

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032219\
 Data File : VN054587.D
 Acq On : 23 Mar 2019 5:33
 Operator : JC/SP
 Sample : K2045-13
 Misc : 5.92g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 01:50:29 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	549191	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	847115	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	712256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	282514	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	337836	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
35) Dibromofluoromethane	7.59	113	249074	45.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.28%	
50) Toluene-d8	10.09	98	1011252	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.40	95	321365	46.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.06%	

Target Compounds

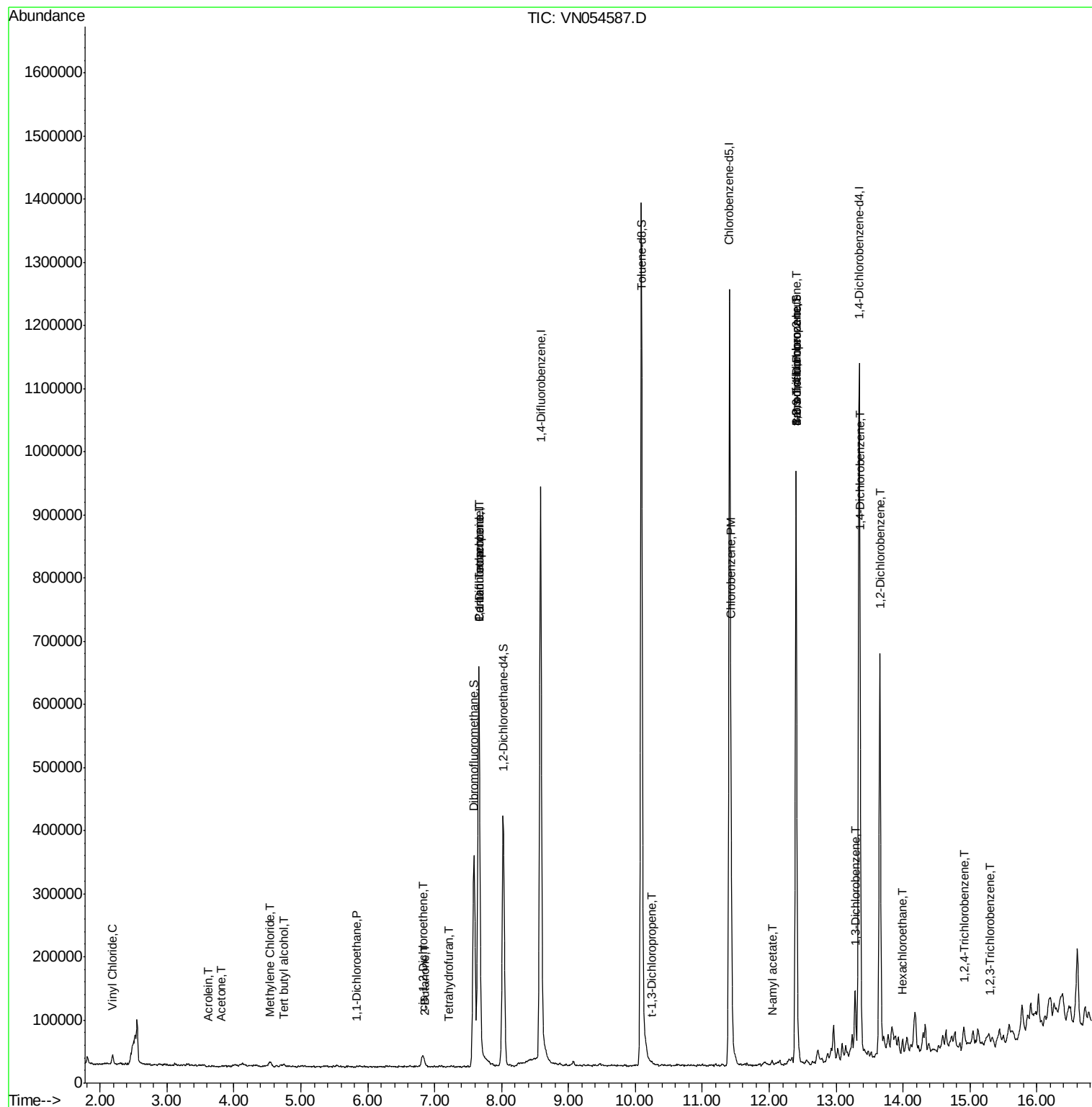
						Qvalue
4) Vinyl Chloride	2.19	62	11944	1.665	ug/l	96
11) Tert butyl alcohol	4.74	59	3524	8.521	ug/l #	70
13) Acrolein	3.63	56	125	0.219	ug/l	95
16) Acetone	3.82	43	753	0.367	ug/l #	83
20) Methylene Chloride	4.54	84	4124	0.681	ug/l #	80
24) 1,1-Dichloroethane	5.85	63	2153	0.203	ug/l #	83
25) 2-Butanone	6.86	43	828	0.315	ug/l #	46
27) cis-1,2-Dichloroethene	6.82	96	12399	1.922	ug/l	99
29) Tetrahydrofuran	7.21	42	369	0.216	ug/l #	30
31) Cyclohexane	7.66	56	12447	Below Cal	#	21
36) 1,1-Dichloropropene	7.66	75	39324	4.965	ug/l #	47
38) Carbon Tetrachloride	7.66	117	52002	6.756	ug/l #	15
53) t-1,3-Dichloropropene	10.24	75	247	2.262	ug/l #	42
65) Chlorobenzene	11.43	112	112230	7.747	ug/l	99
71) Bromoform	12.40	173	1784	2.696	ug/l #	1
74) N-amyl acetate	12.04	43	1705	0.260	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	163789	36.535	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	163789	121.131	ug/l #	11
87) 1,3-Dichlorobenzene	13.28	146	30955	3.308	ug/l	94
88) 1,4-Dichlorobenzene	13.36	146	86570	9.509	ug/l	94
90) Hexachloroethane	13.99	117	1952	0.694	ug/l #	2
91) 1,2-Dichlorobenzene	13.65	146	248787	27.452	ug/l	96
93) 1,2,4-Trichlorobenzene	14.91	180	6109	1.352	ug/l #	75
96) 1,2,3-Trichlorobenzene	15.31	180	1053	0.234	ug/l #	42

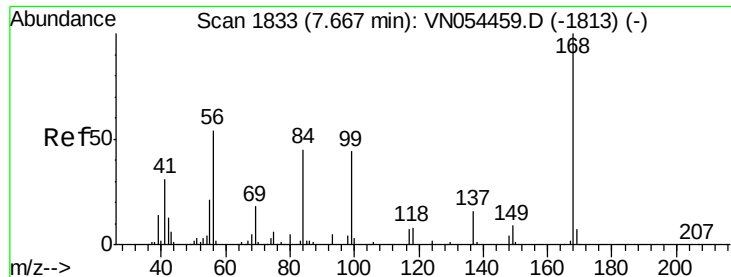
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1831

Delta R.T. -0.01 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :

MSVOA_N

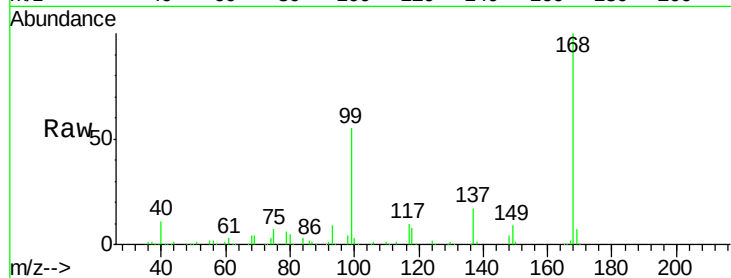
ClientSampleId :

Tot Ion:168 Resp: 549191

Ion Ratio Lower Upper

168 100

99 55.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

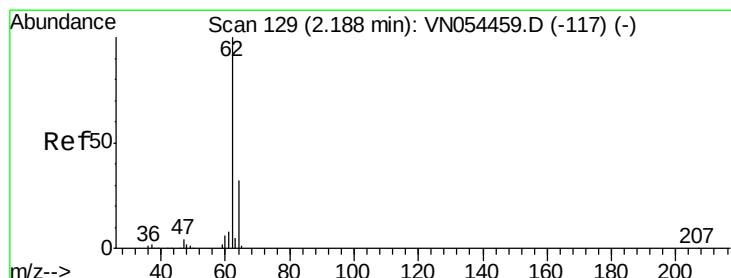
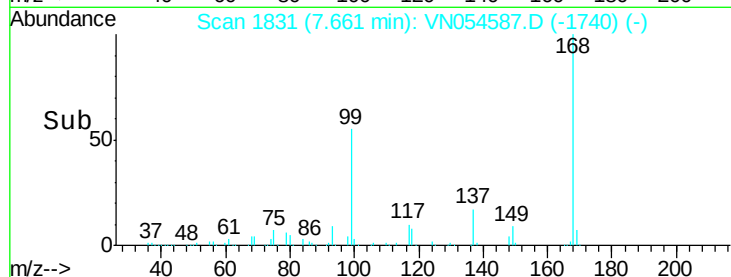
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#4

Vinyl Chloride

Concen: 1.665 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054587.D

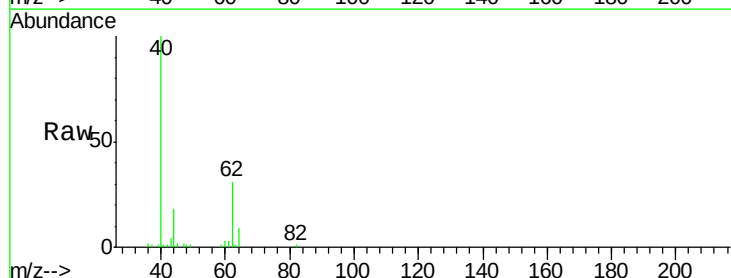
Acq: 23 Mar 2019 5:33

Tgt Ion: 62 Resp: 11944

Ion Ratio Lower Upper

62 100

64 29.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

8000

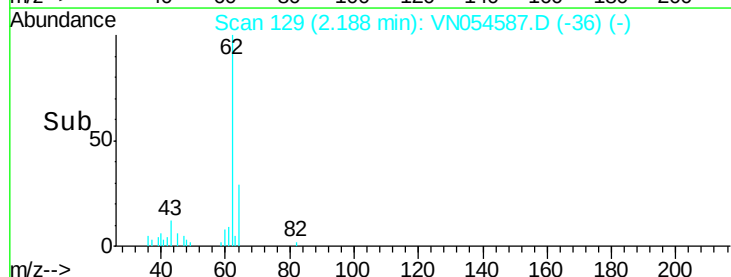
6000

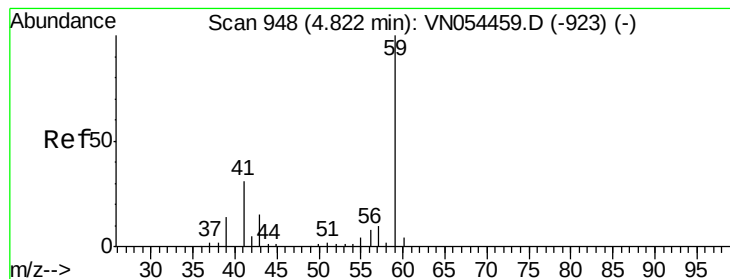
4000

2000

0

Time--> 2.15 2.20 2.25





#11

Tert butyl alcohol

Concen: 8.521 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.08 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :

MSVOA_N

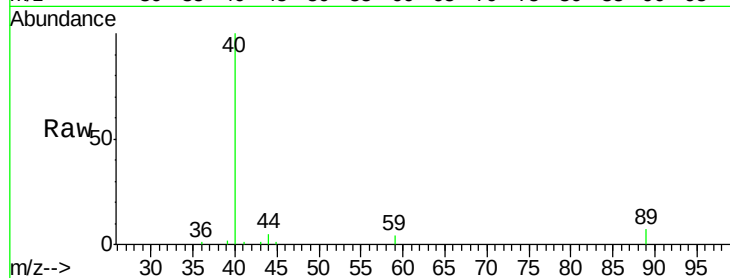
ClientSampled :

Tot Ion: 59 Resp: 3524

Ion Ratio Lower Upper

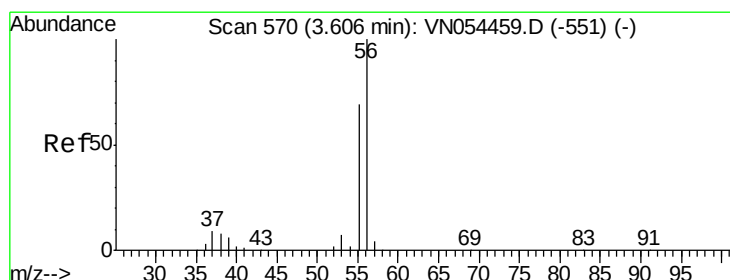
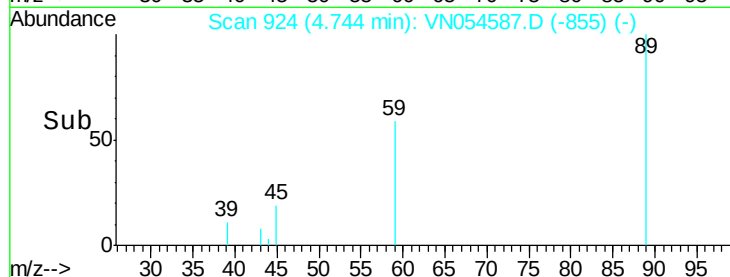
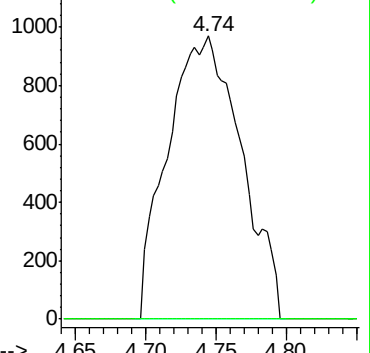
59 100

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: 0.219 ug/l

RT: 3.63 min Scan# 576

Delta R.T. 0.02 min

Lab File: VN054587.D

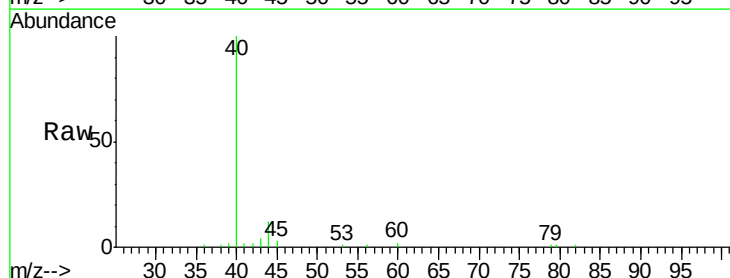
Acq: 23 Mar 2019 5:33

Tgt Ion: 56 Resp: 125

Ion Ratio Lower Upper

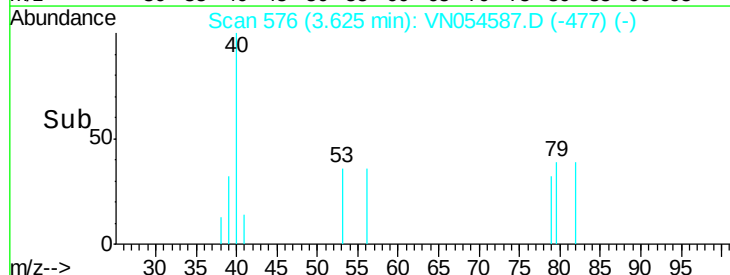
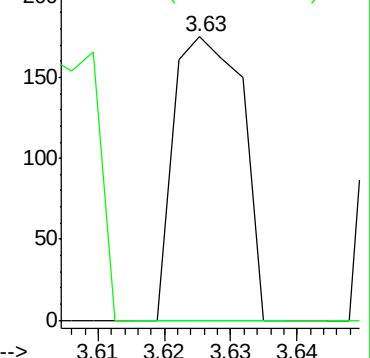
56 100

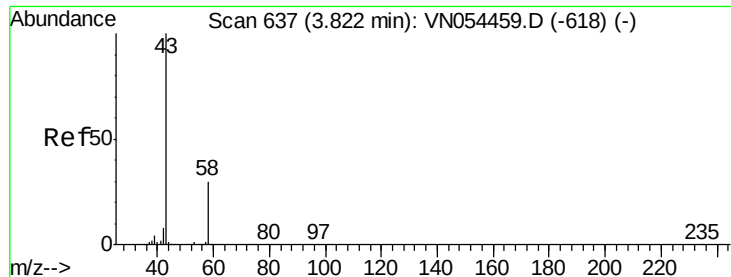
55 75.2 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 0.367 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.01 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

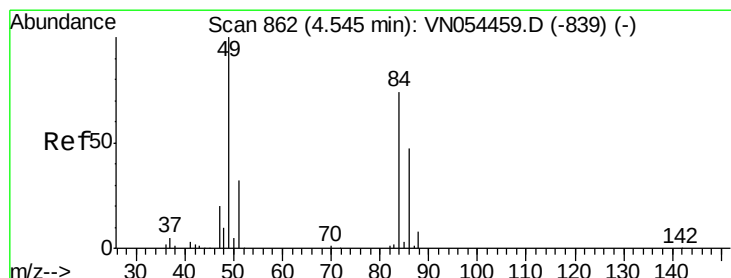
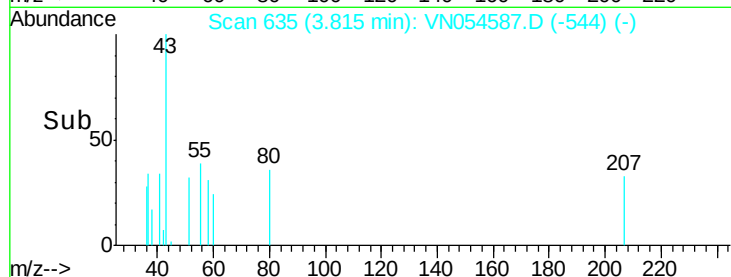
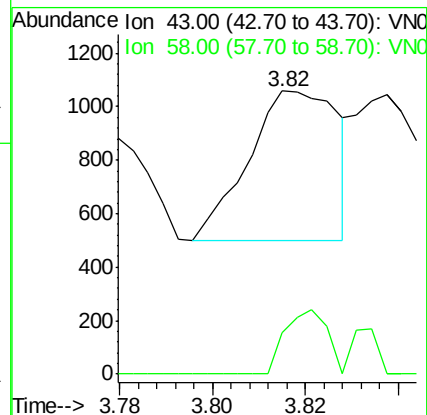
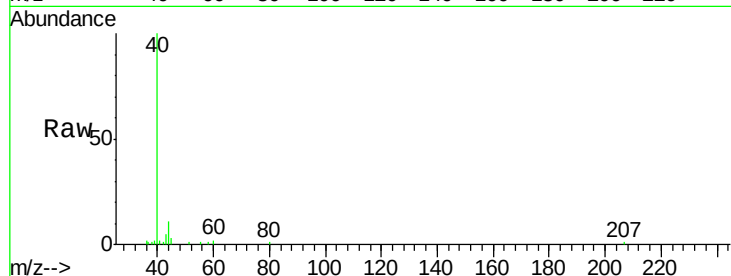
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 753

Ion Ratio Lower Upper

43 100

58 27.3 29.9 44.9#



#20

Methylene Chloride

Concen: 0.681 ug/l

RT: 4.54 min Scan# 859

Delta R.T. -0.01 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Tgt Ion: 84 Resp: 4124

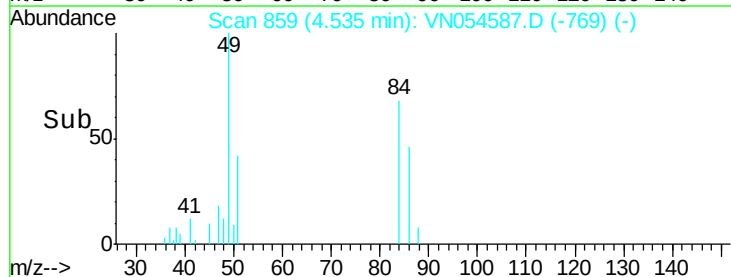
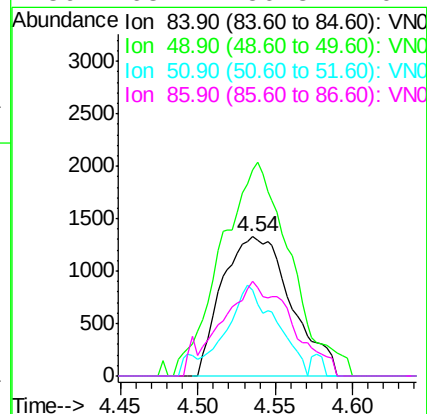
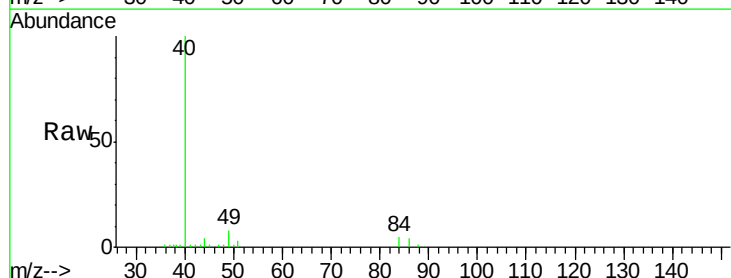
Ion Ratio Lower Upper

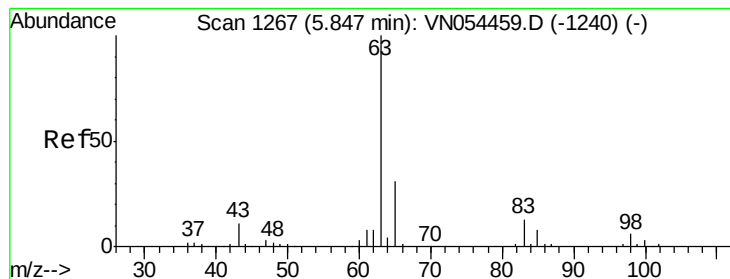
84 100

49 132.7 89.7 134.5

51 61.4 28.2 42.4#

86 68.2 50.8 76.2





#24

1,1-Dichloroethane

Concen: 0.203 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :

MSVOA_N

ClientSampleId :

