

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032620\
 Data File : VN060727.D
 Acq On : 26 Mar 2020 20:23
 Operator : JC/MD
 Sample : L2026-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BUS-WASH

Quant Time: Mar 27 05:36:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	200281	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	335238	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	318334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150686	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	130919	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
35) Dibromofluoromethane	7.57	113	99928	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
50) Toluene-d8	10.08	98	414234	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
62) 4-Bromofluorobenzene	12.40	95	156506	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	

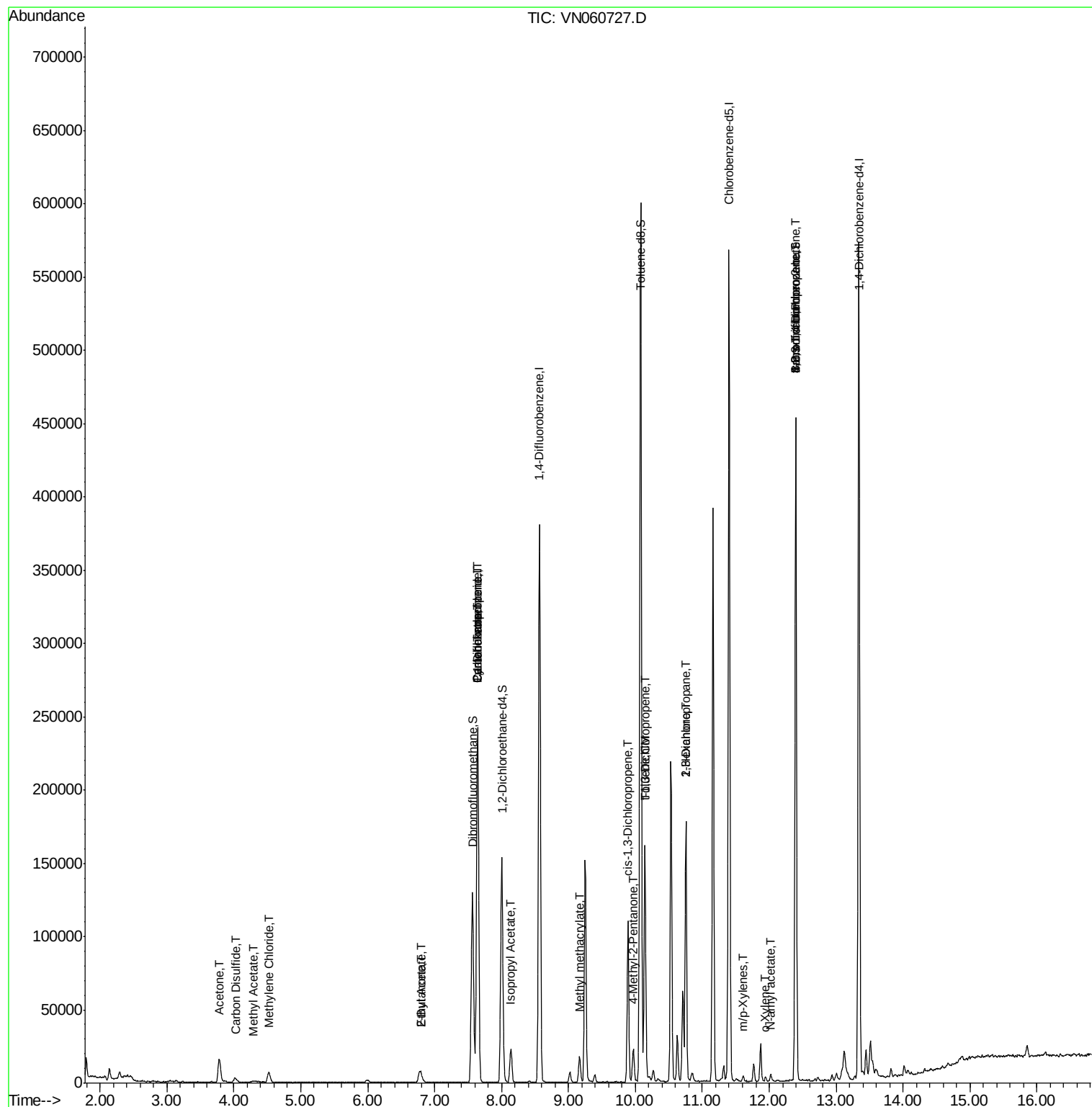
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	28319	29.078	ug/l	98
17) Carbon Disulfide	4.03	76	1798	0.273	ug/l #	75
18) Methyl Acetate	4.29	43	1953	0.712	ug/l #	54
20) Methylene Chloride	4.52	84	5222	2.180	ug/l	93
25) 2-Butanone	6.80	43	8667	5.500	ug/l #	90
31) Cyclohexane	7.64	56	4297	0.970	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16043	4.942	ug/l #	49
37) Ethyl Acetate	6.80	43	8667	2.471	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19237	6.612	ug/l #	16
43) Isopropyl Acetate	8.14	43	28098	4.857	ug/l #	90
48) Methyl methacrylate	9.16	41	3148	1.222	ug/l #	20
51) 4-Methyl-2-Pentanone	9.97	43	18342	5.572	ug/l	94
52) Toluene	10.14	92	69872	11.806	ug/l	98
53) t-1,3-Dichloropropene	10.14	75	763	0.204	ug/l #	1
54) cis-1,3-Dichloropropene	9.89	75	19222	4.696	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	1743	0.441	ug/l #	42
59) 2-Hexanone	10.75	43	26242	11.067	ug/l #	55
68) m/p-Xylenes	11.61	106	1397	0.320	ug/l	93
69) o-Xylene	11.94	106	956	0.230	ug/l	86
71) Bromoform	12.40	173	671	2.022	ug/l #	1
74) N-amyl acetate	12.02	43	4213	0.806	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	79780	24.536	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79780	63.017	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.51	75	30	Below Cal	#	3

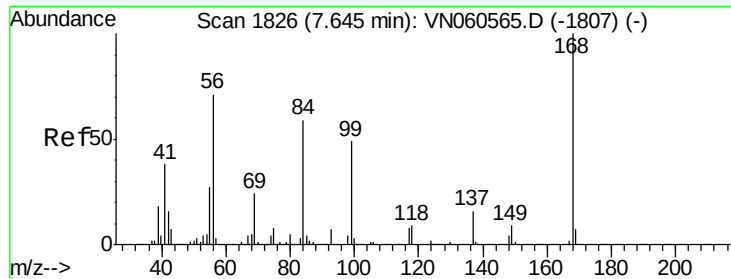
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060727.D

Acq: 26 Mar 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

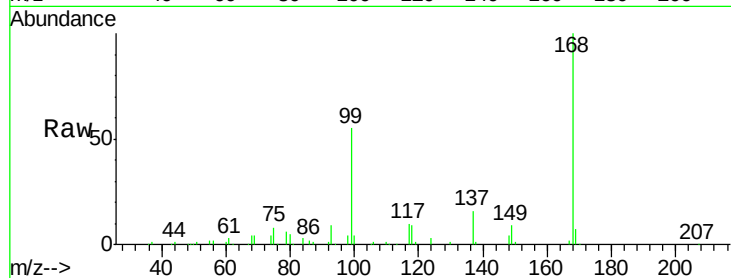
BUS-WASH

Tgt Ion:168 Resp: 200281

Ion Ratio Lower Upper

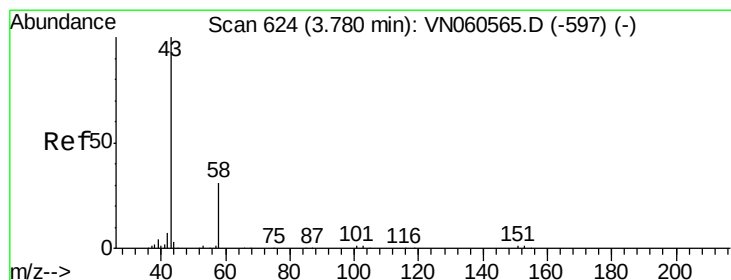
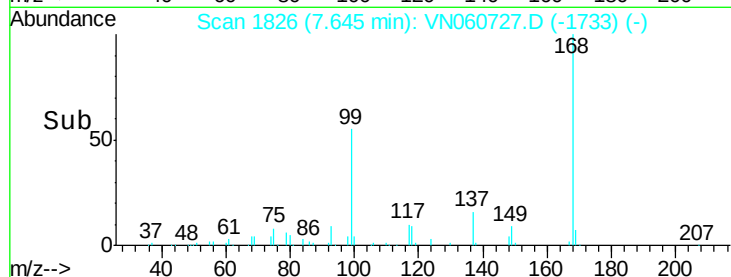
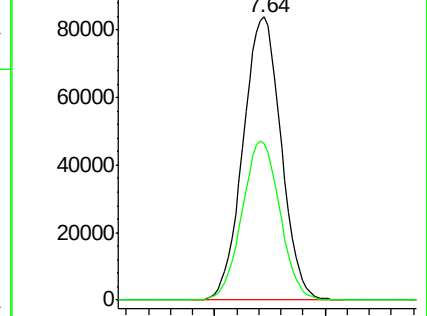
168 100

99 55.3 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 29.078 ug/l

RT: 3.78 min Scan# 624

Delta R.T. -0.00 min

Lab File: VN060727.D

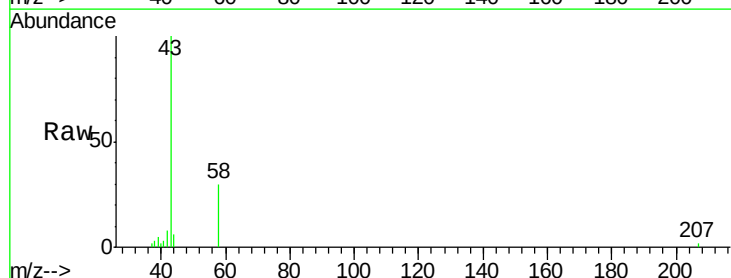
Acq: 26 Mar 2020 20:23

Tgt Ion: 43 Resp: 28319

Ion Ratio Lower Upper

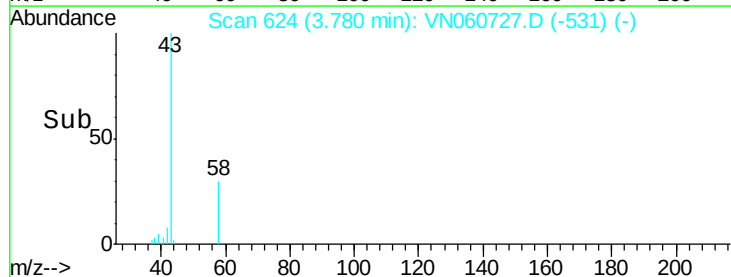
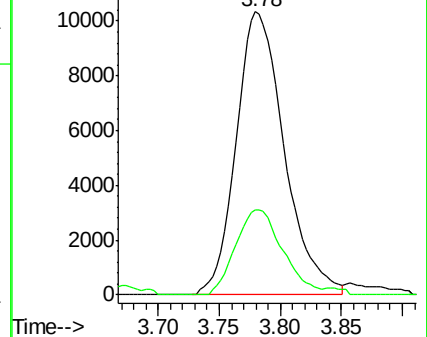
43 100

