

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054609.D
 Acq On : 23 Mar 2019 17:22
 Operator : JC/SP
 Sample : K2020-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 KY038PS027-190318

Quant Time: Mar 25 03:32:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	601835	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	962448	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	763253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	264063	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	427754	57.14	ug/l	0.00
Spiked Amount			Recovery	=	114.28%	
35) Dibromofluoromethane	7.59	113	337879	54.49	ug/l	0.00
Spiked Amount			Recovery	=	108.98%	
50) Toluene-d8	10.09	98	1242704	53.31	ug/l	0.00
Spiked Amount			Recovery	=	106.62%	
62) 4-Bromofluorobenzene	12.40	95	364019	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	

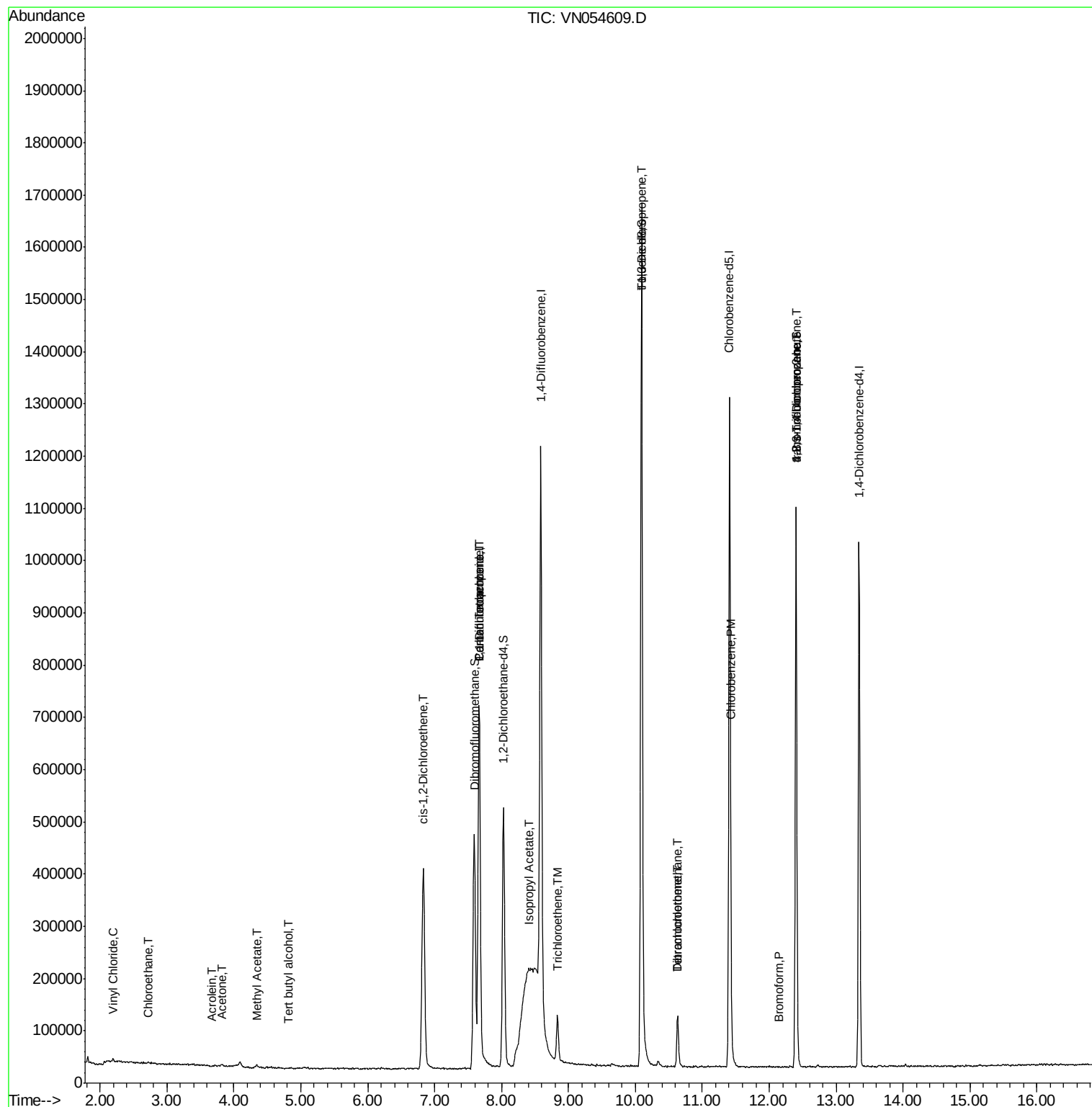
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.19	62	4732	0.602	ug/l	96
6) Chloroethane	2.72	64	976	0.207	ug/l #	43
11) Tert butyl alcohol	4.81	59	140	0.309	ug/l #	70
13) Acrolein	3.66	56	131	0.209	ug/l #	71
16) Acetone	3.82	43	5739	2.550	ug/l	99
18) Methyl Acetate	4.34	43	11384	2.269	ug/l #	67
27) cis-1,2-Dichloroethene	6.83	96	245801	34.766	ug/l	97
31) Cyclohexane	7.67	56	13061	Below Cal	#	29
36) 1,1-Dichloropropene	7.66	75	45915	5.102	ug/l #	48
38) Carbon Tetrachloride	7.67	117	55409	6.336	ug/l #	16
43) Isopropyl Acetate	8.40	43	457374	42.313	ug/l #	60
44) Trichloroethene	8.83	130	32528	4.547	ug/l	96
53) t-1,3-Dichloropropene	10.09	75	119	2.245	ug/l #	1
60) Dibromochloromethane	10.63	129	21478	3.548	ug/l #	11
64) Tetrachloroethene	10.63	164	23355	3.689	ug/l	96
65) Chlorobenzene	11.43	112	6659	0.429	ug/l	95
71) Bromoform	12.13	173	135	2.254	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	190052	45.355	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190052	149.610	ug/l #	11

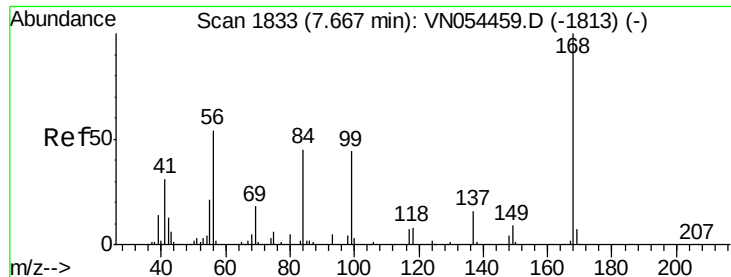
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054609.D

Acq: 23 Mar 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

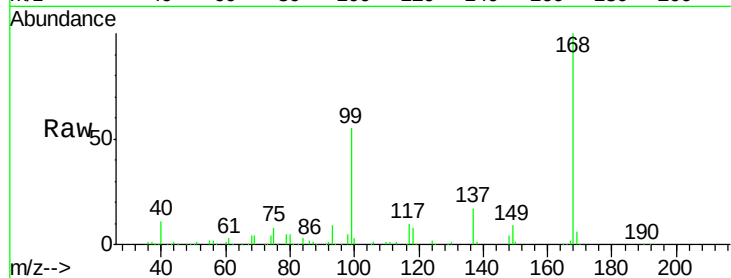
KY038PS027-190318

Tot Ion:168 Resp: 601835

Ion Ratio Lower Upper

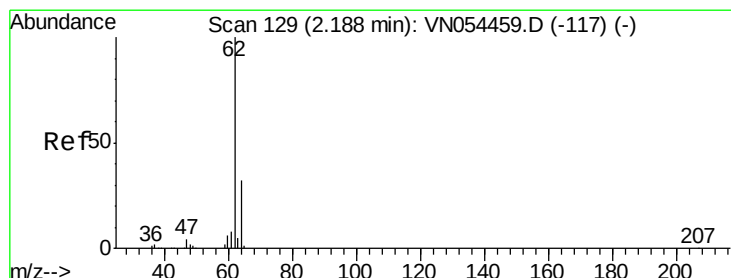
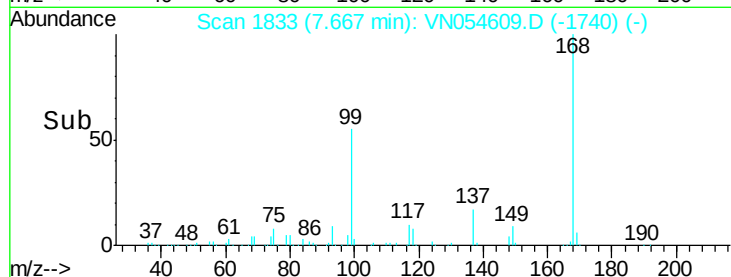
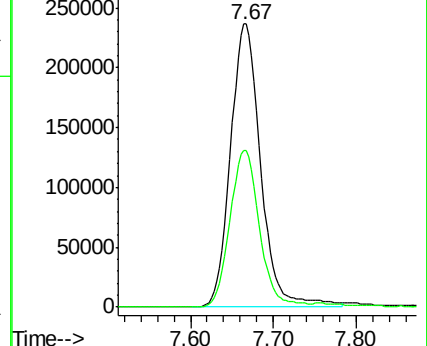
168 100

