

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054597.D
 Acq On : 23 Mar 2019 11:46
 Operator : JC/SP
 Sample : VN0323WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBL01

Quant Time: Mar 25 03:28:32 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	7.66	168	659753	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1032152	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	855960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	299661	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	454908	55.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.86%	
35) Dibromofluoromethane	7.59	113	348220	52.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.74%	
50) Toluene-d8	10.09	98	1341852	53.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.36%	
62) 4-Bromofluorobenzene	12.40	95	406522	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	

Target Compounds

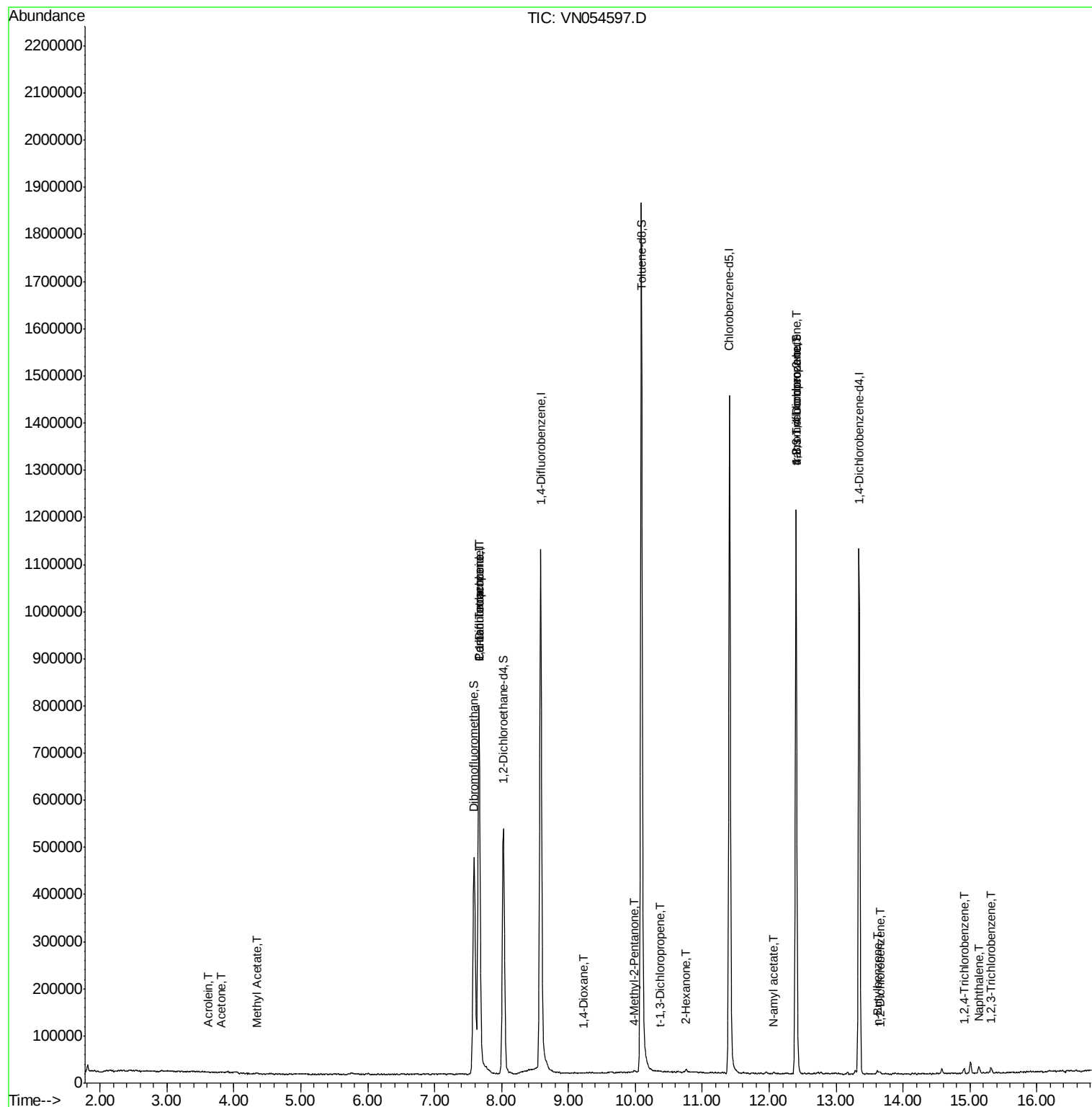
						Qvalue
13) Acrolein	3.61	56	1363	1.988	ug/l #	80
16) Acetone	3.82	43	547	0.222	ug/l #	43
18) Methyl Acetate	4.33	43	3086	0.561	ug/l #	65
31) Cyclohexane	7.66	56	13706	Below Cal	#	2
36) 1,1-Dichloropropene	7.66	75	49674	5.147	ug/l #	47
38) Carbon Tetrachloride	7.66	117	62823	6.699	ug/l #	16
49) 1,4-Dioxane	9.22	88	31	0.441	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	2782	0.433	ug/l	94
53) t-1,3-Dichloropropene	10.38	75	204	2.252	ug/l #	42
59) 2-Hexanone	10.76	43	4274	1.019	ug/l	92
74) N-amyl acetate	12.07	43	2426	0.349	ug/l #	85
76) 1,2,3-Trichloropropane	12.40	75	209777	44.116	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	209777	145.607	ug/l #	11
89) n-Butylbenzene	13.62	91	4219	0.281	ug/l	95
91) 1,2-Dichlorobenzene	13.66	146	2787	0.290	ug/l	86
93) 1,2,4-Trichlorobenzene	14.90	180	3797	0.792	ug/l	97
94) Hexachlorobutadiene	15.01	225	4987	Below Cal		99
95) Naphthalene	15.13	128	11255	1.053	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	4537	0.951	ug/l	94

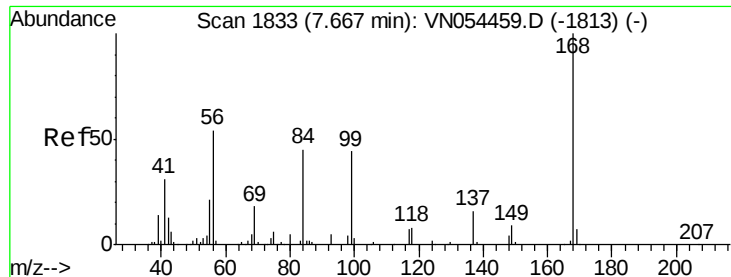
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 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: VN054597.D

Acq: 23 Mar 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

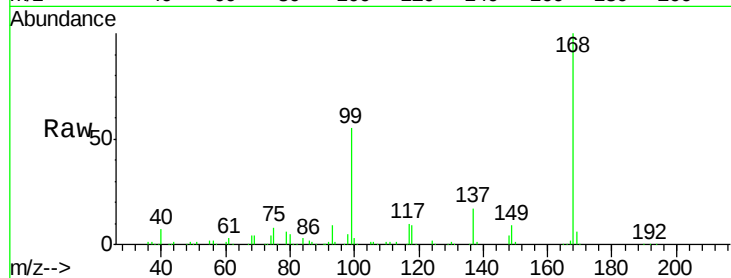
VN0323WBL01

Tot Ion:168 Resp: 659753

Ion Ratio Lower Upper

168 100

99 55.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

250000

200000

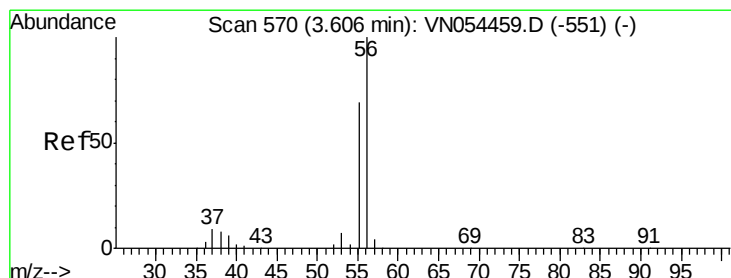
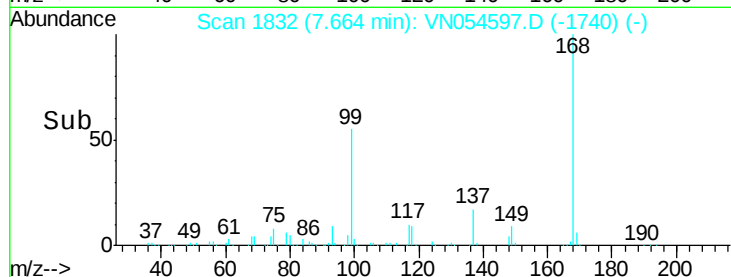
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 1.988 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054597.D

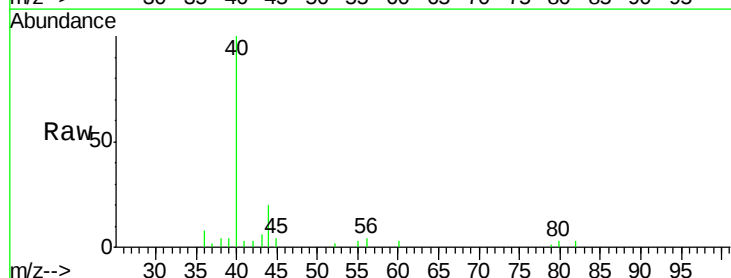
Acq: 23 Mar 2019 11:46

Tgt Ion: 56 Resp: 1363

Ion Ratio Lower Upper

56 100

55 54.4 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.61

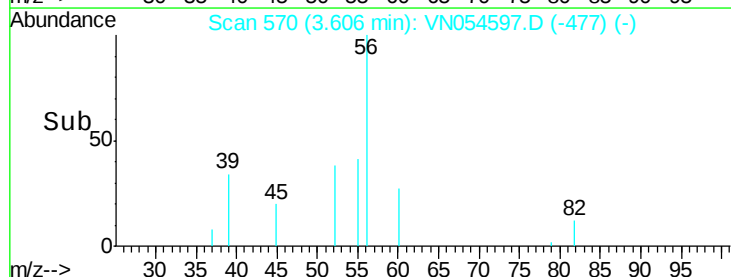
600

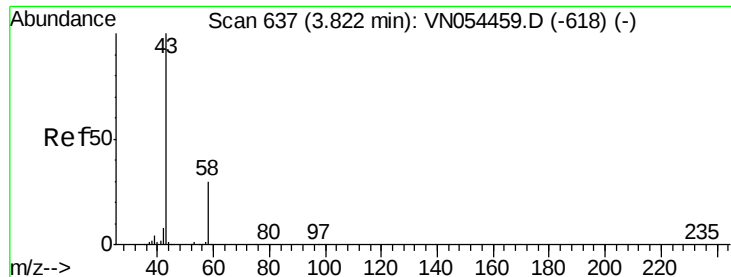
400

200

0

Time-->





#16

Acetone

Concen: 0.222 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.01 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