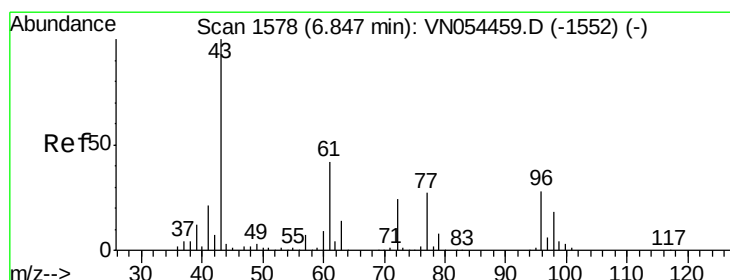
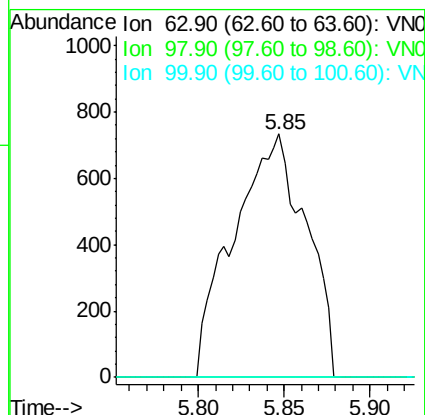
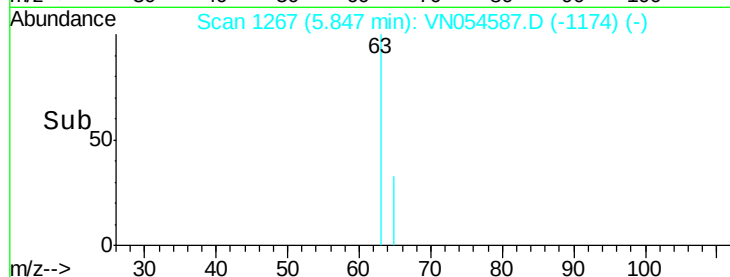
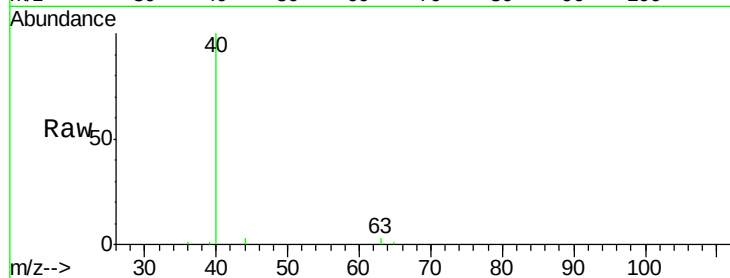
Tot Ion: 63 Resp: 2153

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.5#

100 0.0 2.0 6.0#



#25

2-Butanone

Concen: 0.315 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.01 min

Lab File: VN054587.D

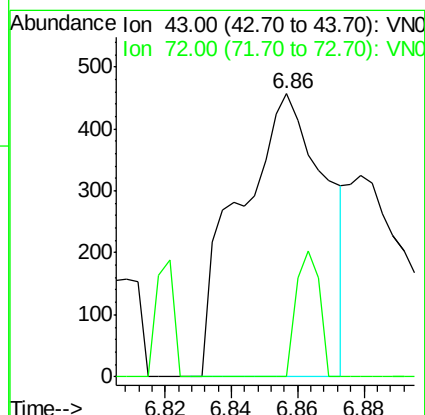
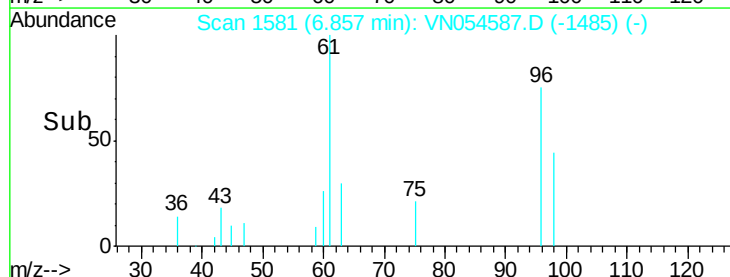
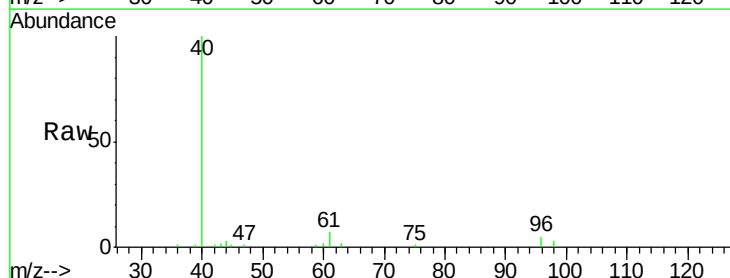
Acq: 23 Mar 2019 5:33

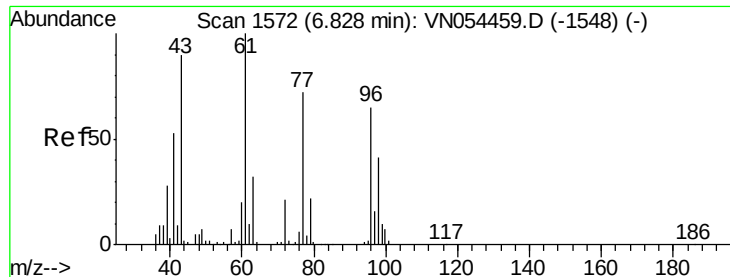
Tgt Ion: 43 Resp: 828

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#





#27

cis-1,2-Dichloroethene

Concen: 1.922 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :
MSVOA_N
ClientSampled :

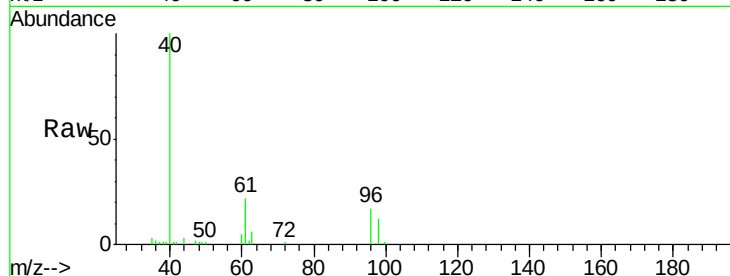
Tot Ion: 96 Resp: 12399

Ion Ratio Lower Upper

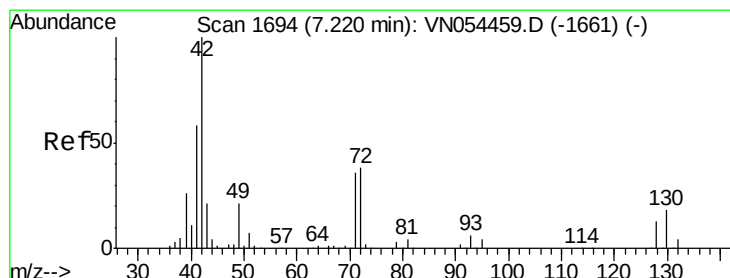
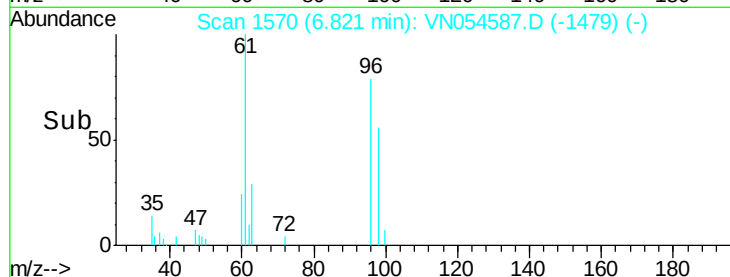
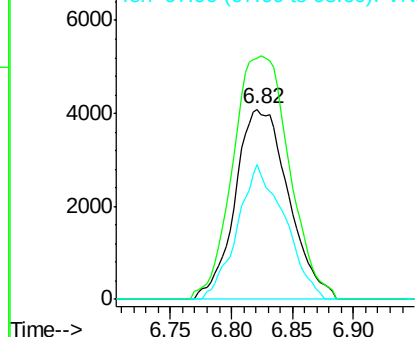
96 100

61 135.6 0.0 273.0

98 62.9 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#29

Tetrahydrofuran

Concen: 0.216 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.01 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

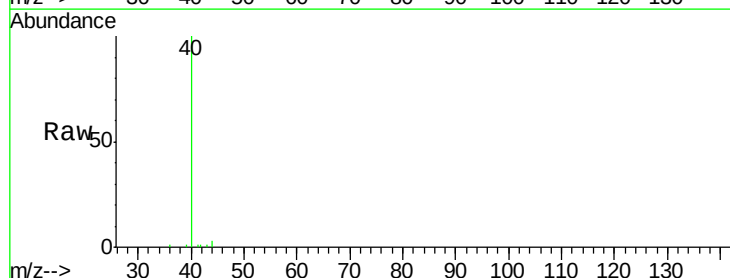
Tgt Ion: 42 Resp: 369

Ion Ratio Lower Upper

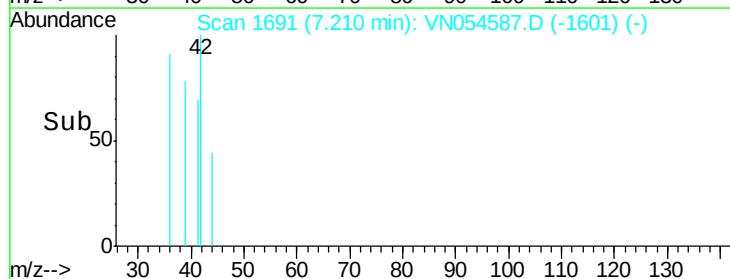
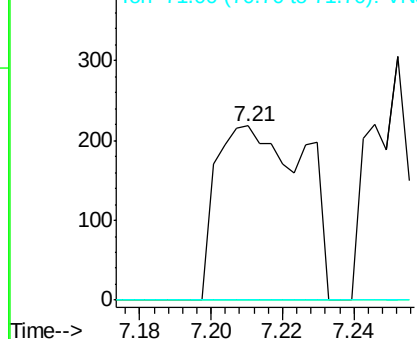
42 100

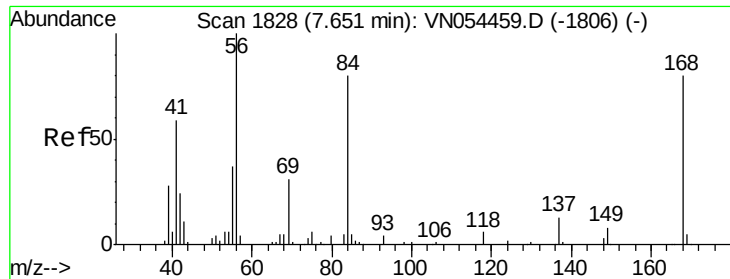
72 0.0 37.8 56.6#

71 0.0 36.2 54.2#



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

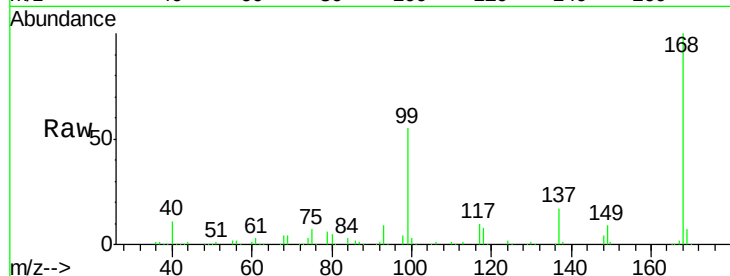




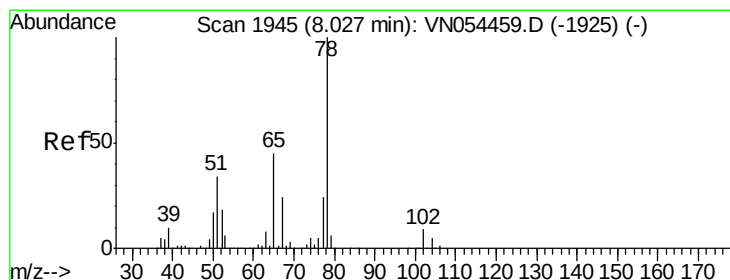
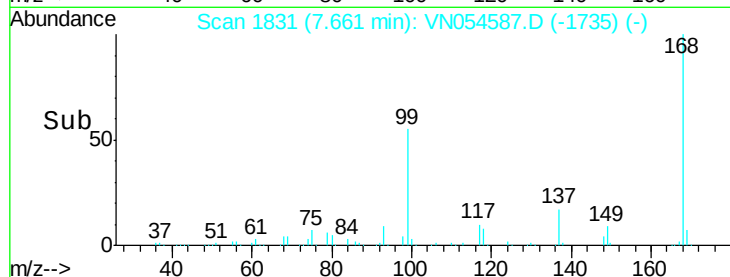
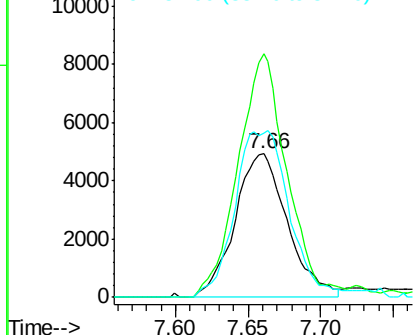
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054587.D
Acq: 23 Mar 2019 5:33