99 55.1 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#4

Vinyl Chloride

Concen: 0.602 ug/l

RT: 2.19 min Scan# 131

Delta R.T. 0.01 min

Lab File: VN054609.D

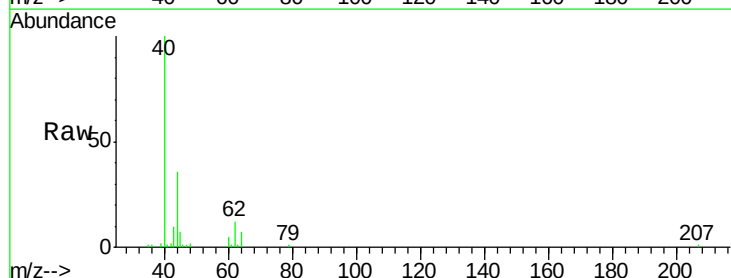
Acq: 23 Mar 2019 17:22

Tgt Ion: 62 Resp: 4732

Ion Ratio Lower Upper

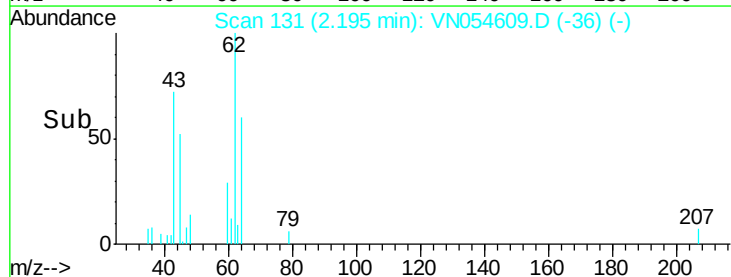
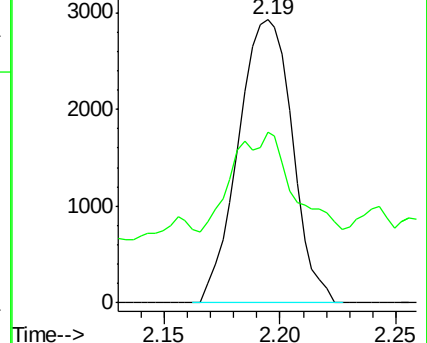
62 100

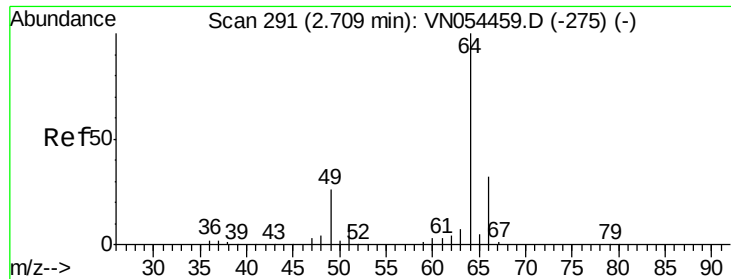
64 34.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#6

Chloroethane

Concen: 0.207 ug/l

RT: 2.72 min Scan# 295

Delta R.T. 0.01 min

Lab File: VN054609.D

Acq: 23 Mar 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

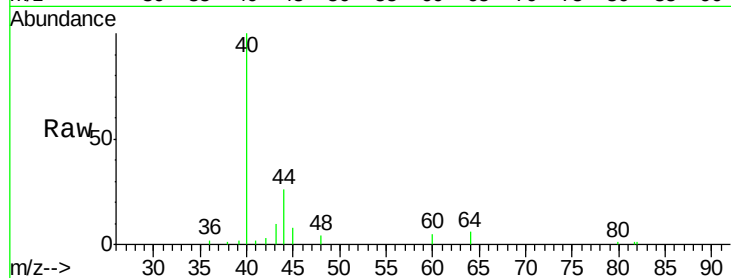
KY038PS027-190318

Tot Ion: 64 Resp: 976

Ion Ratio Lower Upper

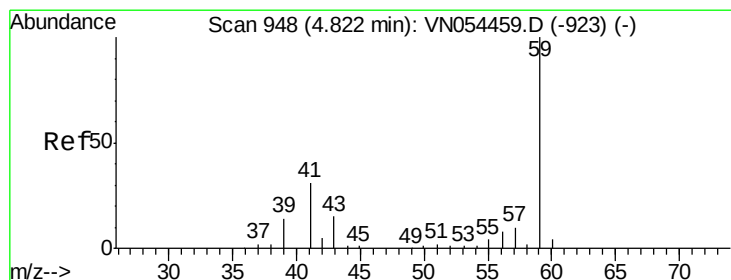
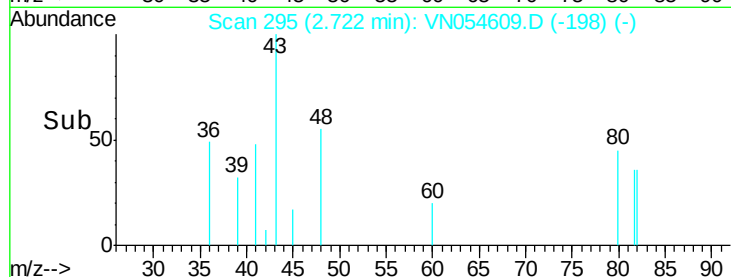
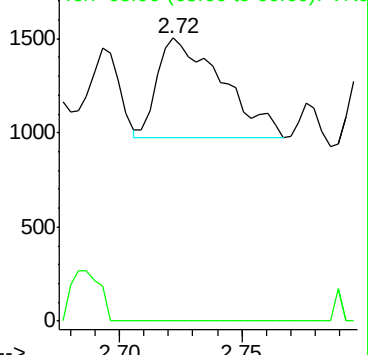
64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#11

Tert butyl alcohol

Concen: 0.309 ug/l

RT: 4.81 min Scan# 944

Delta R.T. -0.01 min

Lab File: VN054609.D

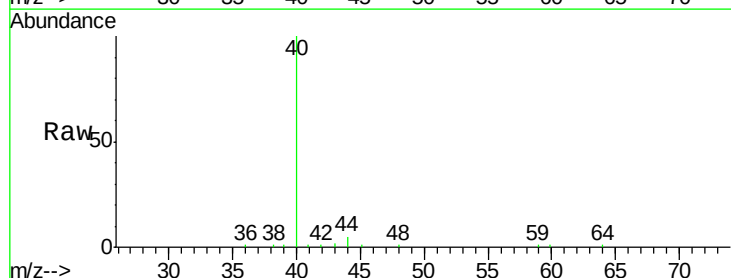
Acq: 23 Mar 2019 17:22

Tgt Ion: 59 Resp: 140

Ion Ratio Lower Upper

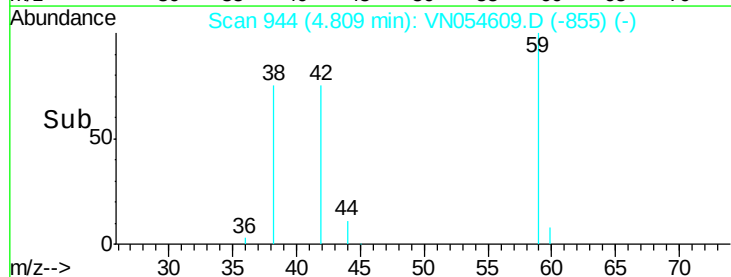
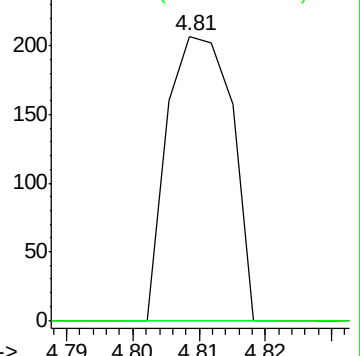
59 100

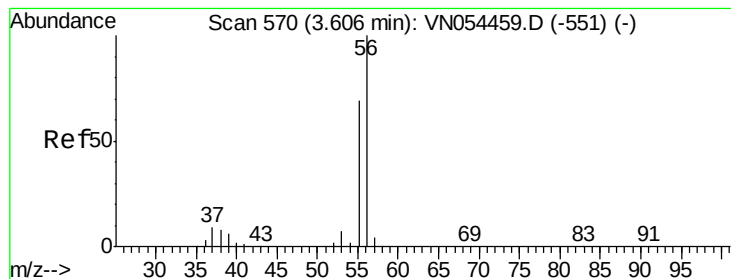
57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 0.209 ug/l

RT: 3.66 min Scan# 588

Delta R.T. 0.06 min

Lab File: VN054609.D

Acq: 23 Mar 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

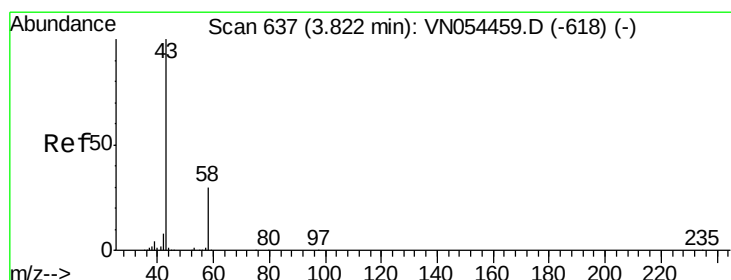
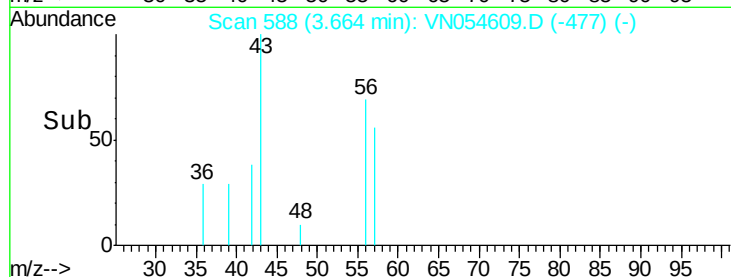
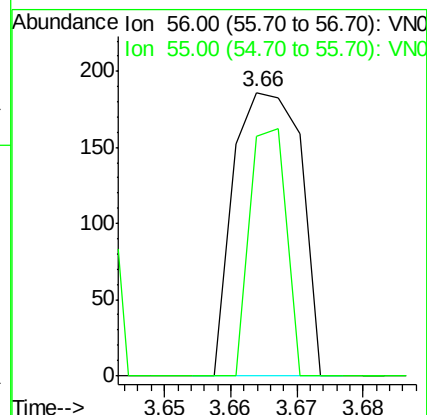
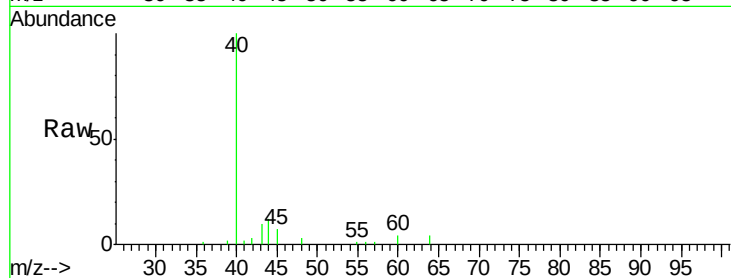
KY038PS027-190318