Instrument :

MSVOA_N

ClientSampled :

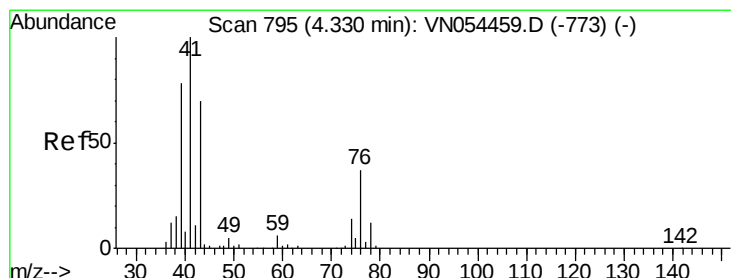
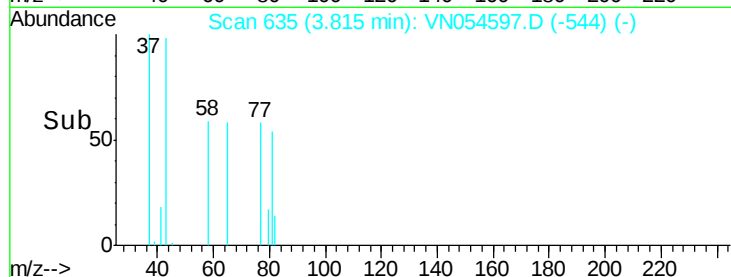
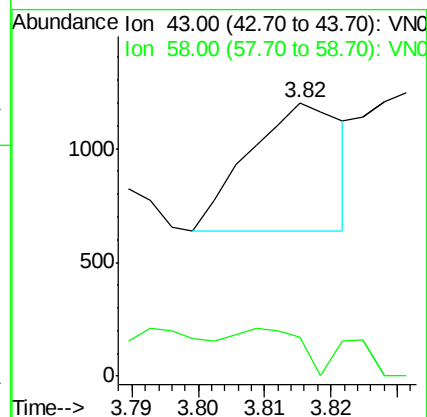
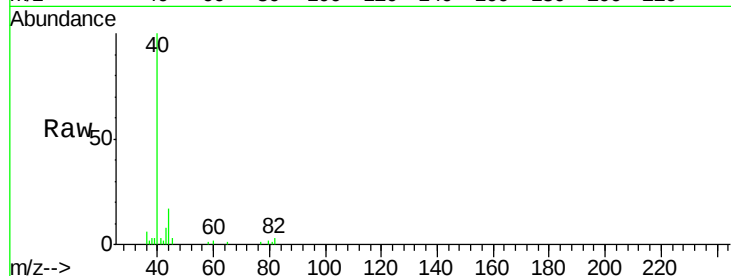
VN0323WBL01

Tot Ion: 43 Resp: 547

Ion Ratio Lower Upper

43 100

58 3.0 29.9 44.9#



#18

Methyl Acetate

Concen: 0.561 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054597.D

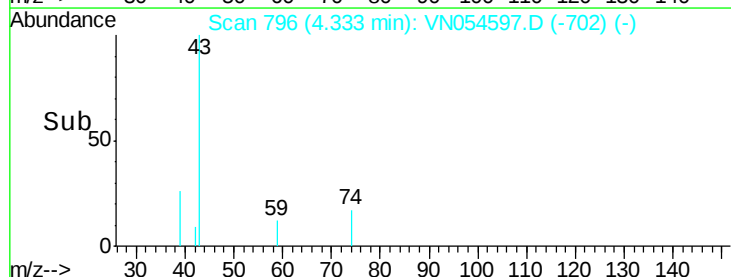
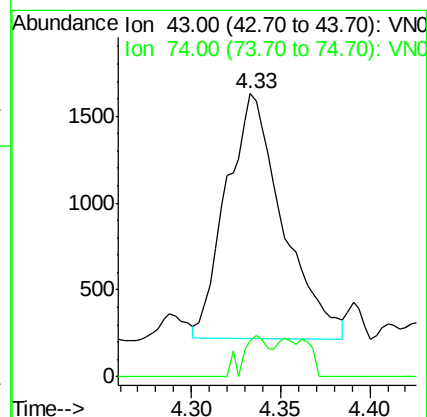
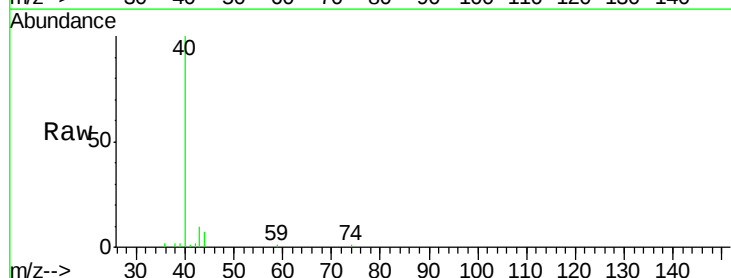
Acq: 23 Mar 2019 11:46

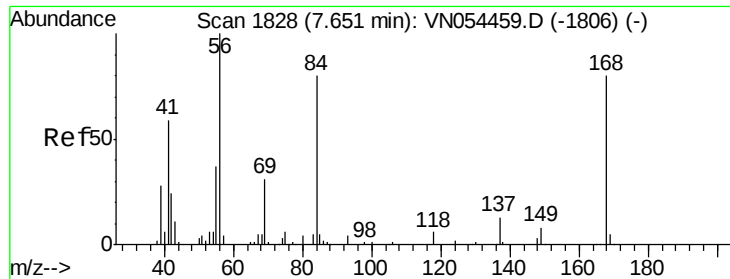
Tgt Ion: 43 Resp: 3086

Ion Ratio Lower Upper

43 100

74 8.1 20.8 31.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

Instrument :

MSVOA_N

ClientSampled :

VN0323WBL01

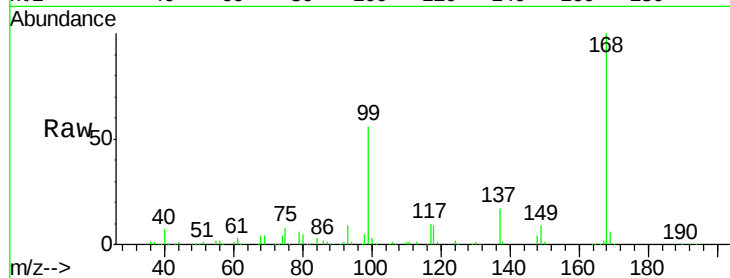
Tot Ion: 56 Resp: 13706

Ion Ratio Lower Upper

56 100

69 175.3 27.8 41.6#

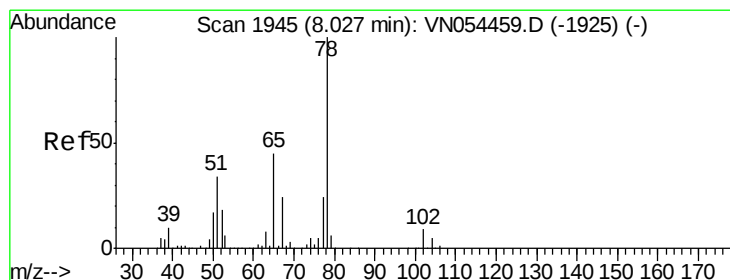
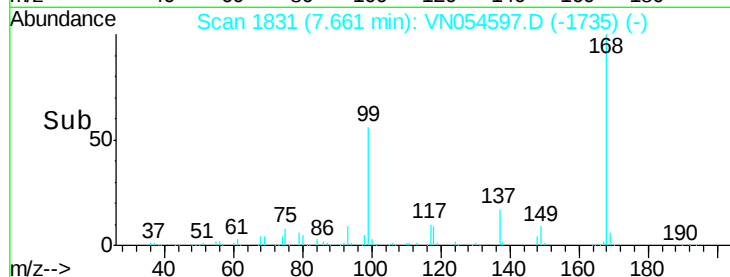
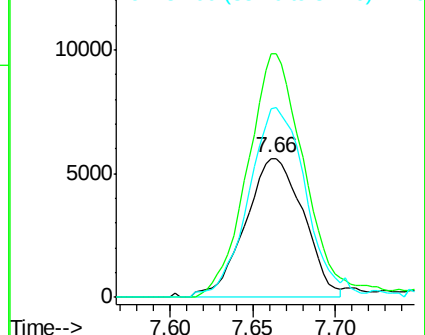
84 135.4 74.6 111.8#



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: 55.434 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054597.D