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 12447
Ion Ratio Lower Upper
56 100
69 169.4 27.8 41.6#
84 114.2 74.6 111.8#

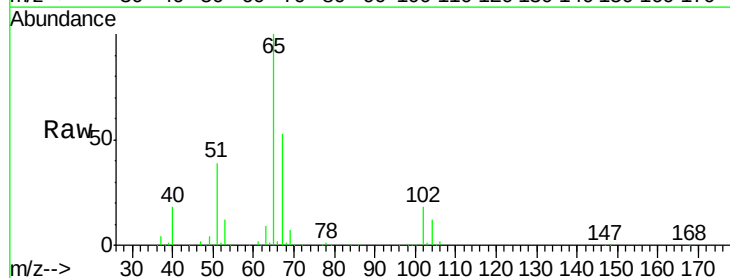


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

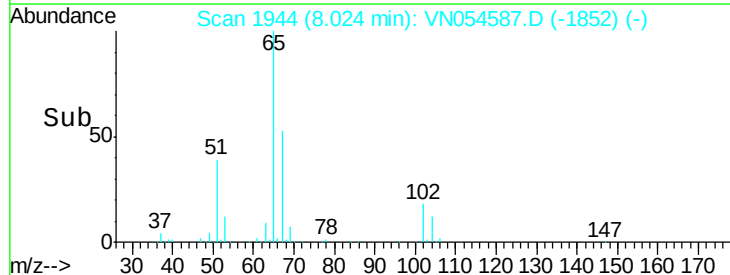
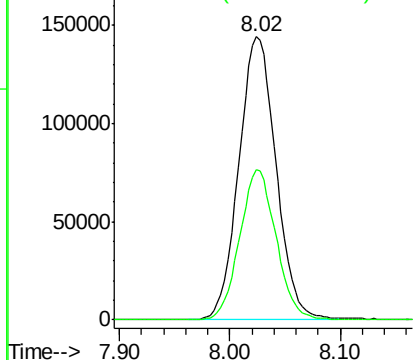


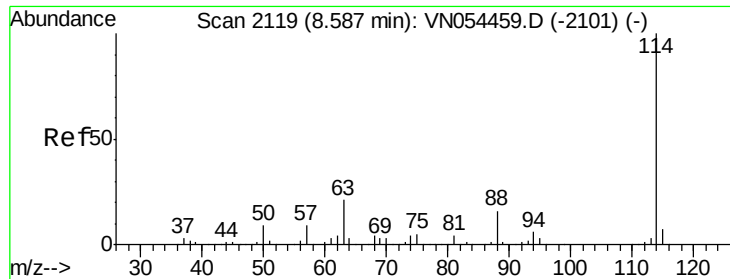
#33
1,2-Dichloroethane-d4
Concen: 49.456 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN054587.D
Acq: 23 Mar 2019 5:33

Tgt Ion: 65 Resp: 337836
Ion Ratio Lower Upper
65 100
67 52.1 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

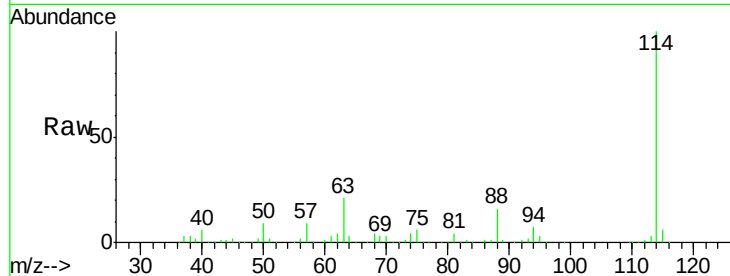




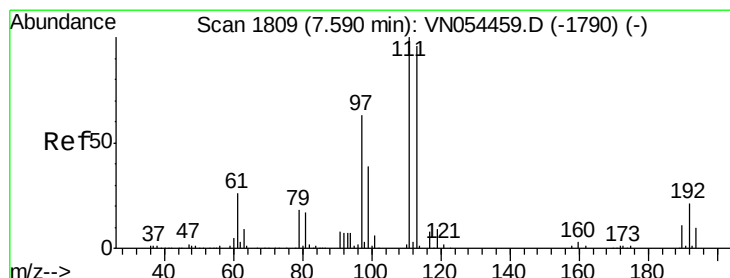
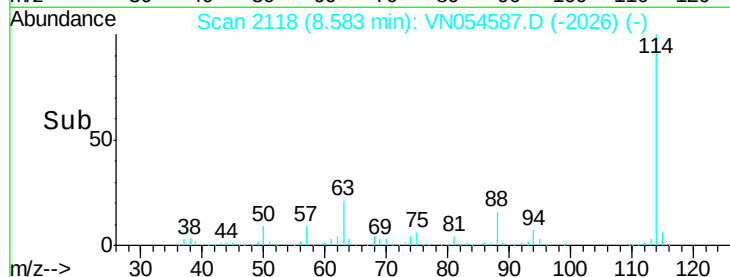
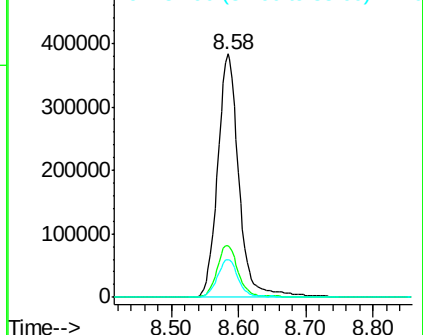
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN054587.D
Acq: 23 Mar 2019 5:33

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 847115
Ion Ratio Lower Upper
114 100
63 21.3 0.0 35.2
88 15.7 0.0 30.2

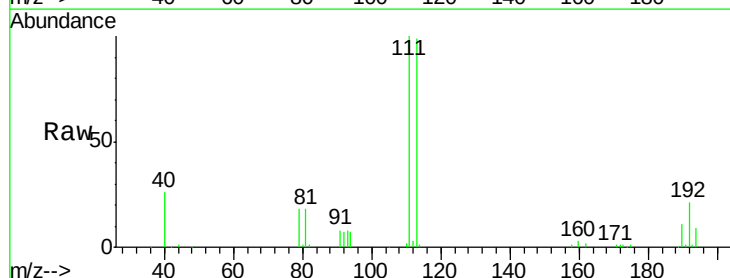


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

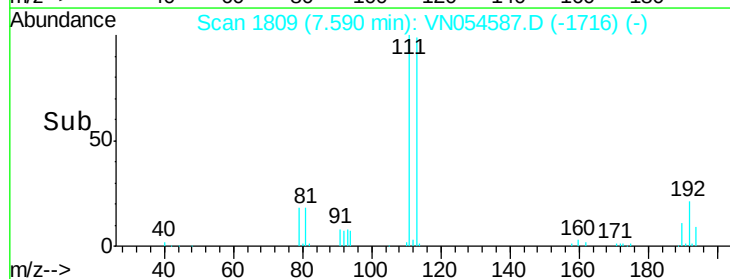
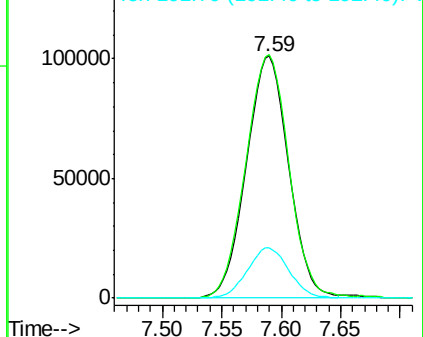


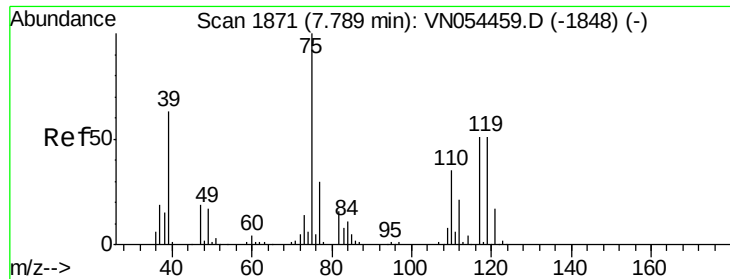
#35
Dibromofluoromethane
Concen: 45.639 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN054587.D
Acq: 23 Mar 2019 5:33

Tgt Ion:113 Resp: 249074
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.4
192 20.6 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

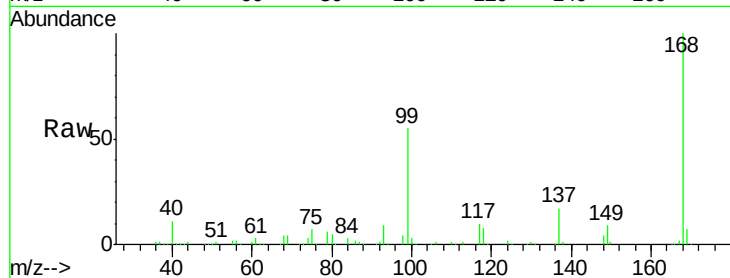




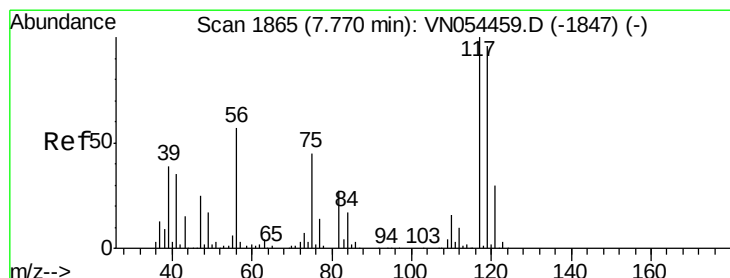
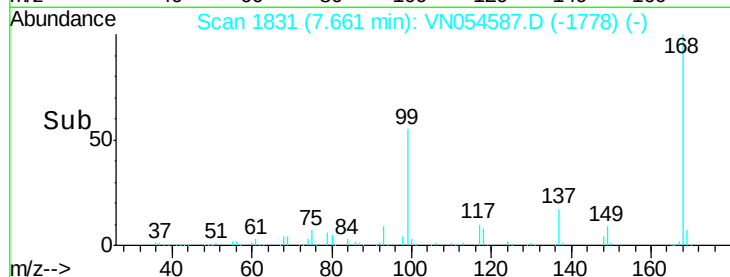
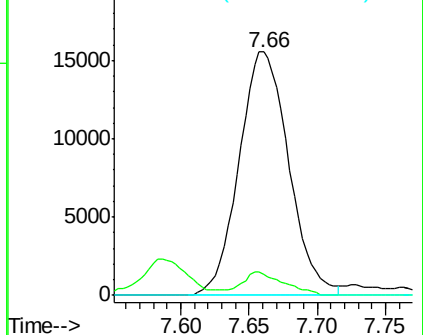
#36
 1,1-Dichloropropene
 Concen: 4.965 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN054587.D
 Acq: 23 Mar 2019 5:33