Tot Ion: 56 Resp: 131

Ion Ratio Lower Upper

56 100

55 47.3 56.7 85.1#



#16

Acetone

Concen: 2.550 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN054609.D

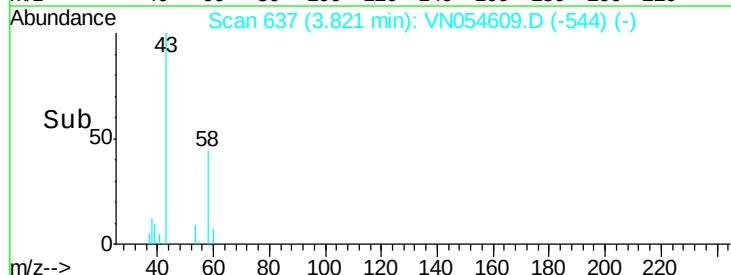
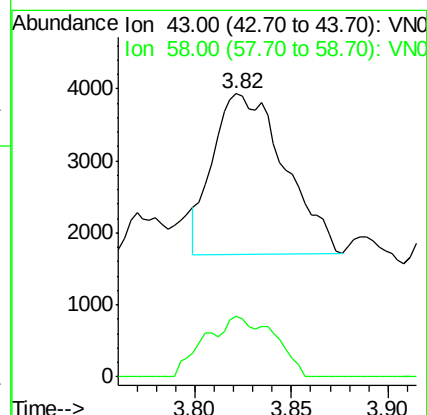
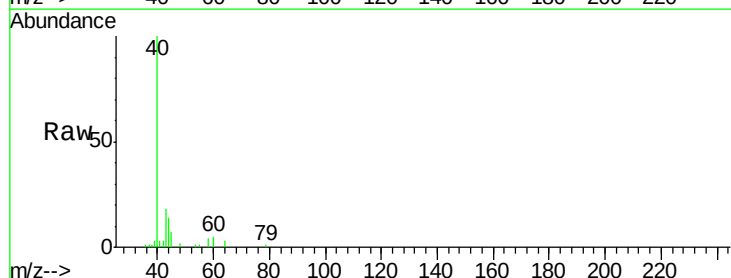
Acq: 23 Mar 2019 17:22

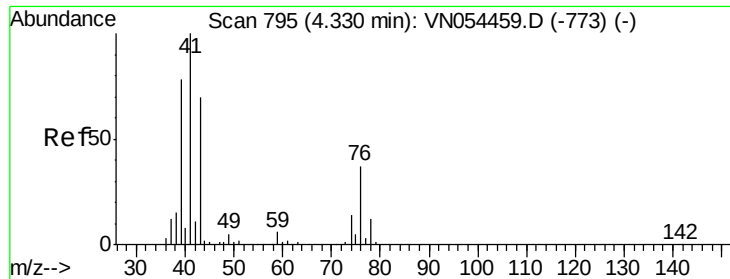
Tgt Ion: 43 Resp: 5739

Ion Ratio Lower Upper

43 100

58 38.0 29.9 44.9

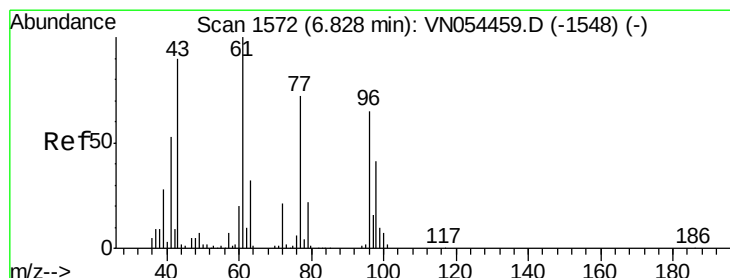
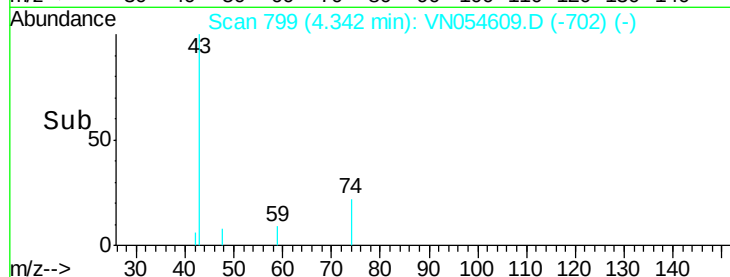
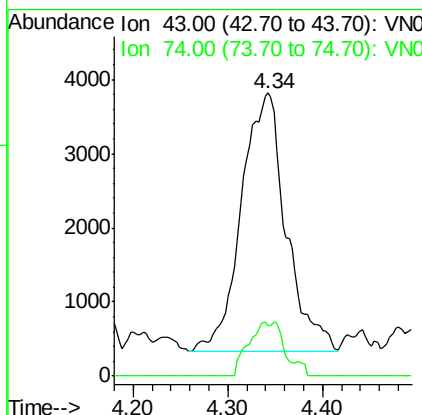
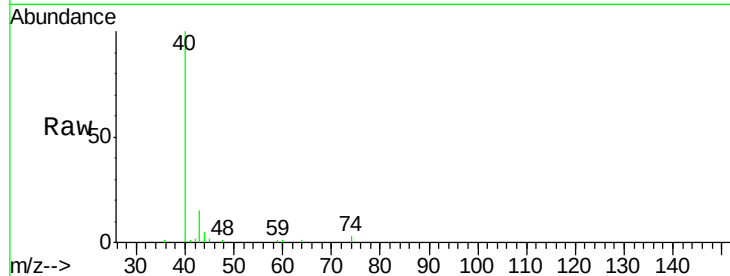




#18
Methvl Acetate
Concen: 2.269 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

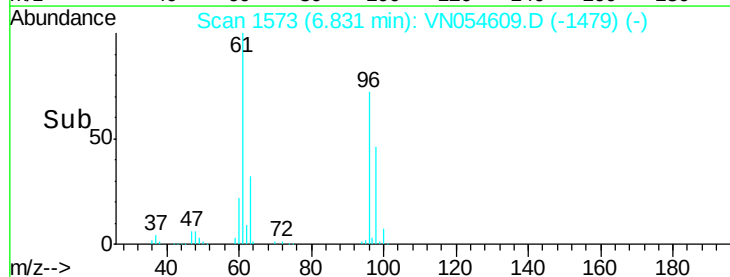
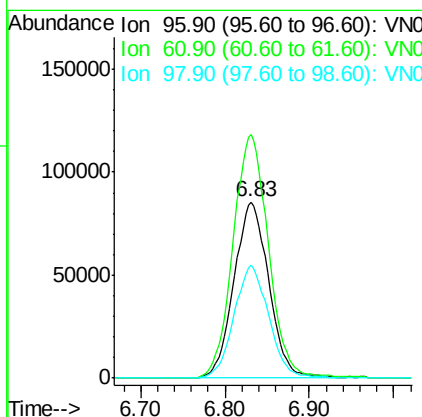
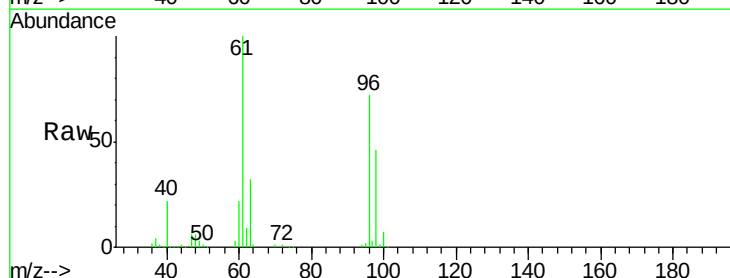
Instrument :
MSVOA_N
ClientSampleId :
KY038PS027-190318

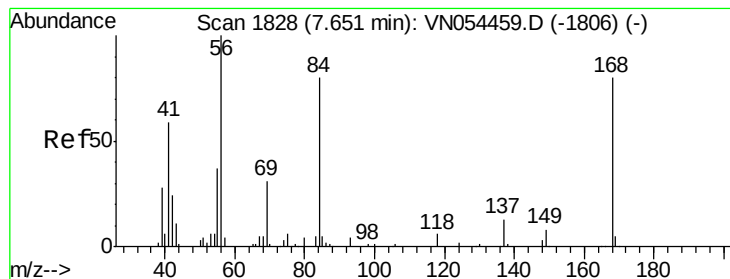
Tot Ion: 43 Resp: 11384
Ion Ratio Lower Upper
43 100
74 9.4 20.8 31.2#



#27
cis-1,2-Dichloroethene
Concen: 34.766 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

Tgt Ion: 96 Resp: 245801
Ion Ratio Lower Upper
96 100
61 140.8 0.0 273.0
98 64.0 0.0 130.6