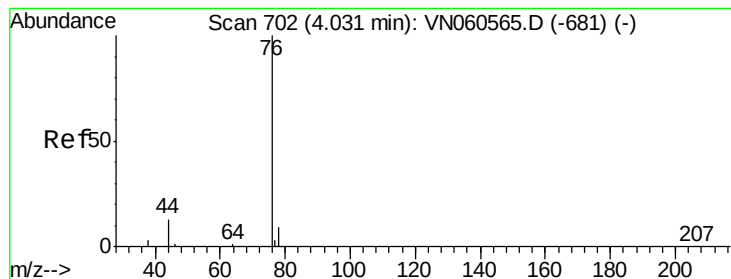
58 30.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: 0.273 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060727.D

Acq: 26 Mar 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

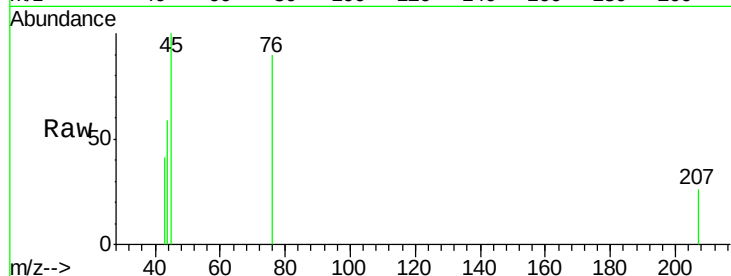
BUS-WASH

Tgt Ion: 76 Resp: 1798

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN060727.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060727.D (-681) (-)

4.03

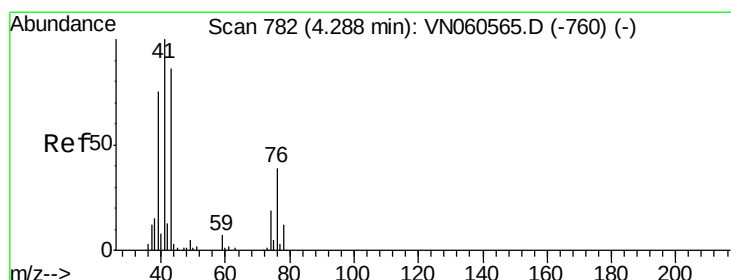
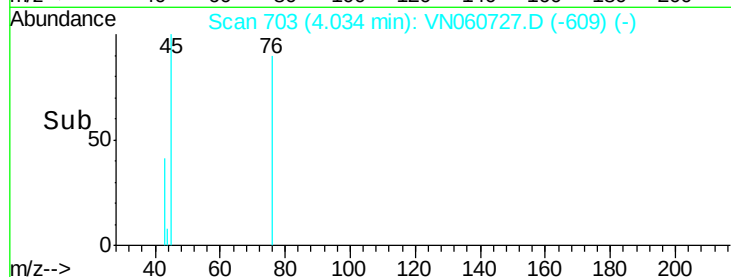
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 0.712 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060727.D

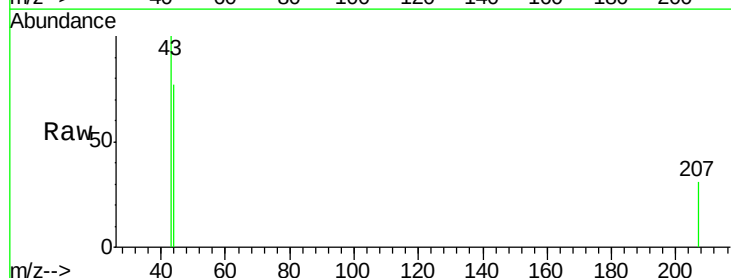
Acq: 26 Mar 2020 20:23

Tgt Ion: 43 Resp: 1953

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060727.D (-689) (-)

Ion 74.00 (73.70 to 74.70): VN060727.D (-689) (-)

4.29

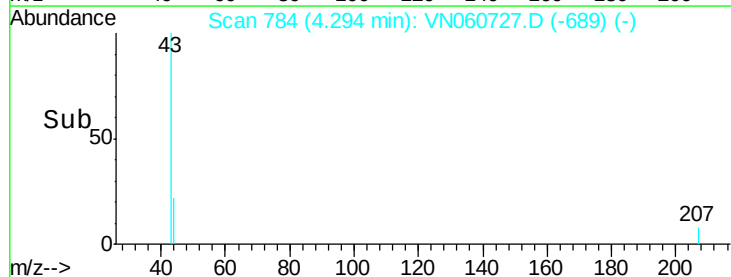
600

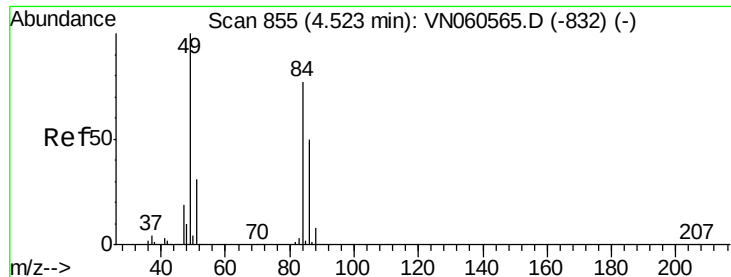
400

200

0

Time-->



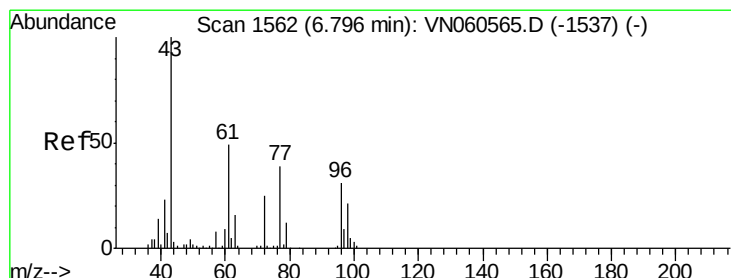
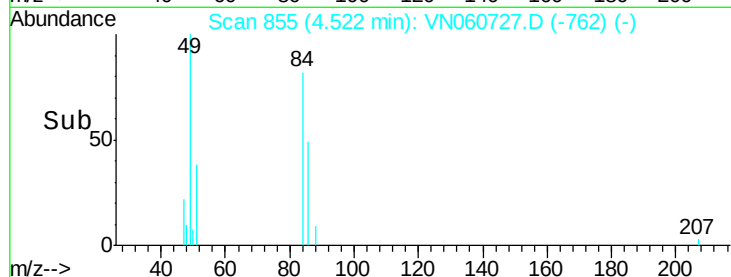
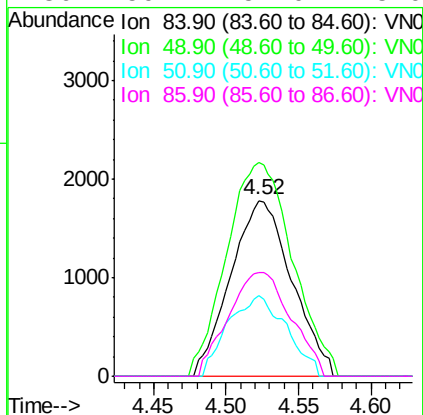
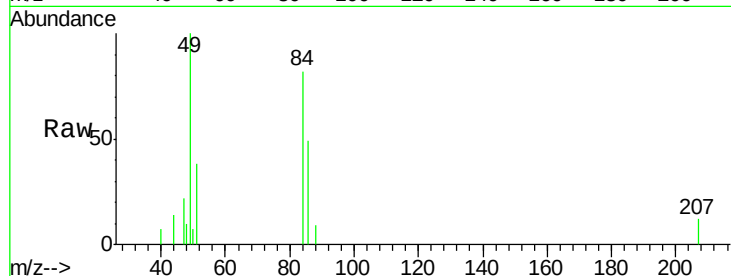


#20
Methylene Chloride
Concen: 2.180 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
BUS-WASH

Tgt Ion: 84 Resp: 5222

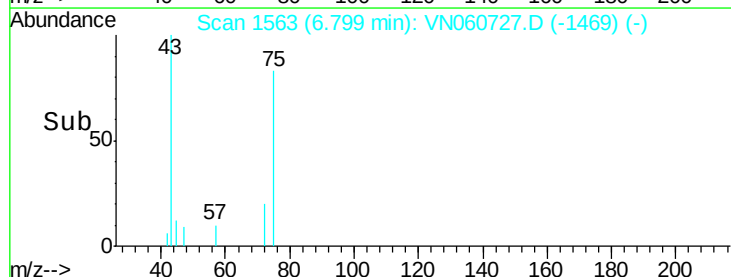
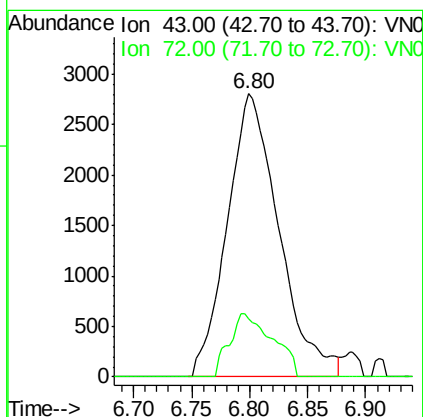
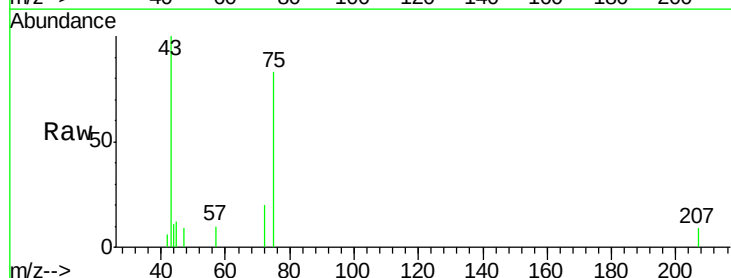
Ion	Ratio	Lower	Upper
84	100		
49	121.8	103.3	154.9
51	45.8	31.6	47.4
86	59.1	52.0	78.0

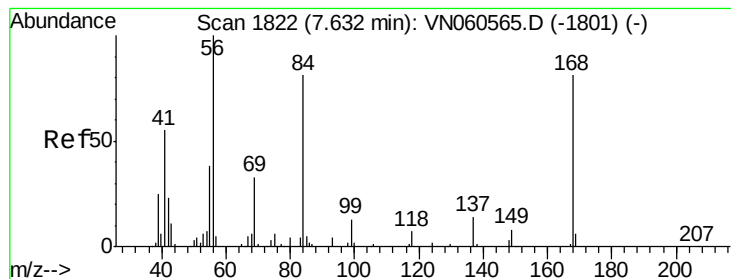


#25
2-Butanone
Concen: 5.500 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

Tgt Ion: 43 Resp: 8667

Ion	Ratio	Lower	Upper
43	100		
72	20.4	20.4	30.6#





#31

Cyclohexane

Concen: 0.970 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060727.D

Acq: 26 Mar 2020 20:23

Instrument :

MSVOA_N

ClientSampled :