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 39324
 Ion Ratio Lower Upper
 75 100
 110 8.2 19.1 57.5#
 77 0.0 25.0 37.4#

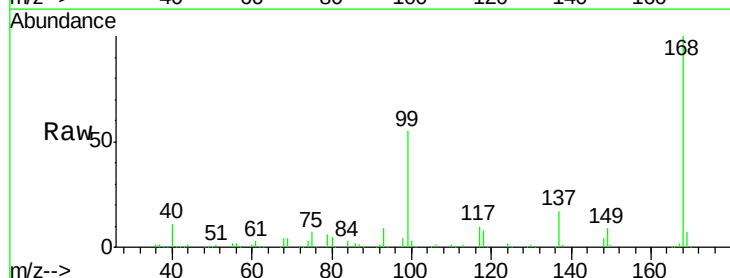


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

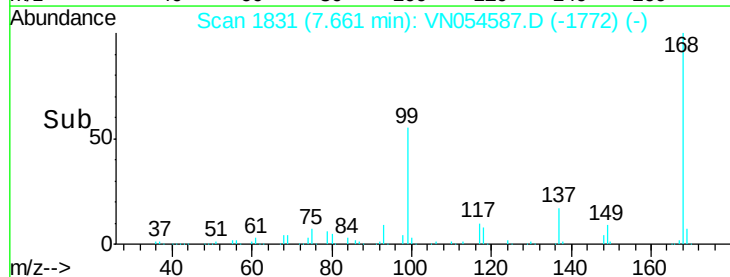
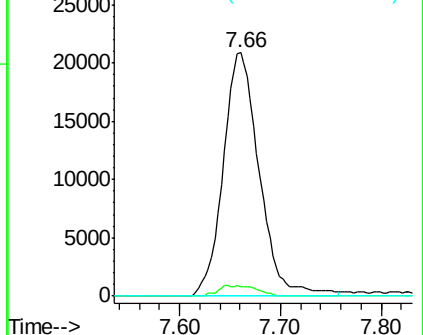


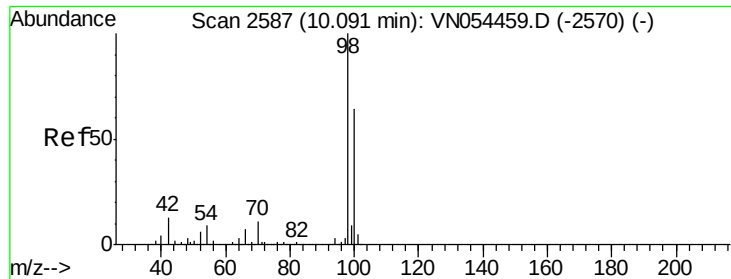
#38
 Carbon Tetrachloride
 Concen: 6.756 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN054587.D
 Acq: 23 Mar 2019 5:33

Tgt Ion: 117 Resp: 52002
 Ion Ratio Lower Upper
 117 100
 119 4.1 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

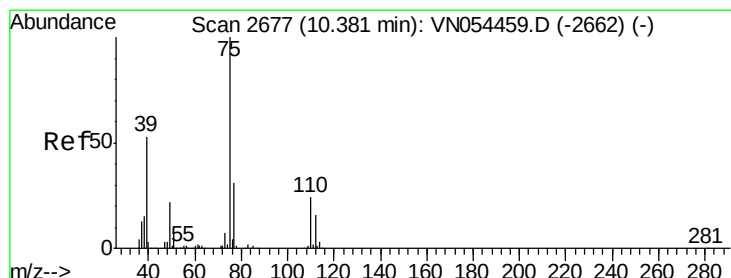
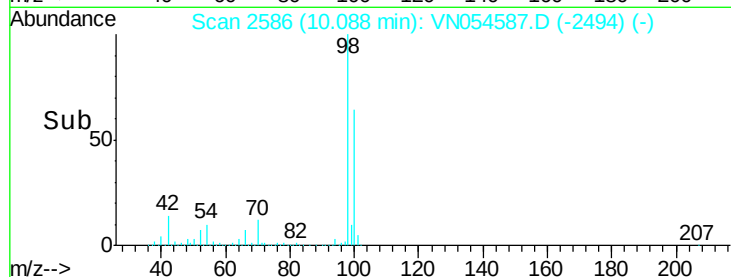
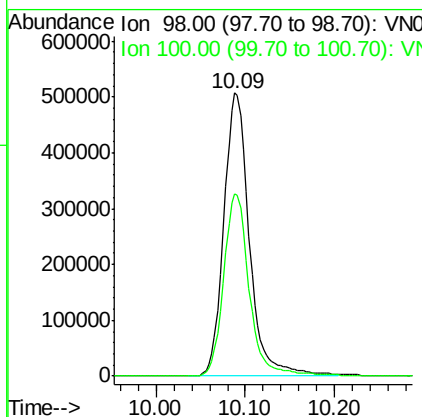
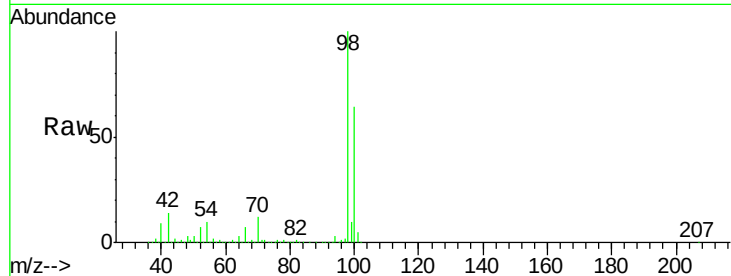




#50
Toluene-d8
Concen: 49.289 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN054587.D
Acq: 23 Mar 2019 5:33

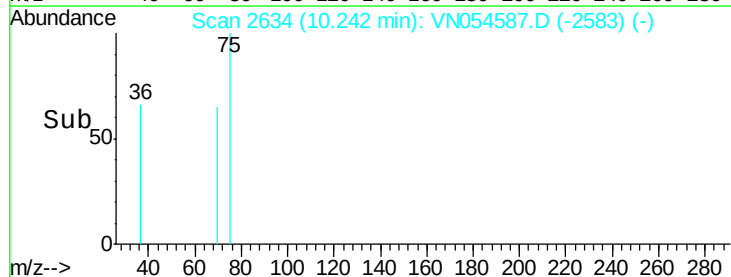
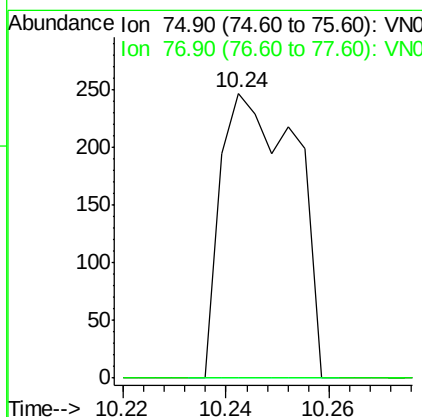
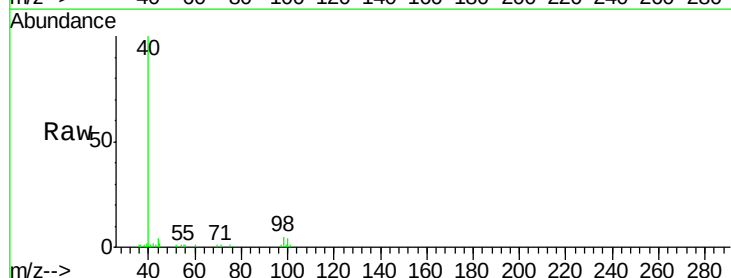
Instrument :
MSVOA_N
ClientSampled :

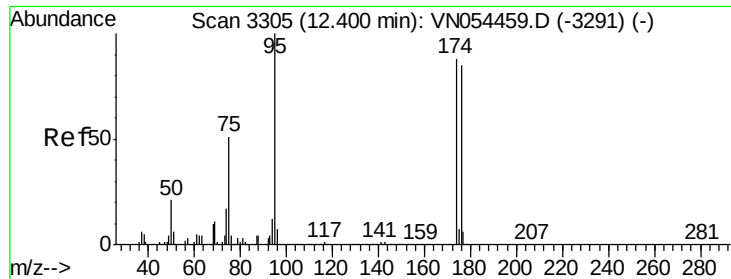
Tot Ion: 98 Resp: 1011252
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



#53
t-1,3-Dichloropropene
Concen: 2.262 ug/l
RT: 10.24 min Scan# 2634
Delta R.T. -0.14 min
Lab File: VN054587.D
Acq: 23 Mar 2019 5:33

Tgt Ion: 75 Resp: 247
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#





#62

4-Bromofluorobenzene

Concen: 46.030 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :

MSVOA_N

ClientSampled :

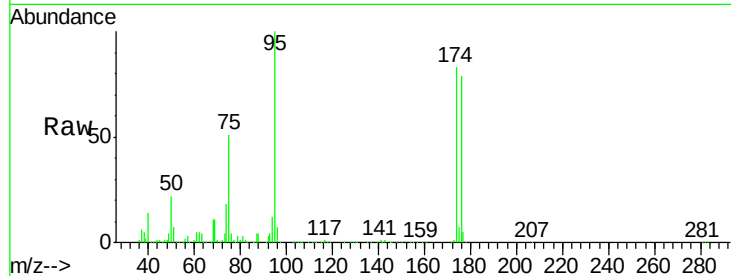
Tot Ion: 95 Resp: 321365

Ion Ratio Lower Upper

95 100

174 82.9 0.0 191.0

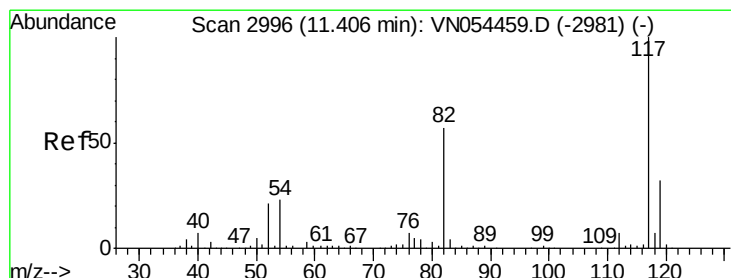
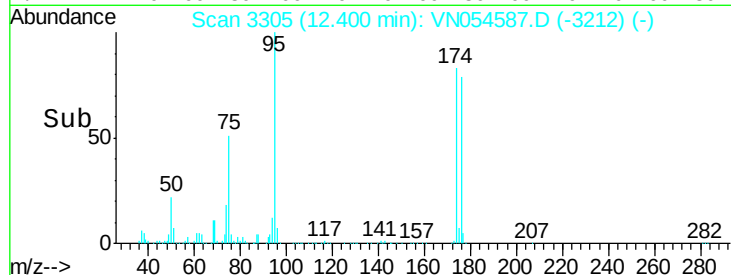
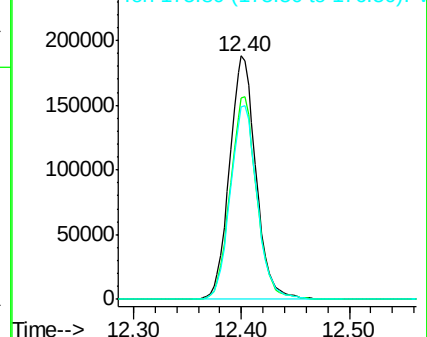
176 80.5 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