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054609.D

Acq: 23 Mar 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

KY038PS027-190318

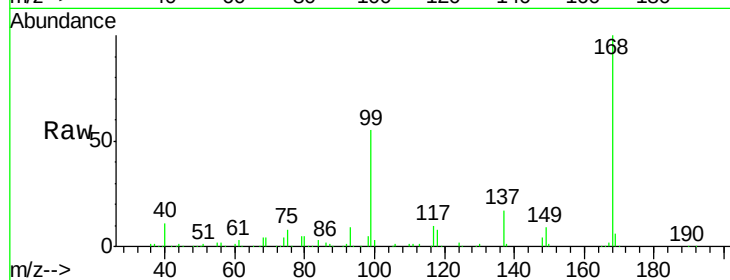
Tot Ion: 56 Resp: 13061

Ion Ratio Lower Upper

56 100

69 152.7 27.8 41.6#

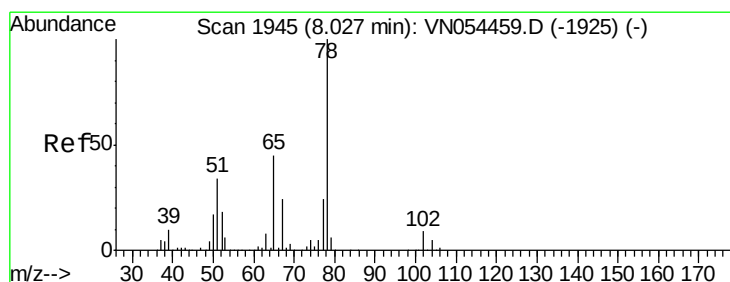
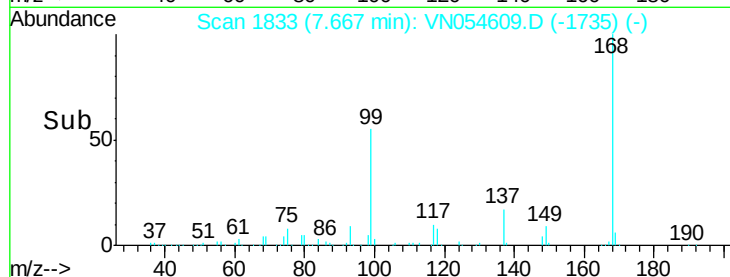
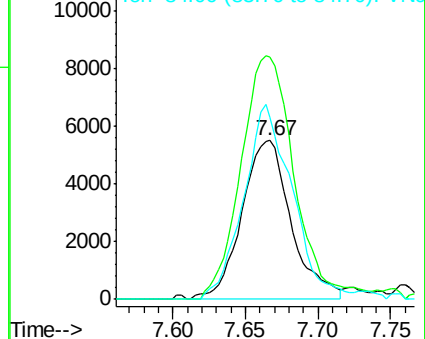
84 114.4 74.6 111.8#



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: 57.142 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054609.D

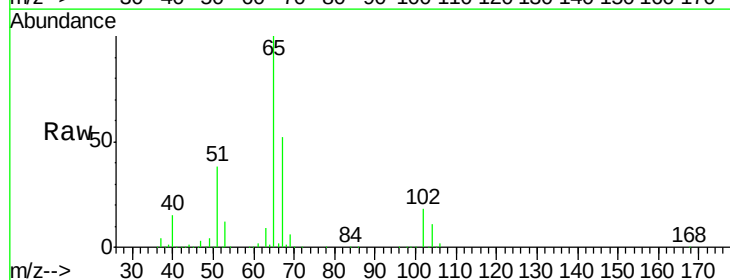
Acq: 23 Mar 2019 17:22

Tgt Ion: 65 Resp: 427754

Ion Ratio Lower Upper

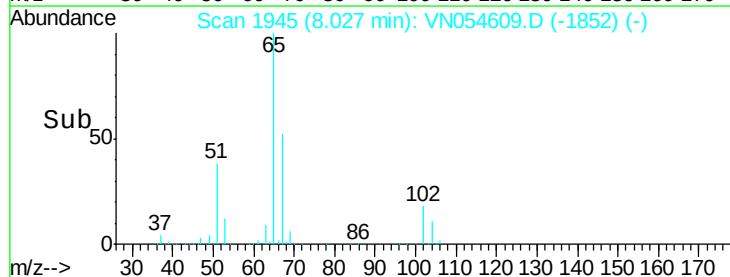
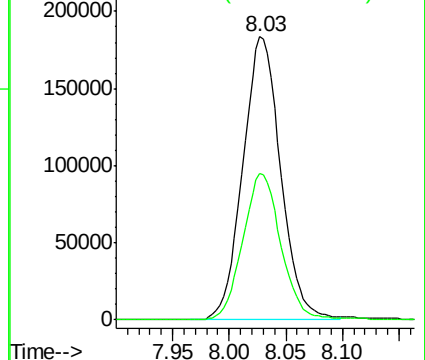
65 100

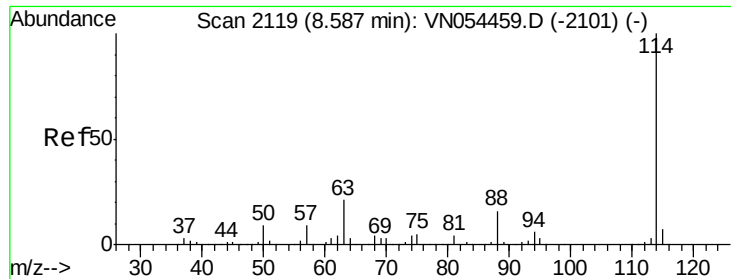
67 52.3 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

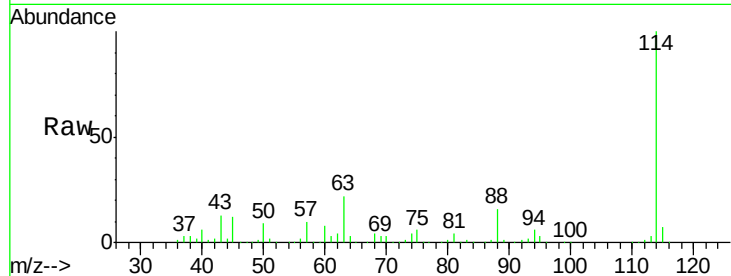




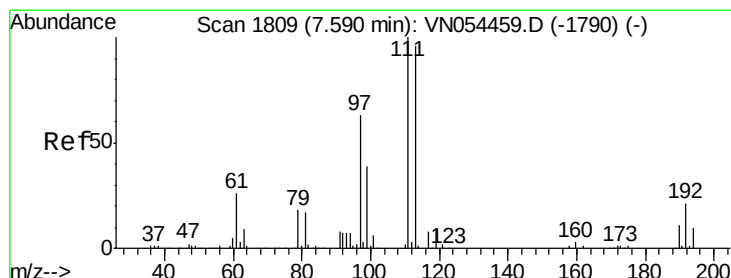
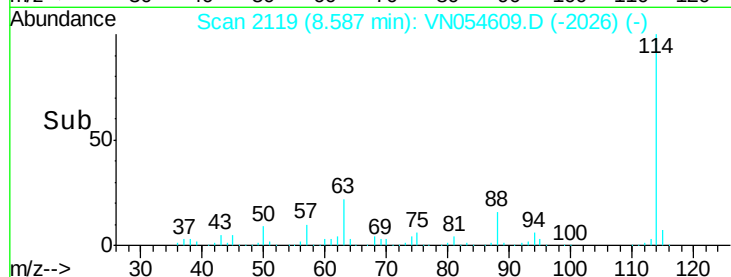
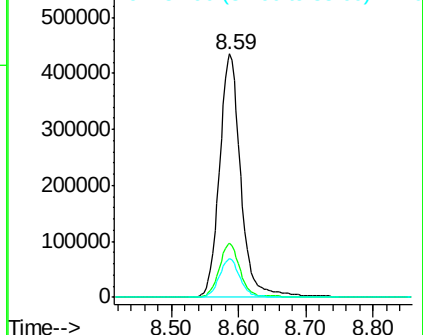
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054609.D
 Acq: 23 Mar 2019 17:22

Instrument :
 MSVOA_N
 ClientSampleId :
 KY038PS027-190318

Tot Ion:114 Resp: 962448
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 35.2
 88 15.8 0.0 30.2

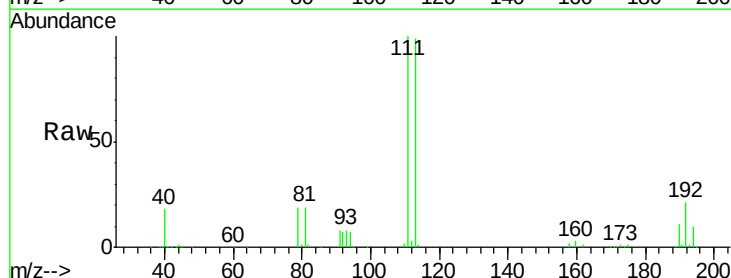


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

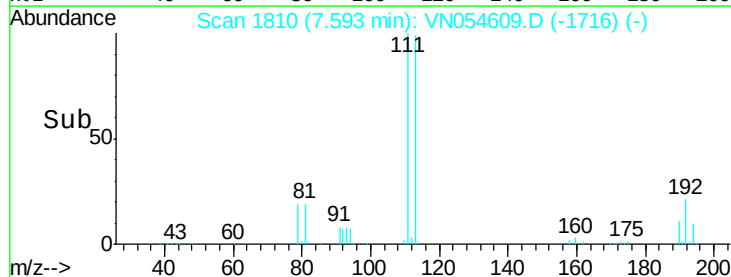
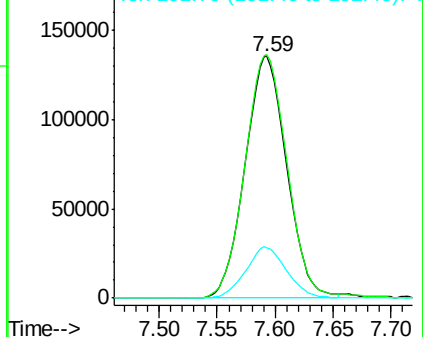


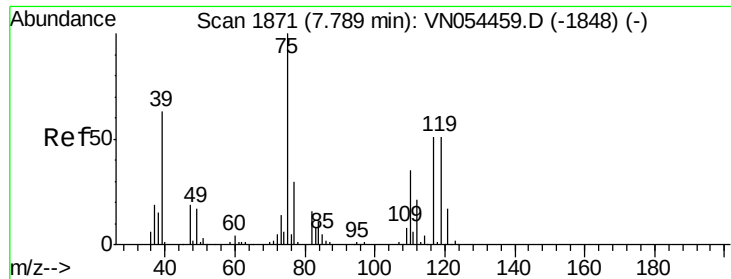
#35
 Dibromofluoromethane
 Concen: 54.492 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054609.D
 Acq: 23 Mar 2019 17:22