BUS-WASH

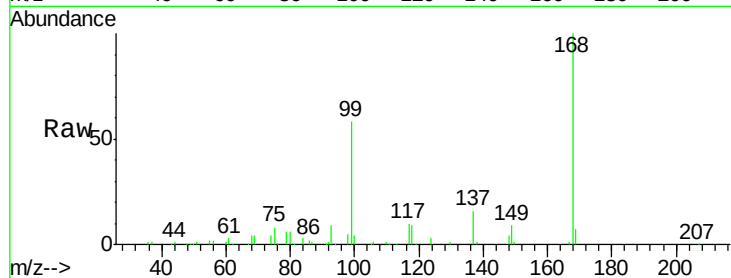
Tgt Ion: 56 Resp: 4297

Ion Ratio Lower Upper

56 100

69 178.6 26.6 40.0#

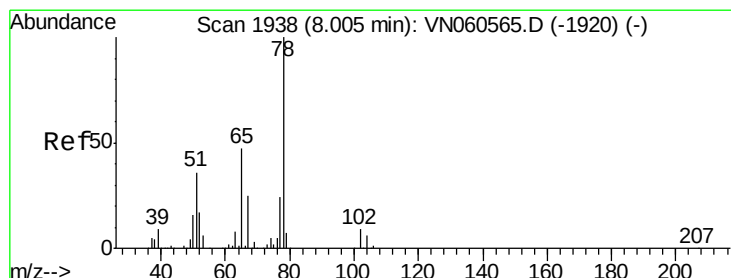
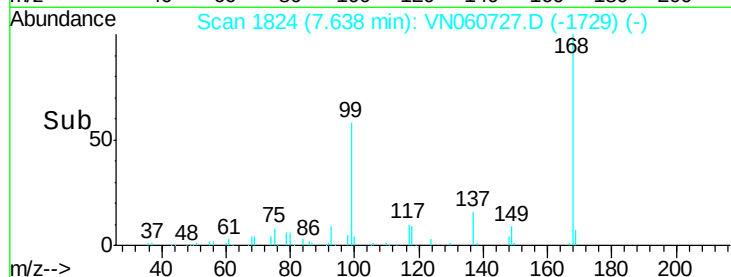
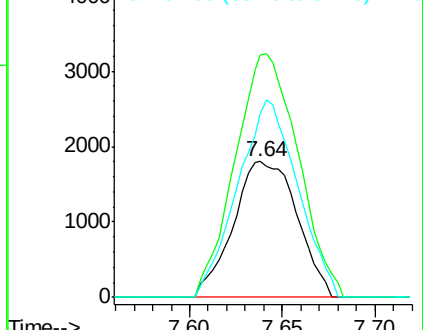
84 135.8 64.3 96.5#



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: 47.617 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060727.D

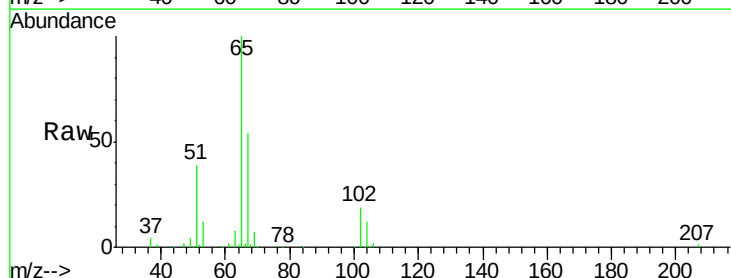
Acq: 26 Mar 2020 20:23

Tgt Ion: 65 Resp: 130919

Ion Ratio Lower Upper

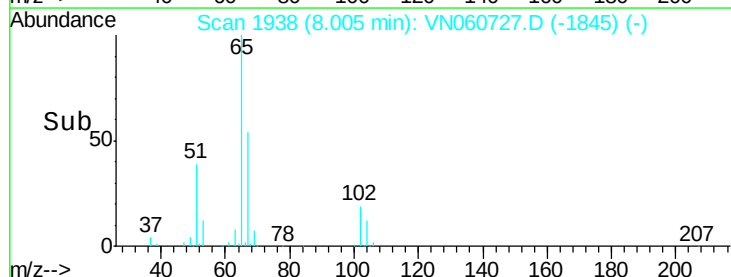
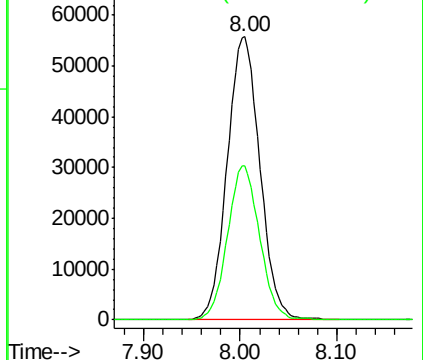
65 100

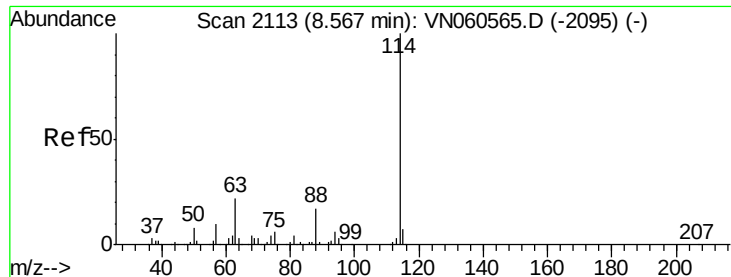
67 53.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

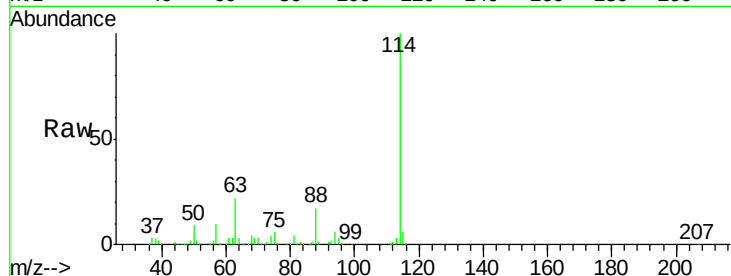




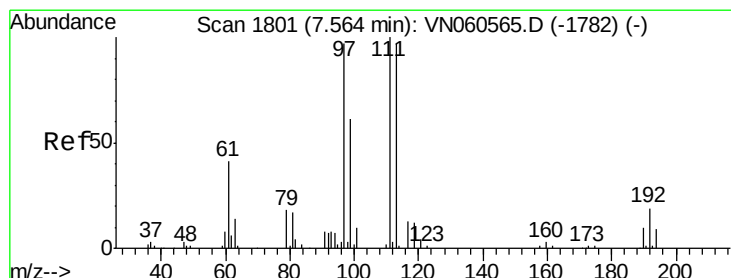
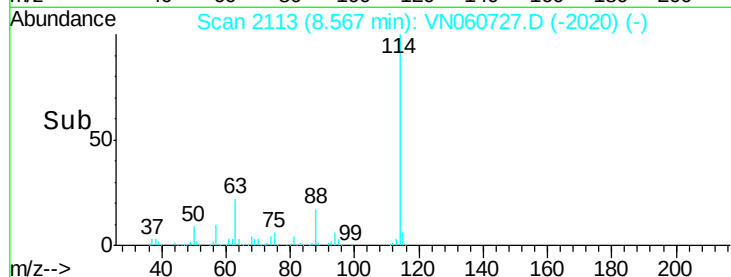
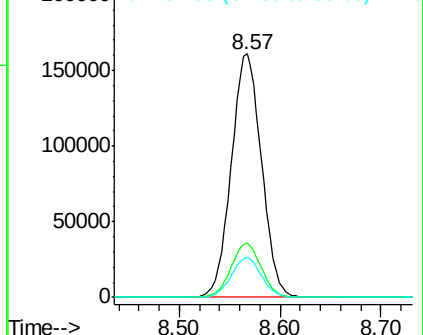
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060727.D
 Acq: 26 Mar 2020 20:23

Instrument :
 MSVOA_N
 ClientSampleId :
 BUS-WASH

Tgt Ion:114 Resp: 335238
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.8
 88 16.5 0.0 33.0

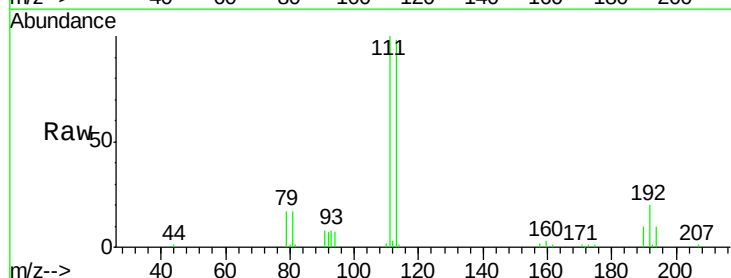


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

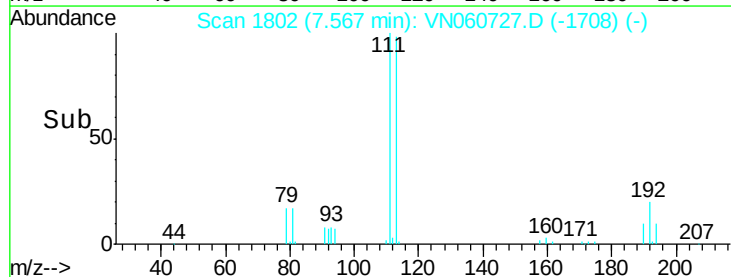
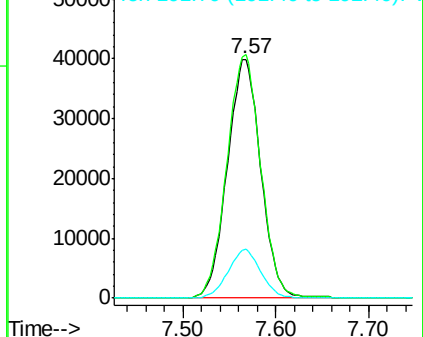


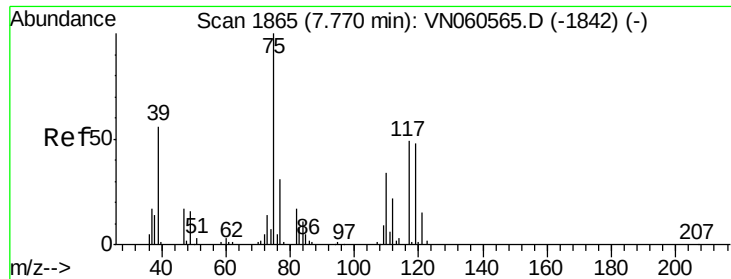
#35
 Dibromofluoromethane
 Concen: 49.297 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060727.D
 Acq: 26 Mar 2020 20:23

Tgt Ion:113 Resp: 99928
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.9 124.3
 192 19.8 15.8 23.8



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

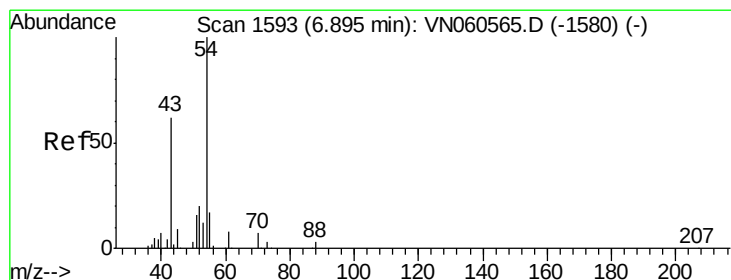
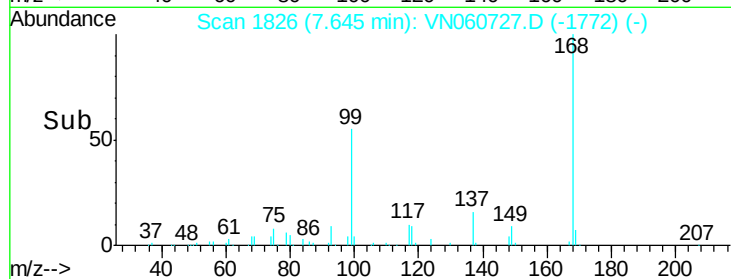
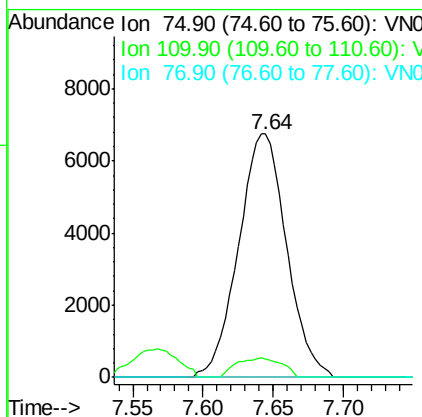
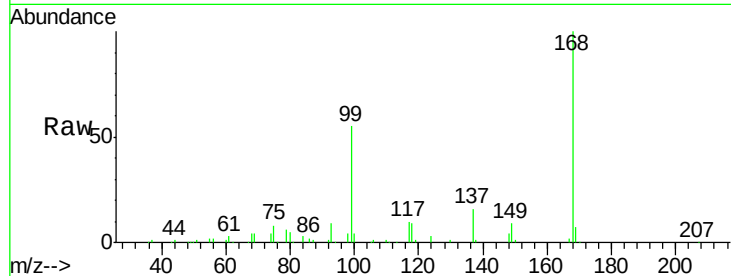




