

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056062.D
 Acq On : 6 Jun 2019 22:53
 Operator : JC/SP
 Sample : K3190-21
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-EB01-20190604

Quant Time: Jun 07 05:32:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

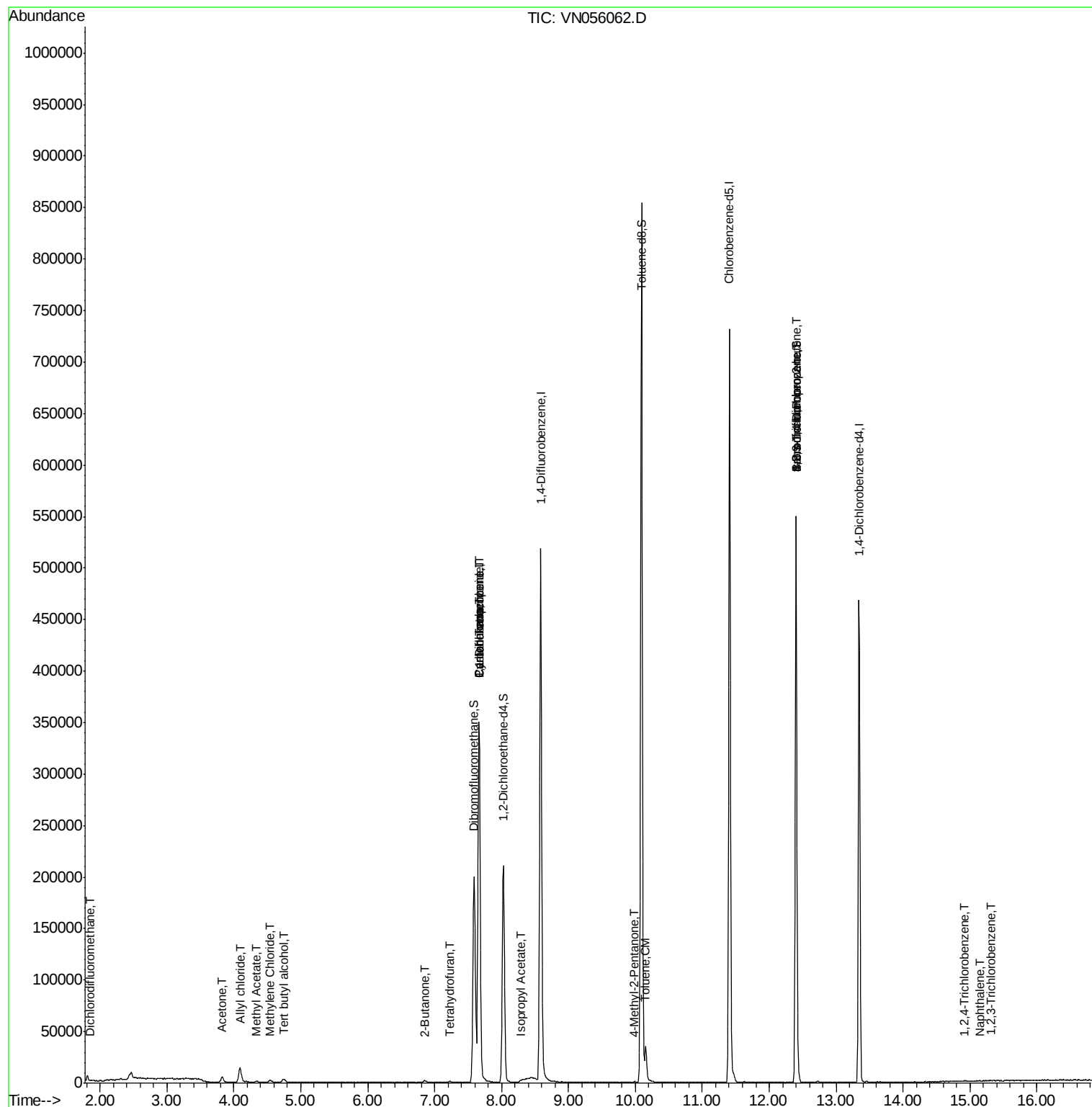
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	330592	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	500604	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	466746	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	143462	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	177342	54.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.06%	
35) Dibromofluoromethane	7.59	113	153578	50.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.00%	
50) Toluene-d8	10.09	98	637049	53.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.80%	
62) 4-Bromofluorobenzene	12.40	95	197652	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.84	85	65	0.372	ug/l #	42
11) Tert butyl alcohol	4.74	59	3480	6.092	ug/l #	74
14) Allyl chloride	4.09	41	2401	0.548	ug/l #	70
16) Acetone	3.82	43	9515	6.061	ug/l	98
18) Methyl Acetate	4.33	43	2966	0.388	ug/l #	70
20) Methylene Chloride	4.55	84	1554	0.480	ug/l	97
25) 2-Butanone	6.87	43	1541	0.777	ug/l #	47
29) Tetrahydrofuran	7.24	42	758	0.618	ug/l	89
31) Cyclohexane	7.66	56	5038	0.967	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19700	4.577	ug/l #	49
38) Carbon Tetrachloride	7.66	117	27280	6.874	ug/l #	14
43) Isopropyl Acetate	8.29	43	1989	0.320	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1329	0.342	ug/l #	59
52) Toluene	10.15	92	12665	1.557	ug/l	94
71) Bromoform	12.40	173	1282	3.192	ug/l #	1
73) Isopropylbenzene	12.25	105	66	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	88783	33.633	ug/l #	100
79) 2-Chlorotoluene	12.59	91	364	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	88783	112.004	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	236	4.351	ug/l #	64
95) Naphthalene	15.14	128	616	3.934	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	264	3.123	ug/l #	85

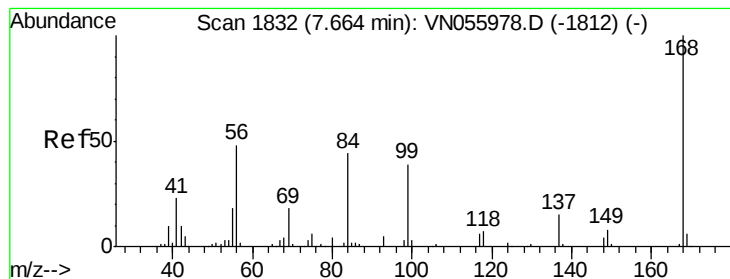
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

Instrument :

MSVOA_N

ClientSampleId :

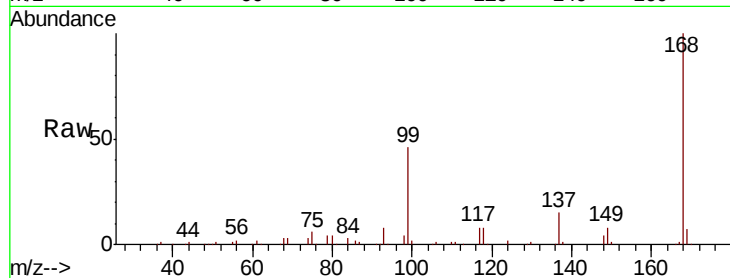
BP-EB01-20190604

Tot Ion:168 Resp: 330592

Ion Ratio Lower Upper

168 100

99 45.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

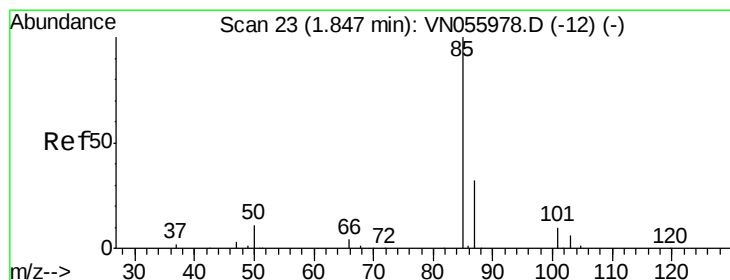
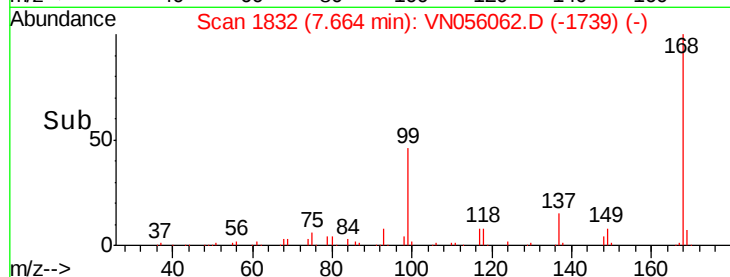
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.372 ug/l

RT: 1.84 min Scan# 22

Delta R.T. -0.00 min

Lab File: VN056062.D

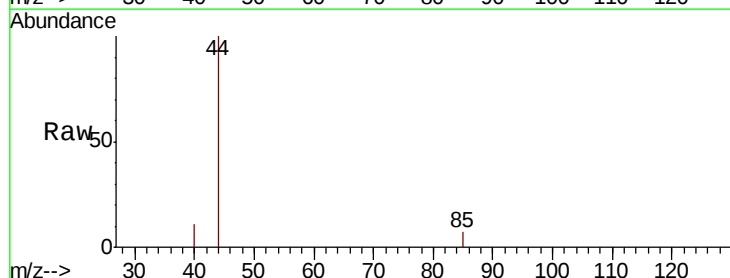
Acq: 6 Jun 2019 22:53

Tgt Ion: 85 Resp: 65

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VN055978.D (-12) (-)

Ion 86.90 (86.60 to 87.60): VN055978.D (-12) (-)