Tgt Ion:113 Resp: 337879
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.2 123.4
 192 20.8 19.2 28.8



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

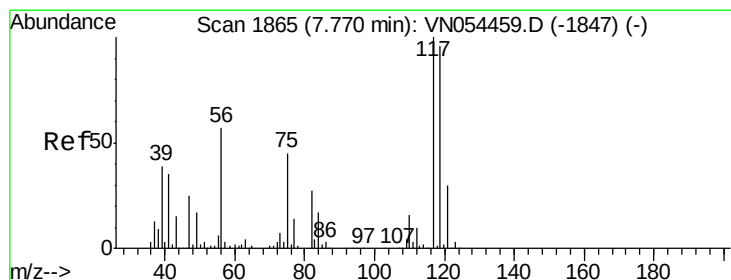
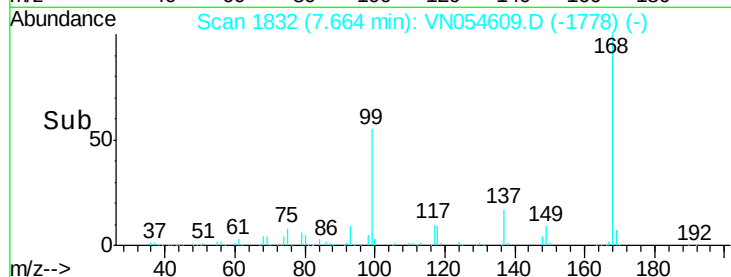
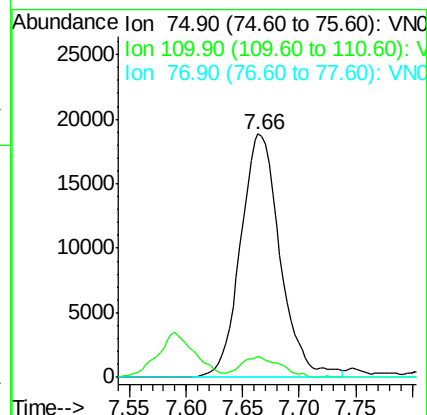
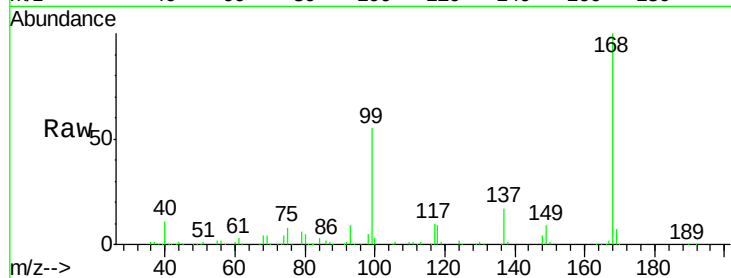




#36
 1,1-Dichloropropene
 Concen: 5.102 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054609.D
 Acq: 23 Mar 2019 17:22

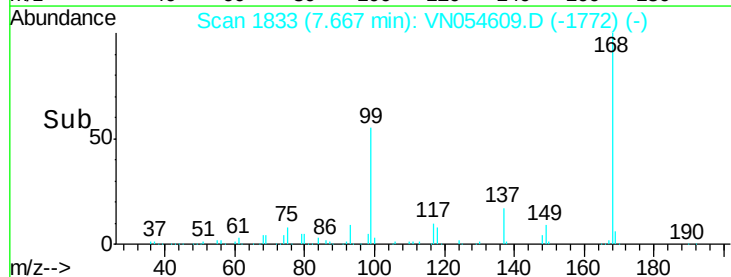
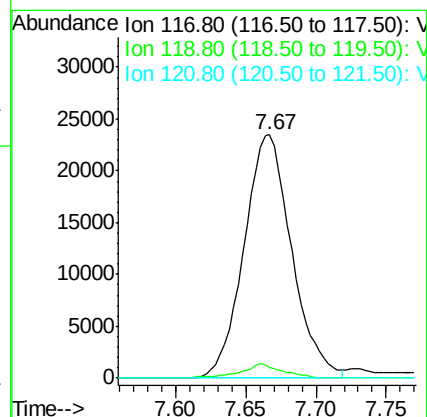
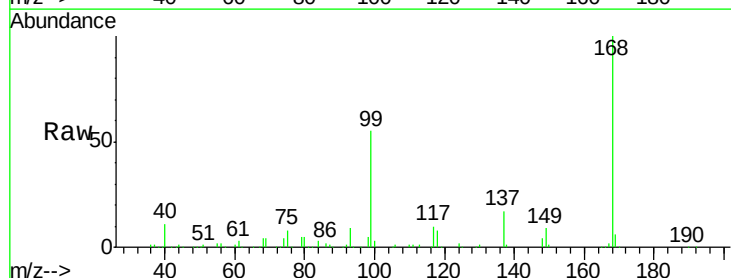
Instrument :
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 KY038PS027-190318

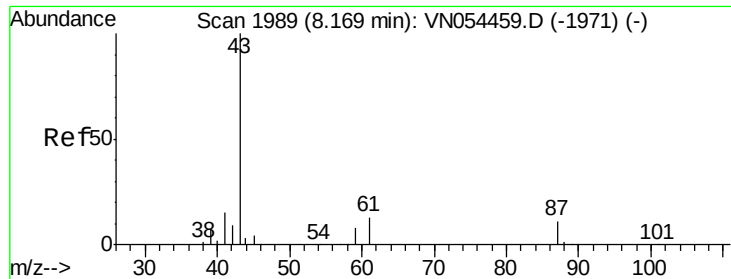
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.336 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN054609.D
 Acq: 23 Mar 2019 17:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 42.313 ug/l

RT: 8.40 min Scan# 2060

Delta R.T. 0.23 min

Lab File: VN054609.D

Acq: 23 Mar 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

KY038PS027-190318

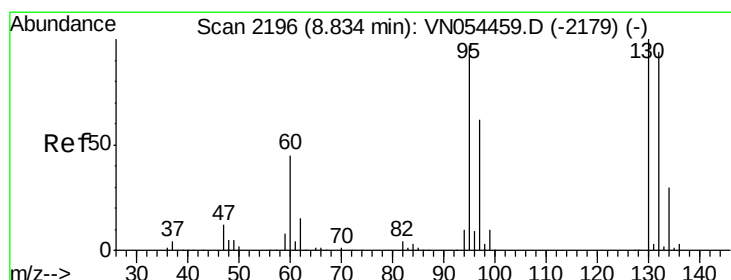
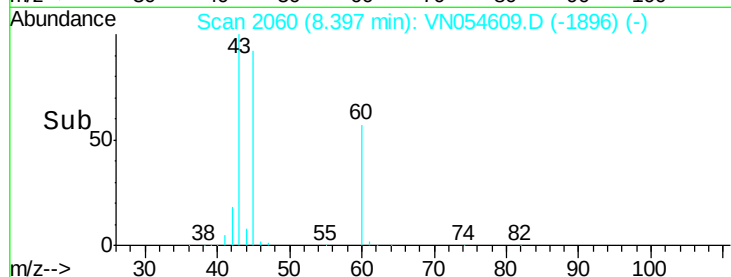
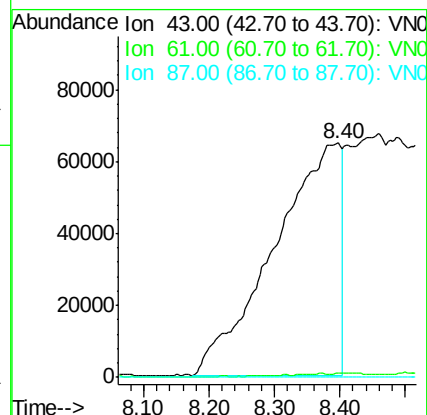
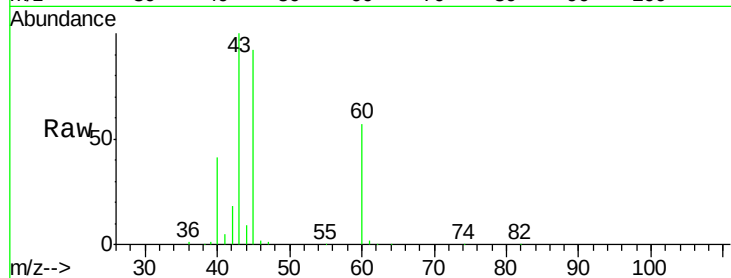
Tot Ion: 43 Resp: 457374

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

87 0.0 12.0 18.0#



#44

Trichloroethene

Concen: 4.547 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN054609.D

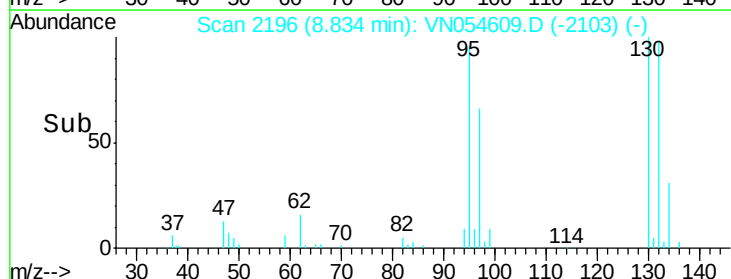
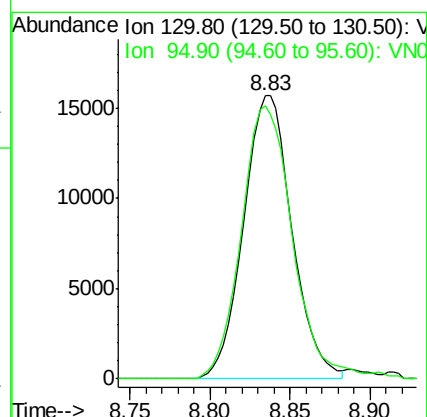
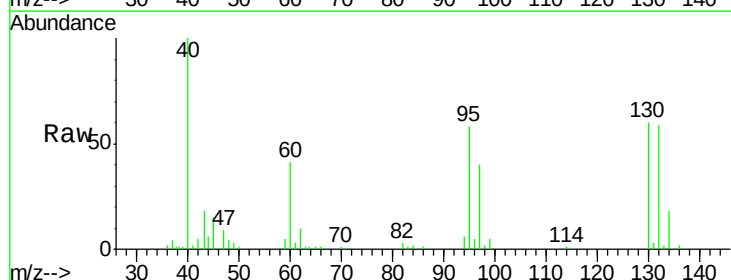
Acq: 23 Mar 2019 17:22