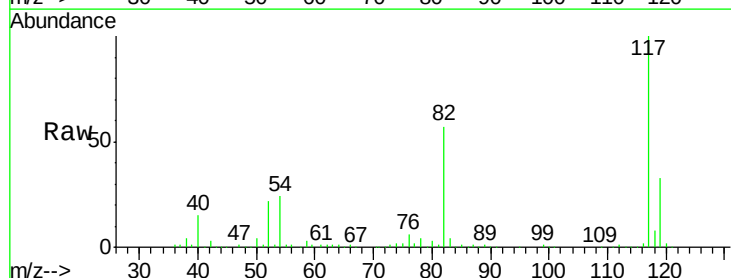
Tgt Ion: 117 Resp: 712256

Ion Ratio Lower Upper

117 100

82 56.7 40.0 60.0

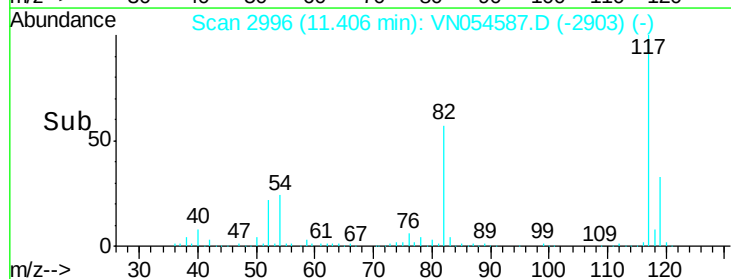
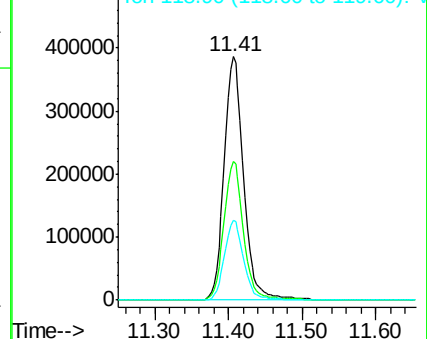
119 32.7 25.8 38.6

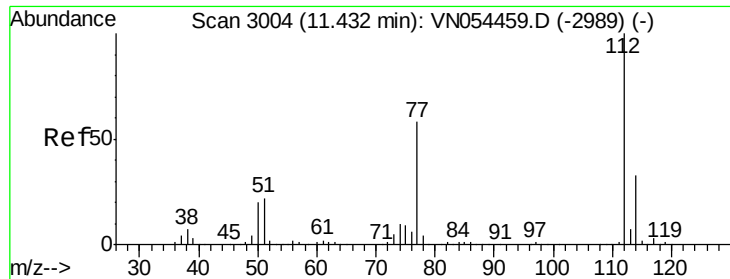


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)





#65

Chlorobenzene

Concen: 7.747 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :

MSVOA_N

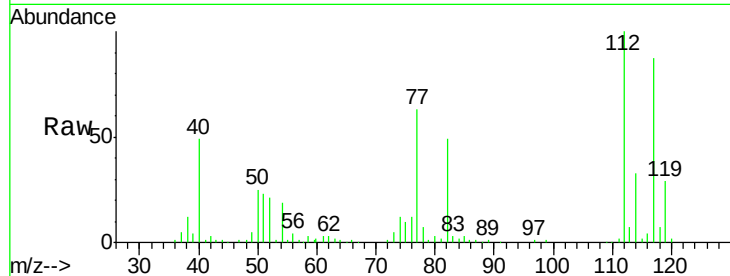
ClientSampled :

Tot Ion:112 Resp: 112230

Ion Ratio Lower Upper

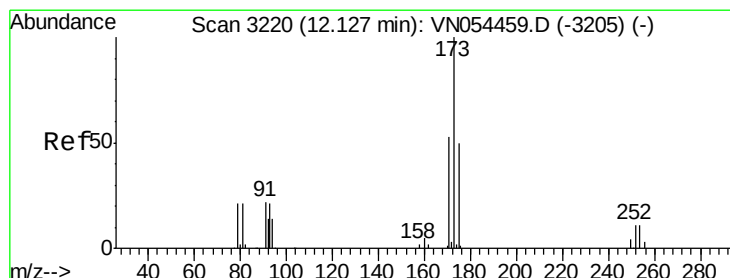
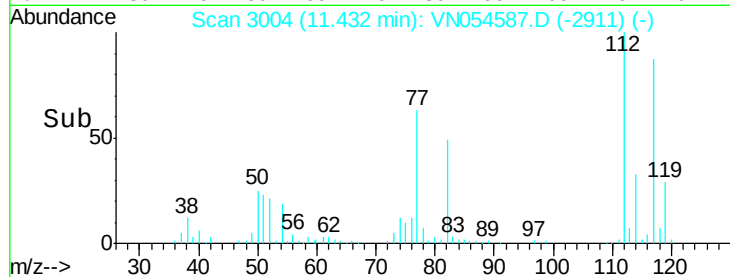
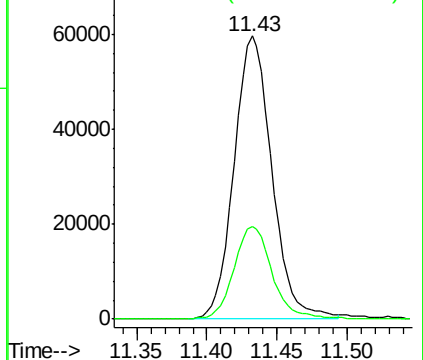
112 100

114 32.8 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#71

Bromoform

Concen: 2.696 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

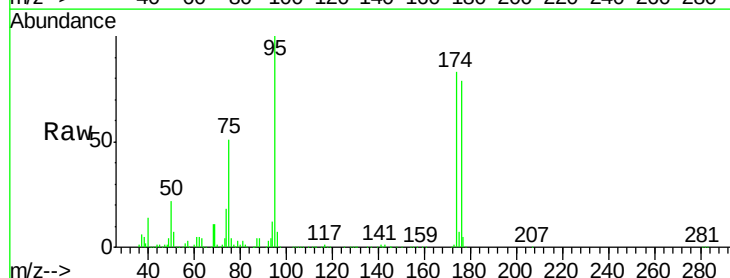
Tgt Ion:173 Resp: 1784

Ion Ratio Lower Upper

173 100

175 1029.1 24.4 73.2#

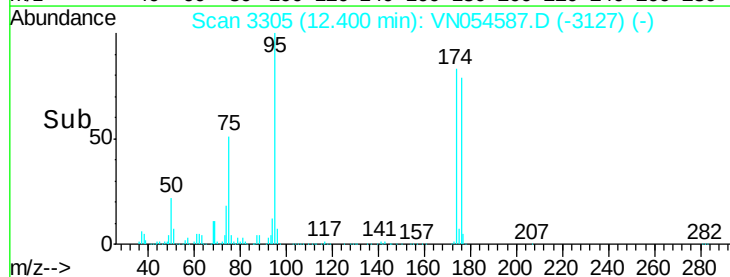
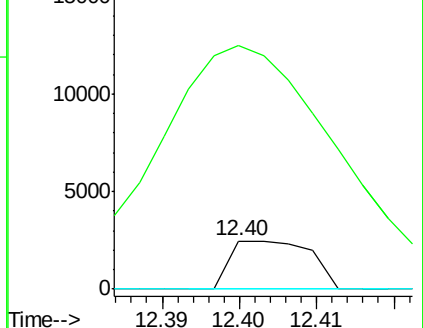
254 0.0 0.1 0.1#

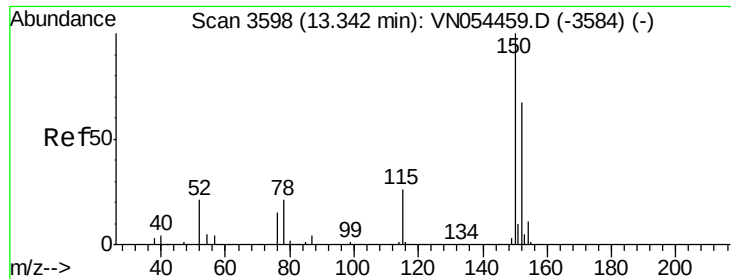


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :

MSVOA_N

ClientSampleId :

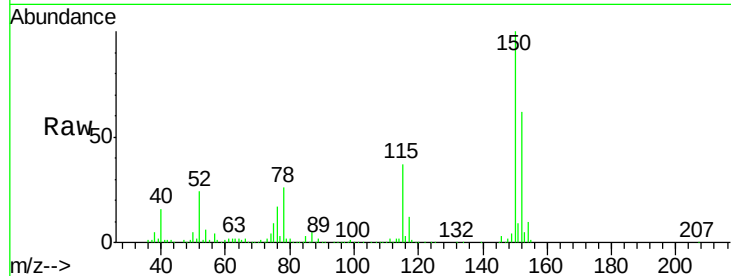
Tot Ion:152 Resp: 282514

Ion Ratio Lower Upper

152 100

115 59.2 27.2 81.6

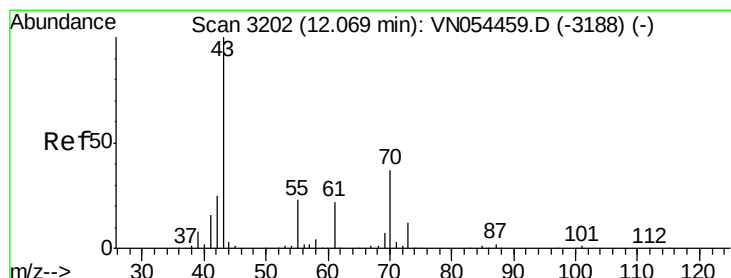
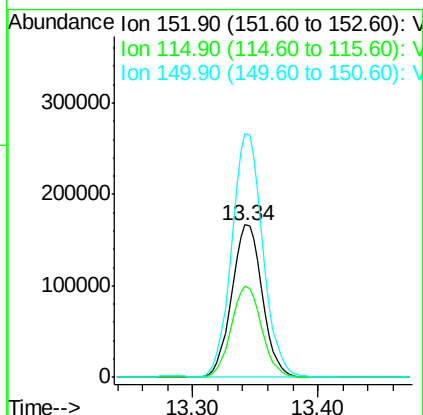
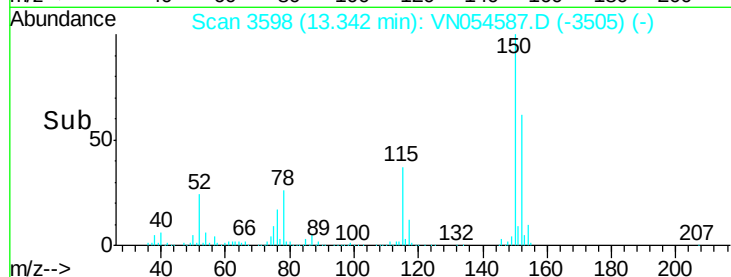
150 162.2 0.0 349.2