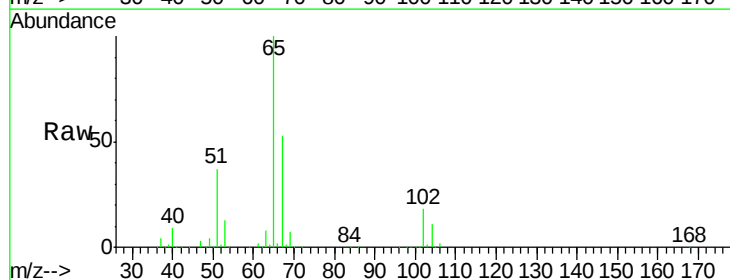
Acq: 23 Mar 2019 11:46

Tgt Ion: 65 Resp: 454908

Ion Ratio Lower Upper

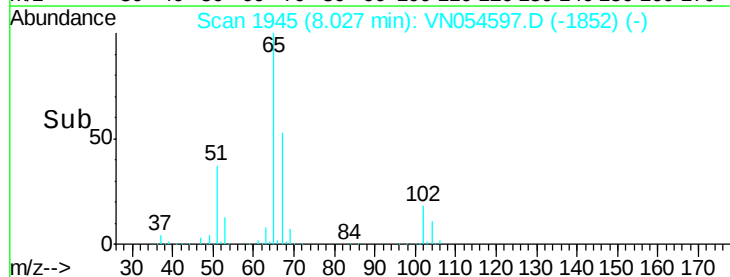
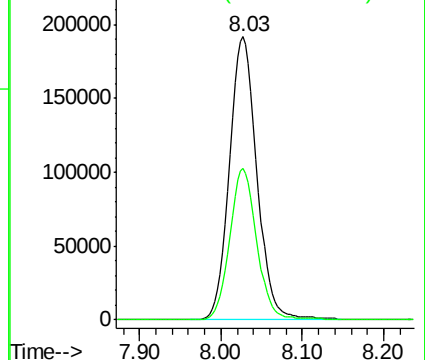
65 100

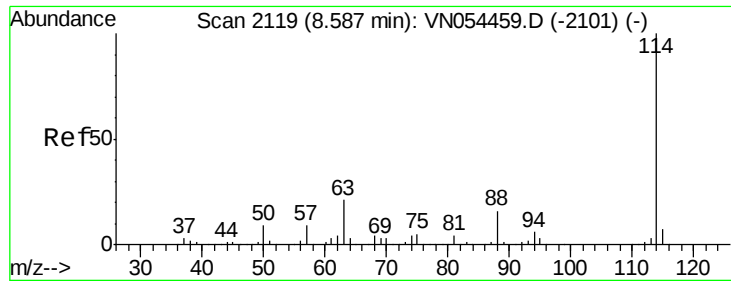
67 52.5 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

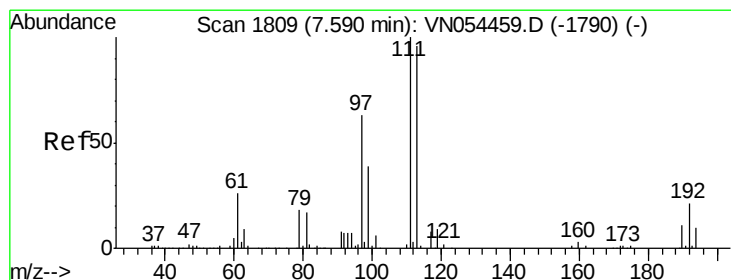
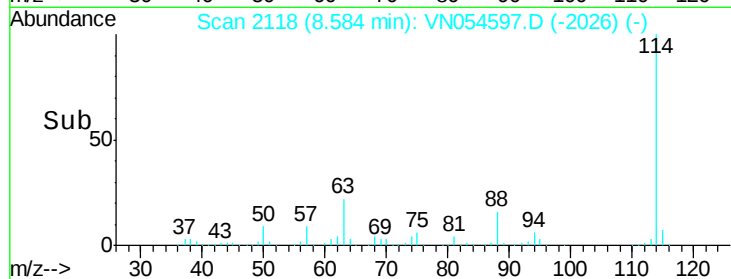
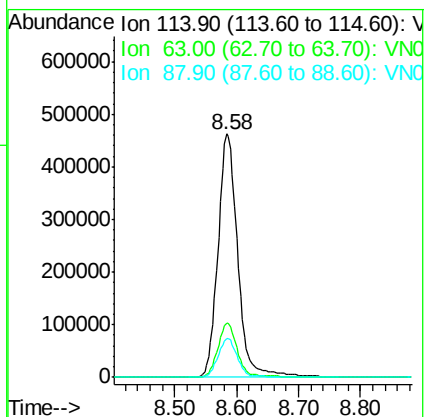
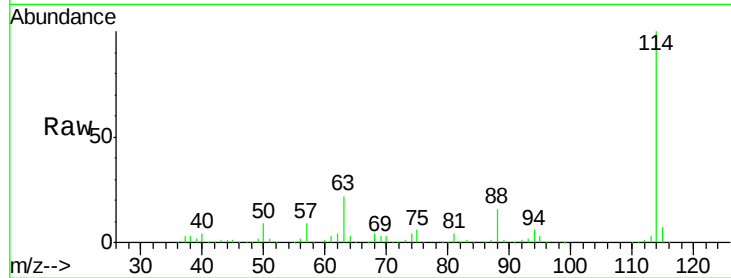




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN054597.D
Acq: 23 Mar 2019 11:46

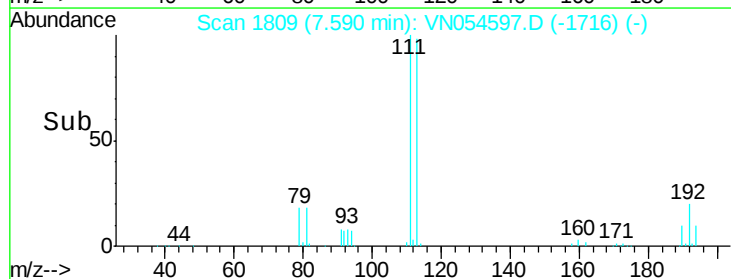
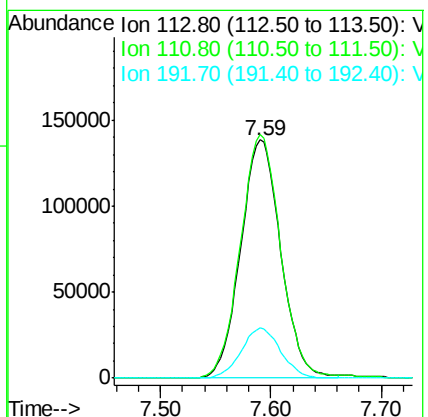
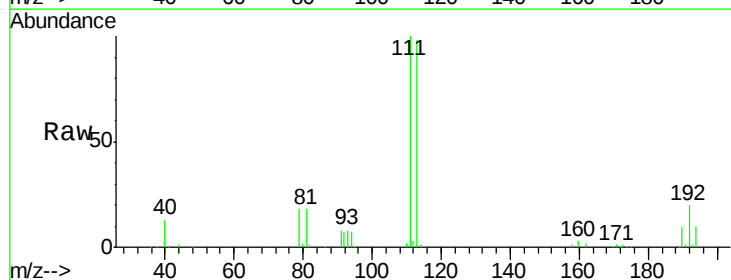
Instrument :
MSVOA_N
ClientSampleId :
VN0323WBL01

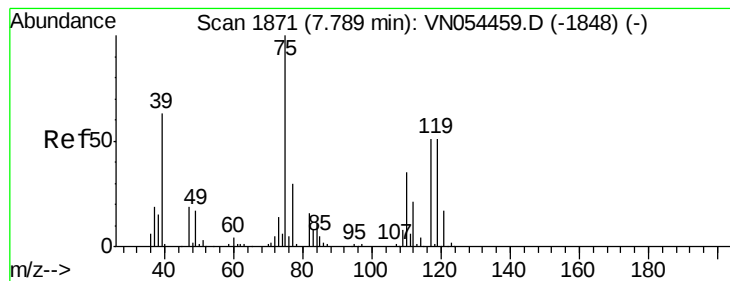
Tot Ion:114 Resp: 1032152
Ion Ratio Lower Upper
114 100
63 22.3 0.0 35.2
88 15.9 0.0 30.2



#35
Dibromofluoromethane
Concen: 52.367 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN054597.D
Acq: 23 Mar 2019 11:46

Tgt Ion:113 Resp: 348220
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.4
192 20.9 19.2 28.8





#36

1,1-Dichloropropene

Concen: 5.147 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

Instrument :

MSVOA_N

ClientSampled :

VN0323WBL01

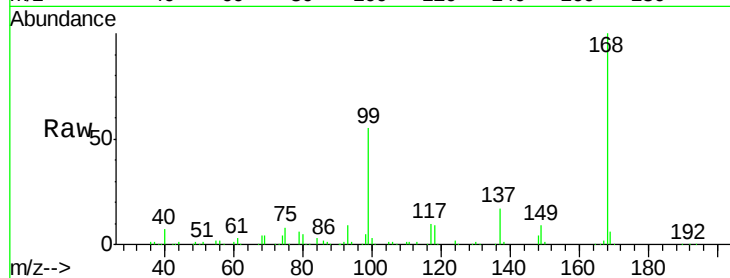
Tot Ion: 75 Resp: 49674

Ion Ratio Lower Upper

75 100

110 8.2 19.1 57.5#

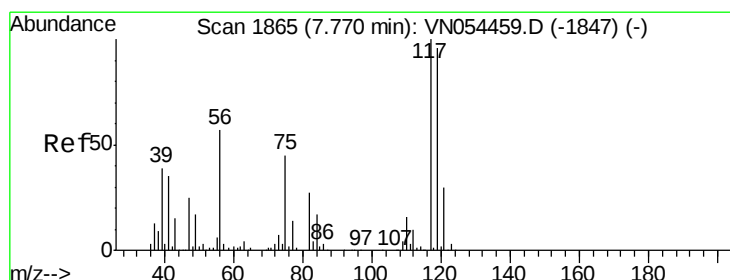
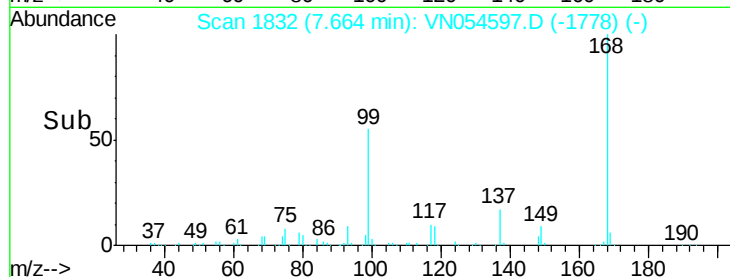
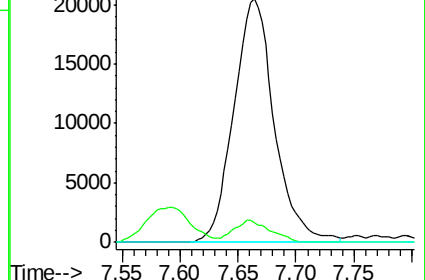
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.699 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