1.84

200

150

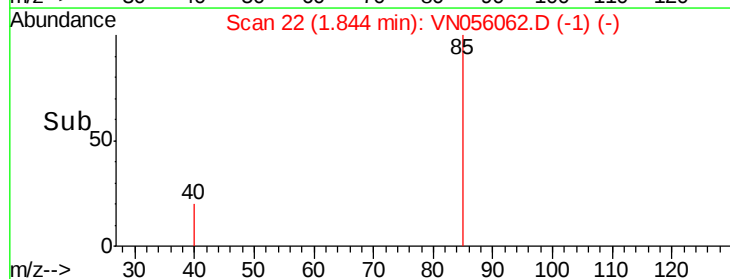
100

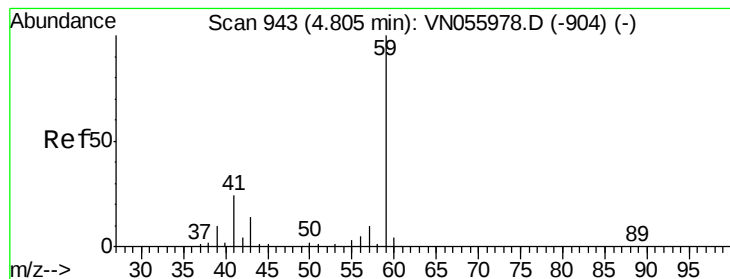
50

0

1.83 1.84 1.85

Time-->



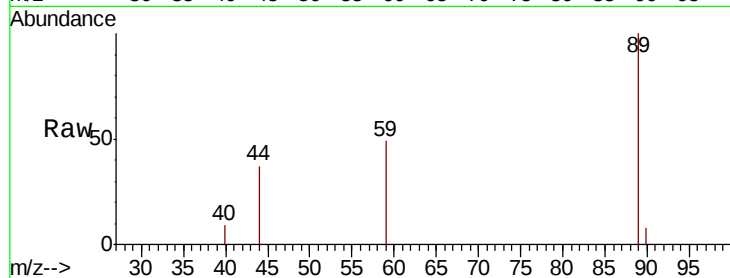


#11

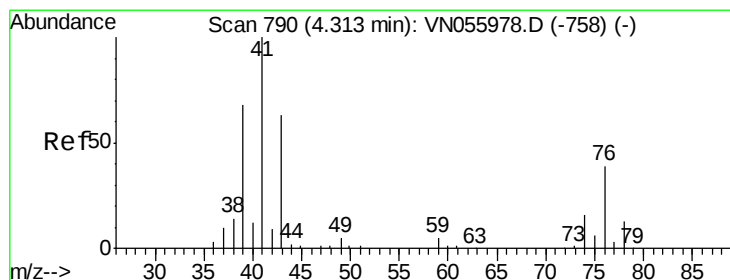
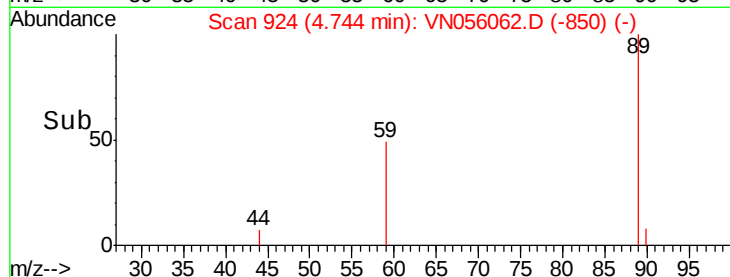
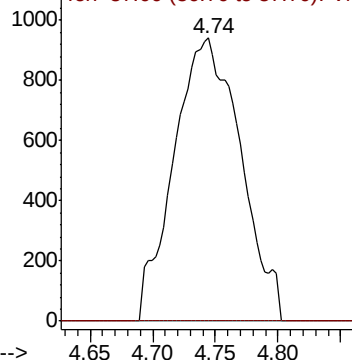
Tert butyl alcohol
 Concen: 6.092 ug/l
 RT: 4.74 min Scan# 924
 Delta R.T. -0.06 min
 Lab File: VN056062.D
 Acq: 6 Jun 2019 22:53

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-EB01-20190604

Tot Ion: 59 Resp: 3480
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



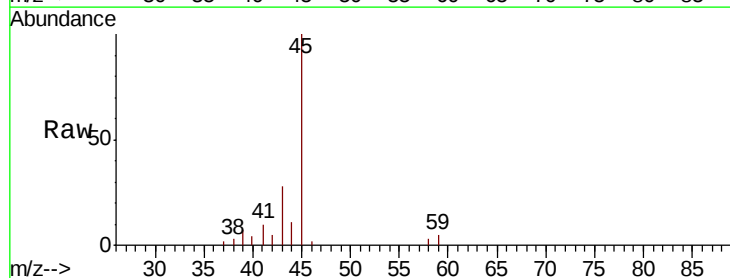
Abundance Ion 59.00 (58.70 to 59.70): VN0
 Ion 57.00 (56.70 to 57.70): VN0



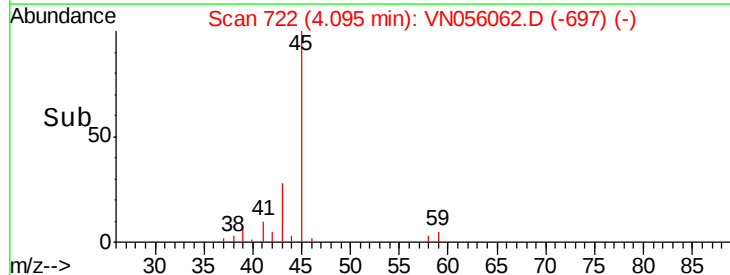
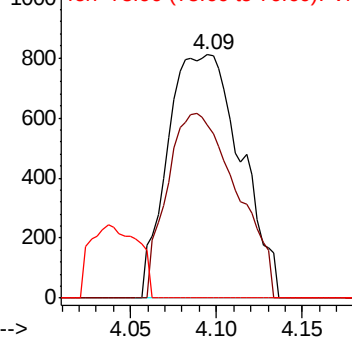
#14

Allyl chloride
 Concen: 0.548 ug/l
 RT: 4.09 min Scan# 722
 Delta R.T. -0.22 min
 Lab File: VN056062.D
 Acq: 6 Jun 2019 22:53

Tgt Ion: 41 Resp: 2401
 Ion Ratio Lower Upper
 41 100
 39 72.2 50.0 75.0
 76 0.0 28.2 42.2#



Abundance Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0
 Ion 75.90 (75.60 to 76.60): VN0





#16

Acetone

Concen: 6.061 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

Instrument :

MSVOA_N

ClientSampleId :

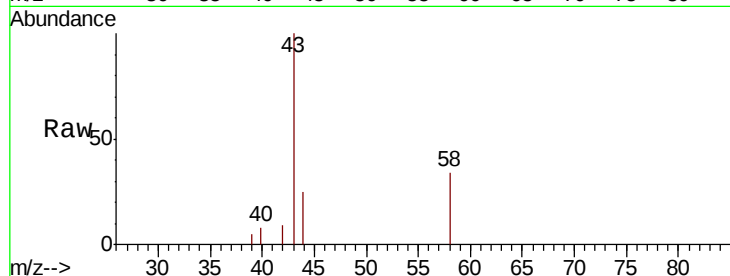
BP-EB01-20190604

Tot Ion: 43 Resp: 9515

Ion Ratio Lower Upper

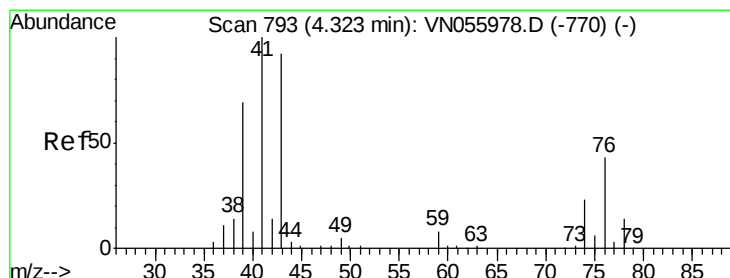
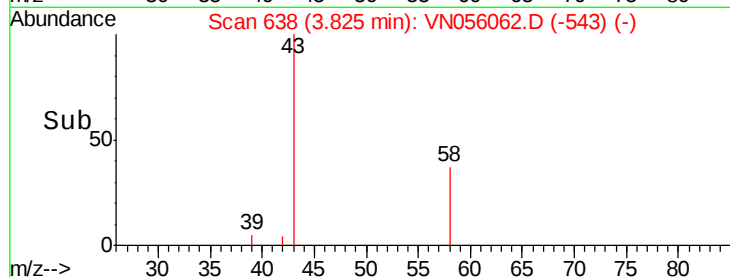
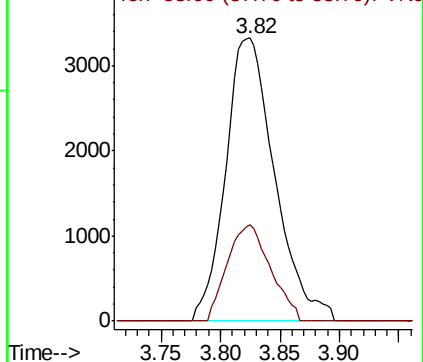
43 100

58 34.1 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.388 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN056062.D

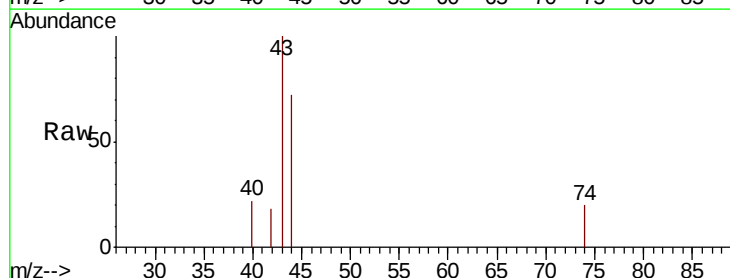
Acq: 6 Jun 2019 22:53

Tgt Ion: 43 Resp: 2966

Ion Ratio Lower Upper

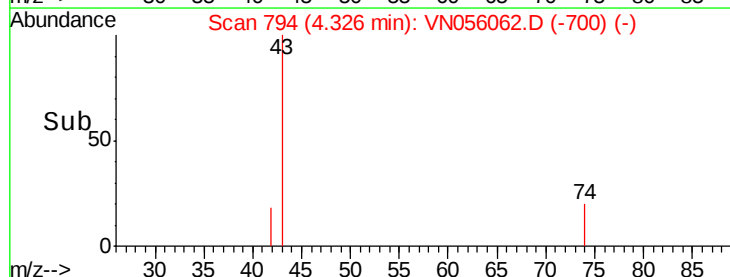
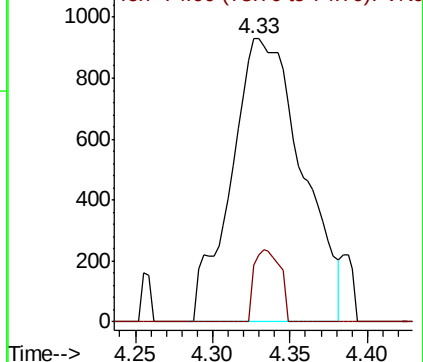
43 100