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-ethyl acetate

Concen: 0.260 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Tgt Ion: 43 Resp: 1705

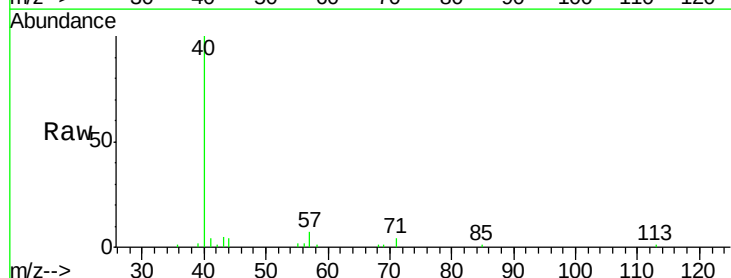
Ion Ratio Lower Upper

43 100

70 0.0 35.4 53.0#

55 26.2 19.8 29.6

61 0.0 19.8 29.6#

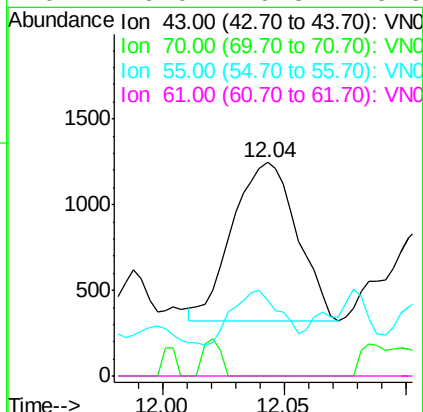
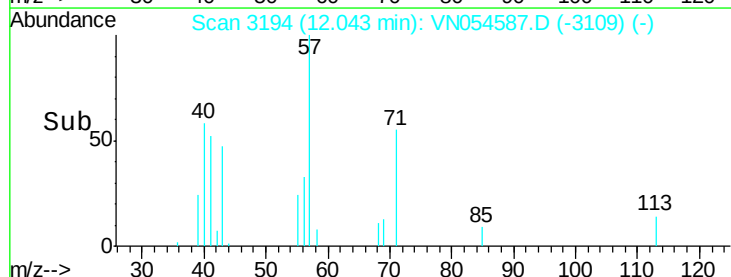


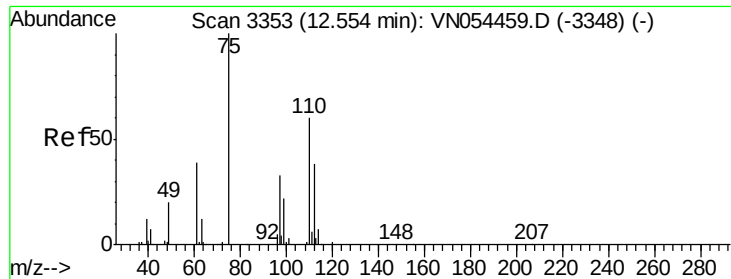
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 36.535 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :

MSVOA_N

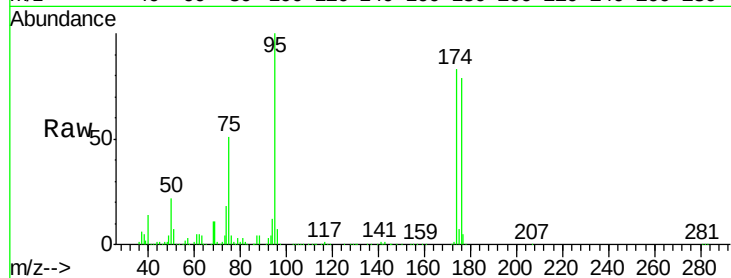
ClientSampled :

Tot Ion: 75 Resp: 163789

Ion Ratio Lower Upper

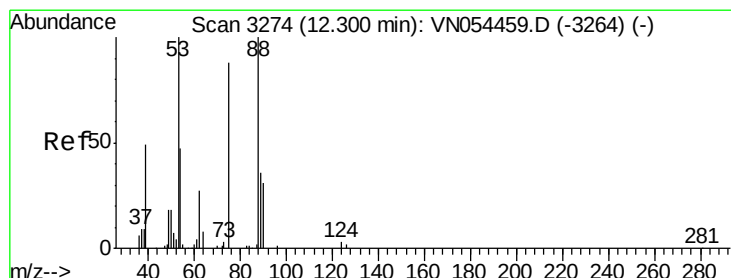
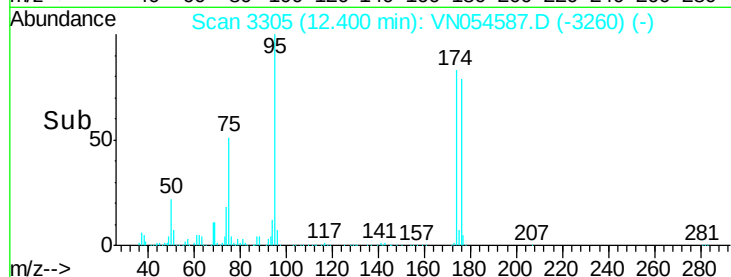
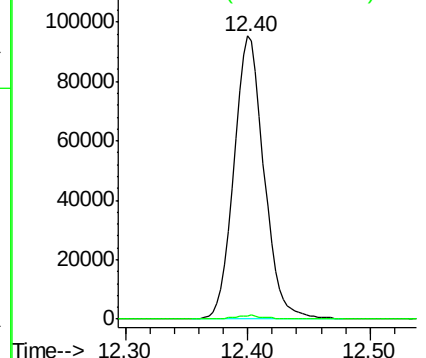
75 100

77 1.3 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: 121.131 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

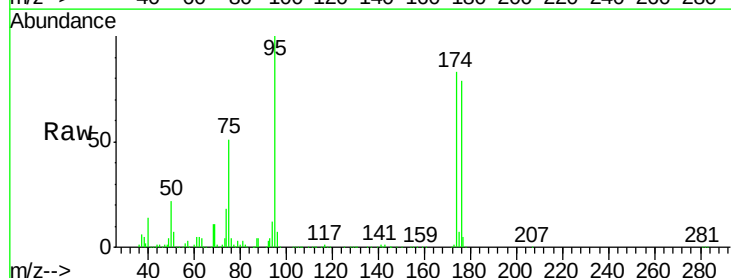
Tgt Ion: 75 Resp: 163789

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

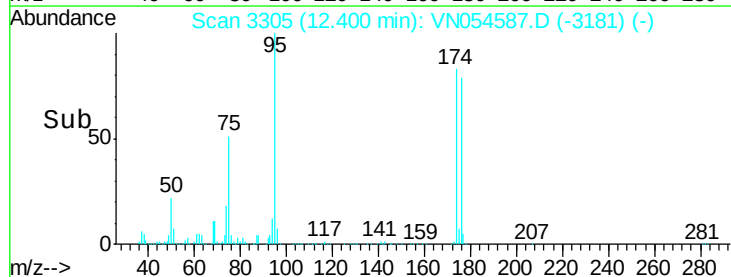
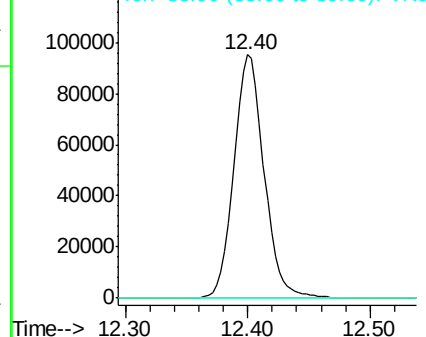
89 0.0 39.2 58.8#

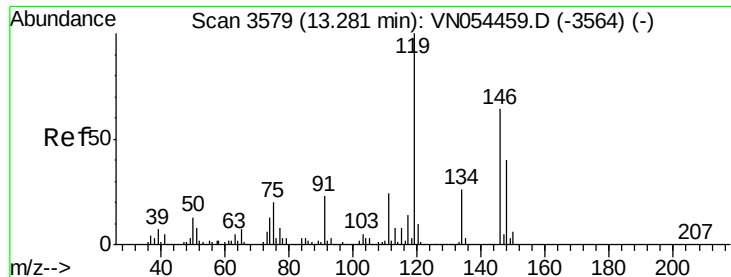


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

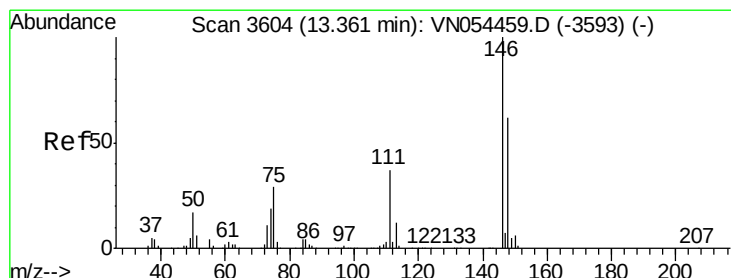
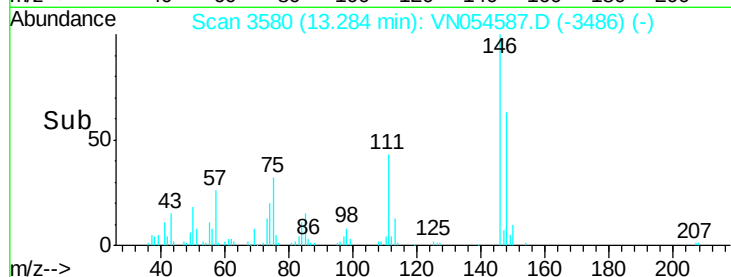
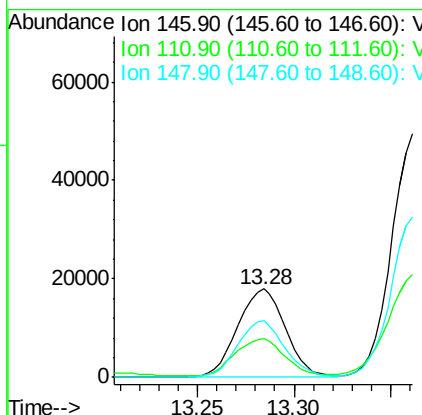
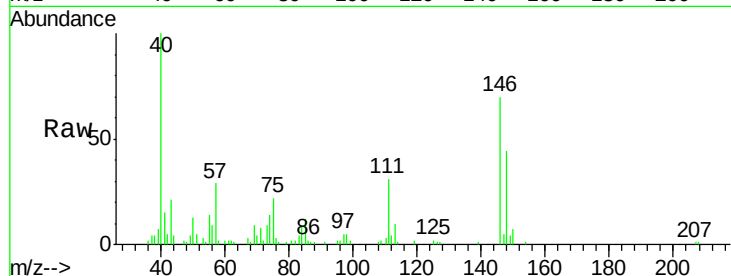




#87
 1,3-Dichlorobenzene
 Concen: 3.308 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054587.D
 Acq: 23 Mar 2019 5:33