#36
 1,1-Dichloropropene
 Concen: 4.942 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060727.D
 Acq: 26 Mar 2020 20:23

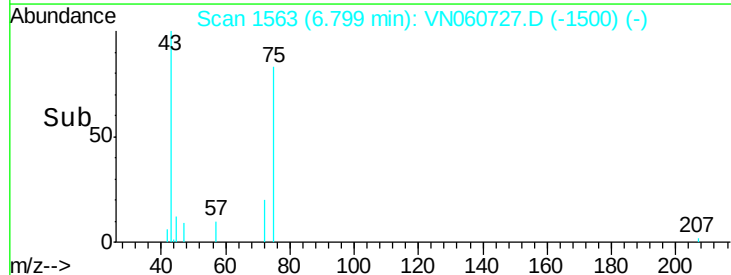
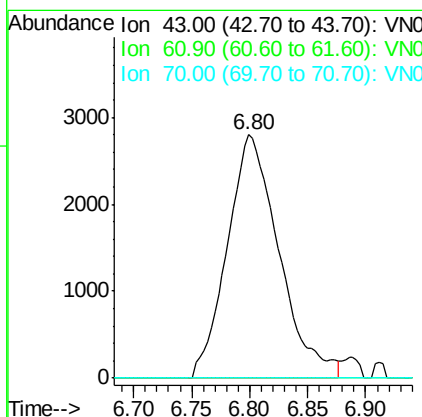
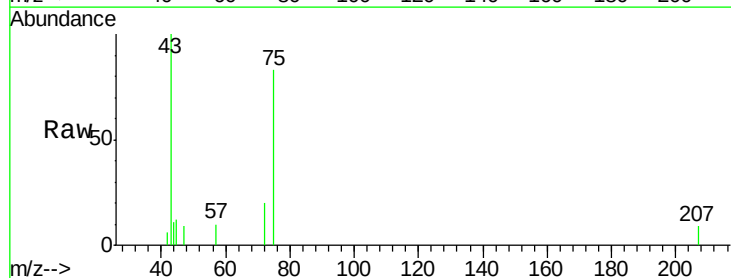
Instrument :
 MSVOA_N
 ClientSampled :
 BUS-WASH

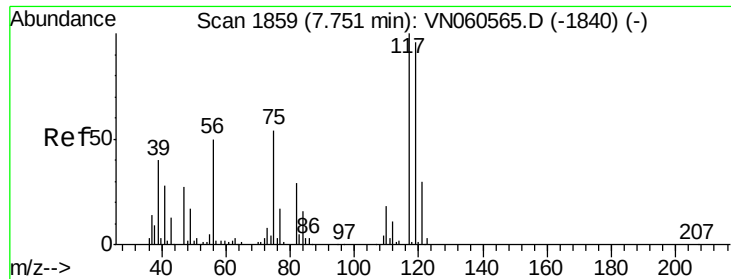
Tgt Ion: 75 Resp: 16043
 Ion Ratio Lower Upper
 75 100
 110 7.6 16.9 50.6#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 2.471 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.10 min
 Lab File: VN060727.D
 Acq: 26 Mar 2020 20:23

Tgt Ion: 43 Resp: 8667
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.612 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060727.D

Acq: 26 Mar 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

BUS-WASH

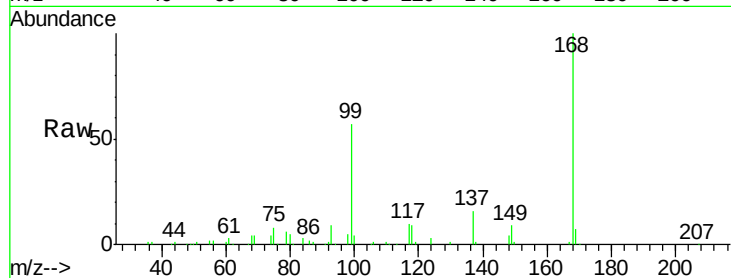
Tgt Ion:117 Resp: 19237

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

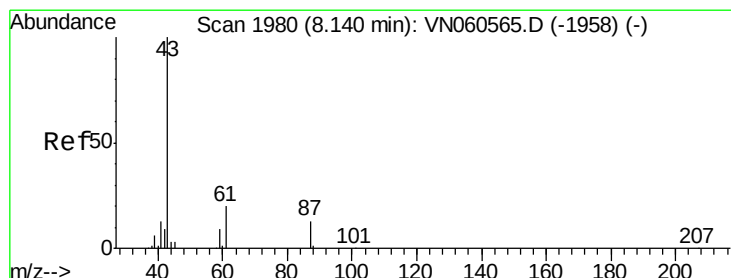
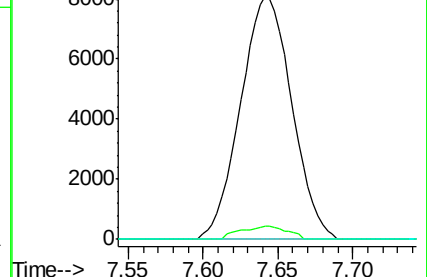
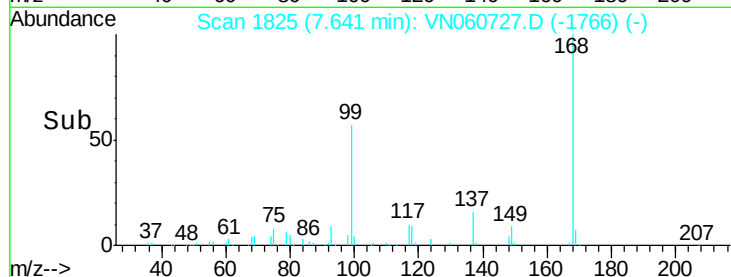
121 0.0 23.7 35.5#



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: 4.857 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060727.D

Acq: 26 Mar 2020 20:23

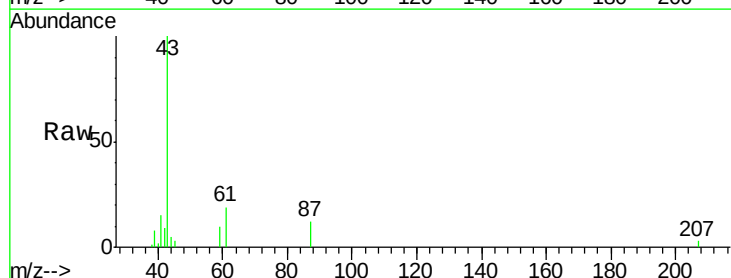
Tgt Ion: 43 Resp: 28098

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

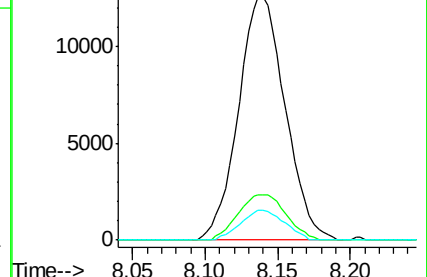
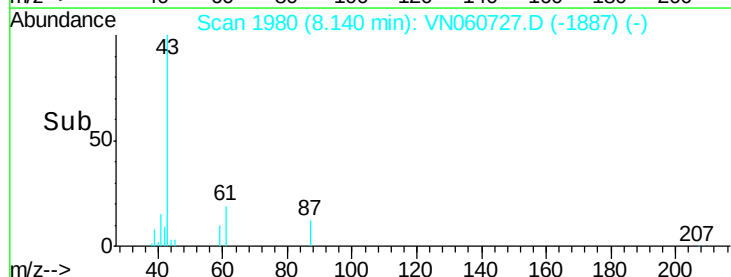
87 11.3 9.8 14.8

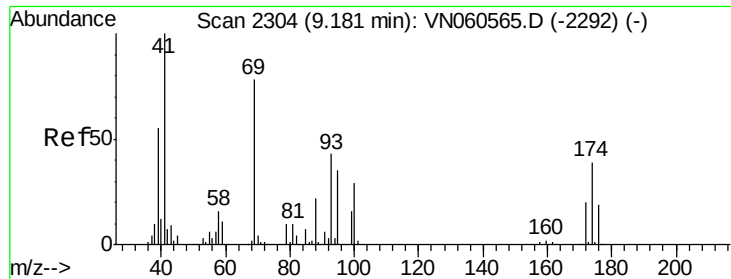


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

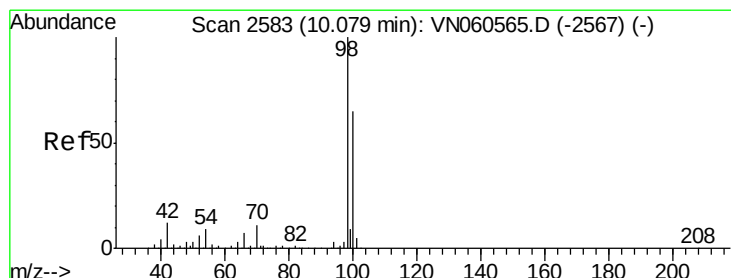
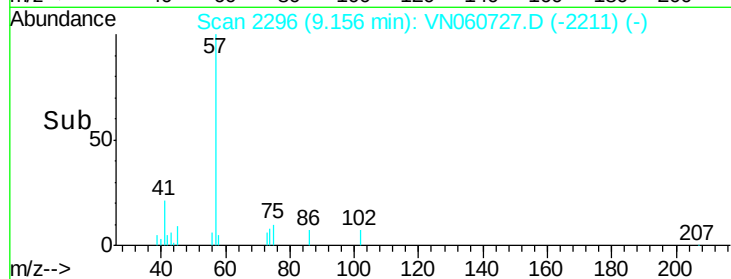
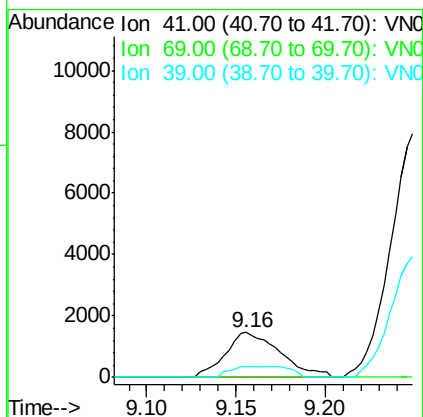
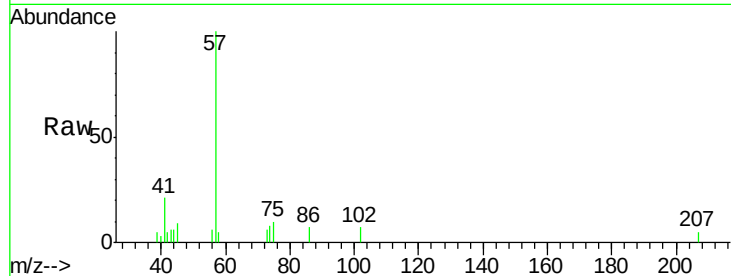




