Tgt Ion:152 Resp: 180344

Ion Ratio Lower Upper

152 100

115 54.6 28.2 84.6

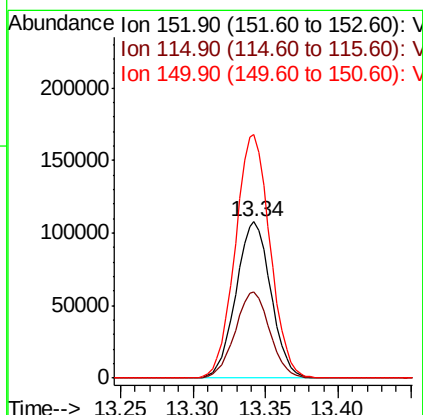
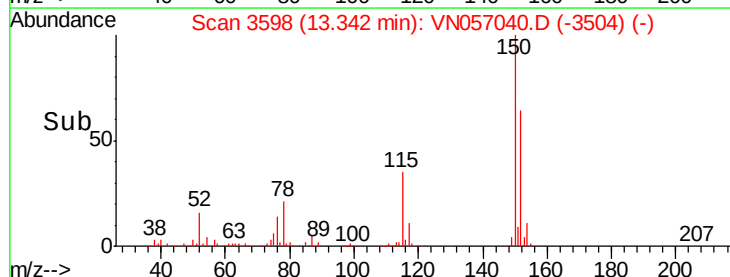
150 155.6 0.0 349.4

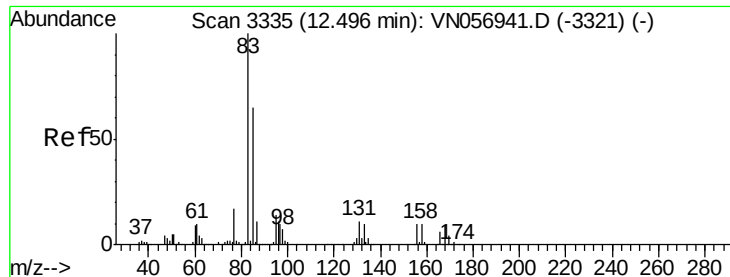


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-578-580

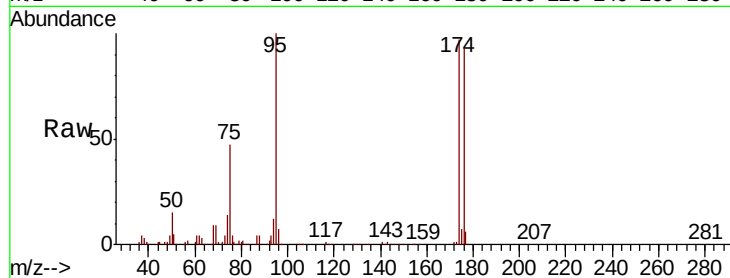
Tot Ion: 83 Resp: 112

Ion Ratio Lower Upper

83 100

131 224.1 5.3 16.1#

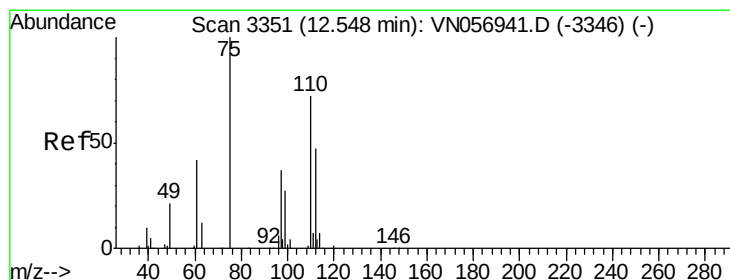
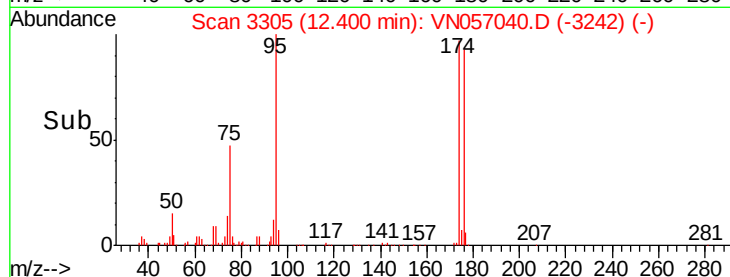
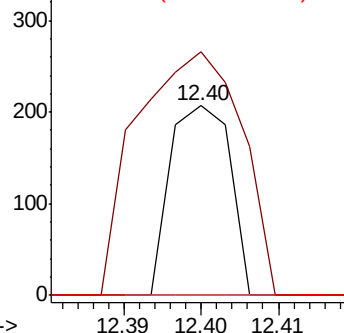
85 0.0 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 36.933 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057040.D

