

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054506.D
 Acq On : 21 Mar 2019 12:56
 Operator : JC/SP
 Sample : VN0321MBL01
 Misc : 5.00µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBL01

Quant Time: Mar 22 10:13:53 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	695135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1069225	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	862808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	300100	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	412177	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
35) Dibromofluoromethane	7.59	113	327902	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
50) Toluene-d8	10.09	98	1247675	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
62) 4-Bromofluorobenzene	12.40	95	373538	42.39	ug/l	0.00
Spiked Amount			Recovery	=	84.78%	

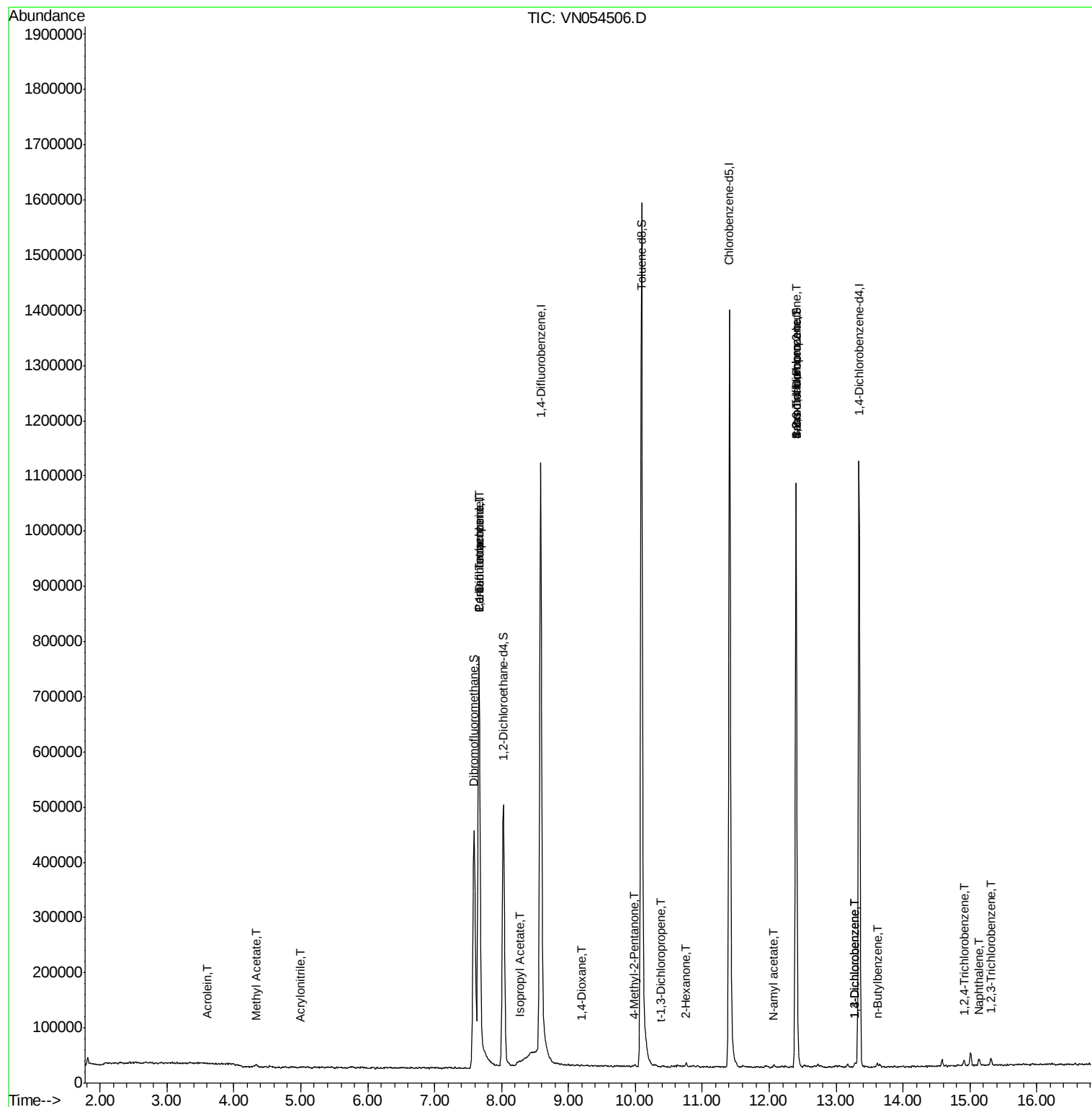
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	231	0.320	ug/l #	1
15) Acrylonitrile	5.00	53	529	0.203	ug/l #	74
18) Methyl Acetate	4.34	43	6165	1.064	ug/l #	64
31) Cyclohexane	7.66	56	13558	Below Cal	#	11
36) 1,1-Dichloropropene	7.66	75	47883	4.790	ug/l #	48
38) Carbon Tetrachloride	7.66	117	60491	6.226	ug/l #	16
43) Isopropyl Acetate	8.27	43	9364	0.780	ug/l #	60
49) 1,4-Dioxane	9.21	88	97	1.331	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	2941	0.442	ug/l	87
53) t-1,3-Dichloropropene	10.38	75	237	2.255	ug/l #	79
59) 2-Hexanone	10.75	43	4154	0.956	ug/l	99
71) Bromoform	12.39	173	1218	2.488	ug/l #	28
74) N-amyl acetate	12.08	43	2385	0.343	ug/l	93
76) 1,2,3-Trichloropropane	12.40	75	187508	39.375	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	187508	130.300	ug/l #	11
87) 1,3-Dichlorobenzene	13.29	146	2034	0.205	ug/l	96
88) 1,4-Dichlorobenzene	13.29	146	2034	0.210	ug/l	95
89) n-Butylbenzene	13.62	91	4459	0.296	ug/l	96
93) 1,2,4-Trichlorobenzene	14.90	180	4113	0.857	ug/l	86
94) Hexachlorobutadiene	15.01	225	4746	Below Cal		93
95) Naphthalene	15.13	128	11554	1.079	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	4390	0.919	ug/l	85