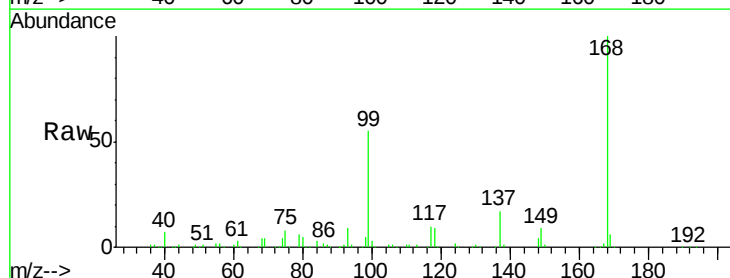
Tgt Ion: 117 Resp: 62823

Ion Ratio Lower Upper

117 100

119 4.9 76.3 114.5#

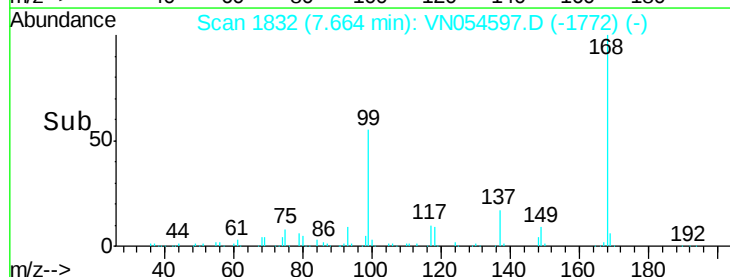
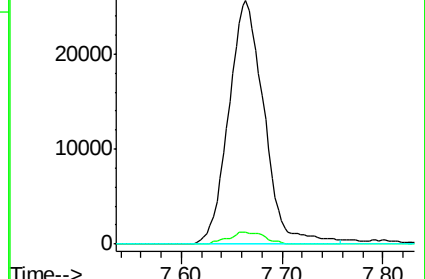
121 0.0 24.6 36.8#

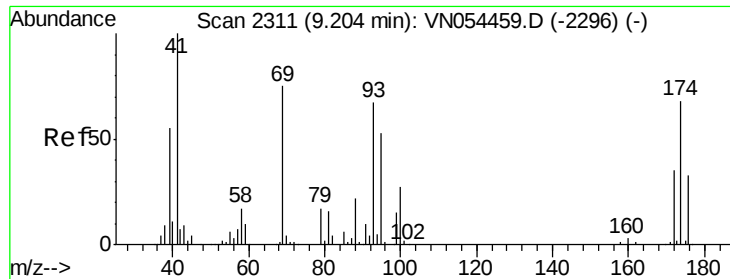


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.441 ug/l

RT: 9.22 min Scan# 2315

Delta R.T. 0.01 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBL01

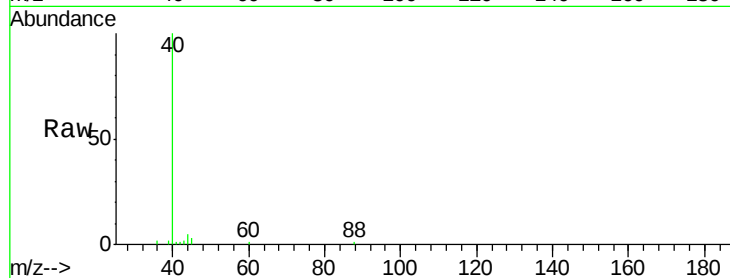
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 783.9 24.1 36.1#

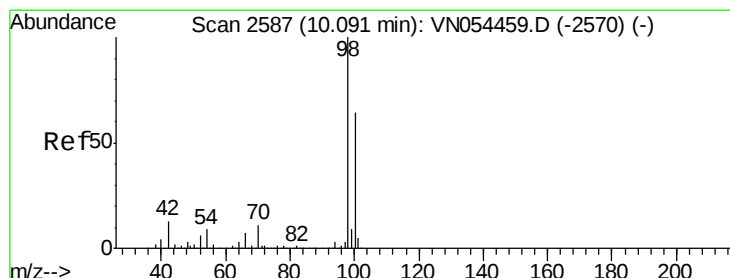
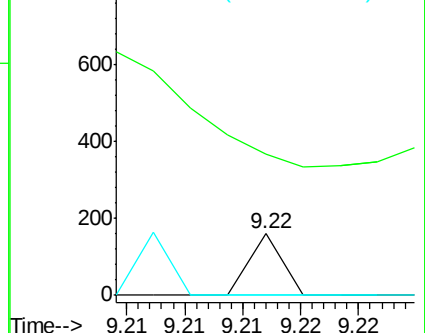
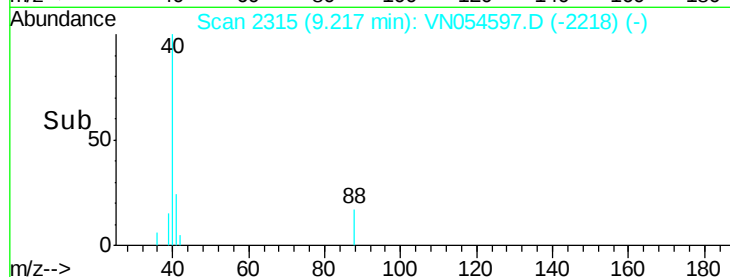
58 100.0 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 53.677 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054597.D

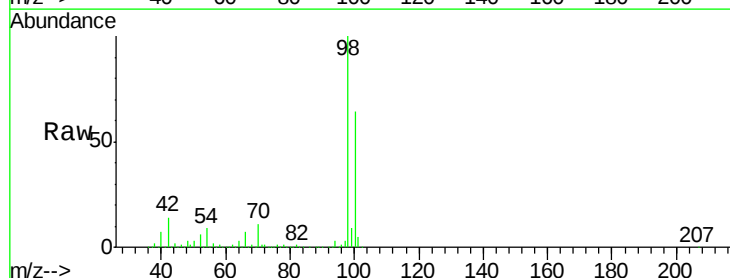
Acq: 23 Mar 2019 11:46

Tgt Ion: 98 Resp: 1341852

Ion Ratio Lower Upper

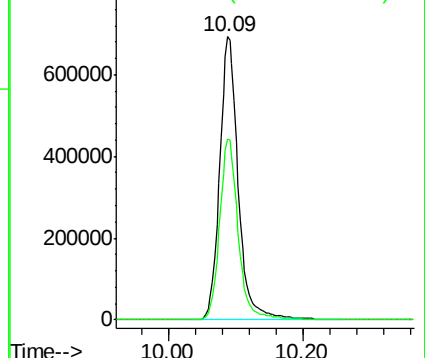
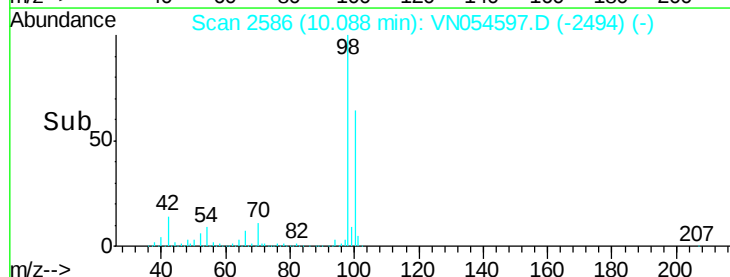
98 100

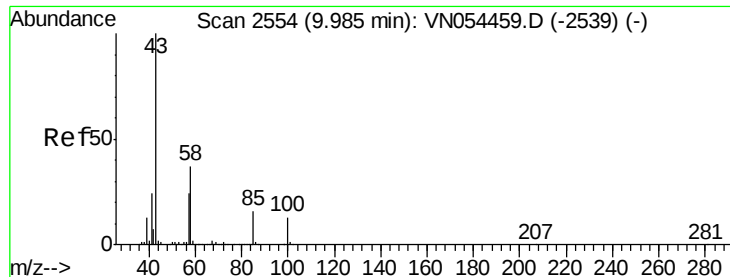
100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