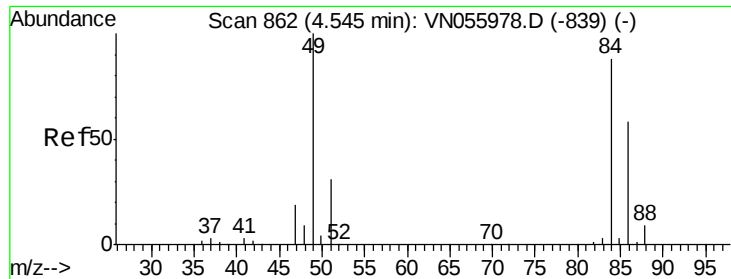
74 9.4 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

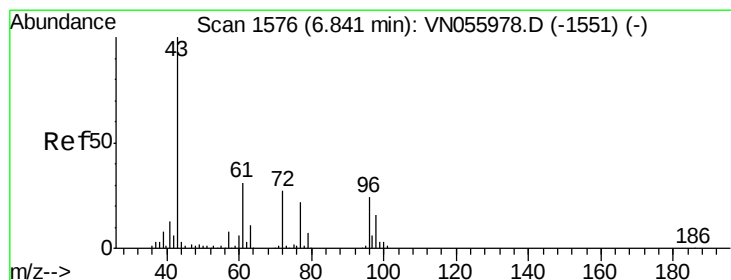
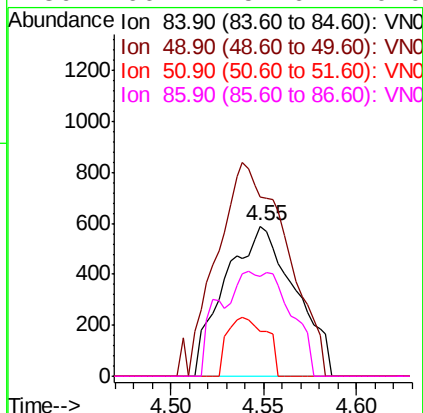
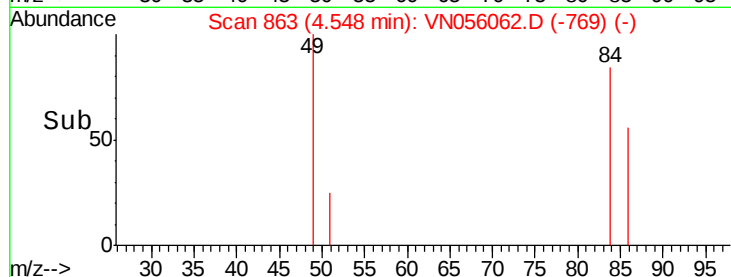
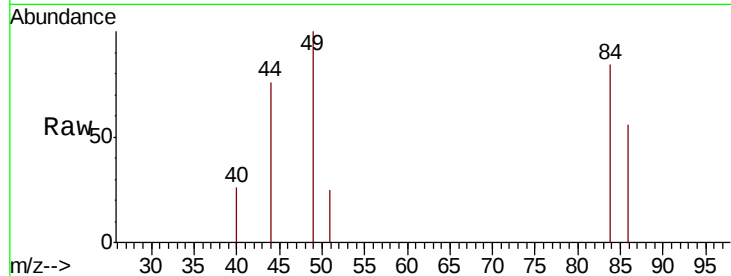




#20
Methvlene Chloride
Concen: 0.480 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

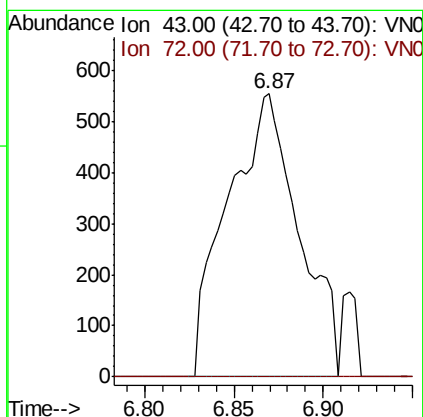
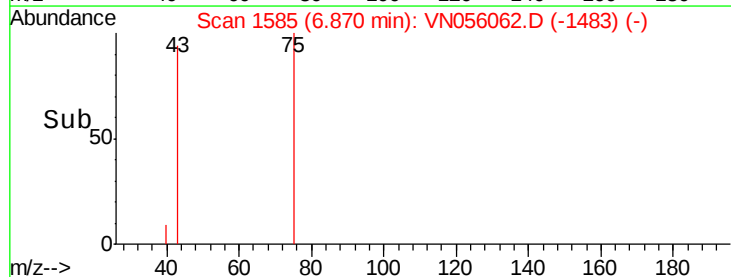
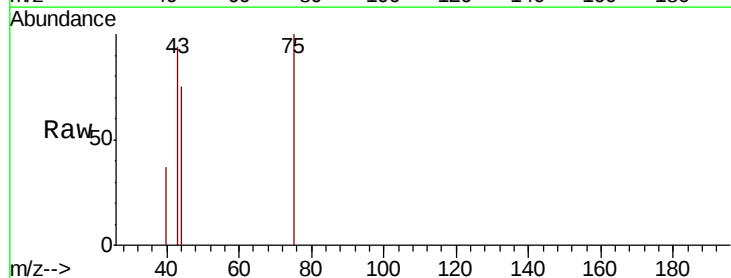
Instrument :
MSVOA_N
ClientSampleId :
BP-EB01-20190604

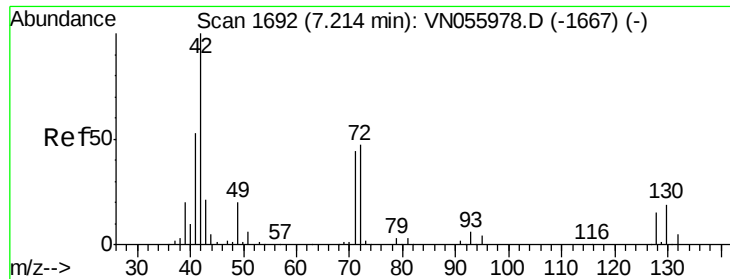
Tot Ion: 84 Resp: 1554
Ion Ratio Lower Upper
84 100
49 119.5 93.5 140.3
51 30.1 28.6 43.0
86 66.7 52.6 79.0



#25
2-Butanone
Concen: 0.777 ug/l
RT: 6.87 min Scan# 1585
Delta R.T. 0.03 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

Tgt Ion: 43 Resp: 1541
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#

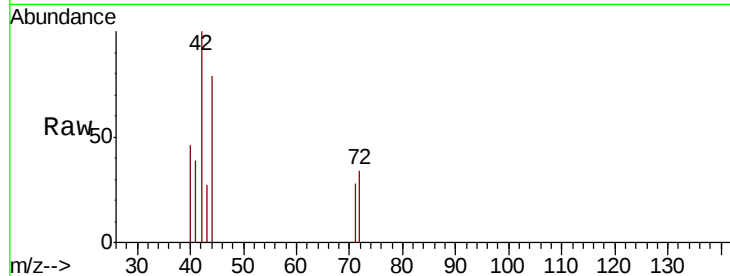




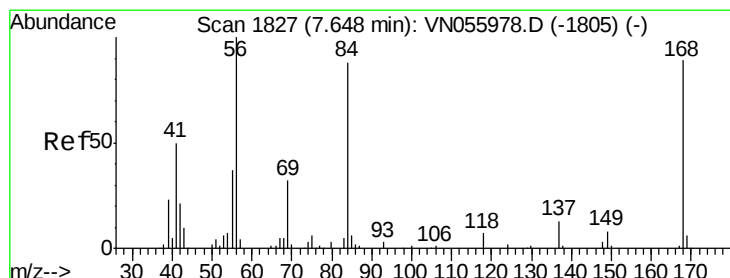
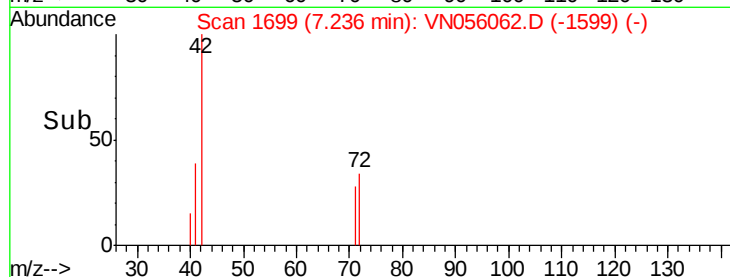
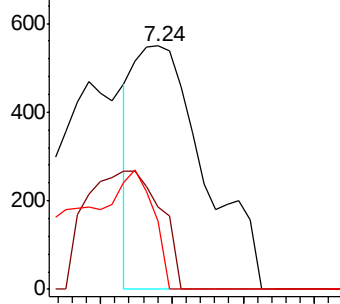
#29
Tetrahydrofuran
Concen: 0.618 ug/l
RT: 7.24 min Scan# 1699
Delta R.T. 0.02 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

Instrument :
MSVOA_N
ClientSampleId :
BP-EB01-20190604

Tot Ion: 42 Resp: 758
Ion Ratio Lower Upper
42 100
72 50.9 35.9 53.9
71 50.3 34.0 51.0

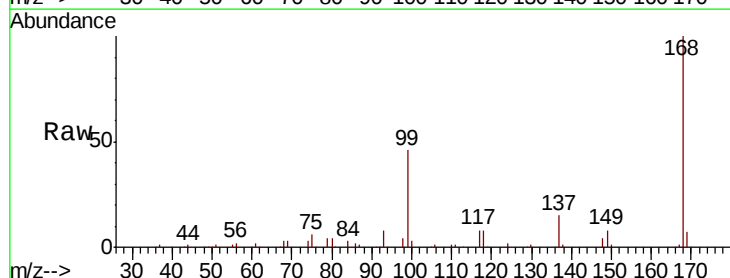


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

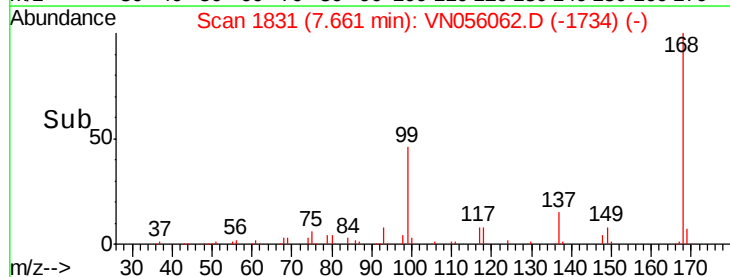
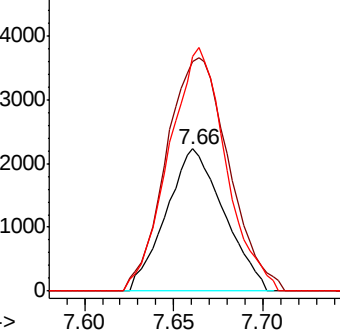