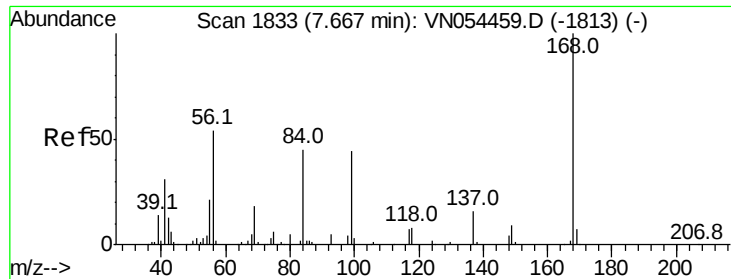
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032119\
Data File : VN054506.D
Acq On : 21 Mar 2019 12:56
Operator : JC/SP
Sample : VN0321MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

Quant Time: Mar 22 10:13:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
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: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

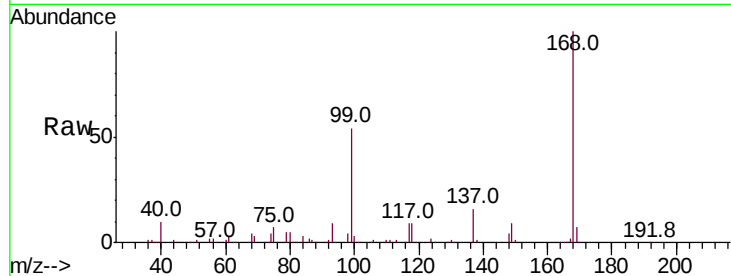
VN0321MBL01

Tot Ion:168 Resp: 695135

Ion Ratio Lower Upper

168 100

99 53.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054459.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054459.D (-1813) (-)

7.66

250000

200000

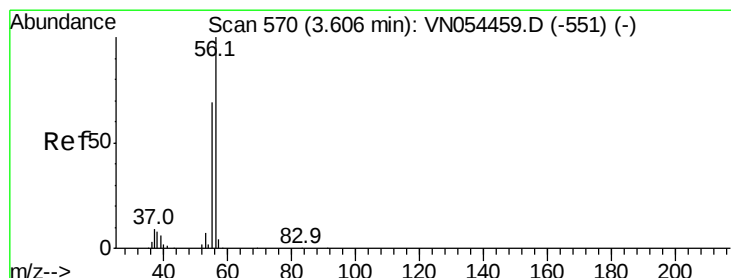
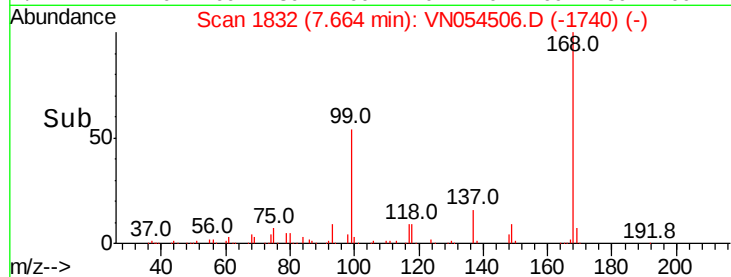
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#13

Acrolein

Concen: 0.320 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054506.D

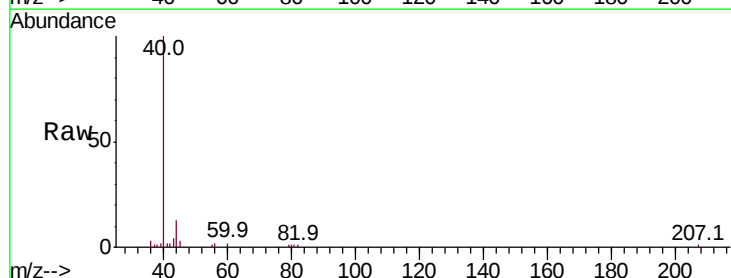
Acq: 21 Mar 2019 12:56

Tgt Ion: 56 Resp: 231

Ion Ratio Lower Upper

56 100

55 311.7 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN054459.D (-551) (-)

Ion 55.00 (54.70 to 55.70): VN054459.D (-551) (-)

3.60

500

400

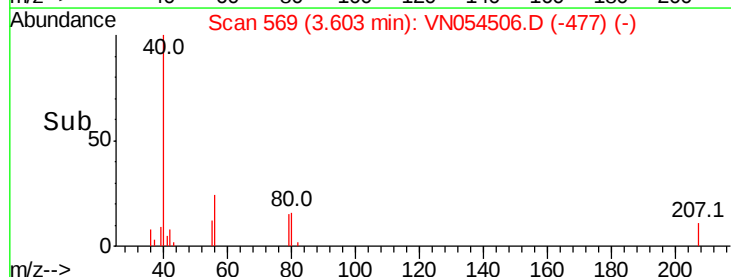
300

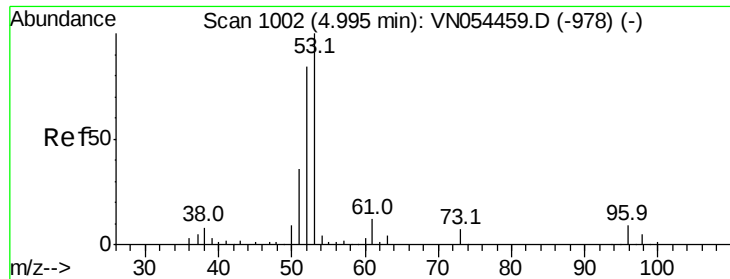
200

100

0

Time--> 3.58 3.59 3.60 3.61





#15

Acrylonitrile

Concen: 0.203 ug/l

RT: 5.00 min Scan# 1005

Delta R.T. 0.01 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampled :

VN0321MBL01

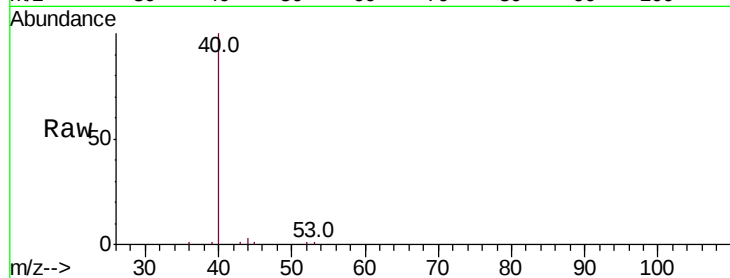
Tot Ion: 53 Resp: 529

Ion Ratio Lower Upper

53 100

52 60.9 66.4 99.6#

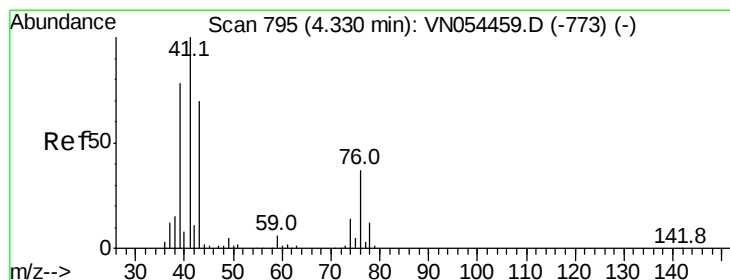
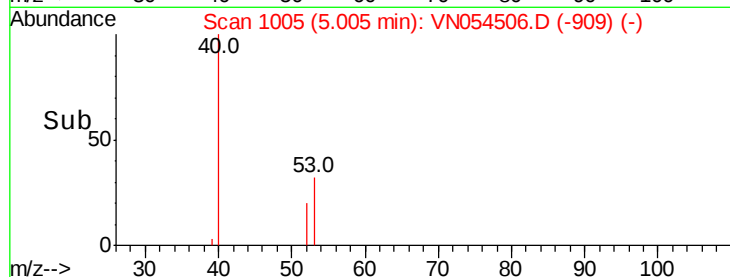
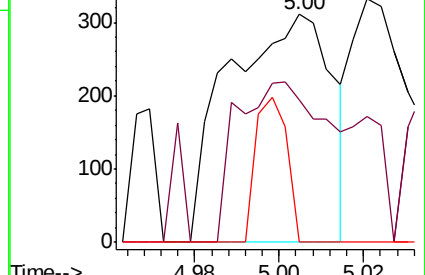
51 19.3 29.6 44.4#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#18

Methyl Acetate

Concen: 1.064 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN054506.D

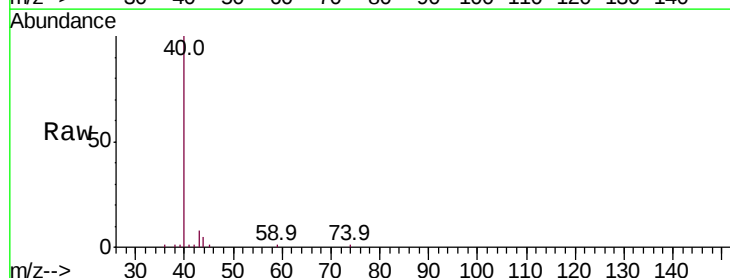
Acq: 21 Mar 2019 12:56

Tgt Ion: 43 Resp: 6165

Ion Ratio Lower Upper

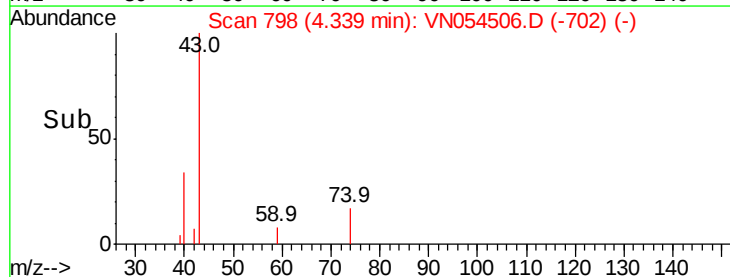
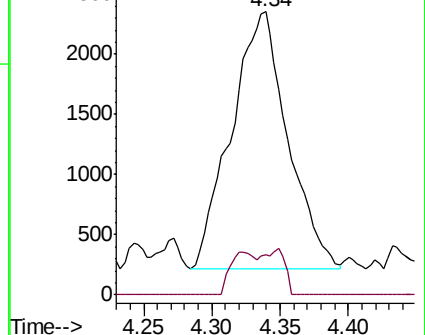
43 100

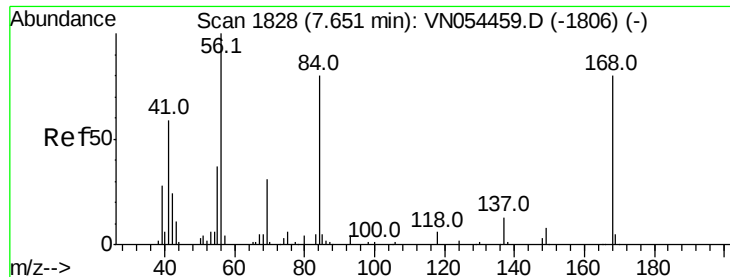
74 7.5 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