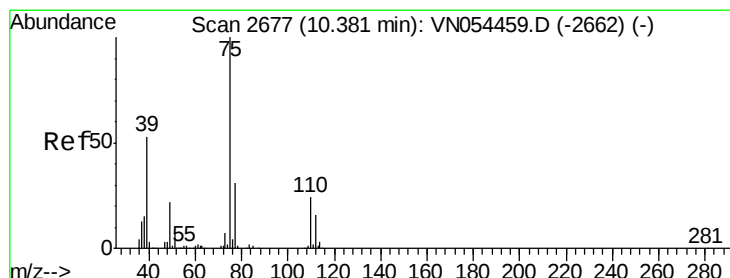
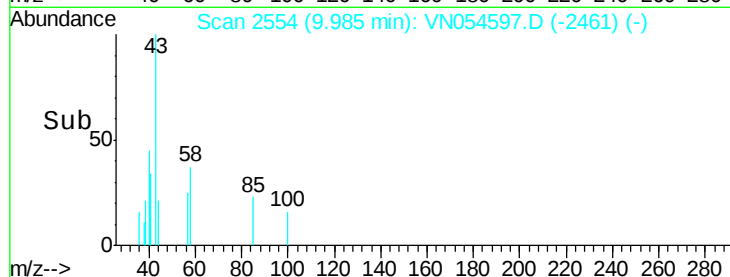
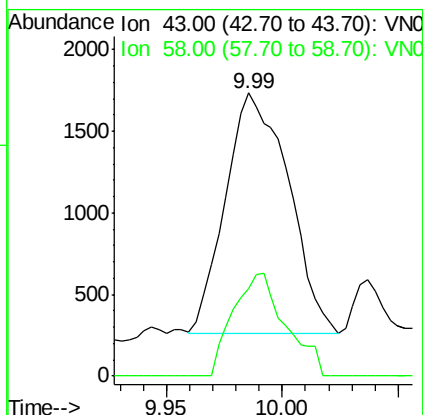
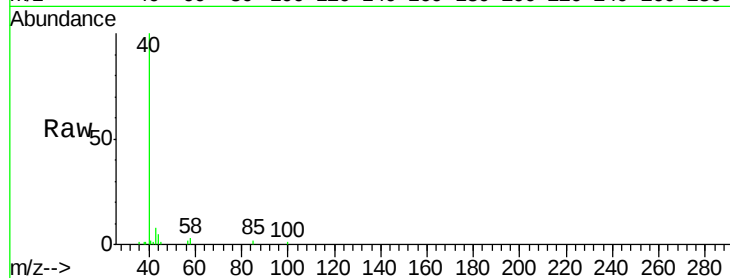




#51
4-Methyl-2-Pentanone
Concen: 0.433 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN054597.D
Acq: 23 Mar 2019 11:46

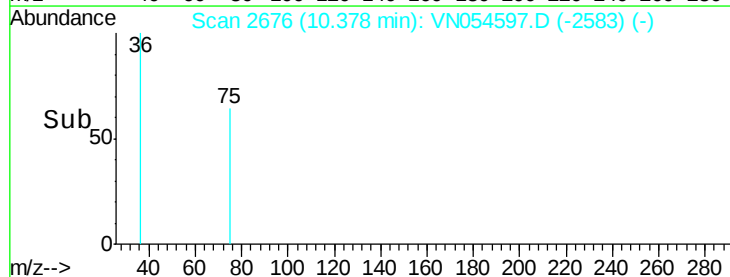
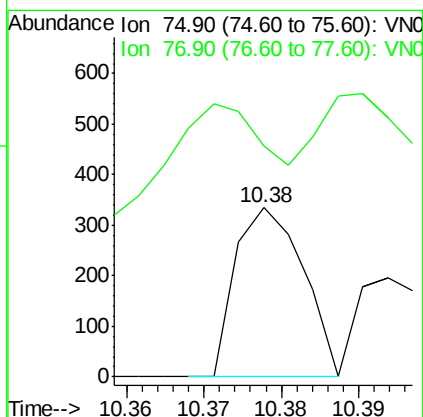
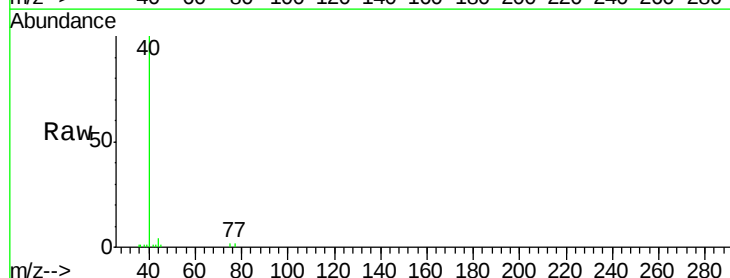
Instrument :
MSVOA_N
ClientSampleId :
VN0323WBL01

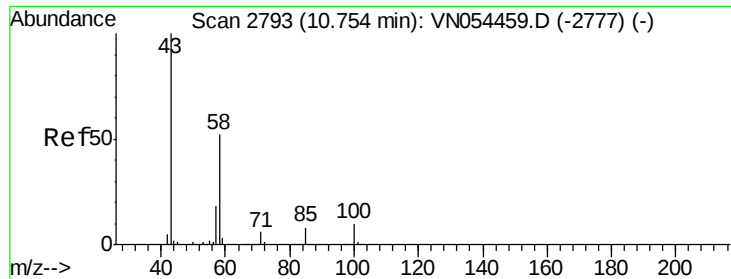
Tot Ion: 43 Resp: 2782
Ion Ratio Lower Upper
43 100
58 35.7 31.8 47.6



#53
t-1,3-Dichloropropene
Concen: 2.252 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN054597.D
Acq: 23 Mar 2019 11:46

Tgt Ion: 75 Resp: 204
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#

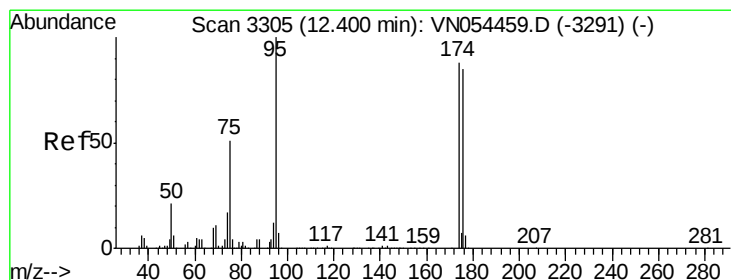
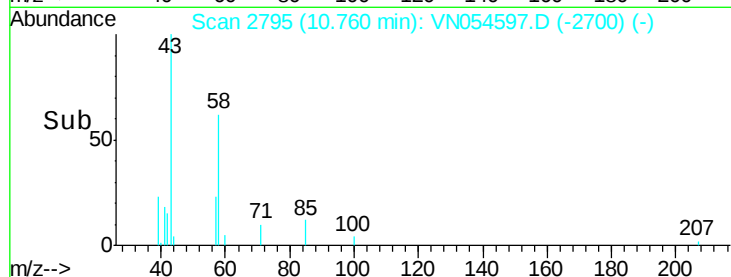
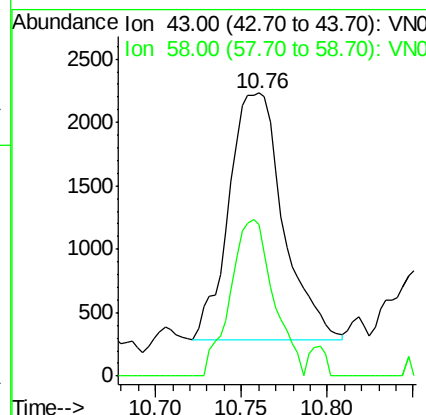
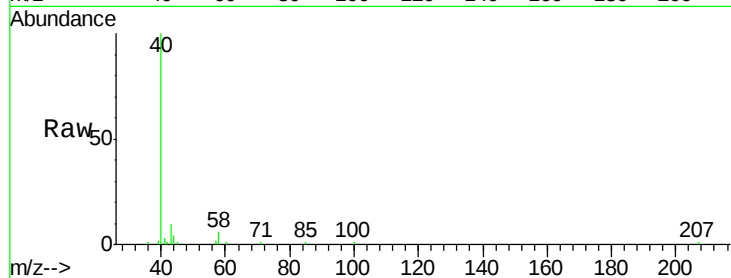




#59
2-Hexanone
Concen: 1.019 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN054597.D
Acq: 23 Mar 2019 11:46

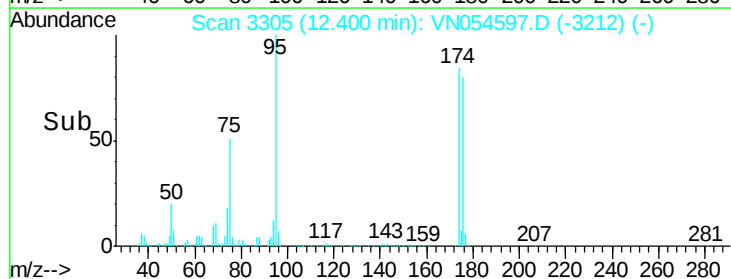
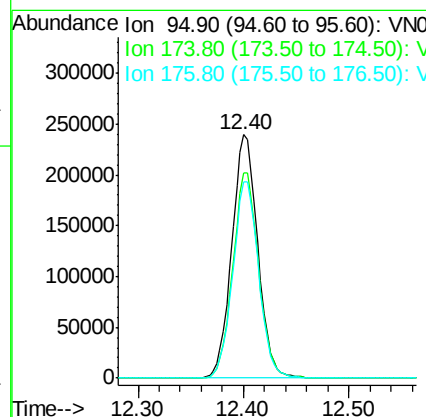
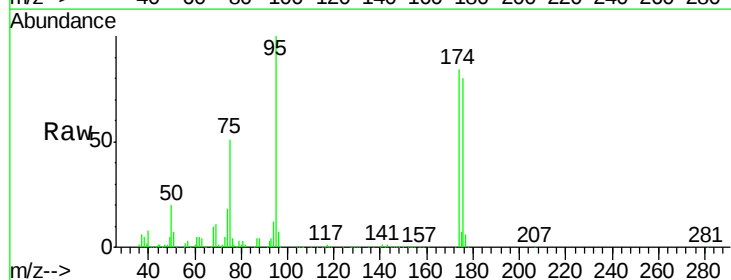
Instrument :
MSVOA_N
ClientSampleId :
VN0323WBL01