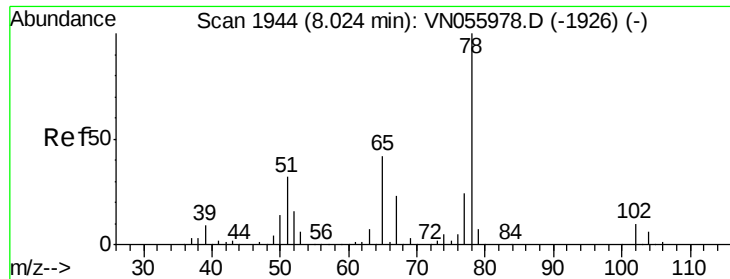
#31
Cyclohexane
Concen: 0.967 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

Tgt Ion: 56 Resp: 5038
Ion Ratio Lower Upper
56 100
69 161.5 25.6 38.4#
84 164.9 67.4 101.0#



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

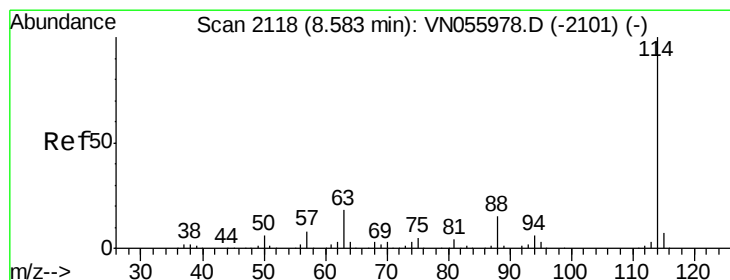
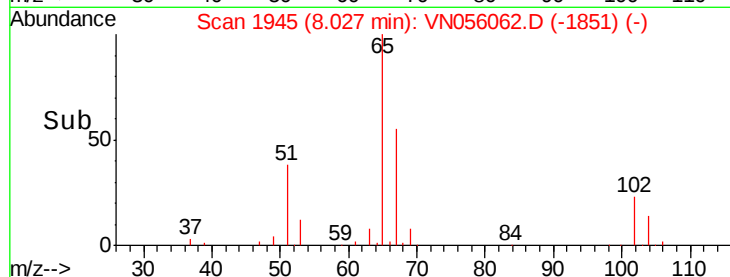
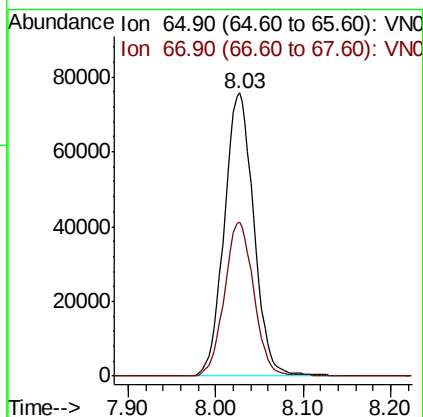
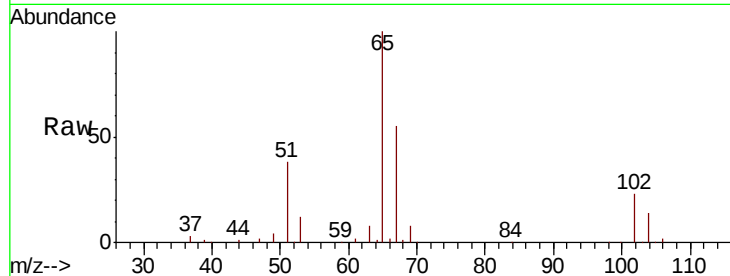




#33
 1,2-Dichloroethane-d4
 Concen: 54.027 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056062.D
 Acq: 6 Jun 2019 22:53

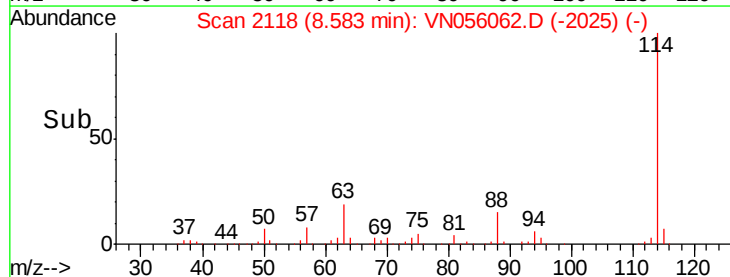
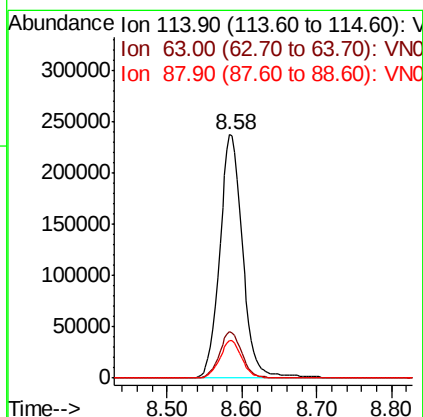
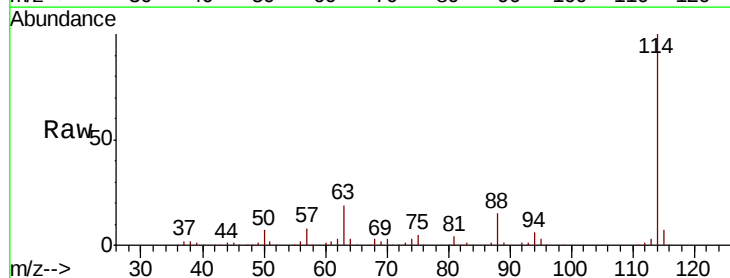
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 MSVOA_N
 ClientSampleId :
 BP-EB01-20190604

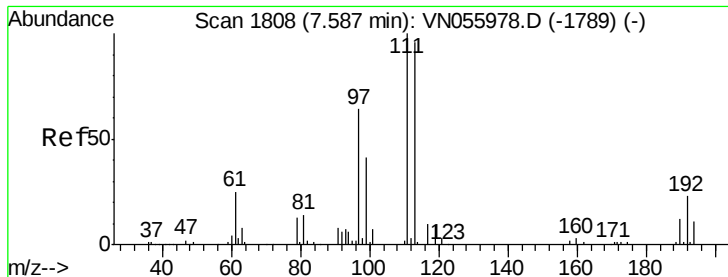
Tot Ion: 65 Resp: 177342
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056062.D
 Acq: 6 Jun 2019 22:53

Tgt Ion: 114 Resp: 500604
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 15.3 0.0 31.0

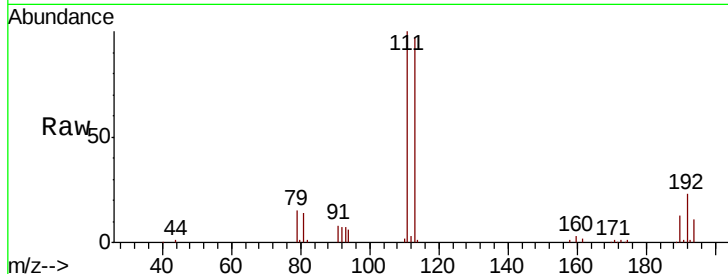




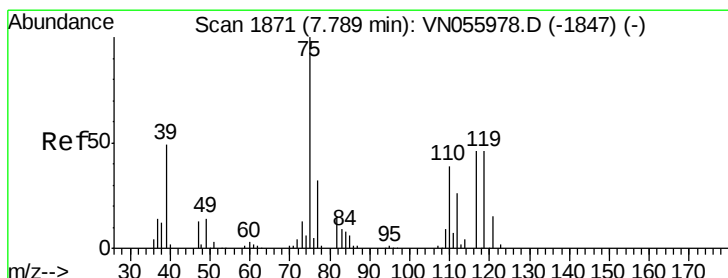
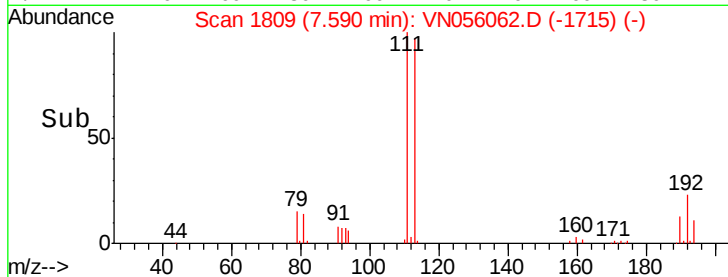
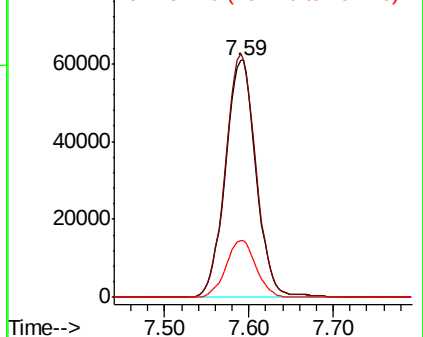
#35
Dibromofluoromethane
Concen: 50.003 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

Instrument :
MSVOA_N
ClientSampleId :
BP-EB01-20190604

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.9	122.9
192	23.6	19.5	29.3

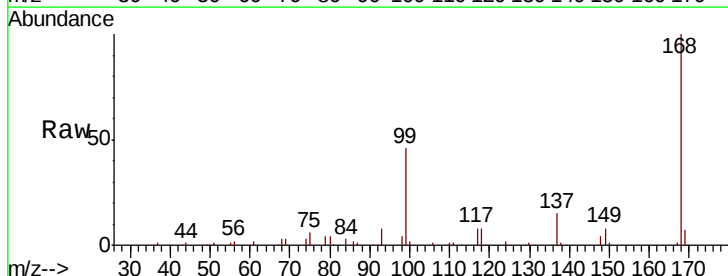


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

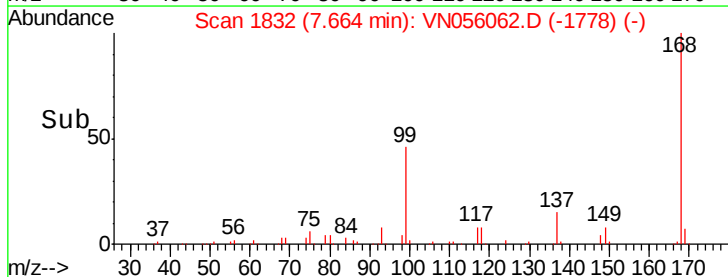
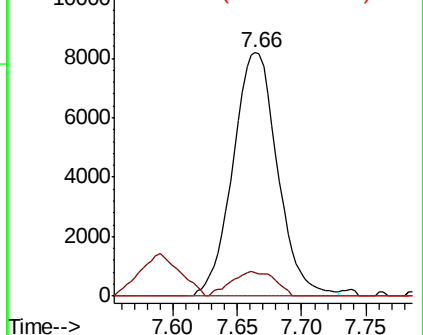