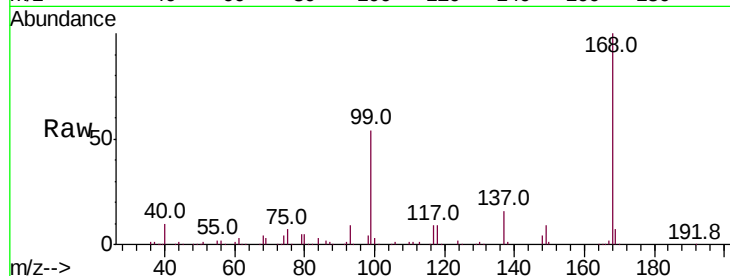
Tot Ion: 56 Resp: 13558

Ion Ratio Lower Upper

56 100

69 155.1 27.8 41.6#

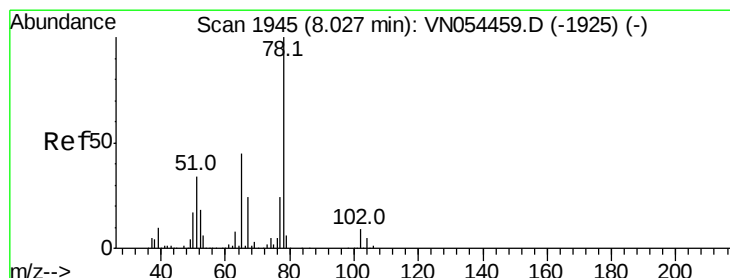
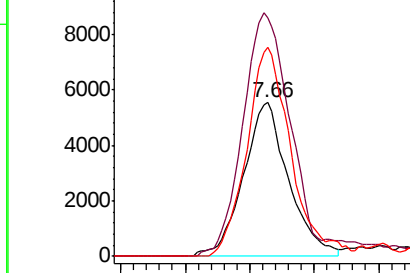
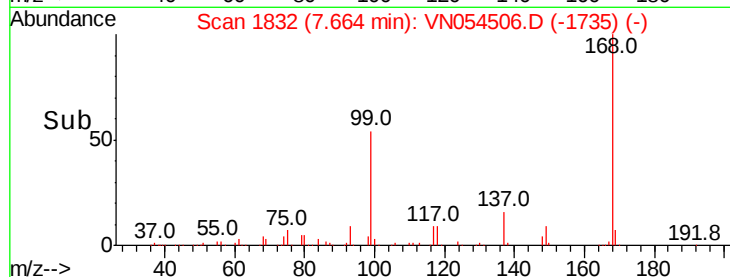
84 136.1 74.6 111.8#



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: 47.671 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054506.D

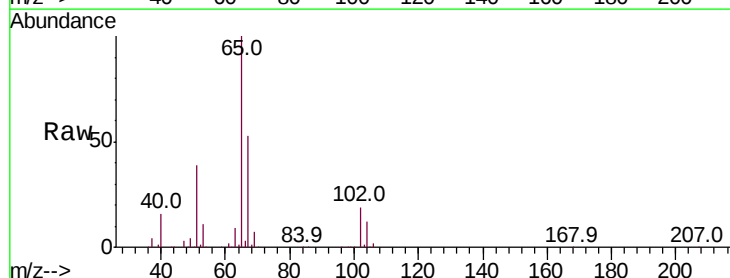
Acq: 21 Mar 2019 12:56

Tgt Ion: 65 Resp: 412177

Ion Ratio Lower Upper

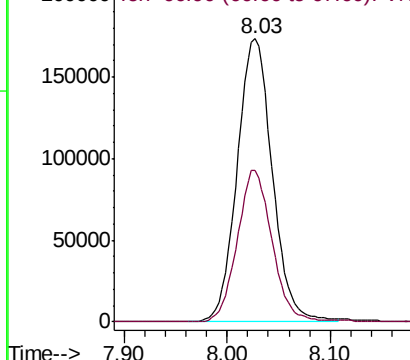
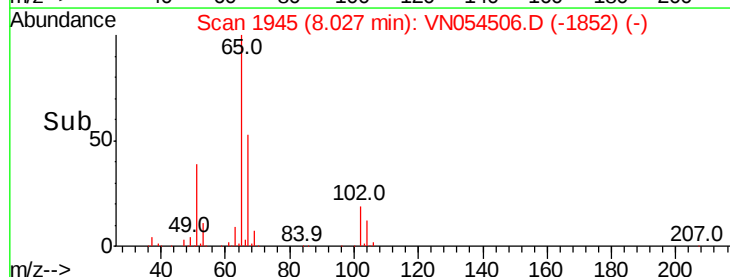
65 100

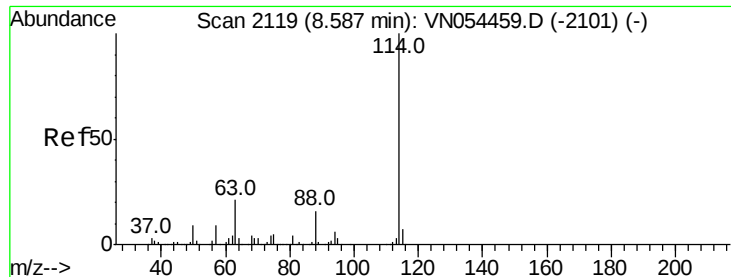
67 53.1 0.0 104.6



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: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

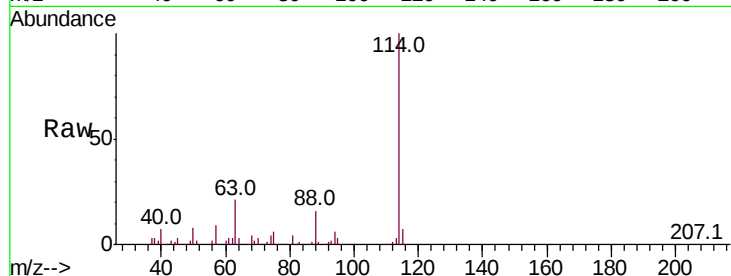
Tot Ion:114 Resp: 1069225

Ion Ratio Lower Upper

114 100

63 21.1 0.0 35.2

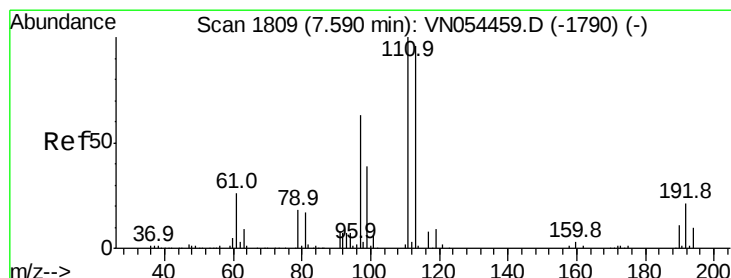
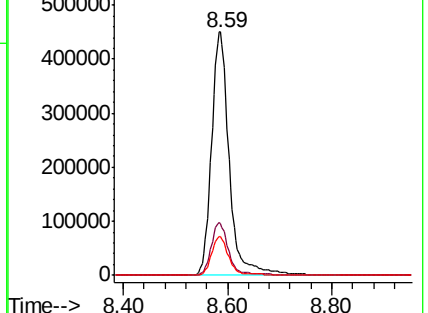
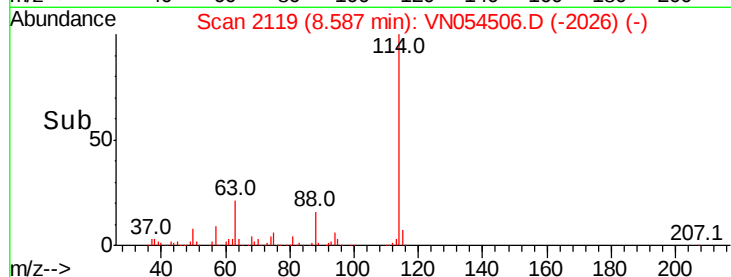
88 15.8 0.0 30.2