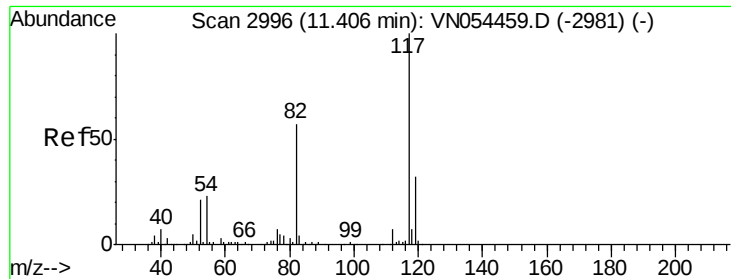
Tot Ion: 43 Resp: 4274
Ion Ratio Lower Upper
43 100
58 50.0 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 47.789 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054597.D
Acq: 23 Mar 2019 11:46

Tgt Ion: 95 Resp: 406522
Ion Ratio Lower Upper
95 100
174 84.2 0.0 191.0
176 80.7 0.0 187.4

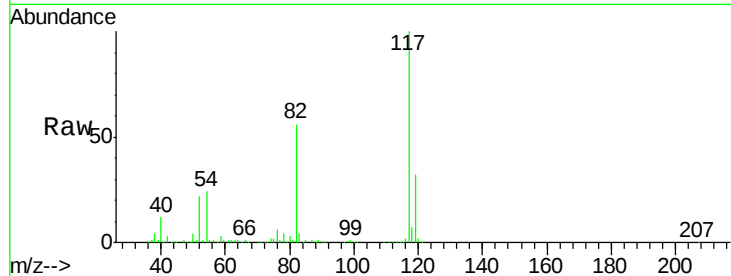




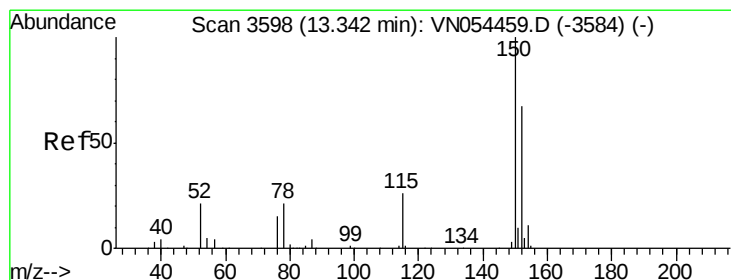
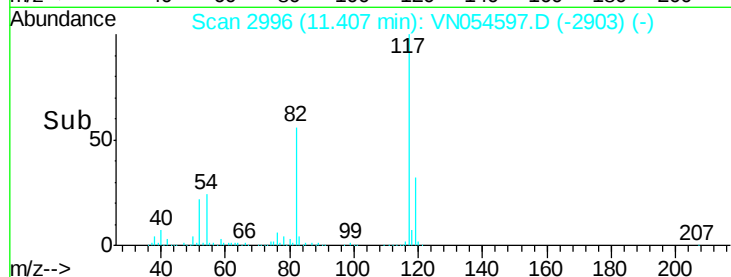
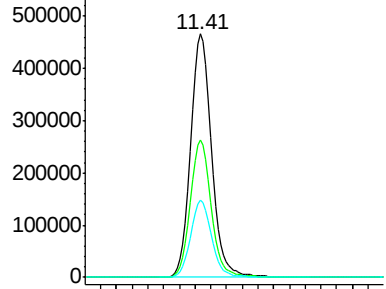
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054597.D
Acq: 23 Mar 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VN0323WBL01

Tot Ion:117 Resp: 855960
Ion Ratio Lower Upper
117 100
82 56.4 40.0 60.0
119 31.6 25.8 38.6

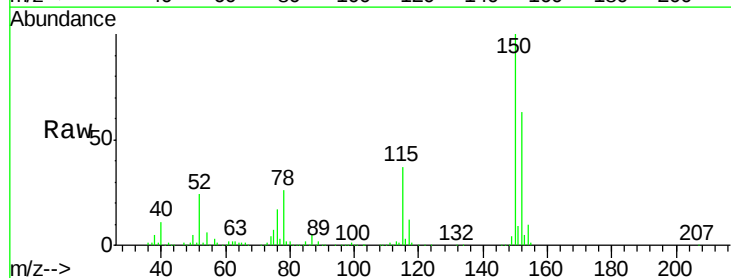


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

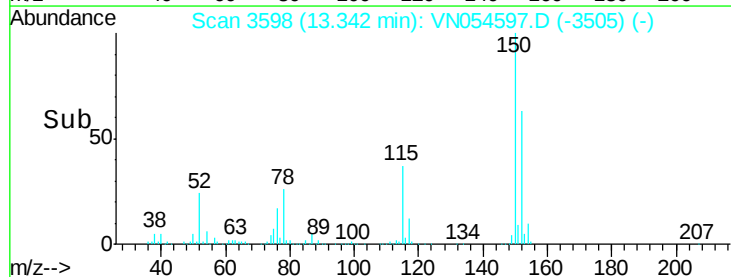
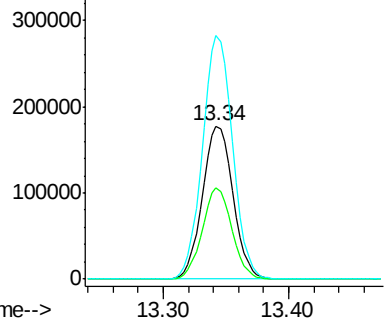


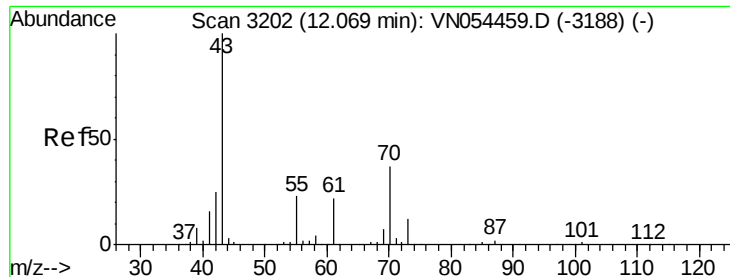
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054597.D
Acq: 23 Mar 2019 11:46

Tgt Ion:152 Resp: 299661
Ion Ratio Lower Upper
152 100
115 58.0 27.2 81.6
150 157.0 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





#74

N-amvl acetate

Concen: 0.349 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBL01

Tot Ion: 43 Resp: 2426

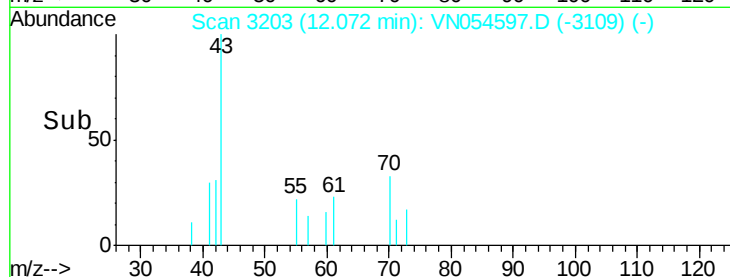
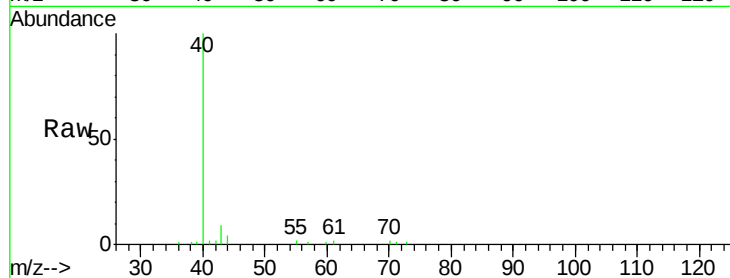
Ion Ratio Lower Upper

43 100

70 31.9 35.4 53.0#

55 20.5 19.8 29.6

61 16.9 19.8 29.6#

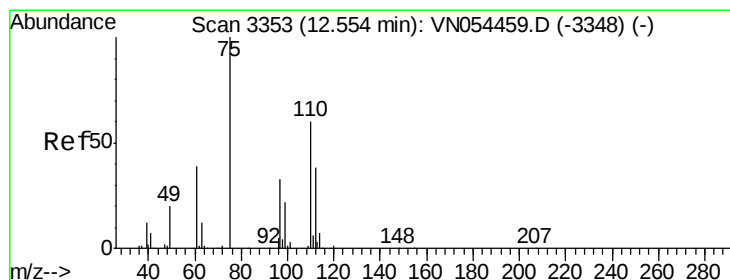
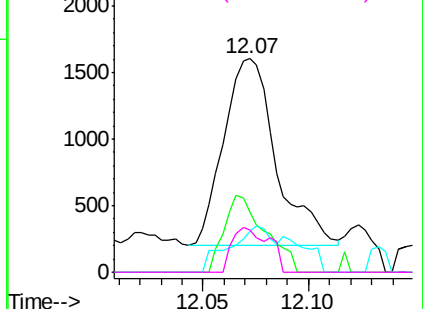


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 44.116 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054597.D