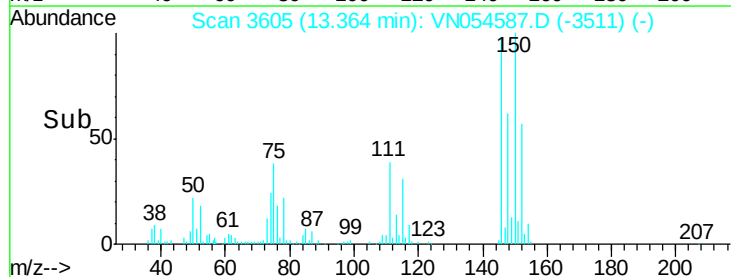
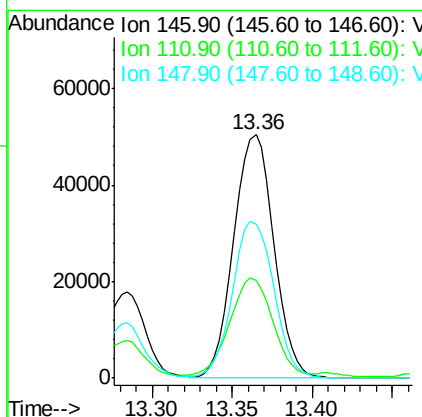
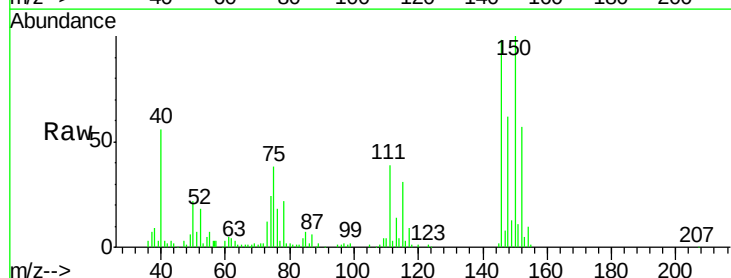
Instrument :
 MSVOA_N
 ClientSampleId :

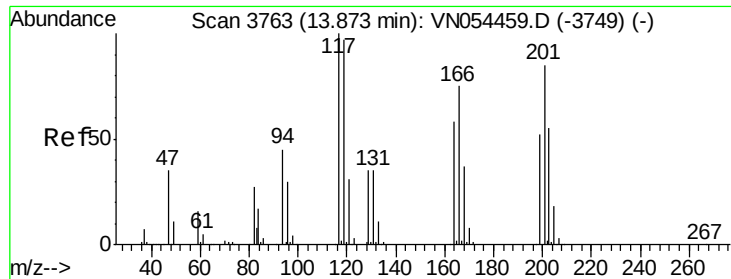
Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	18.8	56.3
148	62.6	32.2	96.6



#88
 1,4-Dichlorobenzene
 Concen: 9.509 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054587.D
 Acq: 23 Mar 2019 5:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	18.1	54.1
148	66.7	32.0	96.0





#90

Hexachloroethane

Concen: 0.694 ug/l

RT: 13.99 min Scan# 3800

Delta R.T. 0.12 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :

MSVOA_N

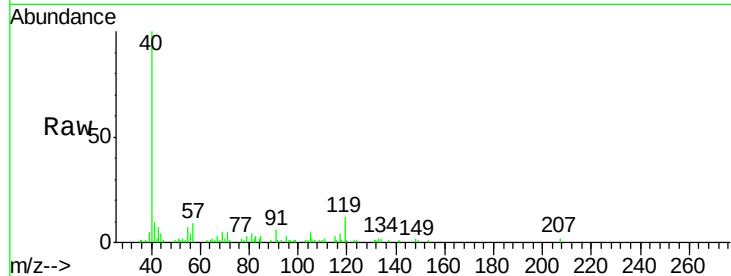
ClientSampled :

Tot Ion:117 Resp: 1952

Ion Ratio Lower Upper

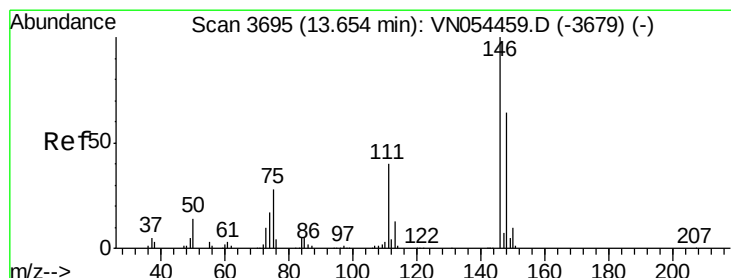
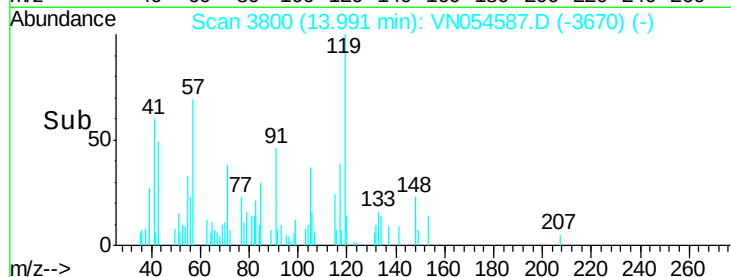
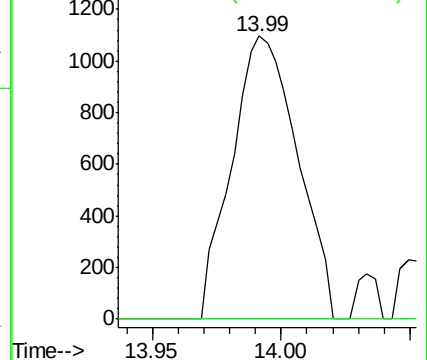
117 100

201 0.0 48.1 144.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 27.452 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

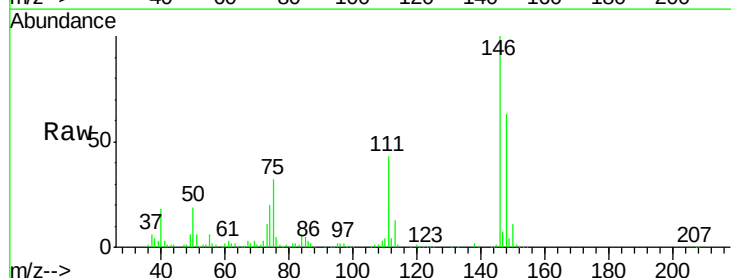
Tgt Ion:146 Resp: 248787

Ion Ratio Lower Upper

146 100

111 42.7 19.1 57.3

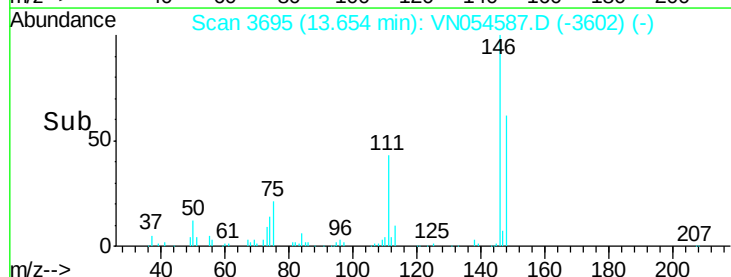
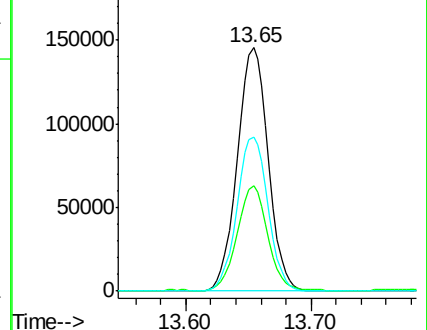
148 63.7 32.4 97.0

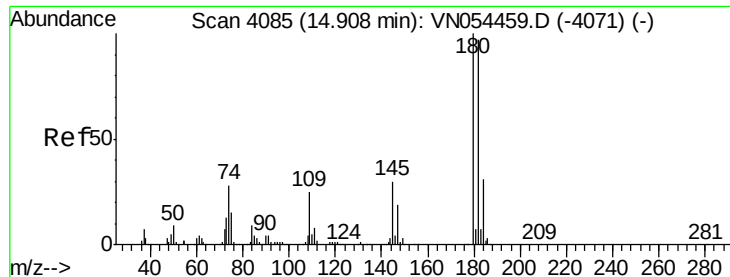


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#93

1,2,4-Trichlorobenzene

Concen: 1.352 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

Instrument :

MSVOA_N

ClientSampled :

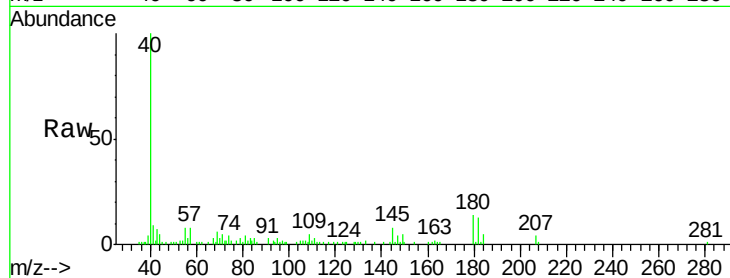
Tot Ion:180 Resp: 6109

Ion Ratio Lower Upper

180 100

182 103.6 48.0 144.2

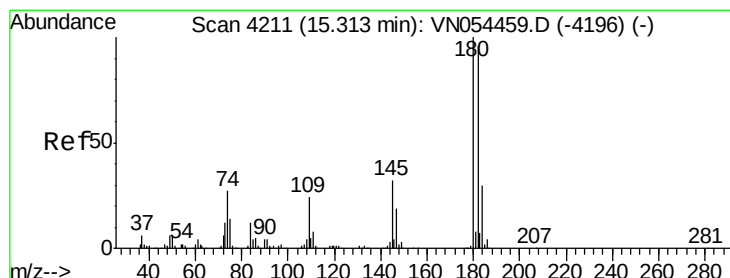
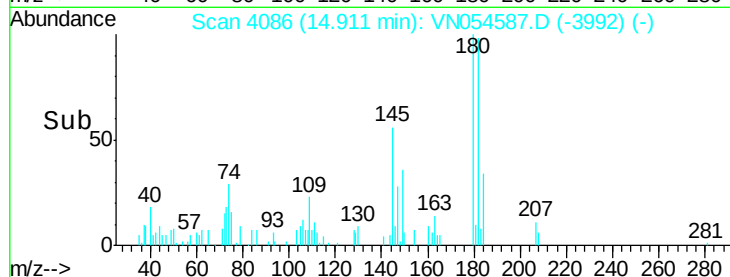
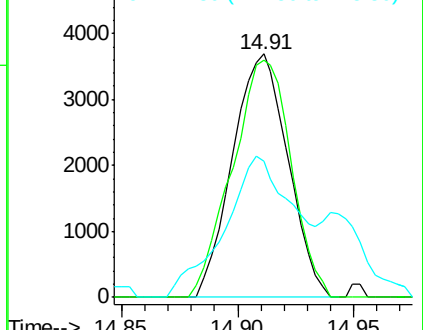
145 73.8 14.2 42.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#96

1,2,3-Trichlorobenzene

Concen: 0.234 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN054587.D

Acq: 23 Mar 2019 5:33

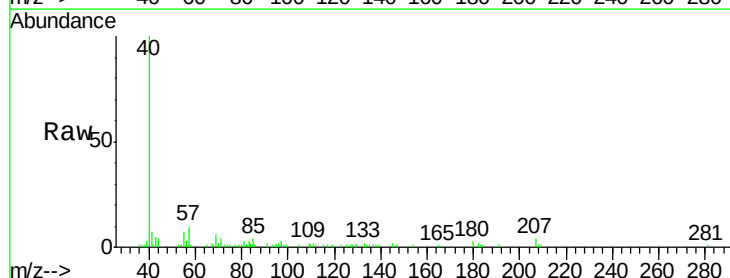
Tgt Ion:180 Resp: 1053

Ion Ratio Lower Upper

180 100

182 122.5 47.5 142.6

145 111.7 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