#48
Methyl methacrylate
Concen: 1.222 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

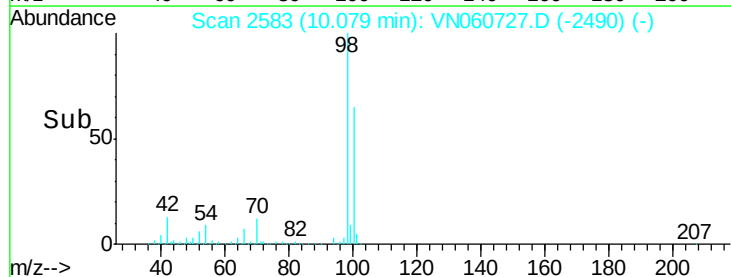
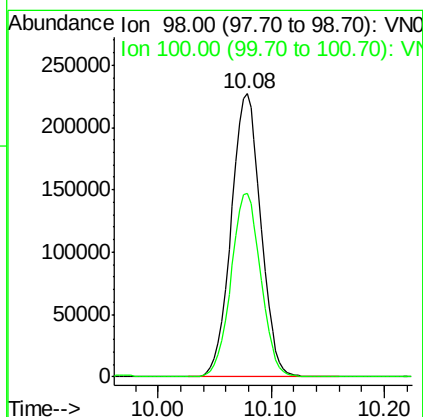
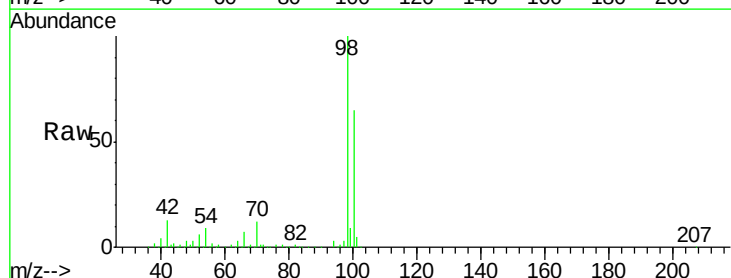
Instrument :
MSVOA_N
ClientSampled :
BUS-WASH

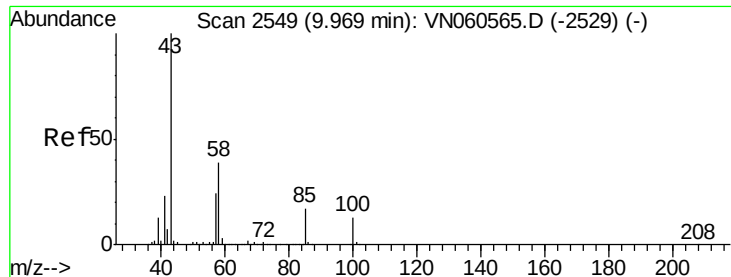
Tgt Ion: 41 Resp: 3148
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 10.3 44.0 66.0#



#50
Toluene-d8
Concen: 50.029 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

Tgt Ion: 98 Resp: 414234
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.8

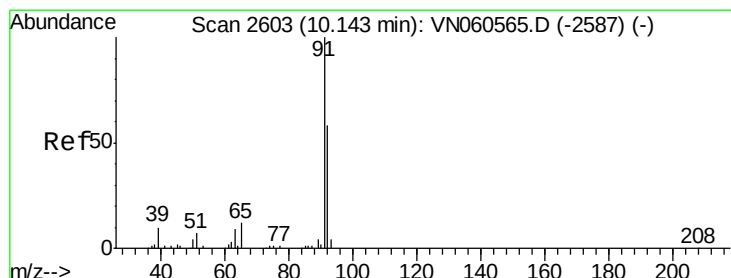
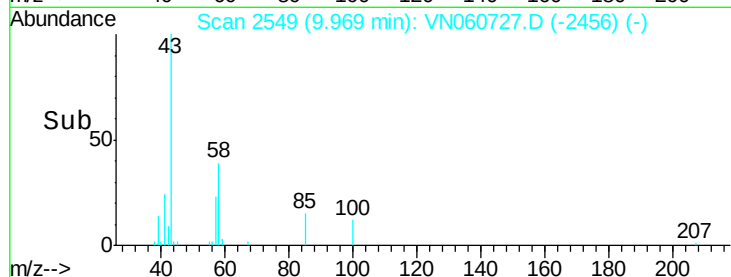
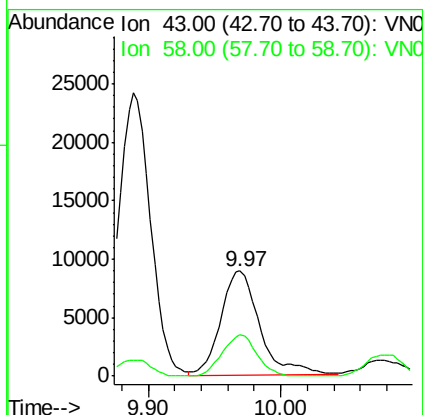
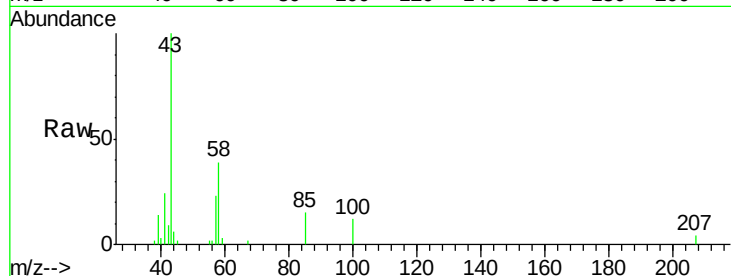




#51
 4-Methyl-2-Pentanone
 Concen: 5.572 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. -0.00 min
 Lab File: VN060727.D
 Acq: 26 Mar 2020 20:23

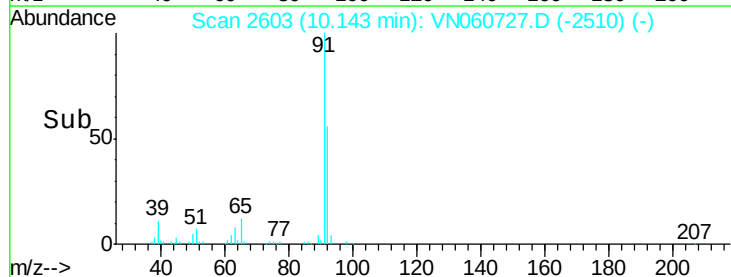
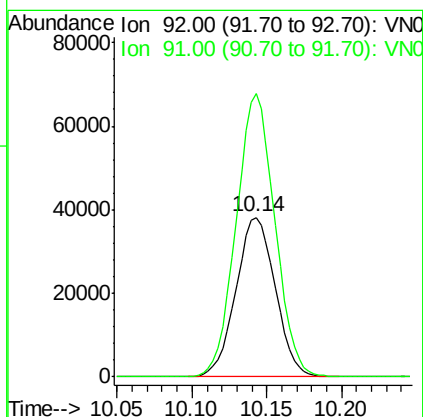
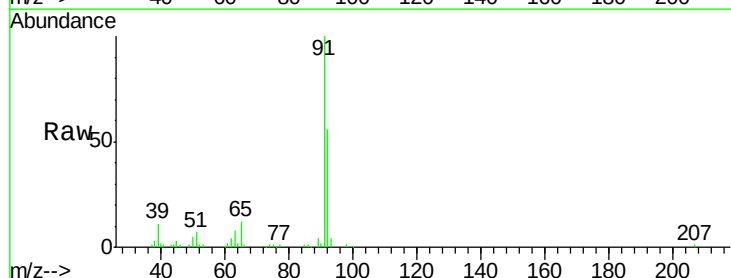
Instrument :
 MSVOA_N
 ClientSampleId :
 BUS-WASH

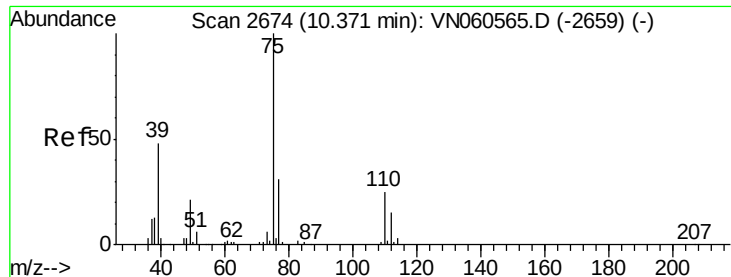
Tgt Ion: 43 Resp: 18342
 Ion Ratio Lower Upper
 43 100
 58 35.2 30.8 46.2



#52
 Toluene
 Concen: 11.806 ug/l
 RT: 10.14 min Scan# 2603
 Delta R.T. -0.00 min
 Lab File: VN060727.D
 Acq: 26 Mar 2020 20:23

Tgt Ion: 92 Resp: 69872
 Ion Ratio Lower Upper
 92 100
 91 174.8 137.6 206.4





#53

t-1,3-Dichloropropene

Concen: 0.204 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.23 min

Lab File: VN060727.D

Acq: 26 Mar 2020 20:23

Instrument :

MSVOA_N

ClientSampled :

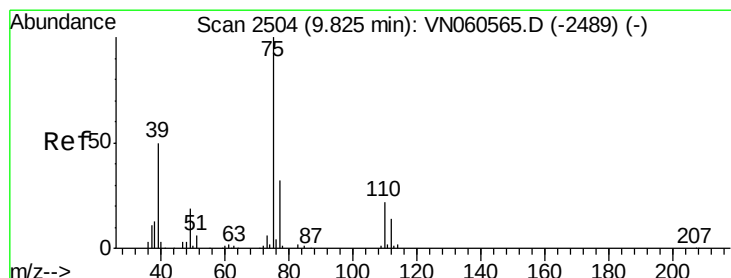
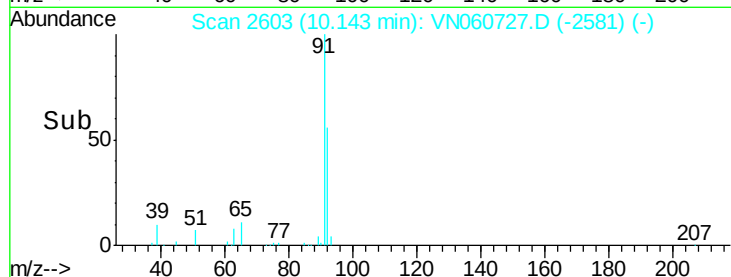
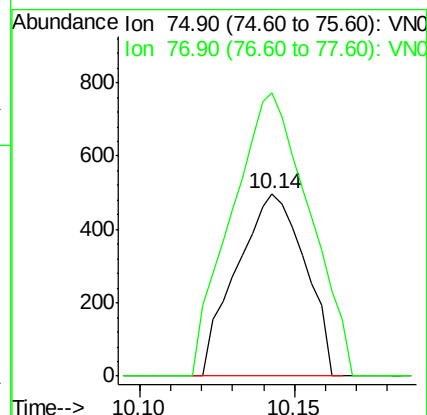
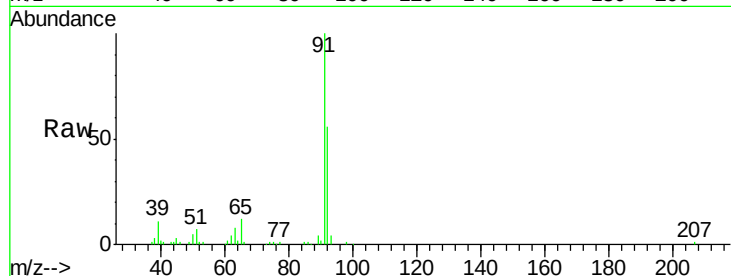
BUS-WASH