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: 47.602 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

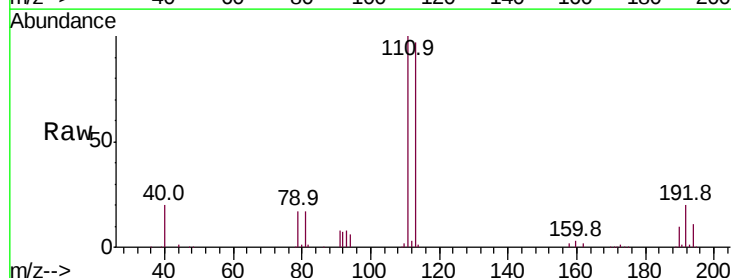
Tgt Ion:113 Resp: 327902

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.4

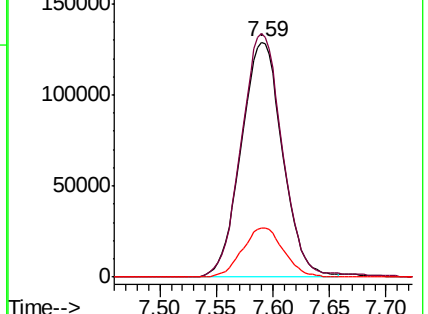
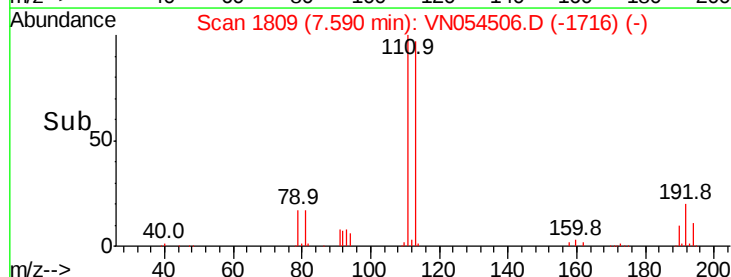
192 21.1 19.2 28.8

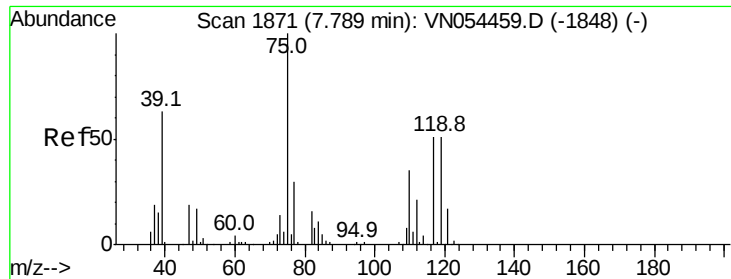


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

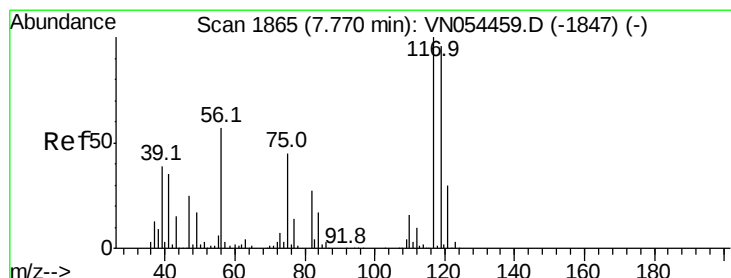
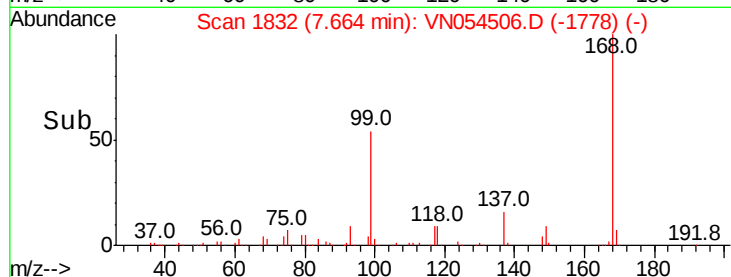
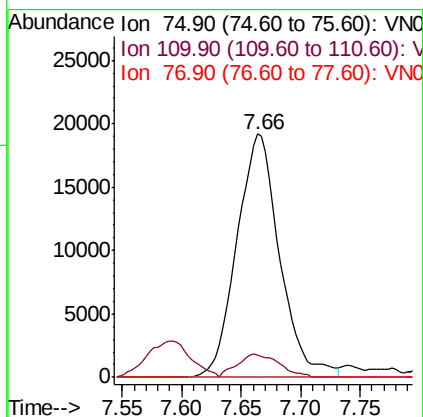
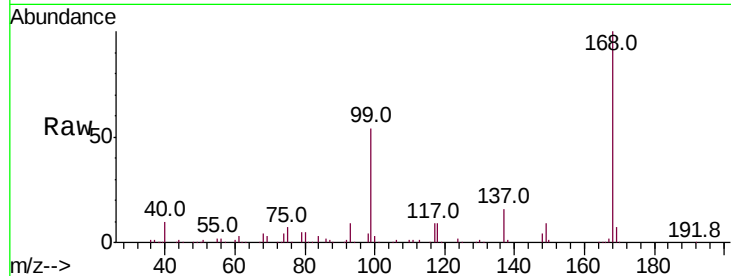




#36
 1,1-Dichloropropene
 Concen: 4.790 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054506.D
 Acq: 21 Mar 2019 12:56