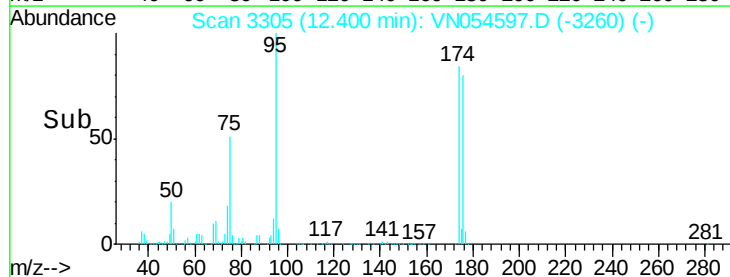
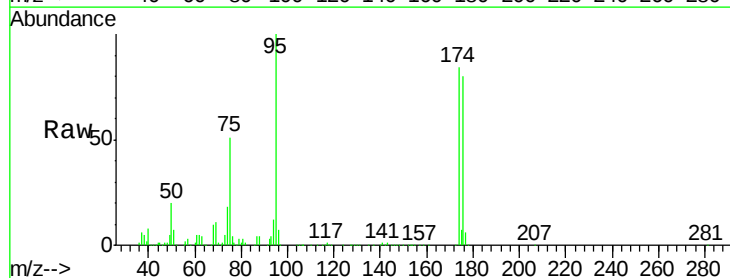
Acq: 23 Mar 2019 11:46

Tgt Ion: 75 Resp: 209777

Ion Ratio Lower Upper

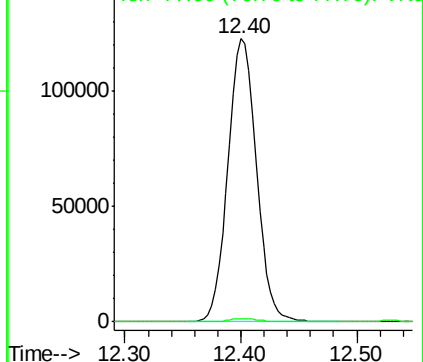
75 100

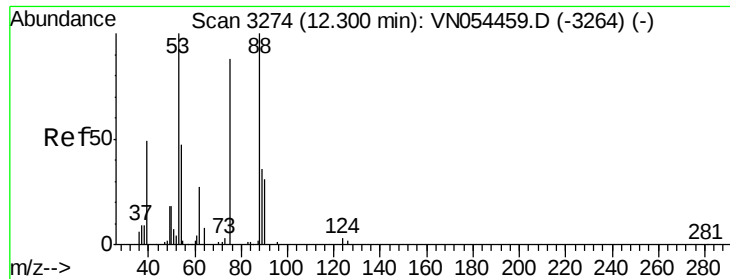
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 145.607 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VN0323WBL01

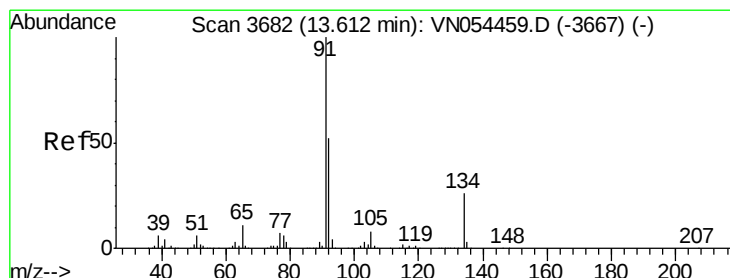
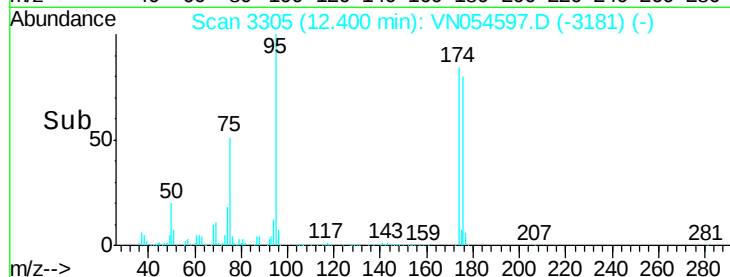
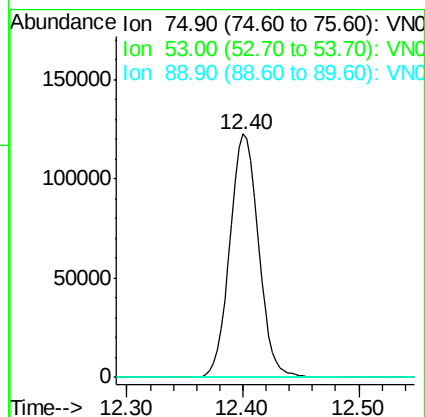
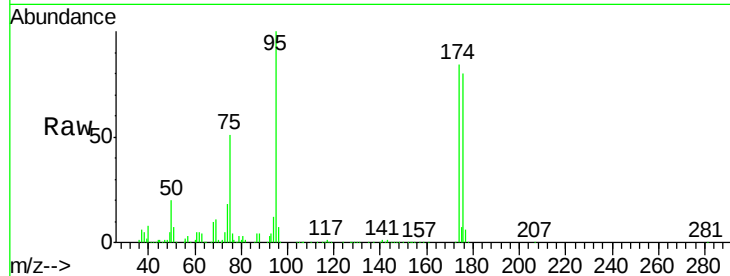
Tot Ion: 75 Resp: 209777

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



#89

n-Butylbenzene

Concen: 0.281 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

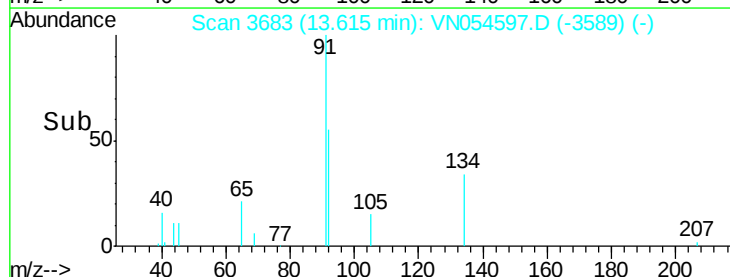
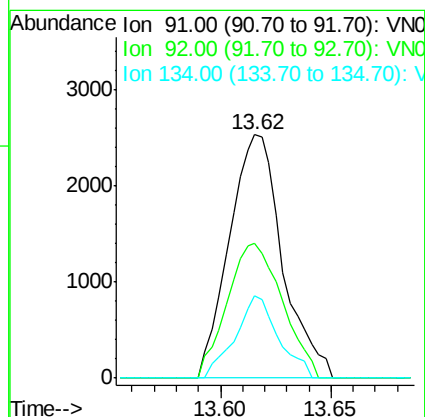
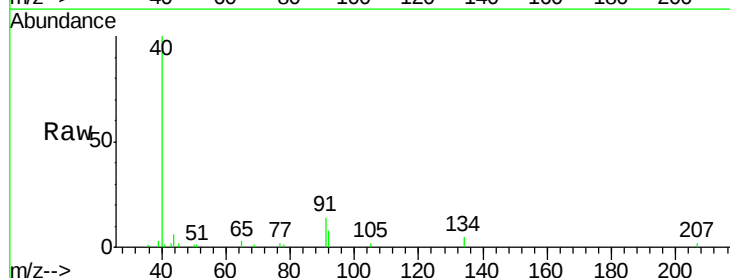
Tgt Ion: 91 Resp: 4219

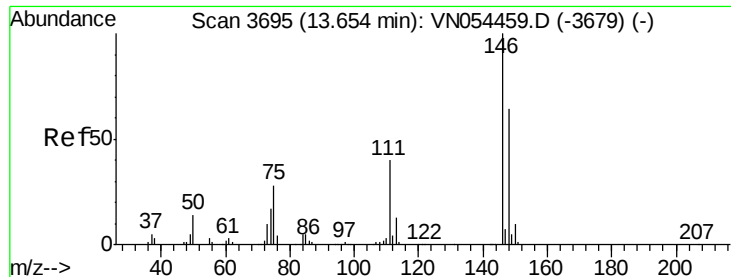
Ion Ratio Lower Upper

91 100

92 57.3 26.2 78.6

134 27.4 14.3 42.9

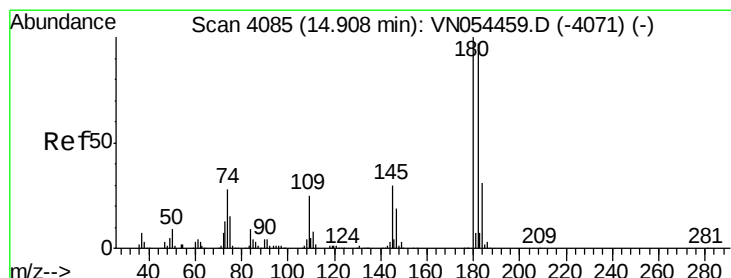
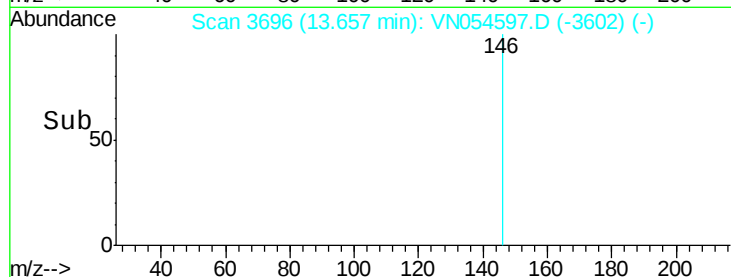
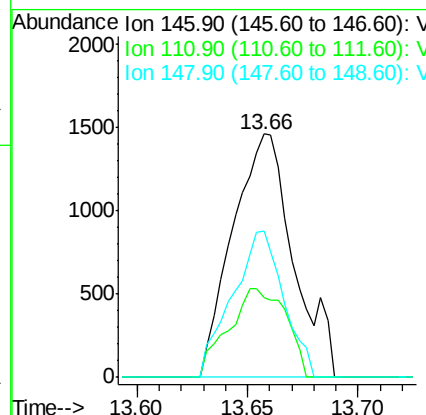
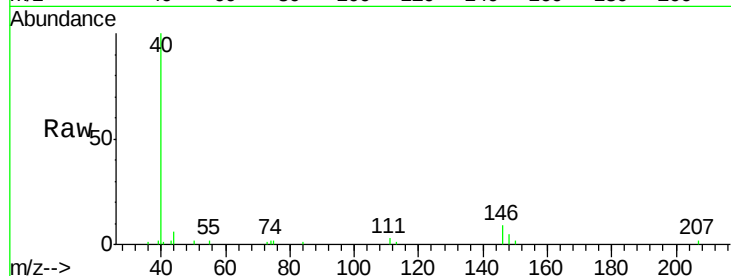