Tgt Ion: 75 Resp: 763

Ion Ratio Lower Upper

75 100

77 155.0 25.1 37.7#



#54

cis-1,3-Dichloropropene

Concen: 4.696 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060727.D

Acq: 26 Mar 2020 20:23

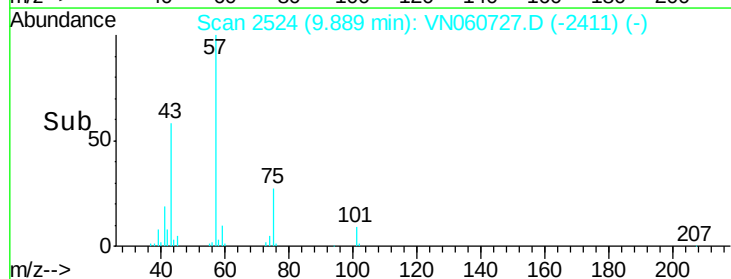
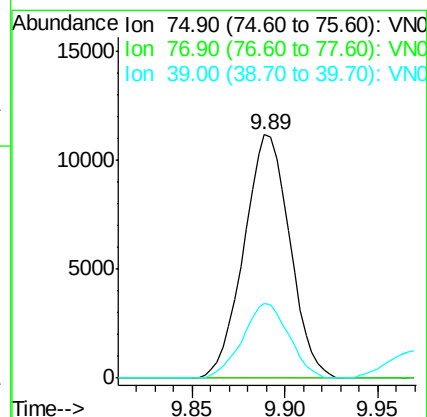
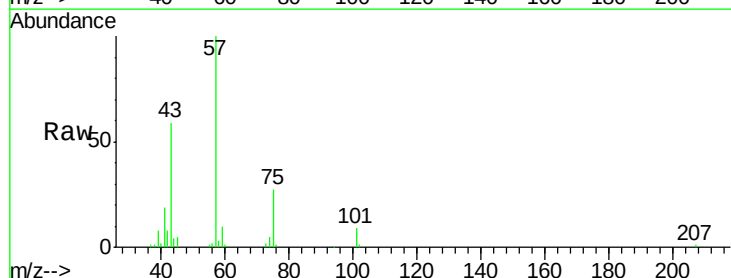
Tgt Ion: 75 Resp: 19222

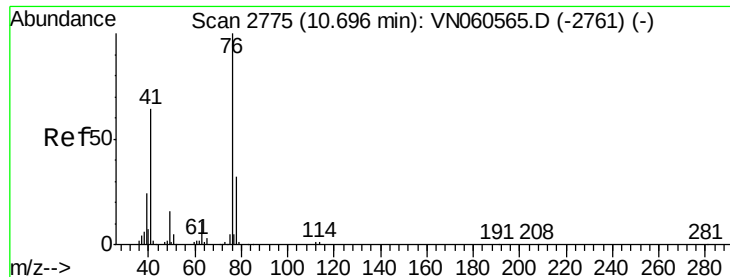
Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 30.9 40.2 60.4#

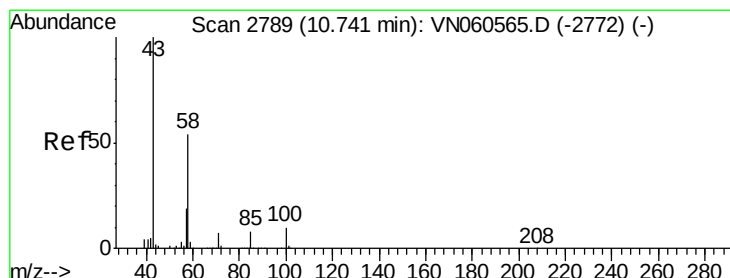
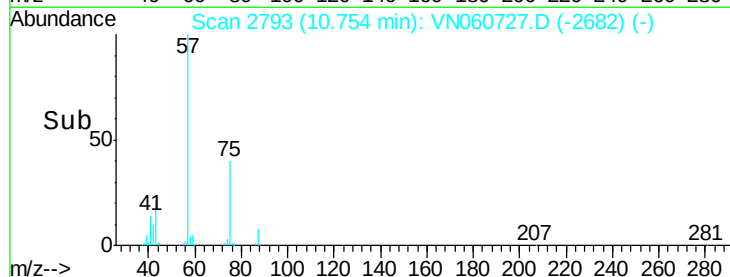
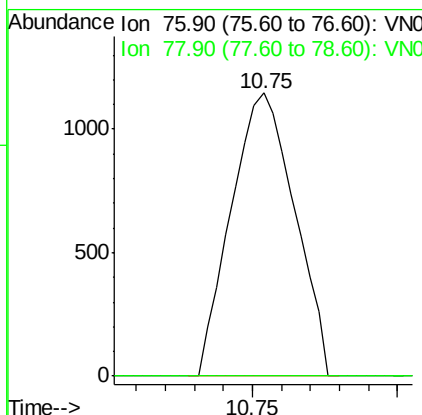
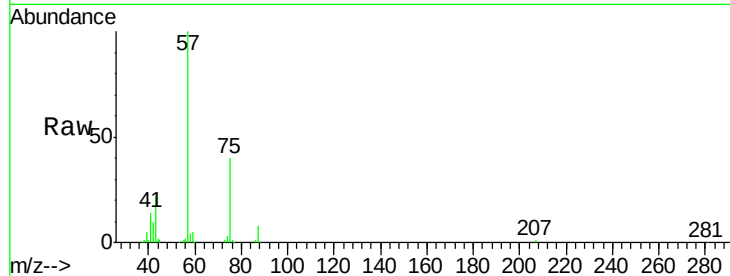




#57
 1,3-Dichloropropane
 Concen: 0.441 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060727.D
 Acq: 26 Mar 2020 20:23

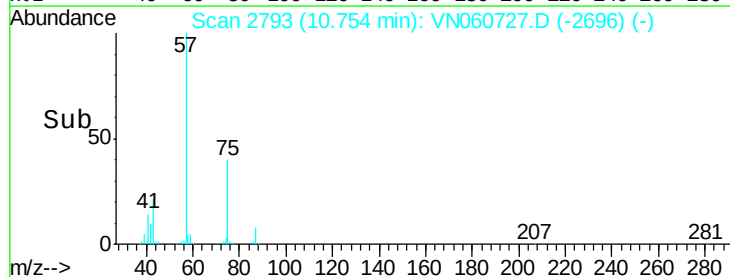
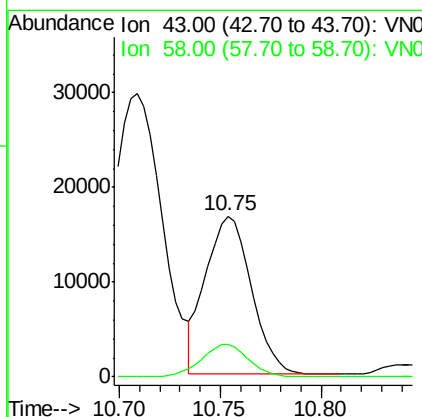
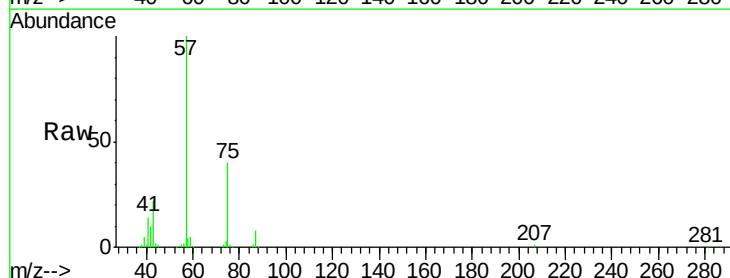
Instrument :
 MSVOA_N
 ClientSampled :
 BUS-WASH

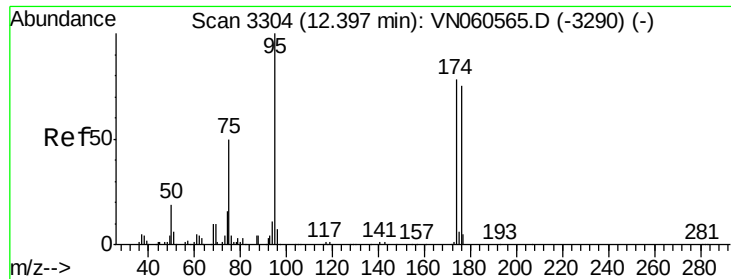
Tgt Ion: 76 Resp: 1743
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 11.067 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060727.D
 Acq: 26 Mar 2020 20:23

Tgt Ion: 43 Resp: 26242
 Ion Ratio Lower Upper
 43 100
 58 21.0 26.7 80.1#

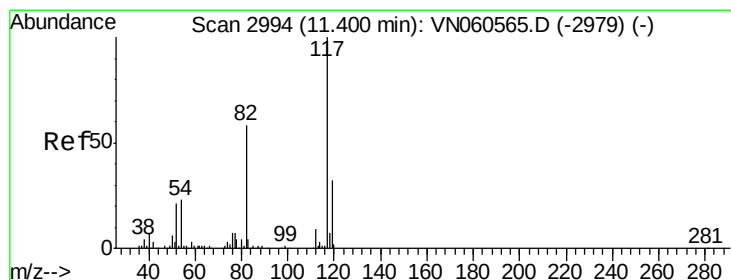
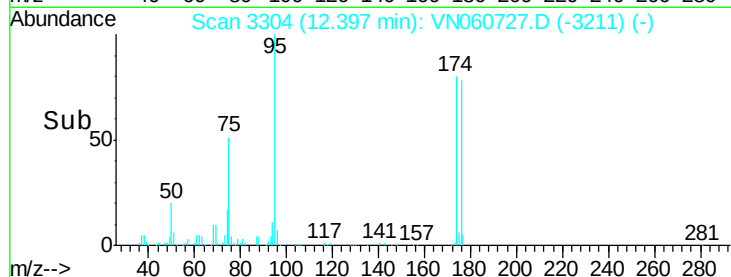
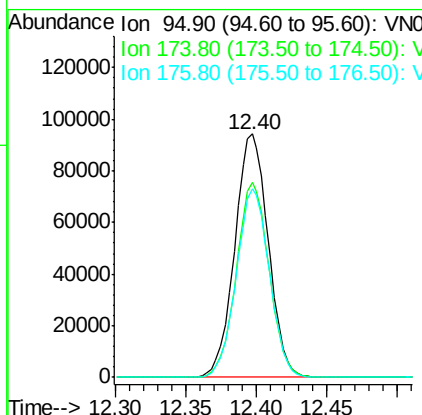
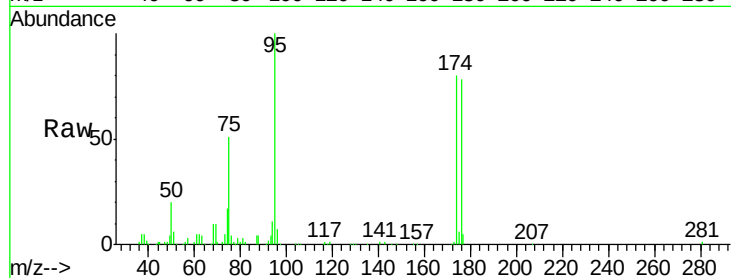