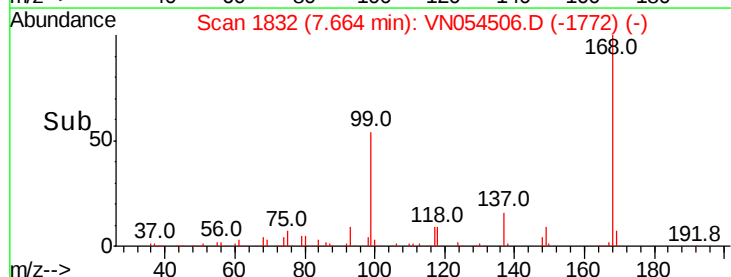
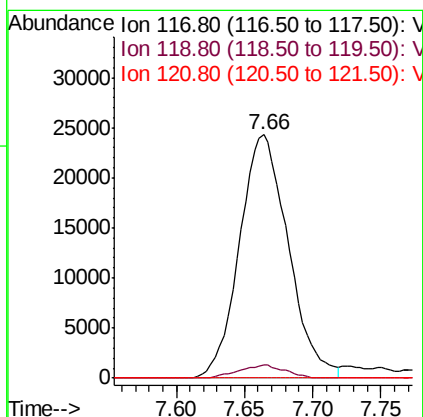
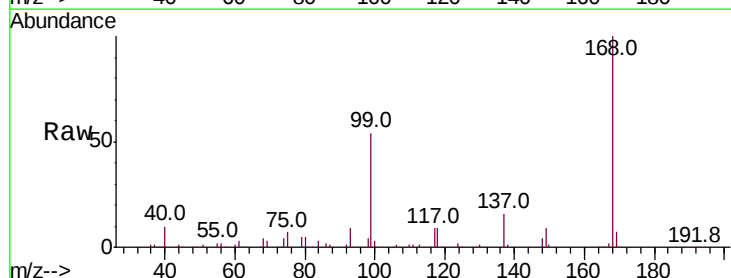
Instrument :
 MSVOA_N
 ClientSampled :
 VN0321MBL01

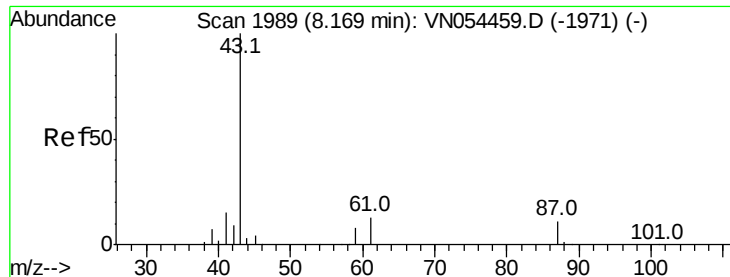
Tot Ion: 75 Resp: 47883
 Ion Ratio Lower Upper
 75 100
 110 9.3 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.226 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054506.D
 Acq: 21 Mar 2019 12:56

Tgt Ion: 117 Resp: 60491
 Ion Ratio Lower Upper
 117 100
 119 5.3 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 0.780 ug/l

RT: 8.27 min Scan# 2021

Delta R.T. 0.10 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

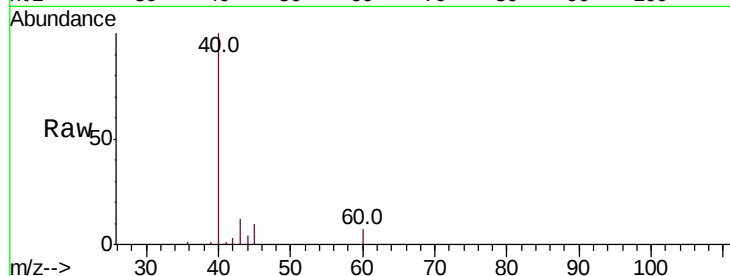
Tot Ion: 43 Resp: 9364

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

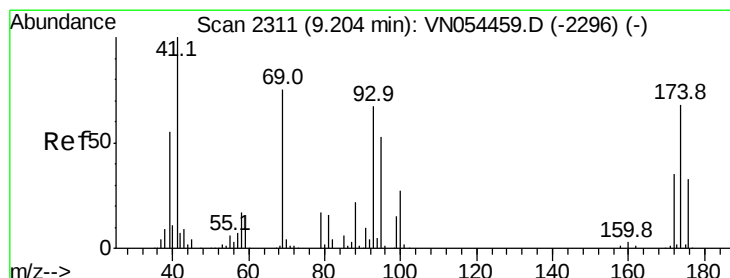
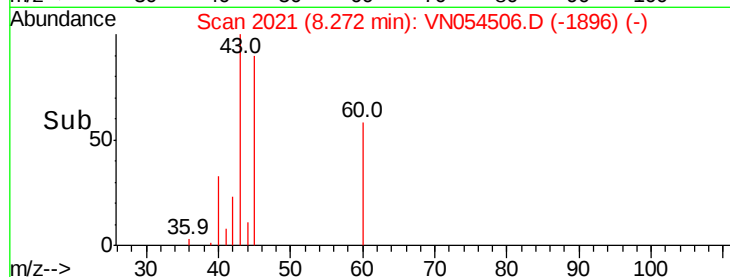
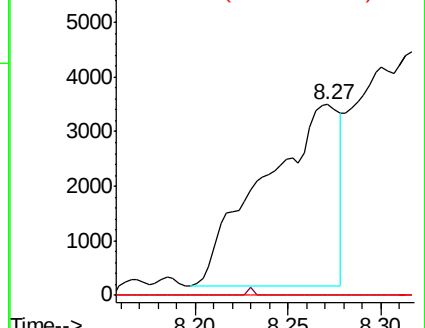
87 0.0 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#49