#91
 1,2-Dichlorobenzene
 Concen: 0.290 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN054597.D
 Acq: 23 Mar 2019 11:46

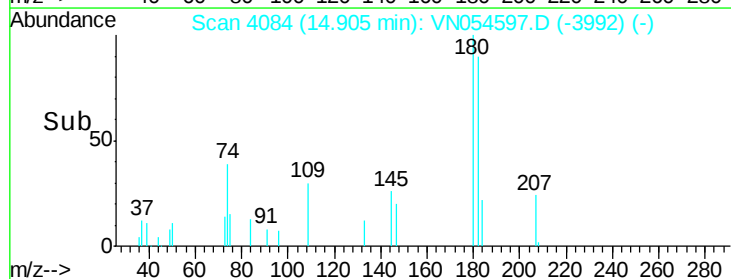
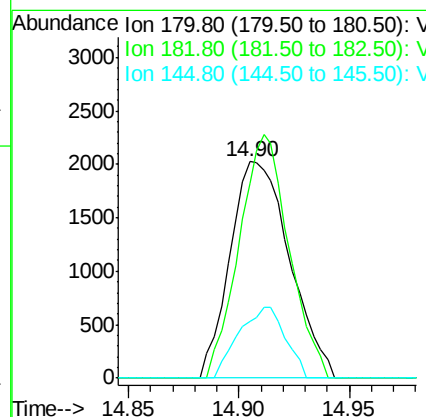
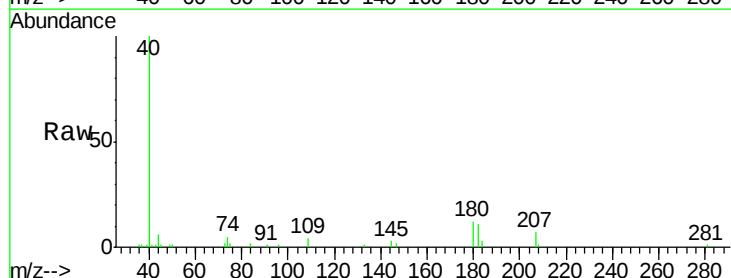
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBL01

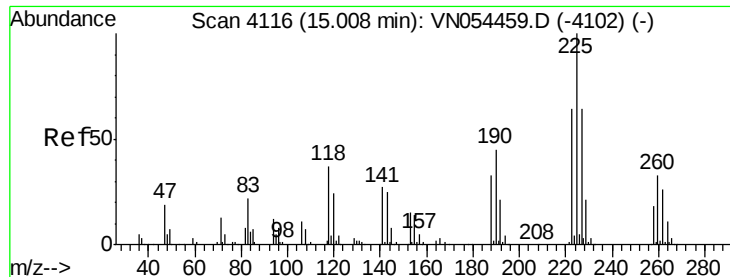
Tot Ion	Ratio	Lower	Upper
146	100		
111	34.4	19.1	57.3
148	50.7	32.4	97.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.792 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN054597.D
 Acq: 23 Mar 2019 11:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.2
145	25.6	14.2	42.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

Instrument :

MSVOA_N

ClientSampled :

VN0323WBL01

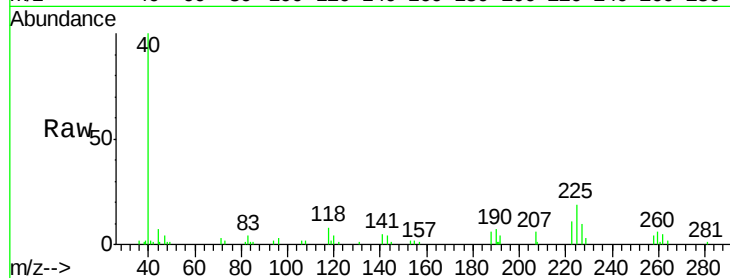
Tot Ion:225 Resp: 4987

Ion Ratio Lower Upper

225 100

223 62.6 31.1 93.5

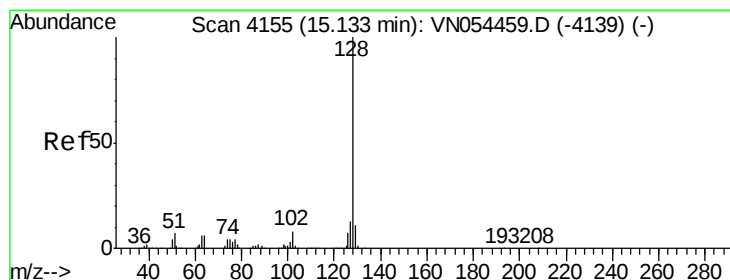
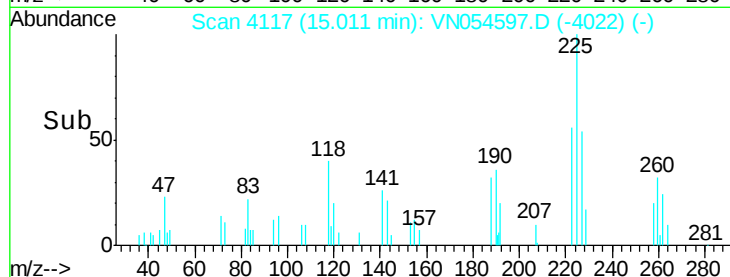
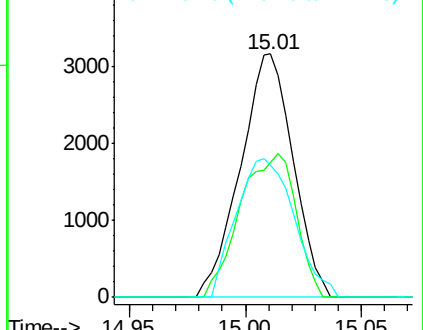
227 62.7 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.053 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054597.D

Acq: 23 Mar 2019 11:46

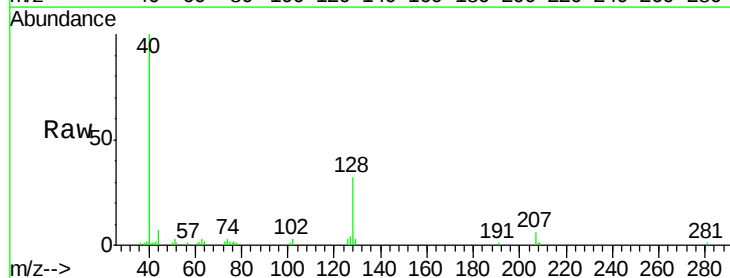
Tgt Ion:128 Resp: 11255

Ion Ratio Lower Upper

128 100

127 13.2 10.1 15.1

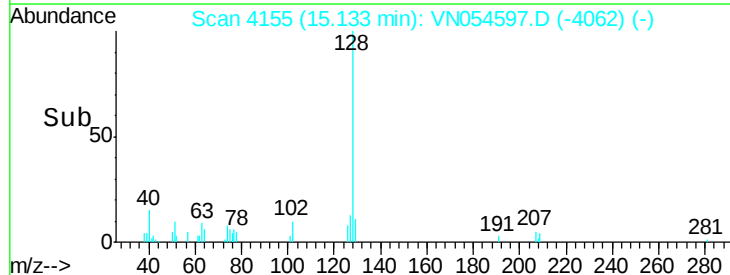
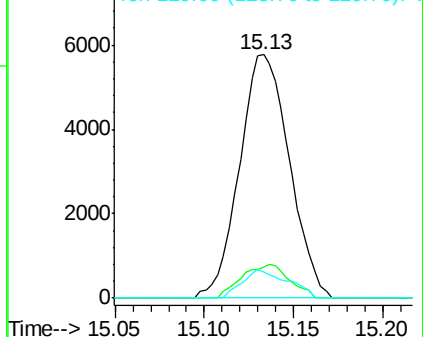
129 10.6 8.7 13.1

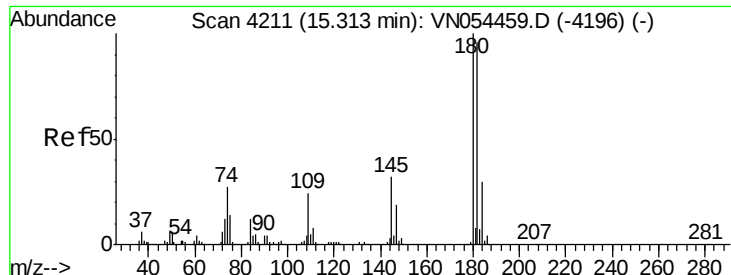


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

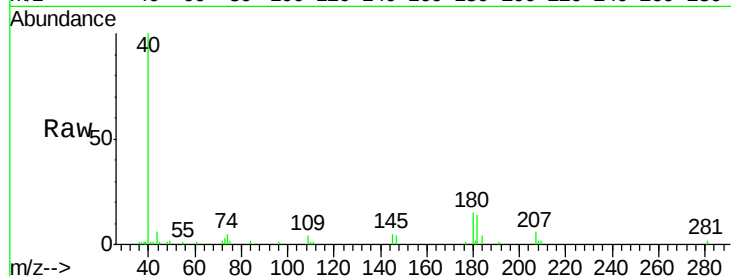




#96
 1,2,3-Trichlorobenzene
 Concen: 0.951 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN054597.D
 Acq: 23 Mar 2019 11:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.3	47.5	142.6
145	31.7	14.8	44.3



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