#62
4-Bromofluorobenzene
Concen: 51.577 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

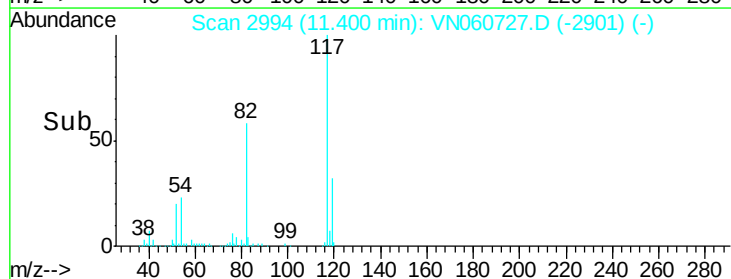
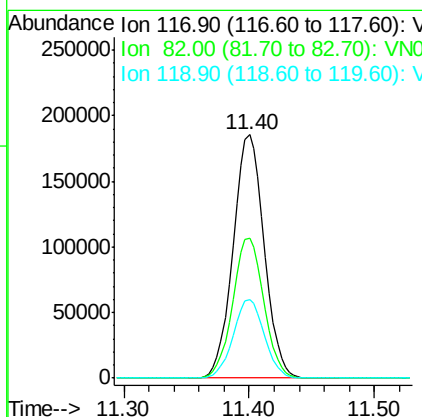
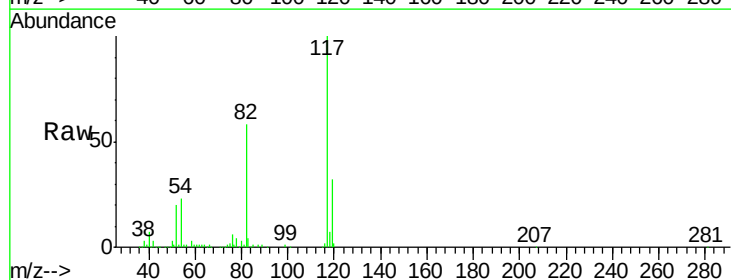
Instrument :
MSVOA_N
ClientSampleId :
BUS-WASH

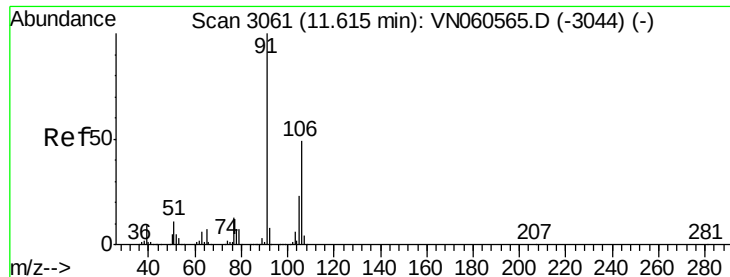
Tgt Ion: 95 Resp: 156506
Ion Ratio Lower Upper
95 100
174 78.6 0.0 157.6
176 76.7 0.0 150.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

Tgt Ion: 117 Resp: 318334
Ion Ratio Lower Upper
117 100
82 57.6 46.7 70.1
119 32.3 25.5 38.3





#68

m/p-Xylenes

Concen: 0.320 ug/l

RT: 11.61 min Scan# 3059

Delta R.T. -0.01 min

Lab File: VN060727.D

Acq: 26 Mar 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

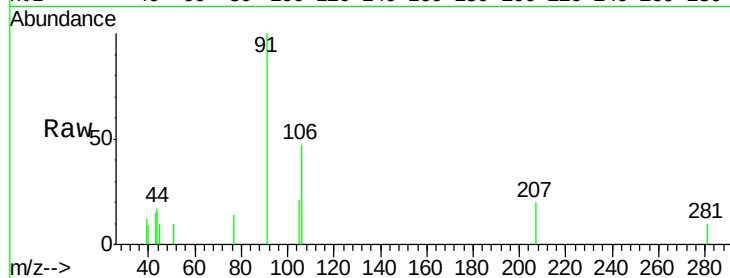
BUS-WASH

Tgt Ion:106 Resp: 1397

Ion Ratio Lower Upper

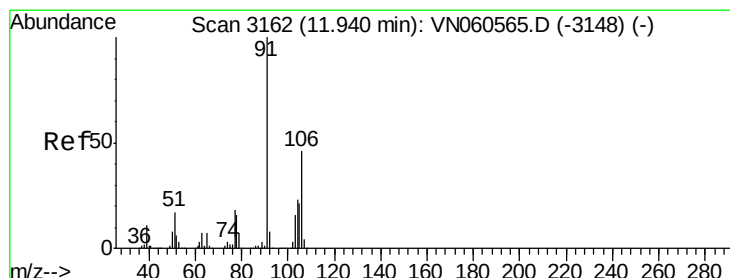
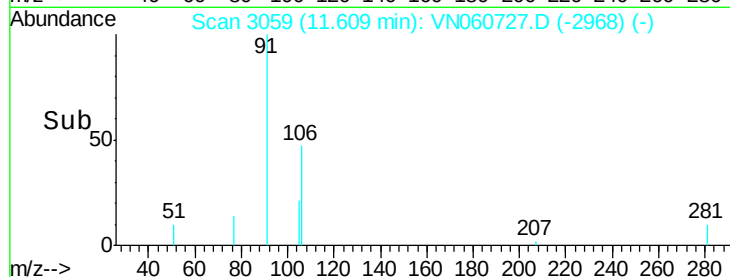
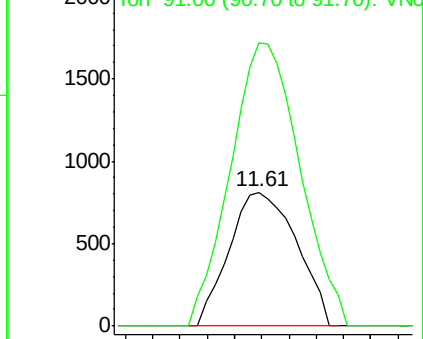
106 100

91 216.8 165.0 247.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 0.230 ug/l

RT: 11.94 min Scan# 3163

Delta R.T. 0.00 min

Lab File: VN060727.D

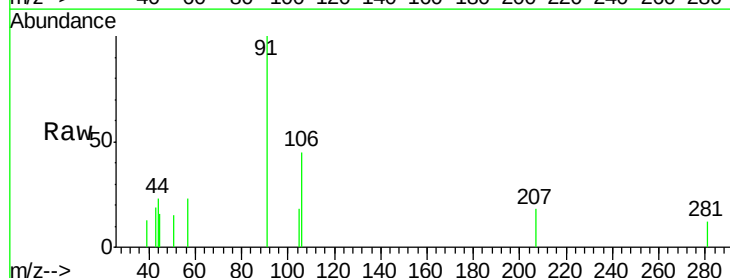
Acq: 26 Mar 2020 20:23

Tgt Ion:106 Resp: 956

Ion Ratio Lower Upper

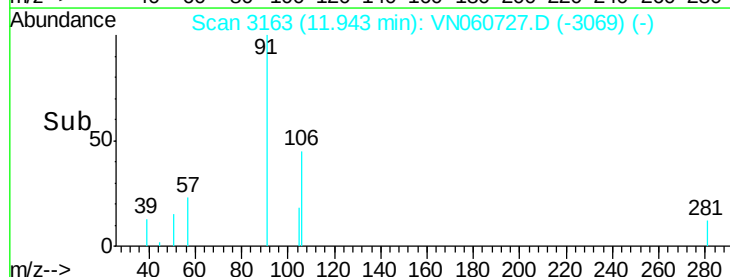
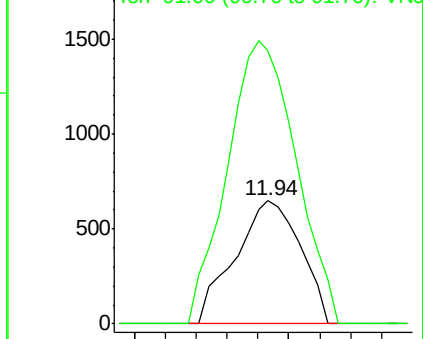
106 100

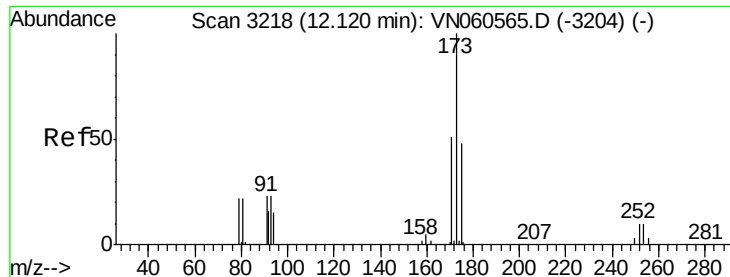
91 240.7 109.5 328.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

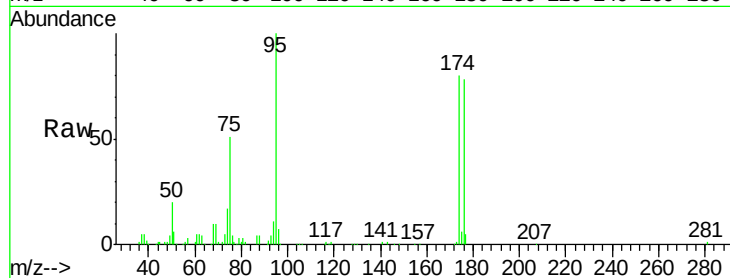




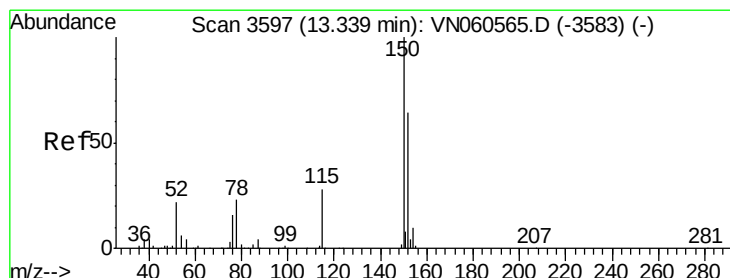
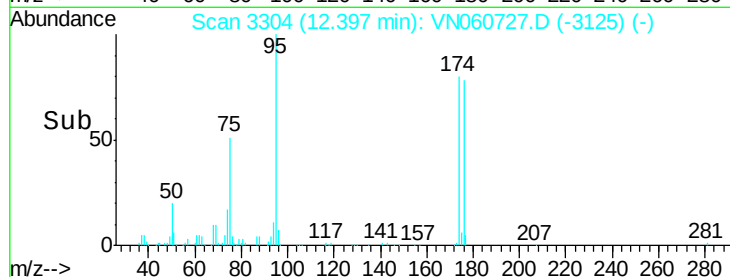
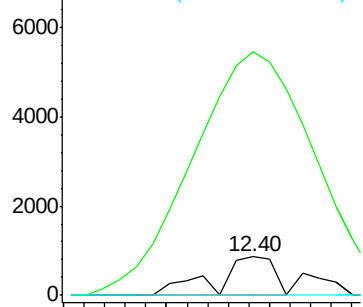
#71
Bromoform
Concen: 2.022 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
BUS-WASH