1,4-Dioxane

Concen: 1.331 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

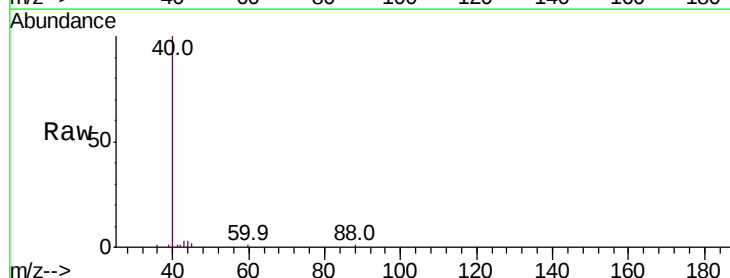
Tgt Ion: 88 Resp: 97

Ion Ratio Lower Upper

88 100

43 342.3 24.1 36.1#

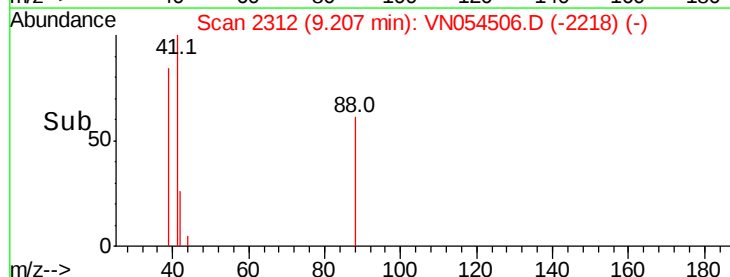
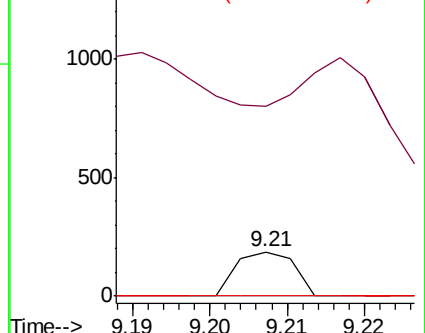
58 0.0 50.8 76.2#

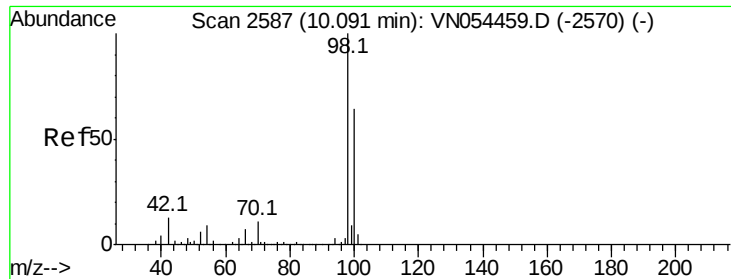


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 48.179 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

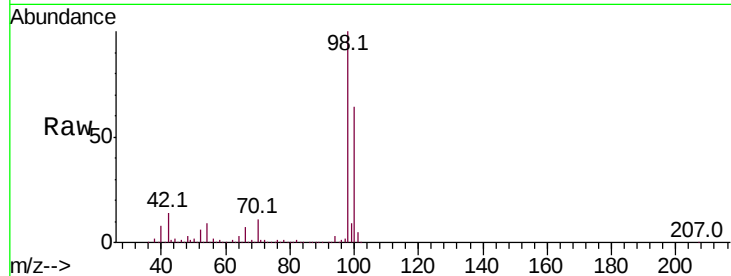
VN0321MBL01

Tot Ion: 98 Resp: 1247675

Ion Ratio Lower Upper

98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

600000

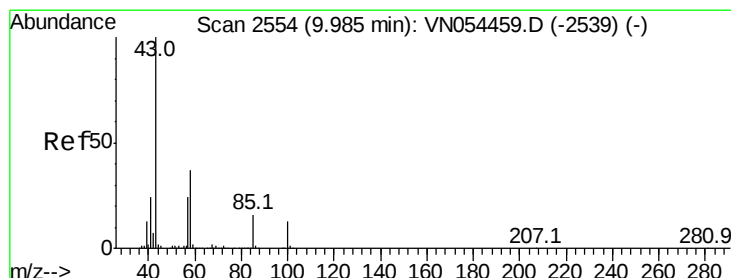
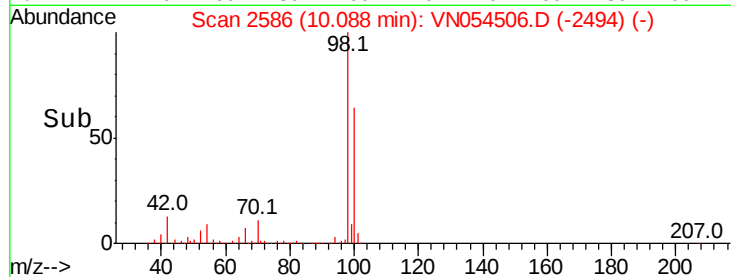
10.09

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.442 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054506.D

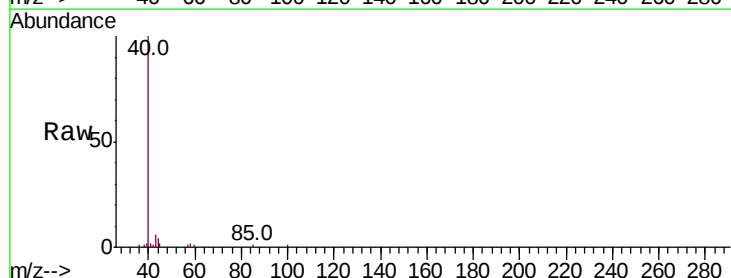
Acq: 21 Mar 2019 12:56

Tgt Ion: 43 Resp: 2941

Ion Ratio Lower Upper

43 100

58 31.9 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3000

2500

2000

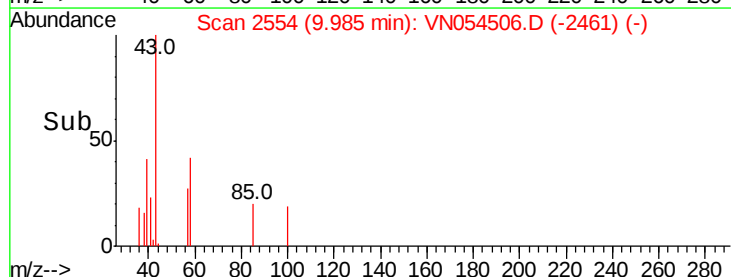
1500

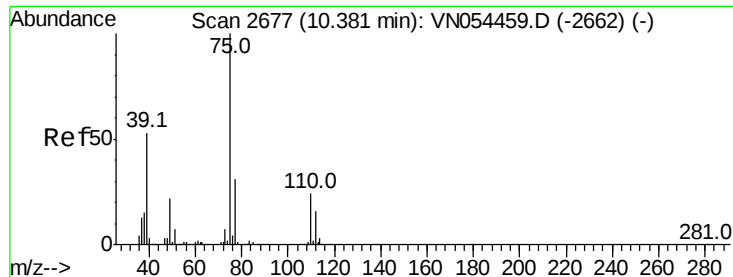
1000

500

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.255 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampled :