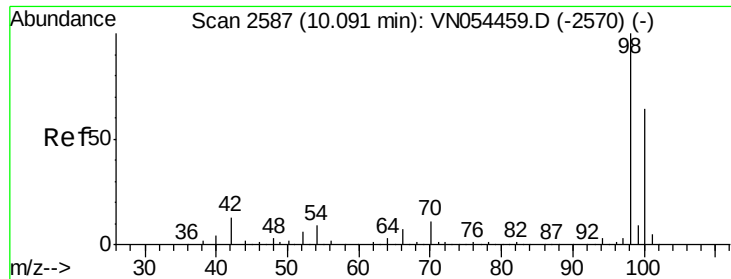
Tgt Ion:130 Resp: 32528

Ion Ratio Lower Upper

130 100

95 96.3 0.0 185.2

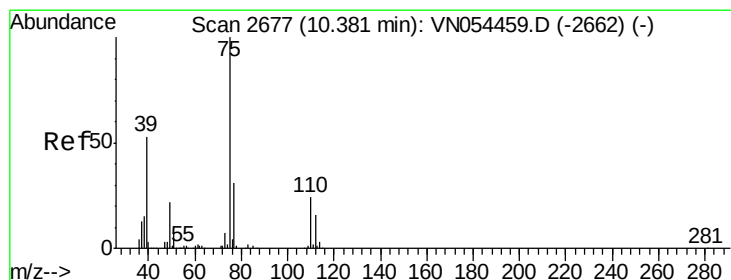
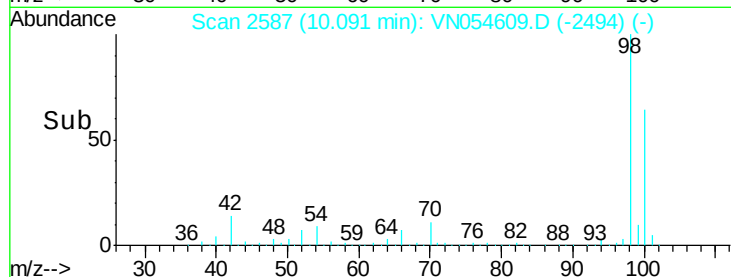
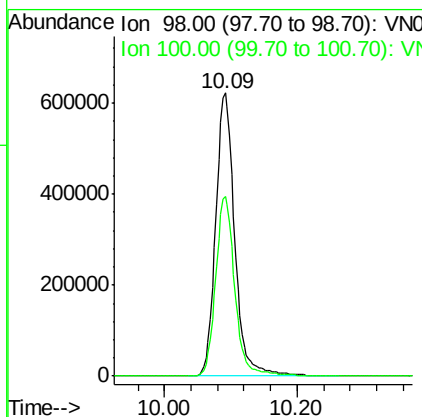
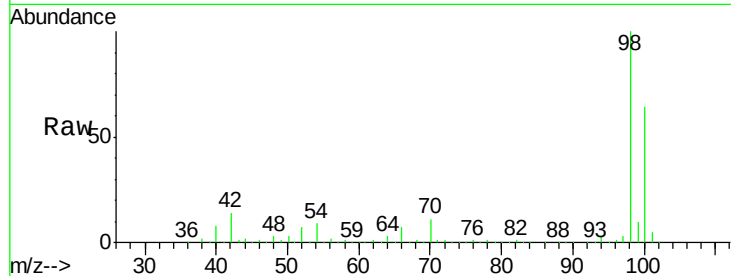




#50
Toluene-d8
Concen: 53.311 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

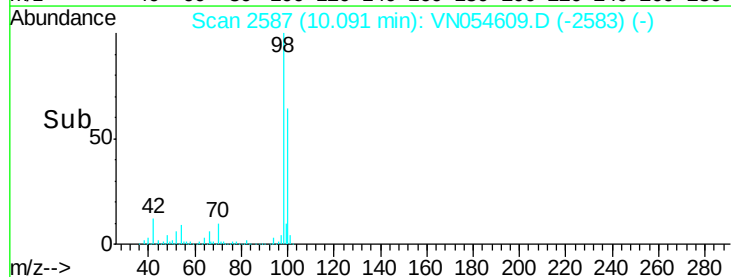
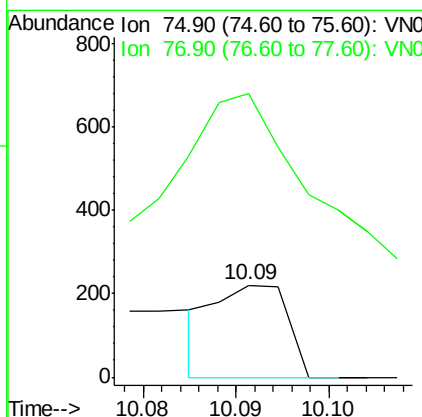
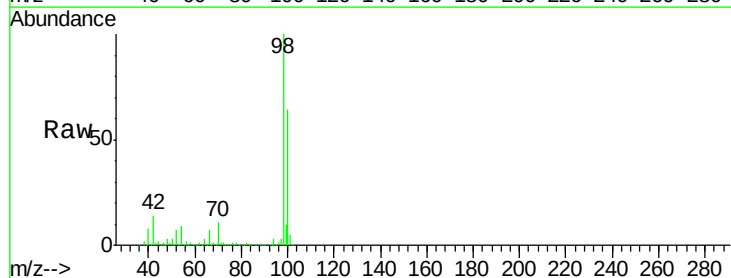
Instrument :
MSVOA_N
ClientSampleId :
KY038PS027-190318

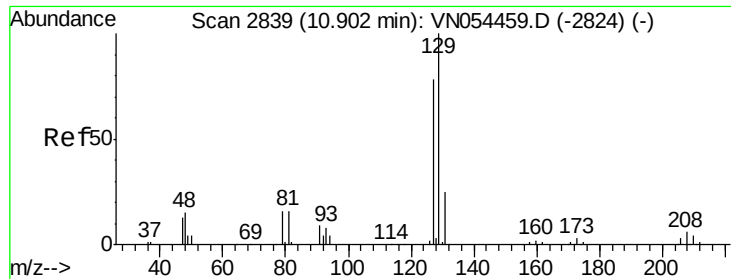
Tot Ion: 98 Resp: 1242704
Ion Ratio Lower Upper
98 100
100 63.8 51.2 76.8



#53
t-1,3-Dichloropropene
Concen: 2.245 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.29 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

Tgt Ion: 75 Resp: 119
Ion Ratio Lower Upper
75 100
77 125.8 25.8 38.8#

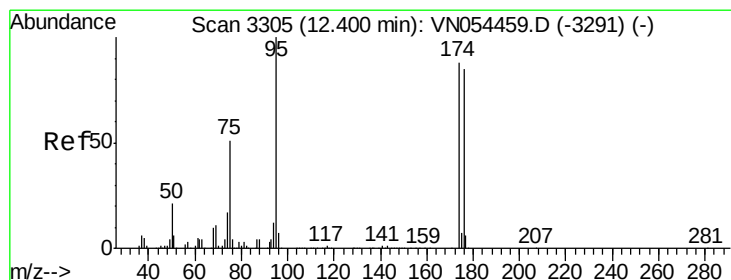
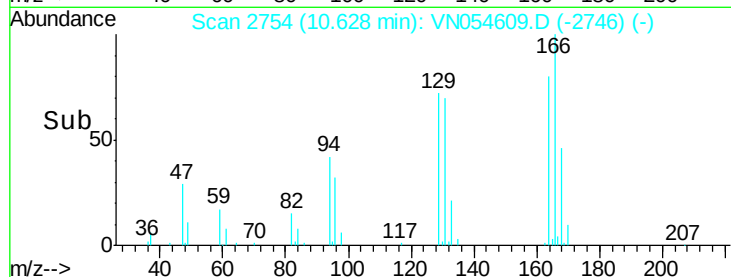
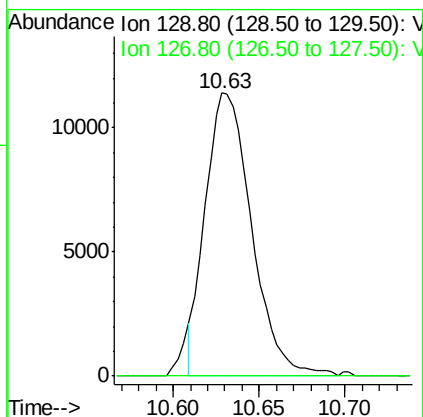
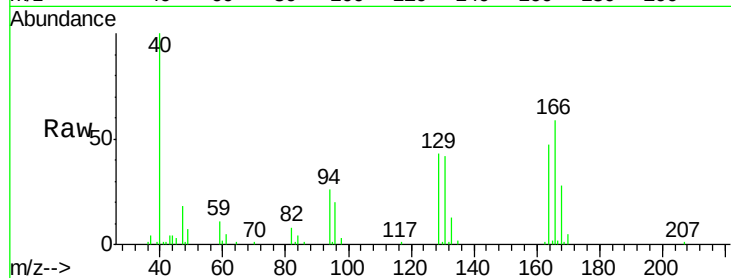




#60
Dibromochloromethane
Concen: 3.548 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.27 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