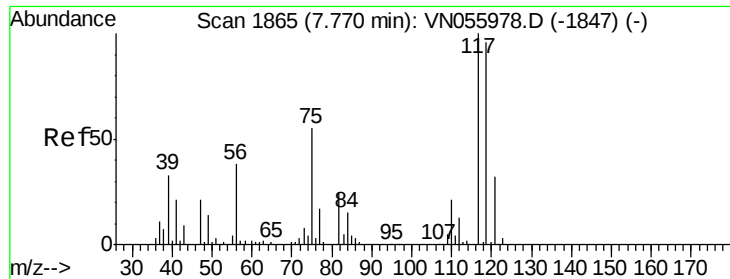
#36
1,1-Dichloropropene
Concen: 4.577 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.13 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	19.0	57.0#
77	0.0	25.1	37.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO

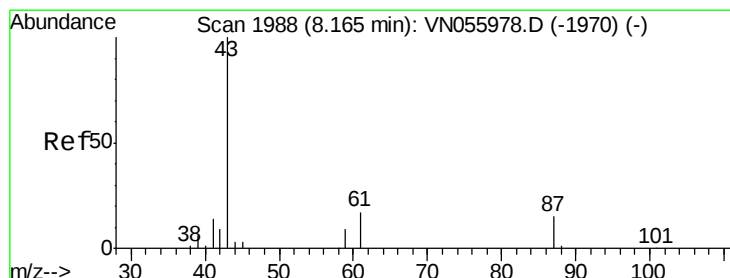
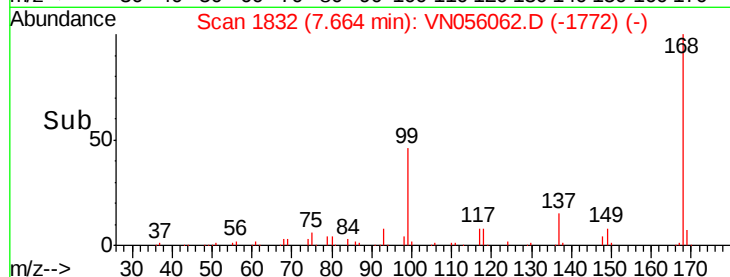
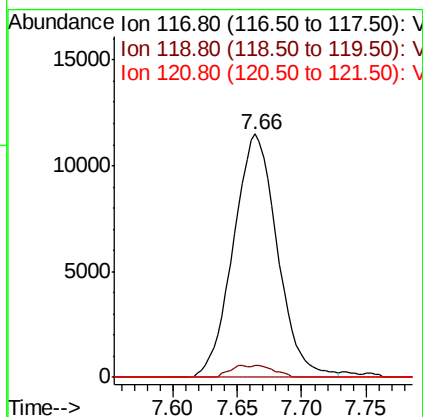
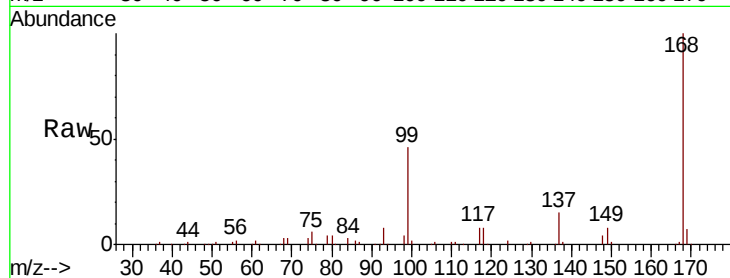




#38
Carbon Tetrachloride
Concen: 6.874 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

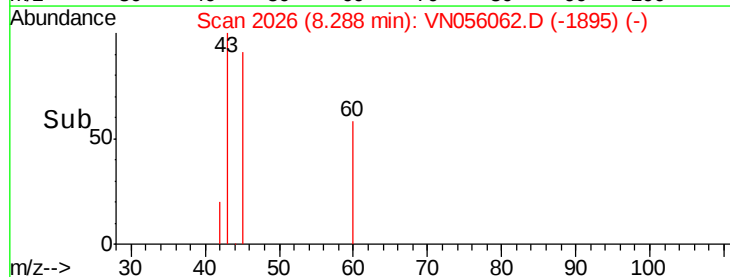
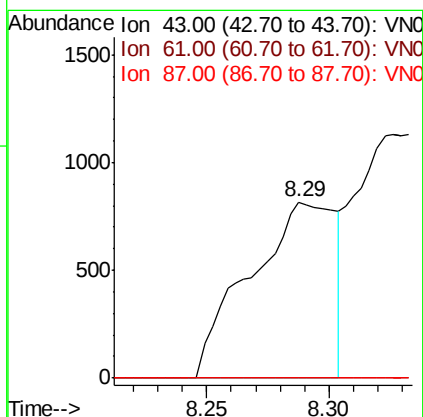
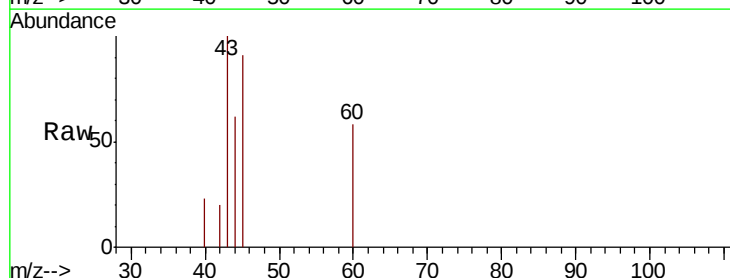
Instrument :
MSVOA_N
ClientSampleId :
BP-EB01-20190604

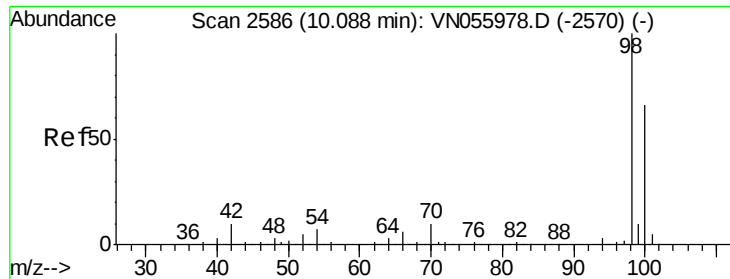
Tot Ion:117 Resp: 27280
Ion Ratio Lower Upper
117 100
119 4.7 79.0 118.6#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 0.320 ug/l
RT: 8.29 min Scan# 2026
Delta R.T. 0.12 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

Tgt Ion: 43 Resp: 1989
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#





#50

Toluene-d8

Concen: 53.902 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

Instrument :

MSVOA_N

ClientSampleId :

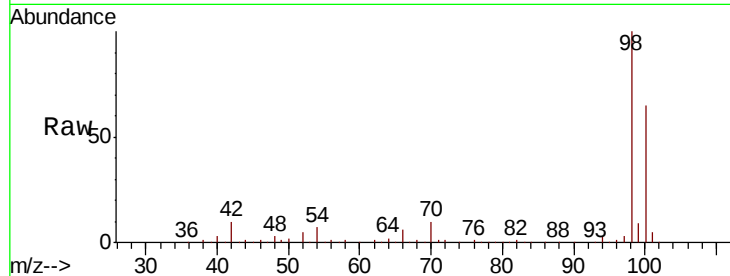
BP-EB01-20190604

Tot Ion: 98 Resp: 637049

Ion Ratio Lower Upper

98 100

100 64.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

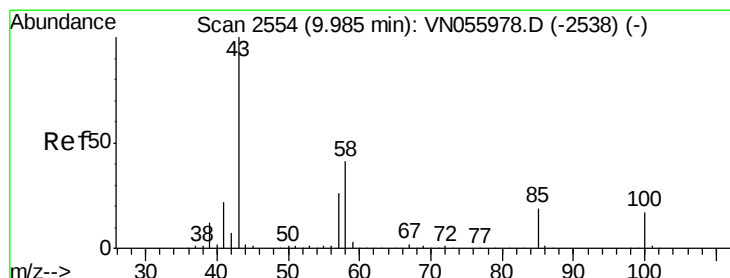
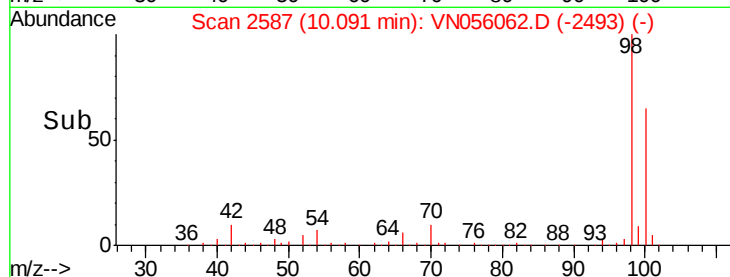
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.342 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN056062.D

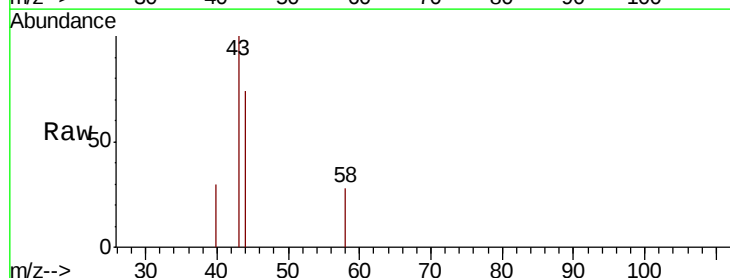
Acq: 6 Jun 2019 22:53

Tgt Ion: 43 Resp: 1329

Ion Ratio Lower Upper

43 100

58 14.7 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

9.99

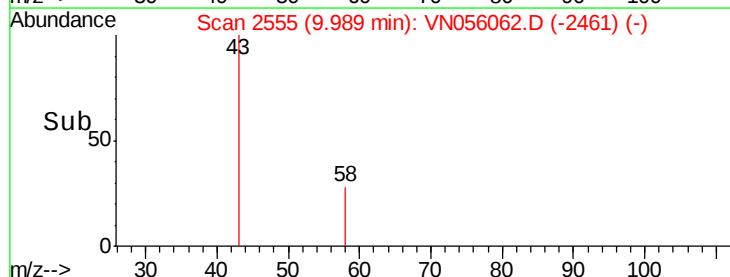
600

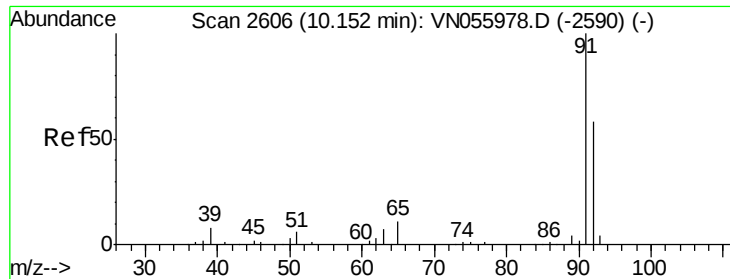
400

200

0

Time-->





#52

Toluene

Concen: 1.557 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

Instrument :