Tgt Ion:173 Resp: 671
Ion Ratio Lower Upper
173 100
175 1131.9 24.1 72.4#
254 0.0 0.0 0.0

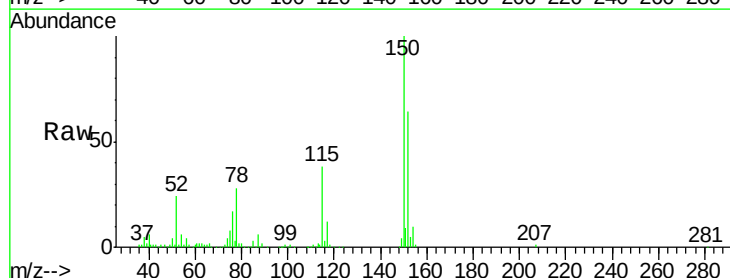


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

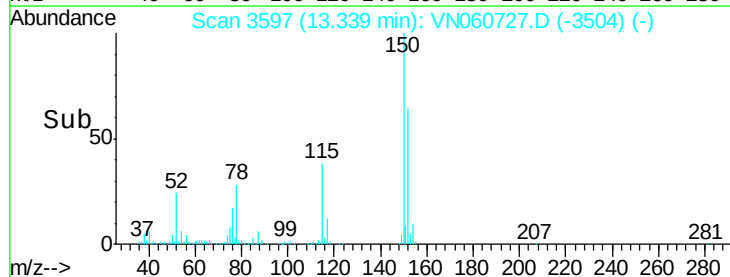
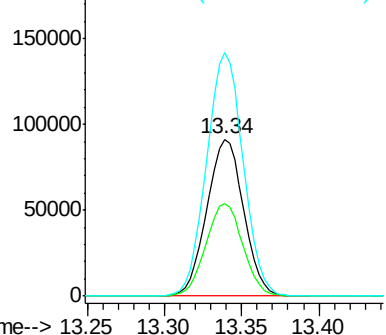


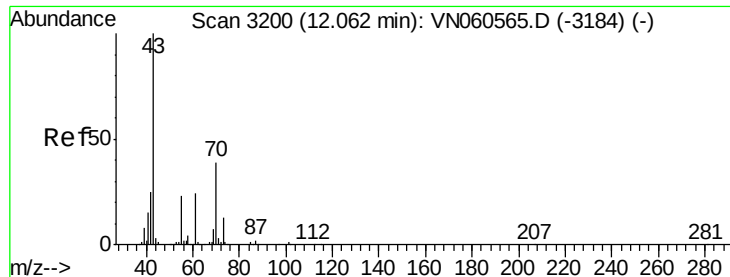
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

Tgt Ion:152 Resp: 150686
Ion Ratio Lower Upper
152 100
115 59.5 30.2 90.6
150 154.8 0.0 350.2



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





#74

N-amyI acetate

Concen: 0.806 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060727.D

Acq: 26 Mar 2020 20:23

Instrument :

MSVOA_N

ClientSampleId :

BUS-WASH

Tgt Ion: 43 Resp: 4213

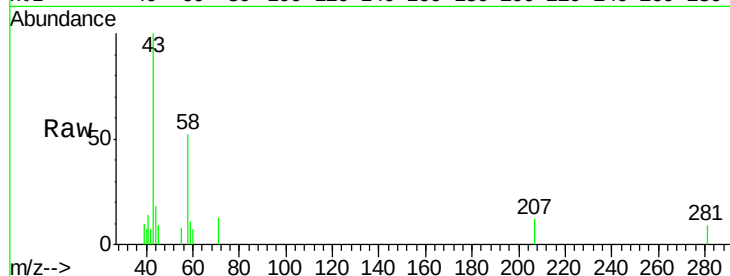
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 2.4 18.6 27.8#

61 0.0 18.9 28.3#

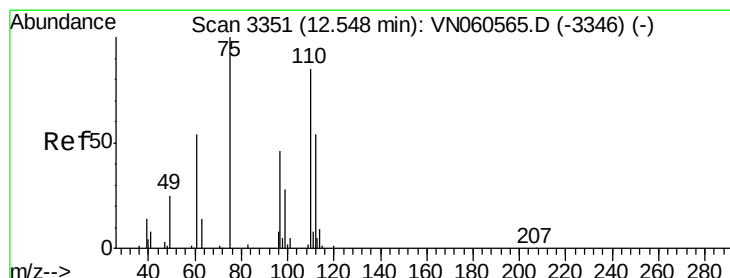
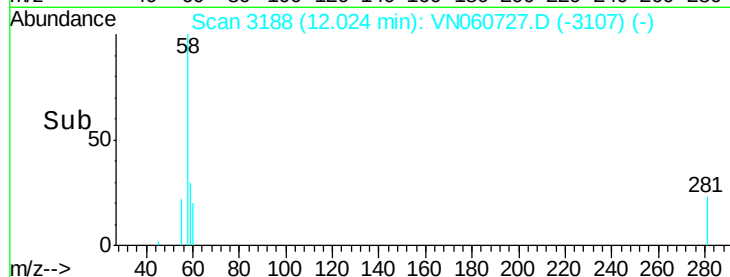
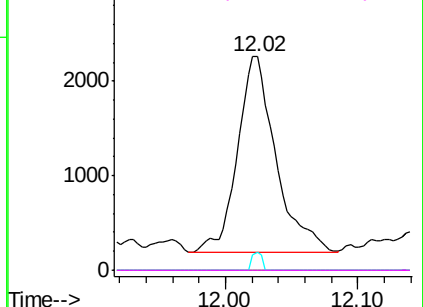


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 24.536 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060727.D

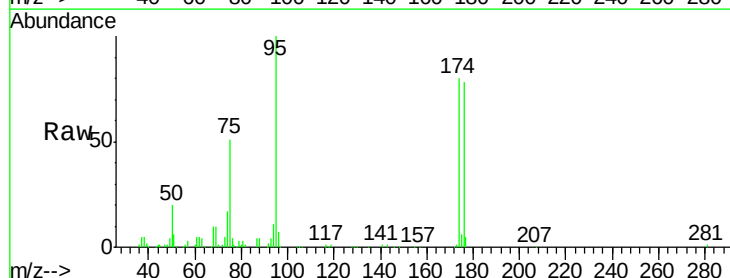
Acq: 26 Mar 2020 20:23

Tgt Ion: 75 Resp: 79780

Ion Ratio Lower Upper

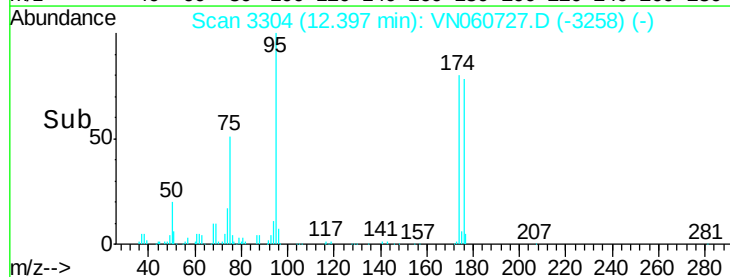
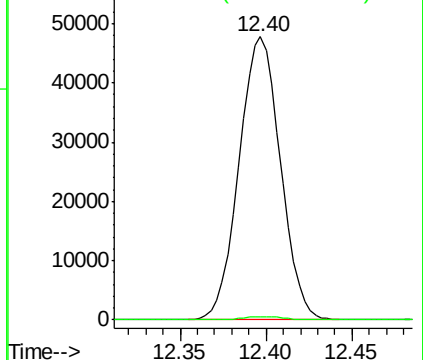
75 100

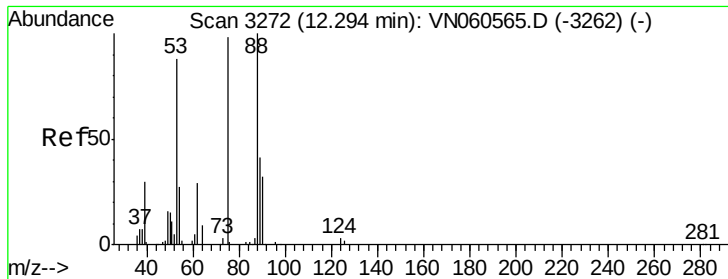
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

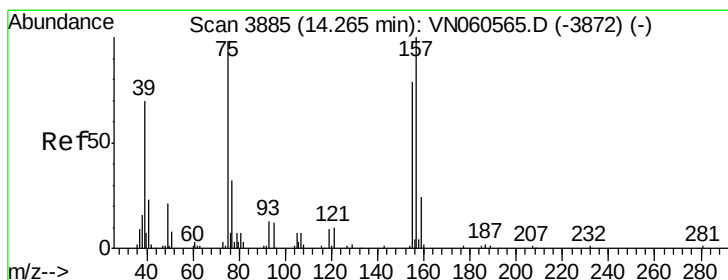
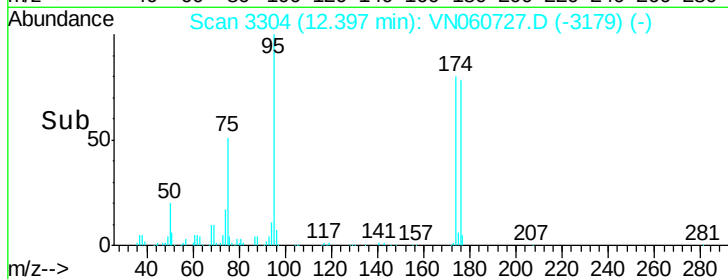
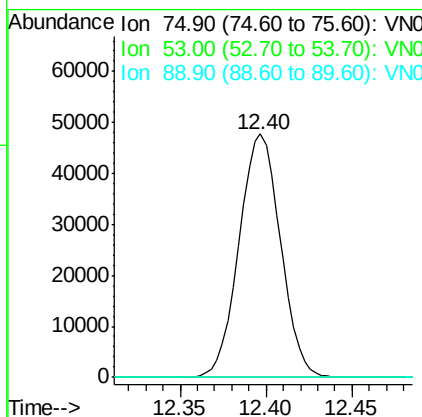
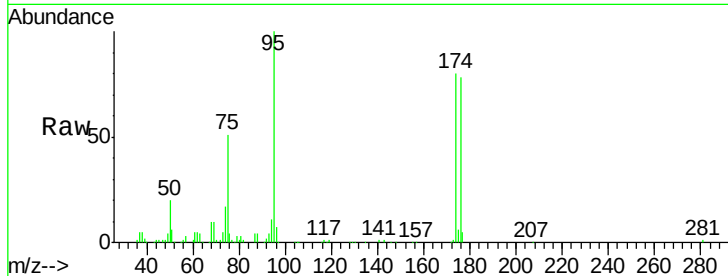




#81
trans-1,4-Dichloro-2-butene
Concen: 63.017 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

Instrument :
MSVOA_N
ClientSampleId :
BUS-WASH

Tgt Ion: 75 Resp: 79780
Ion Ratio Lower Upper
75 100
53 0.0 73.0 109.4#
89 0.0 34.8 52.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.51 min Scan# 3962
Delta R.T. 0.25 min
Lab File: VN060727.D
Acq: 26 Mar 2020 20:23

Tgt Ion: 75 Resp: 30
Ion Ratio Lower Upper
75 100
155 0.0 40.7 122.1#
157 0.0 51.5 154.7#