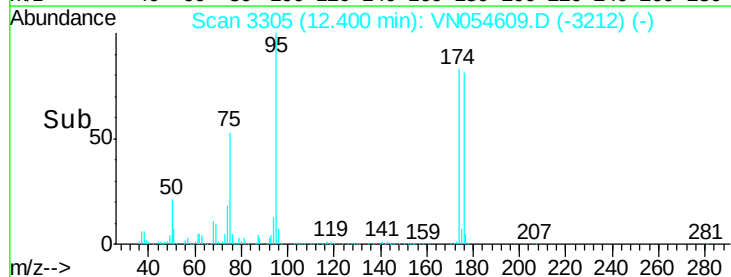
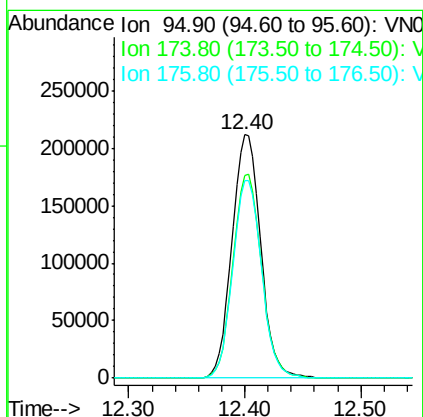
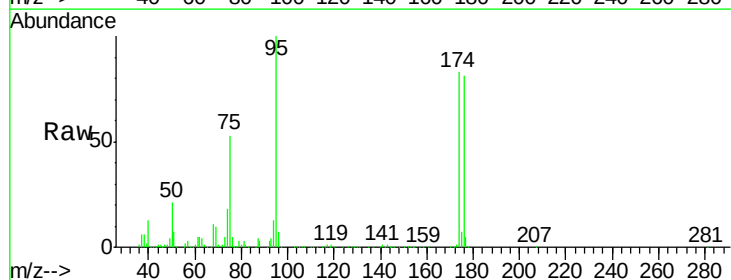
Instrument :
MSVOA_N
ClientSampleId :
KY038PS027-190318

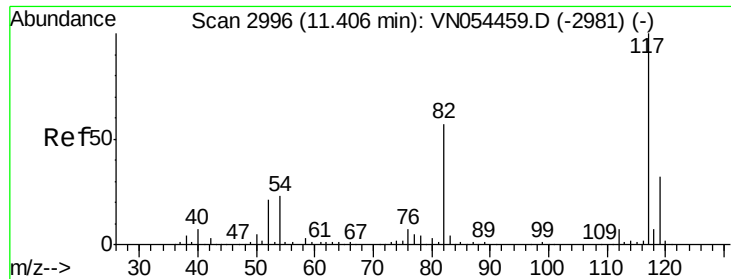
Tot Ion:129 Resp: 21478
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



#62
4-Bromofluorobenzene
Concen: 45.892 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

Tgt Ion: 95 Resp: 364019
Ion Ratio Lower Upper
95 100
174 83.4 0.0 191.0
176 81.2 0.0 187.4

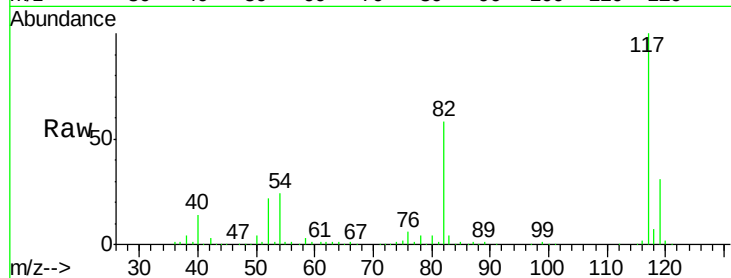




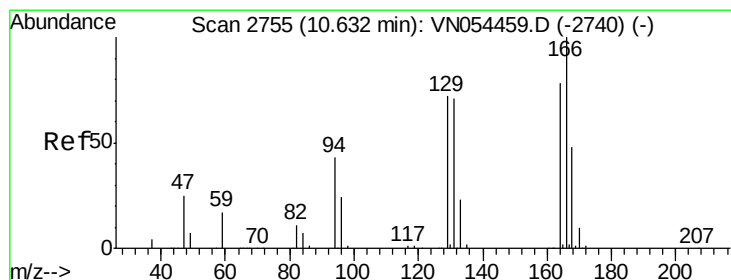
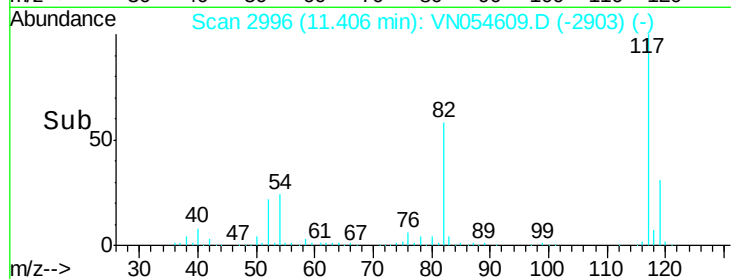
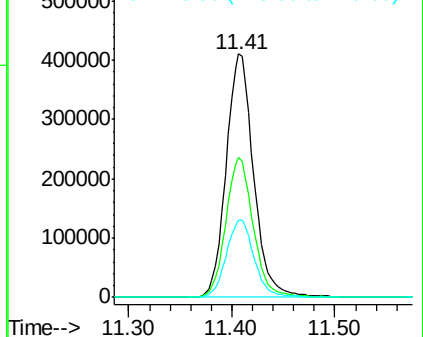
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

Instrument :
MSVOA_N
ClientSampleId :
KY038PS027-190318

Tot Ion:117 Resp: 763253
Ion Ratio Lower Upper
117 100
82 57.7 40.0 60.0
119 31.5 25.8 38.6

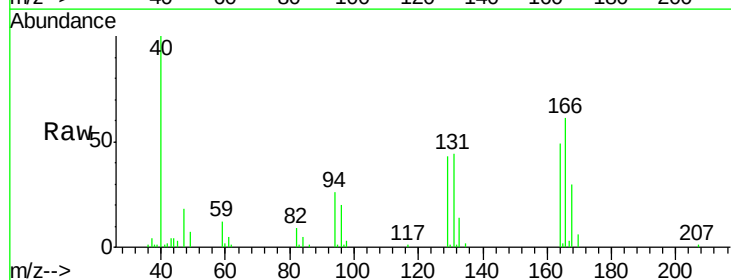


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

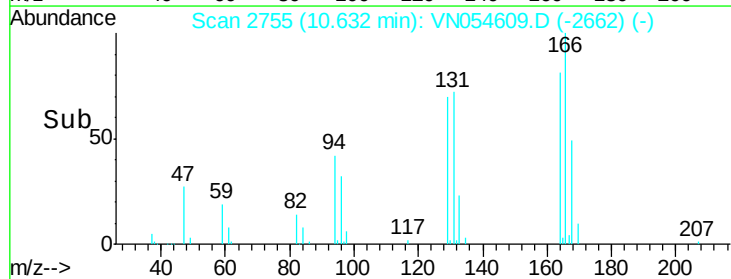
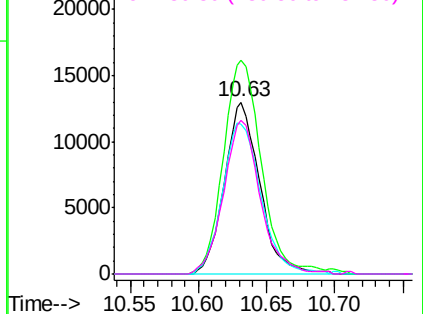


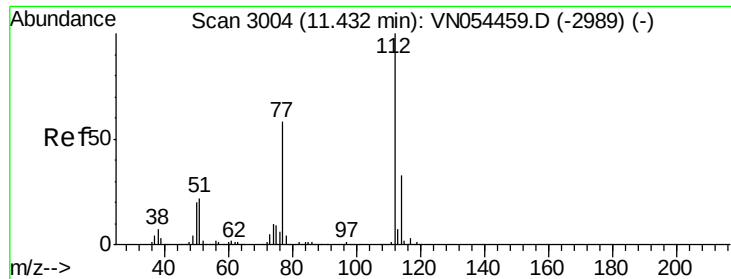
#64
Tetrachloroethene
Concen: 3.689 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

Tgt Ion:164 Resp: 23355
Ion Ratio Lower Upper
164 100
166 124.1 103.9 155.9
129 87.2 71.1 106.7
131 89.2 68.2 102.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

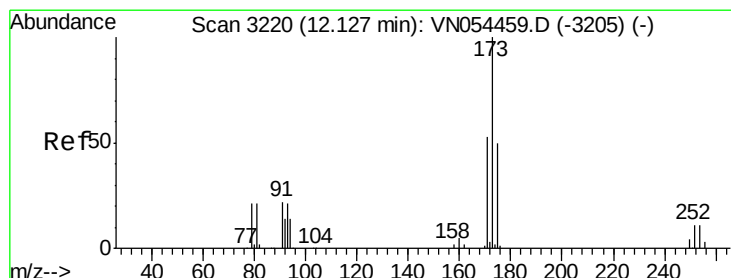
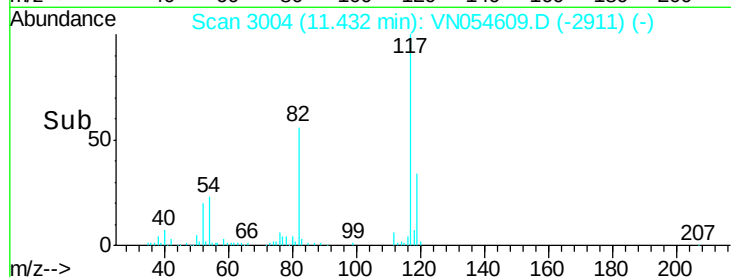
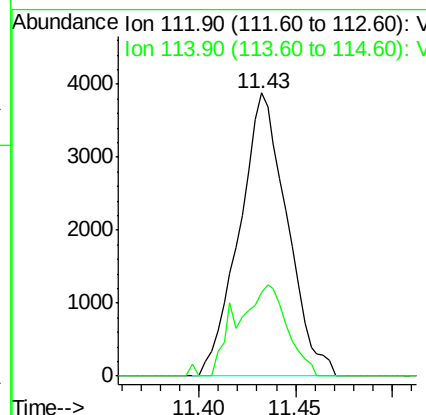
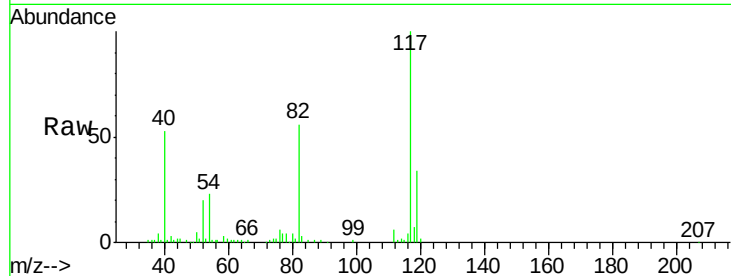