MSVOA_N

ClientSampleId :

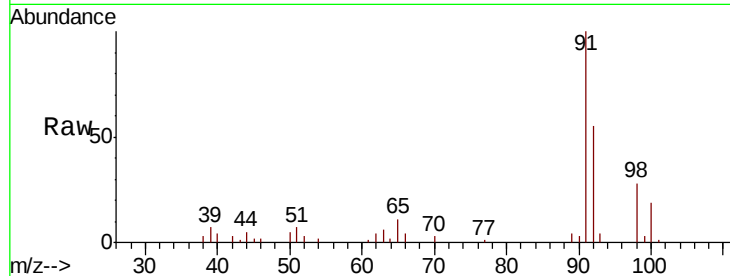
BP-EB01-20190604

Tot Ion: 92 Resp: 12665

Ion Ratio Lower Upper

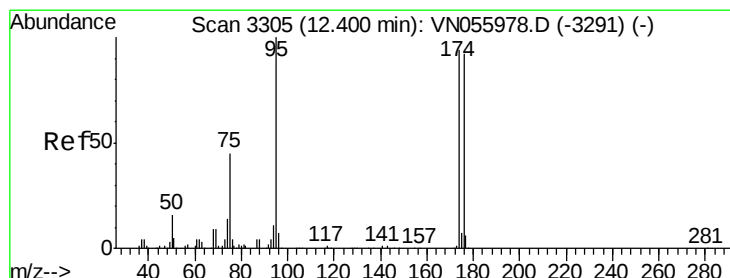
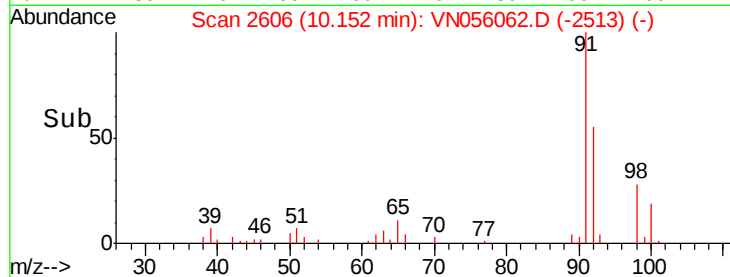
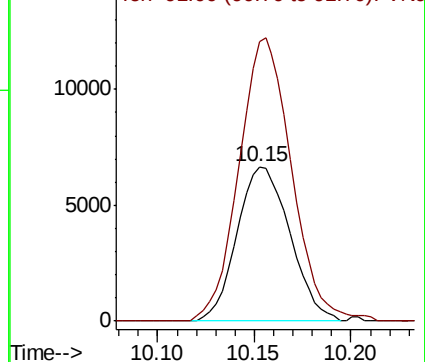
92 100

91 182.6 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 49.177 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

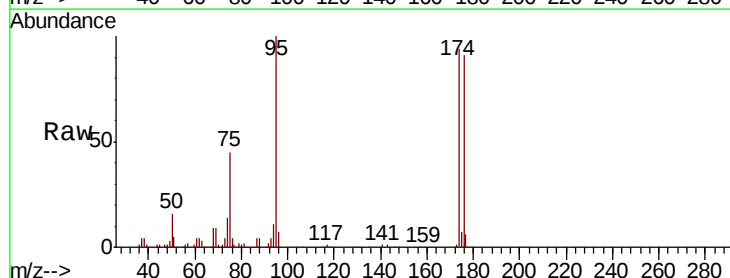
Tgt Ion: 95 Resp: 197652

Ion Ratio Lower Upper

95 100

174 95.0 0.0 191.0

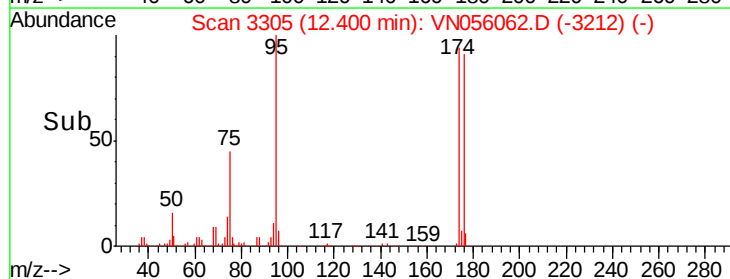
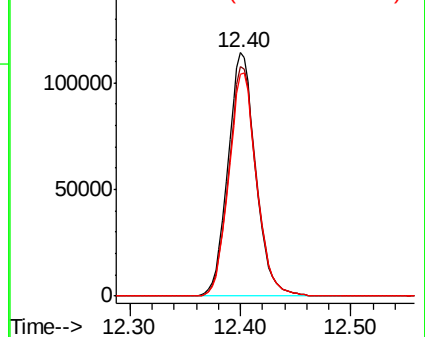
176 92.3 0.0 185.2

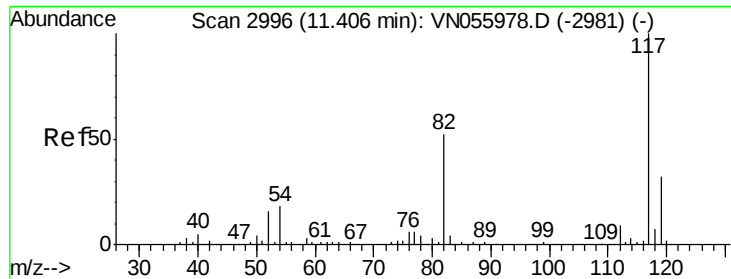


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

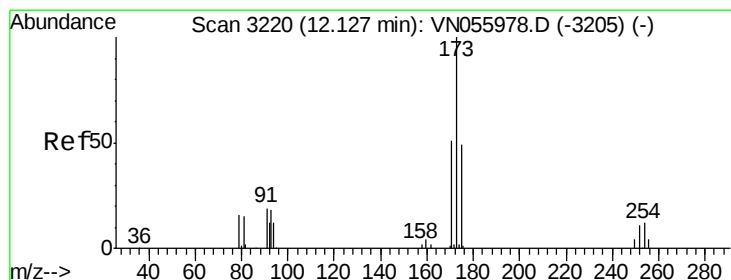
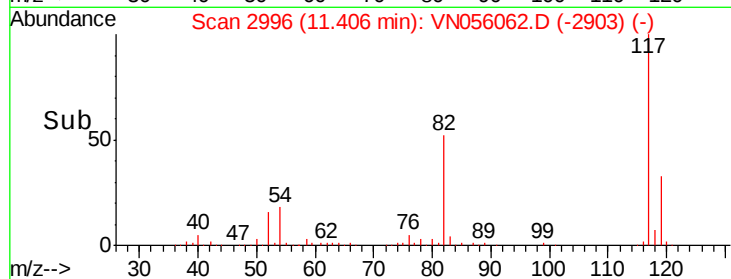
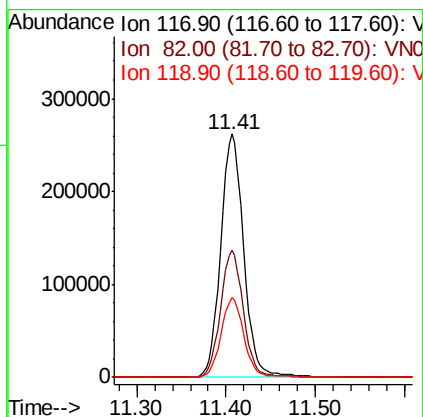
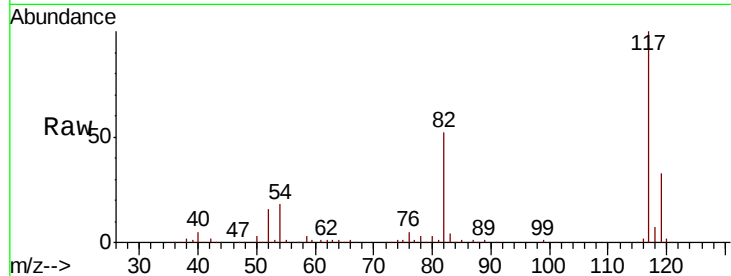




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

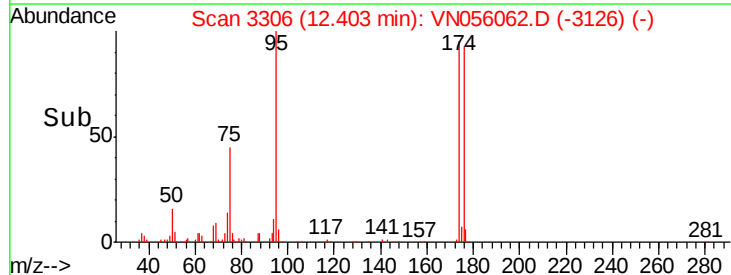
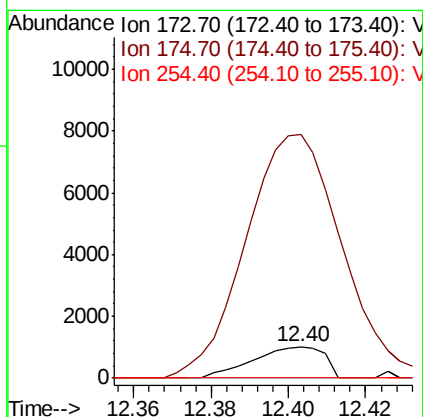
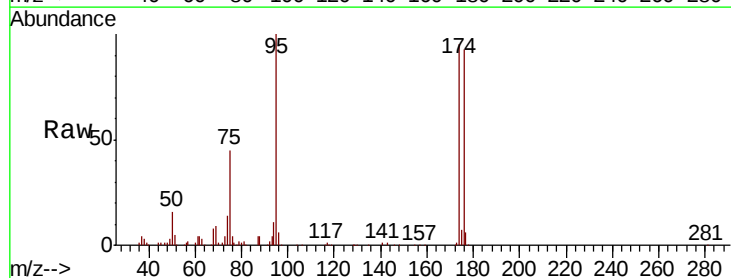
Instrument :
MSVOA_N
ClientSampleId :
BP-EB01-20190604