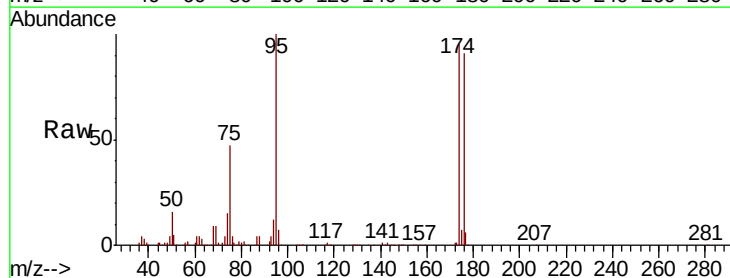
Acq: 1 Aug 2019 16:21

Tgt Ion: 75 Resp: 135267

Ion Ratio Lower Upper

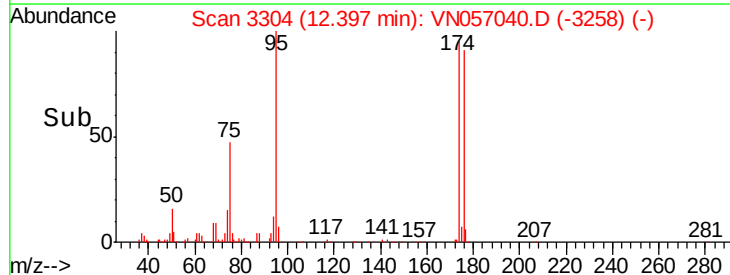
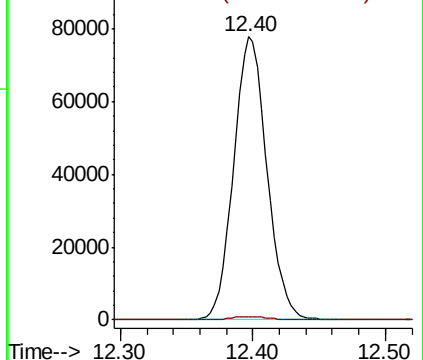
75 100

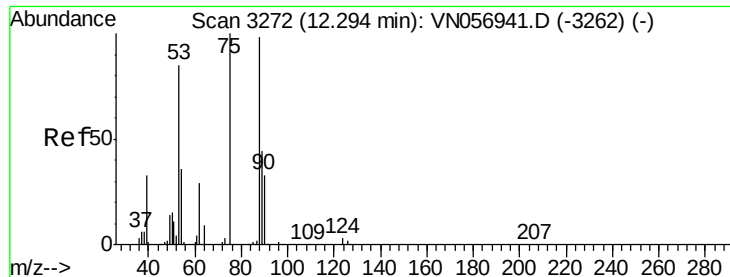
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 118.665 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-578-580

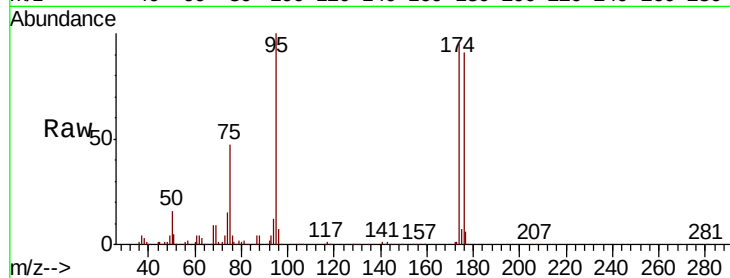
Tot Ion: 75 Resp: 135267

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

89 0.0 35.8 53.6#

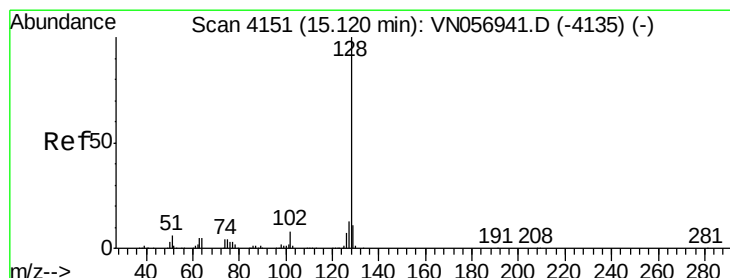
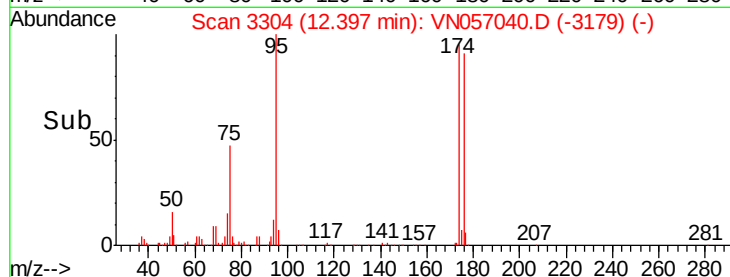
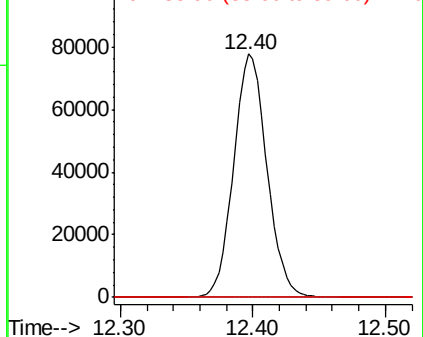


Abundance

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



#95

Naphthalene

Concen: 3.596 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.01 min

Lab File: VN057040.D

Acq: 1 Aug 2019 16:21

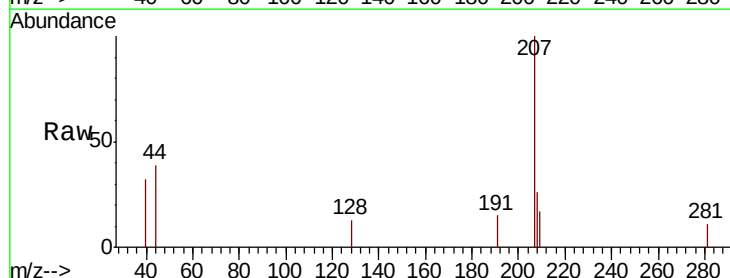
Tgt Ion: 128 Resp: 69

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



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