#65
Chlorobenzene
Concen: 0.429 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

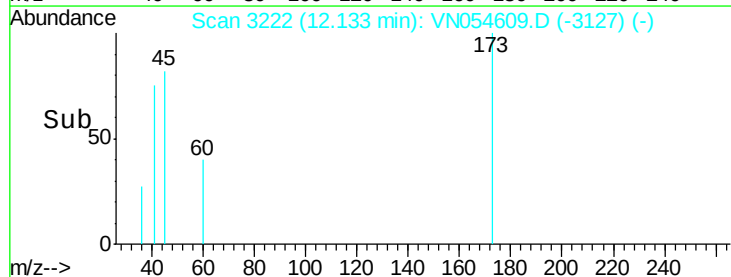
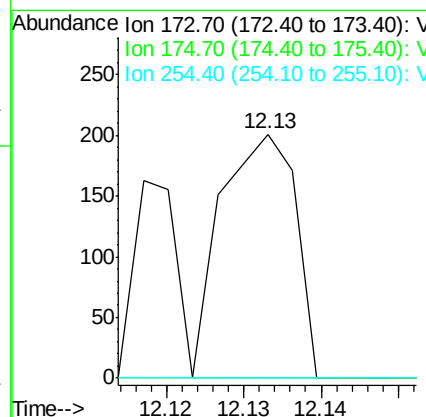
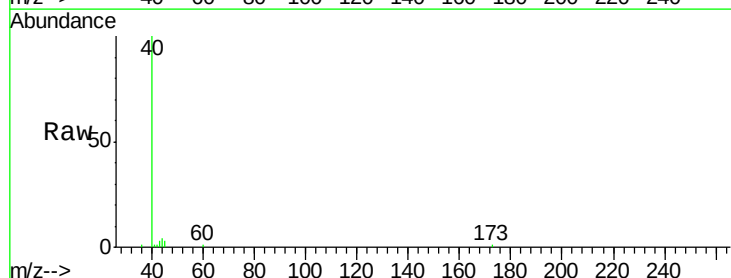
Instrument :
MSVOA_N
ClientSampleId :
KY038PS027-190318

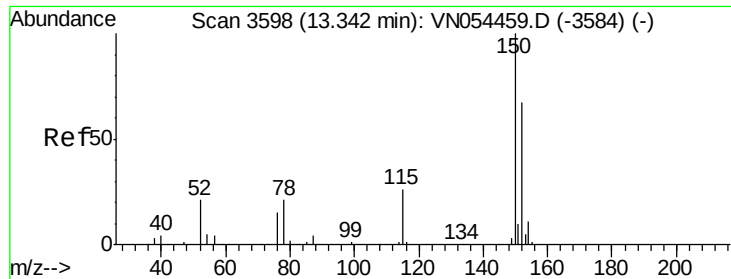
Tot Ion:112 Resp: 6659
Ion Ratio Lower Upper
112 100
114 29.4 25.9 38.9



#71
Bromoform
Concen: 2.254 ug/l
RT: 12.13 min Scan# 3222
Delta R.T. 0.01 min
Lab File: VN054609.D
Acq: 23 Mar 2019 17:22

Tgt Ion:173 Resp: 135
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054609.D

Acq: 23 Mar 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

KY038PS027-190318

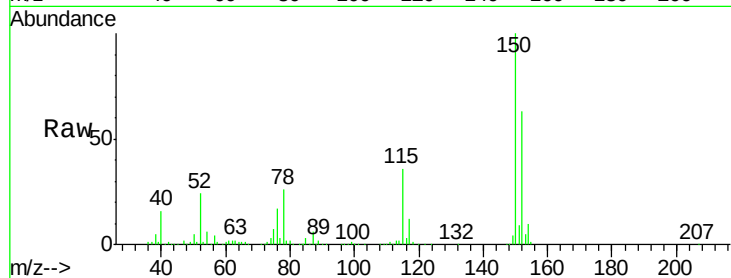
Tot Ion:152 Resp: 264063

Ion Ratio Lower Upper

152 100

115 58.3 27.2 81.6

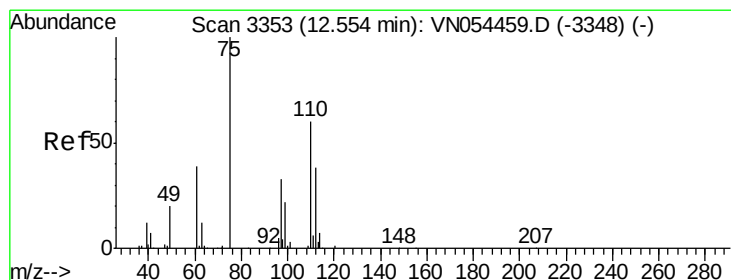
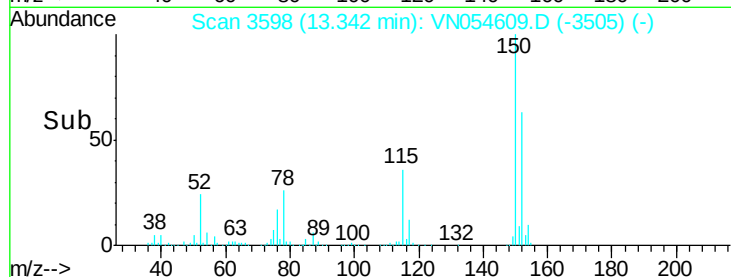
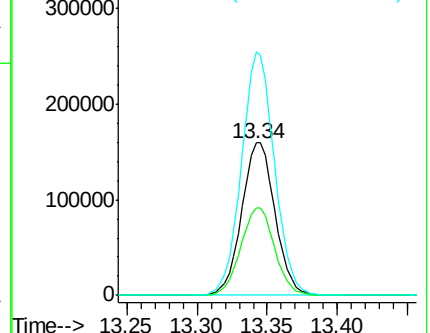
150 157.7 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 45.355 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054609.D

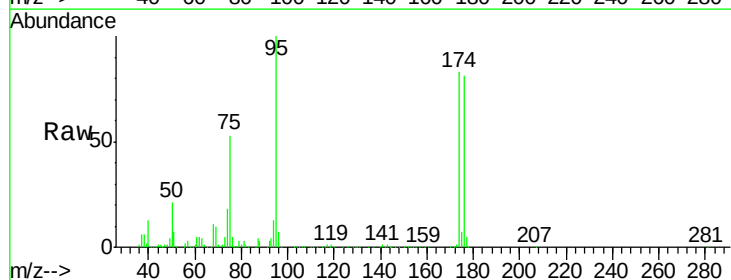
Acq: 23 Mar 2019 17:22

Tgt Ion: 75 Resp: 190052

Ion Ratio Lower Upper

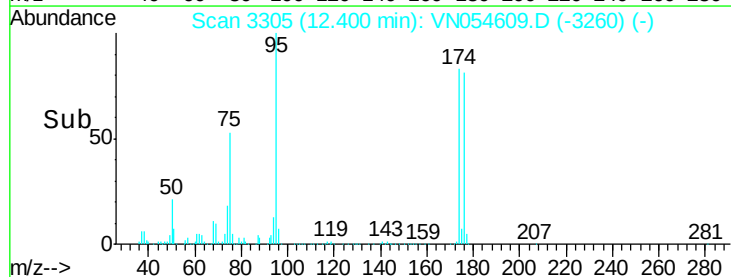
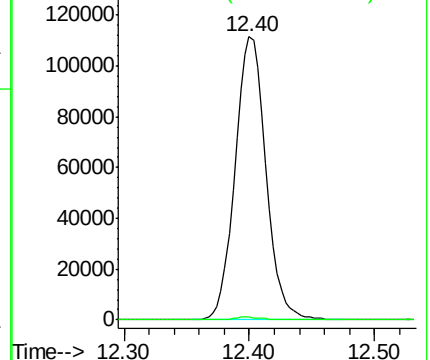
75 100

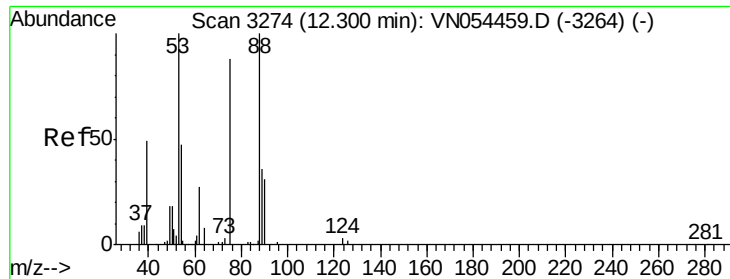
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 149.610 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054609.D

Acq: 23 Mar 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

KY038PS027-190318

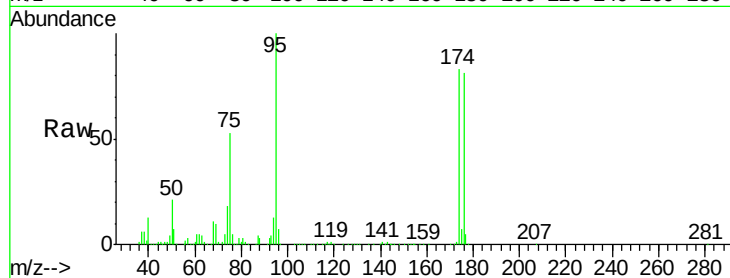
Tot Ion: 75 Resp: 190052

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



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