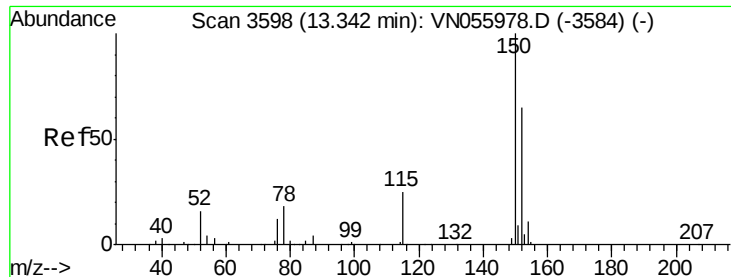
Tot Ion:117 Resp: 466746
Ion Ratio Lower Upper
117 100
82 52.3 41.8 62.8
119 32.5 25.4 38.0



#71
Bromoform
Concen: 3.192 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056062.D
Acq: 6 Jun 2019 22:53

Tgt Ion:173 Resp: 1282
Ion Ratio Lower Upper
173 100
175 922.9 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

Instrument :

MSVOA_N

ClientSampleId :

BP-EB01-20190604

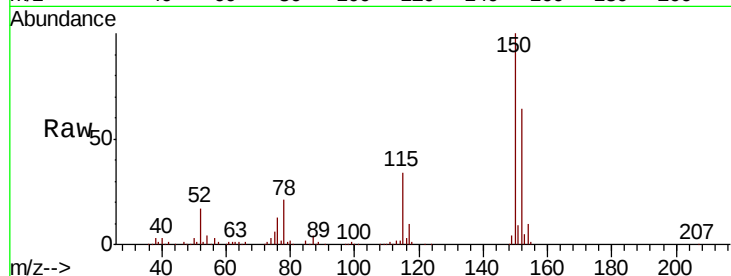
Tot Ion:152 Resp: 143462

Ion Ratio Lower Upper

152 100

115 53.4 27.0 81.0

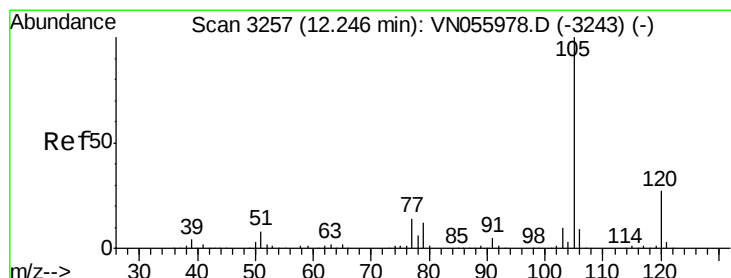
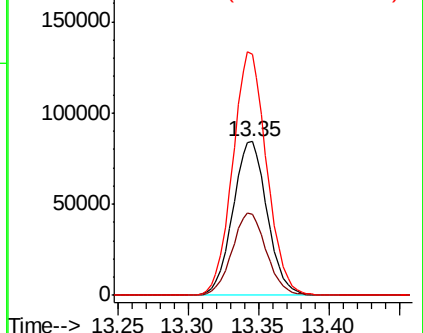
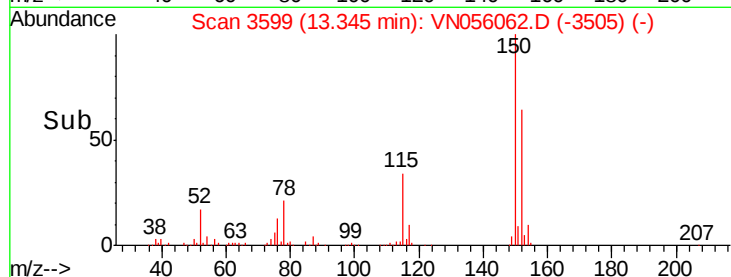
150 157.2 0.0 343.2



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: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN056062.D

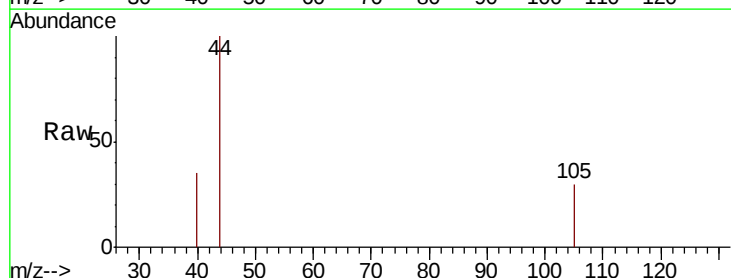
Acq: 6 Jun 2019 22:53

Tgt Ion:105 Resp: 66

Ion Ratio Lower Upper

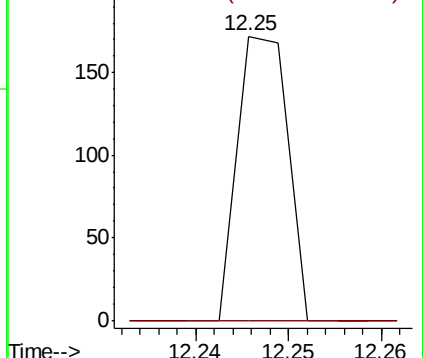
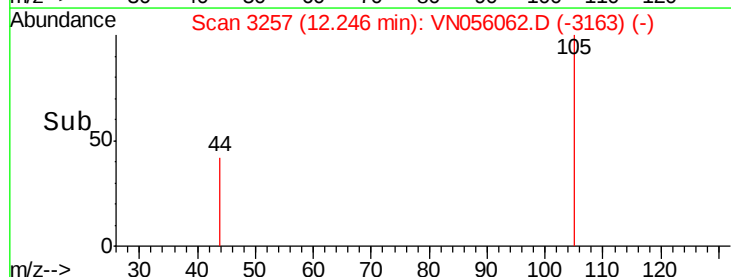
105 100

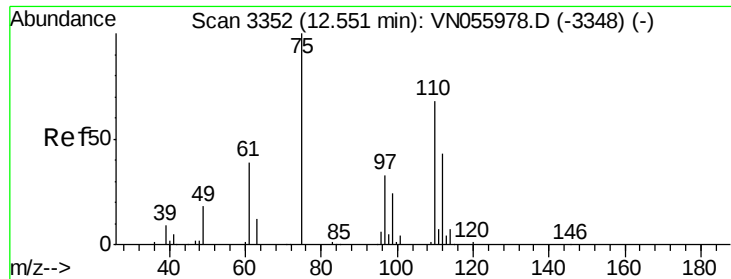
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 33.633 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

Instrument :

MSVOA_N

ClientSampleId :

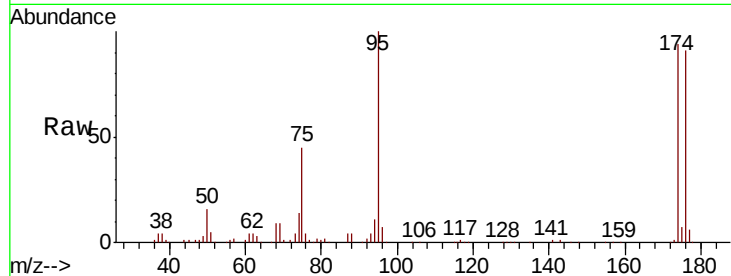
BP-EB01-20190604

Tot Ion: 75 Resp: 88783

Ion Ratio Lower Upper

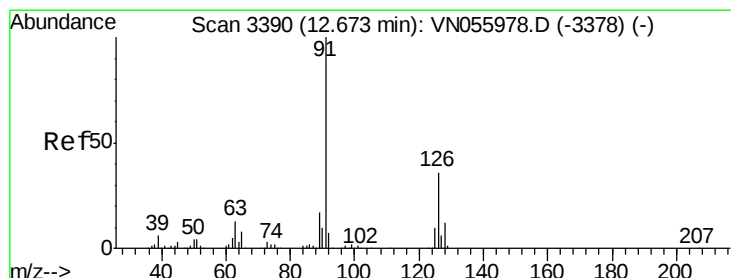
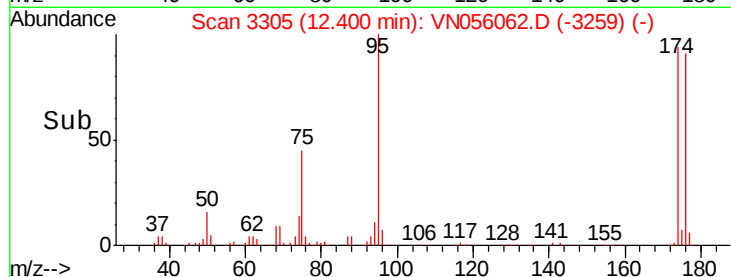
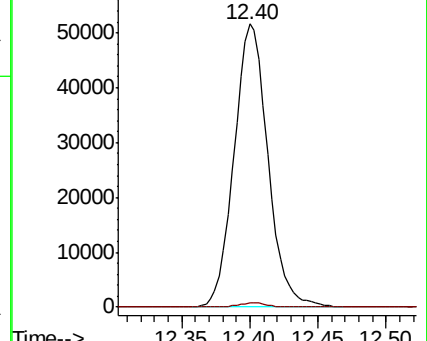
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN055978.D (-3348) (-)



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN056062.D

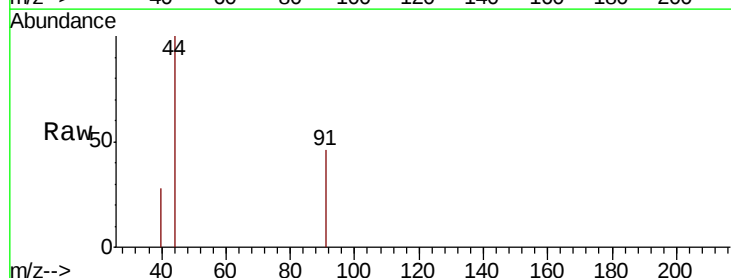
Acq: 6 Jun 2019 22:53

Tgt Ion: 91 Resp: 364

Ion Ratio Lower Upper

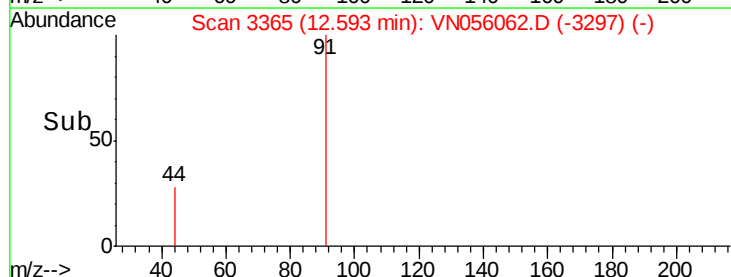
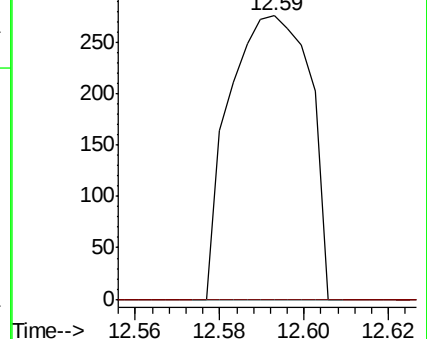
91 100

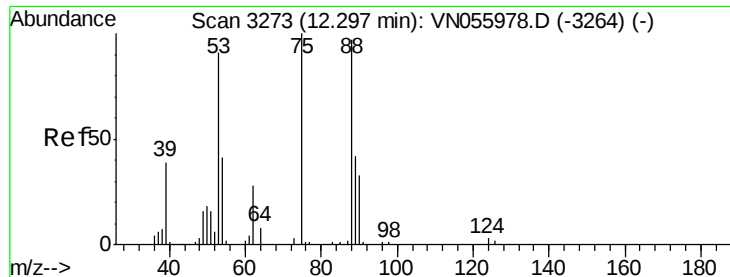
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055978.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055978.D (-3378) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 112.004 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

Instrument :

MSVOA_N

ClientSampleId :

BP-EB01-20190604

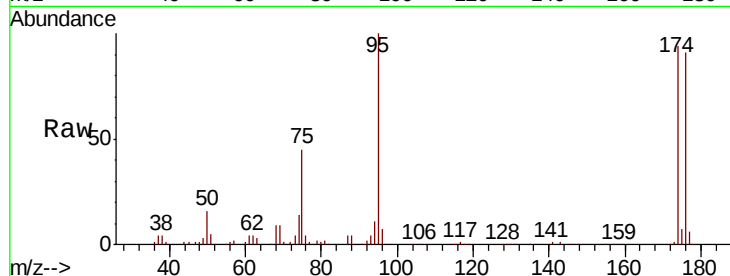
Tot Ion: 75 Resp: 88783

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

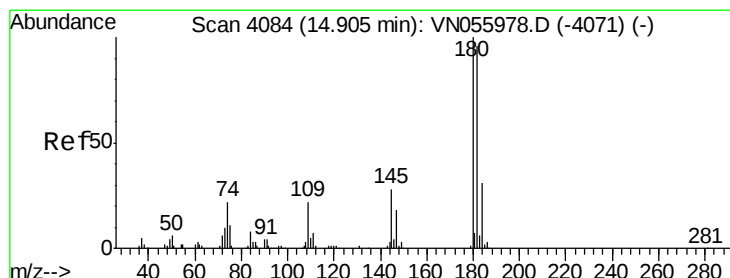
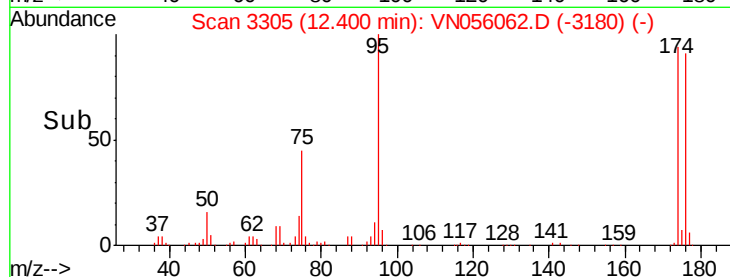
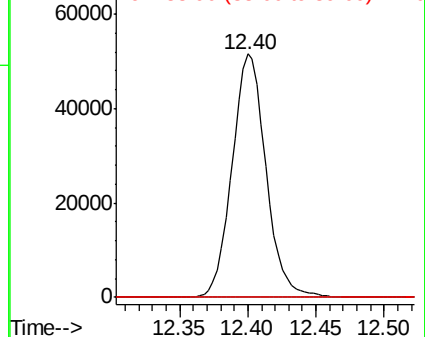
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.351 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

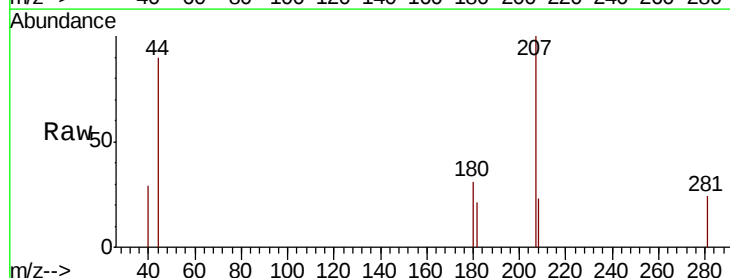
Tgt Ion:180 Resp: 236

Ion Ratio Lower Upper

180 100

182 66.1 48.3 144.9

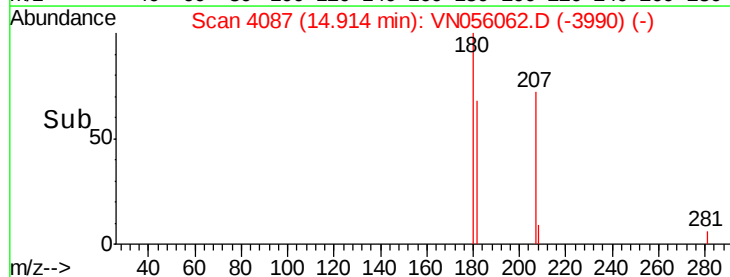
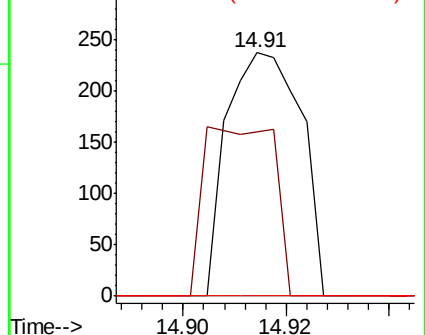
145 0.0 14.0 41.9#

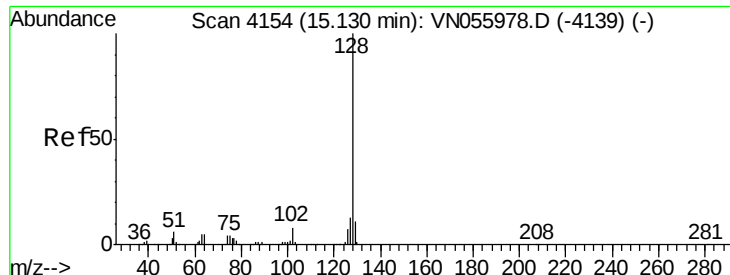


Abundance Ion 179.80 (179.50 to 180.50): VN055978.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN055978.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN055978.D (-4071) (-)





#95

Naphthalene

Concen: 3.934 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

Instrument :

MSVOA_N

ClientSampleId :

BP-EB01-20190604

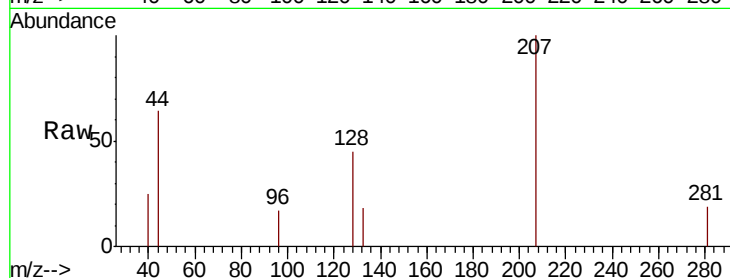
Tot Ion:128 Resp: 616

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

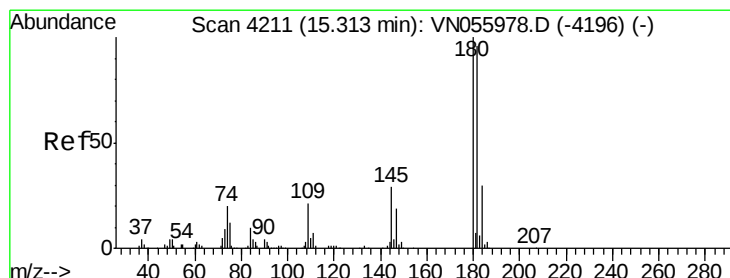
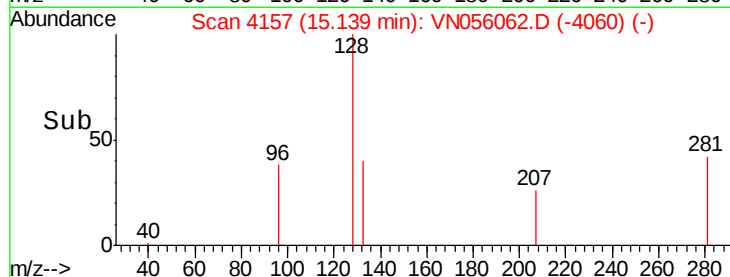
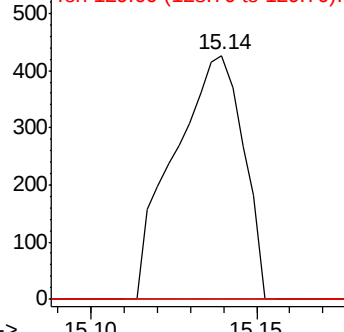
129 0.0 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.123 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN056062.D

Acq: 6 Jun 2019 22:53

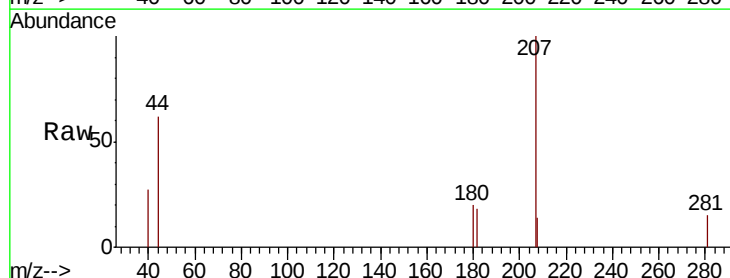
Tgt Ion:180 Resp: 264

Ion Ratio Lower Upper

180 100

182 98.9 47.9 143.7

145 0.0 14.9 44.7#



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