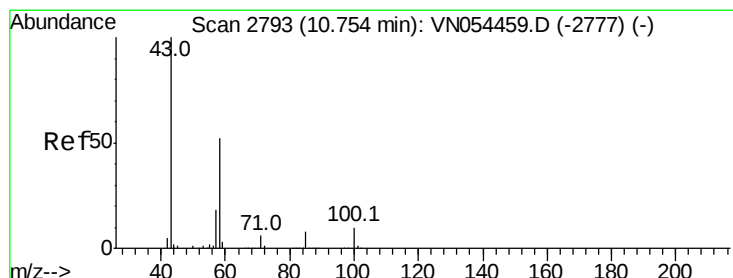
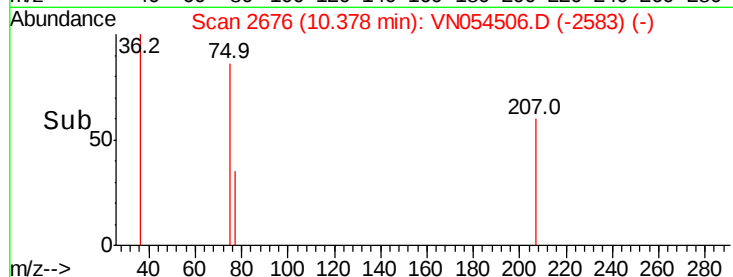
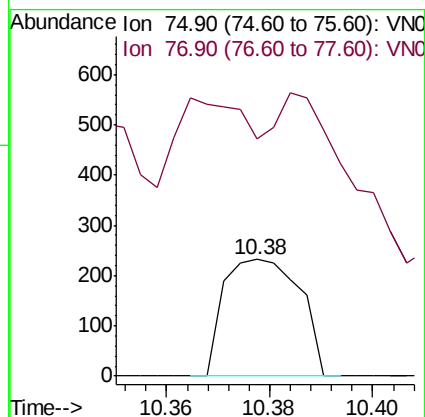
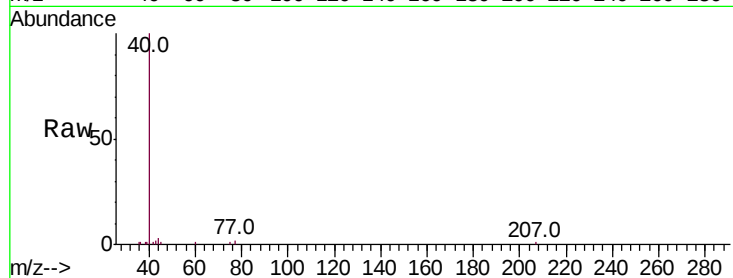
VN0321MBL01

Tot Ion: 75 Resp: 237

Ion Ratio Lower Upper

75 100

77 20.7 25.8 38.8#



#59

2-Hexanone

Concen: 0.956 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VN054506.D

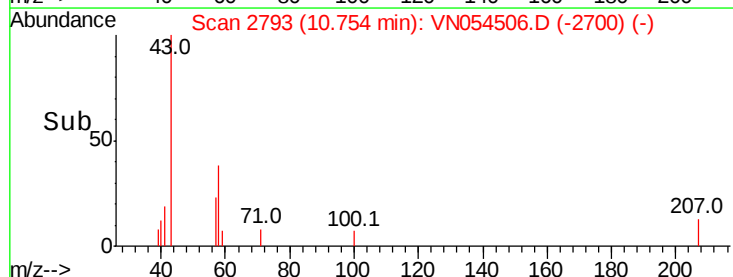
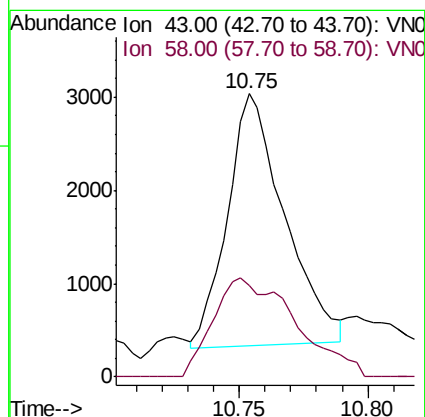
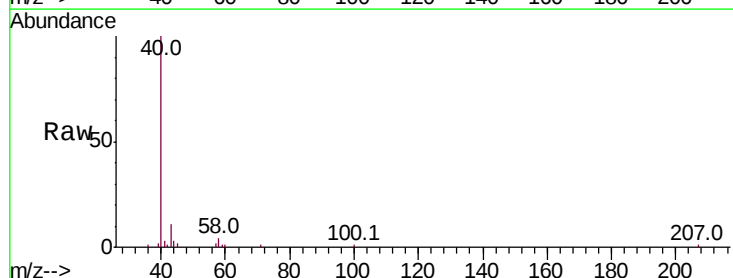
Acq: 21 Mar 2019 12:56

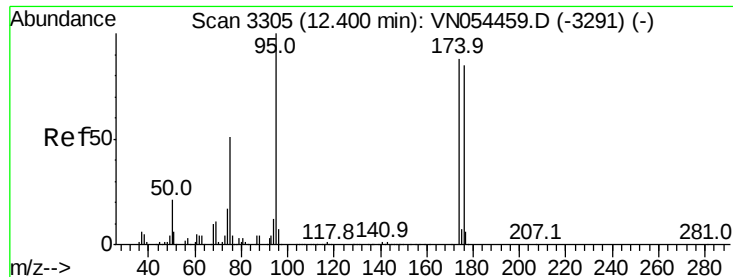
Tgt Ion: 43 Resp: 4154

Ion Ratio Lower Upper

43 100

58 57.0 28.0 83.9

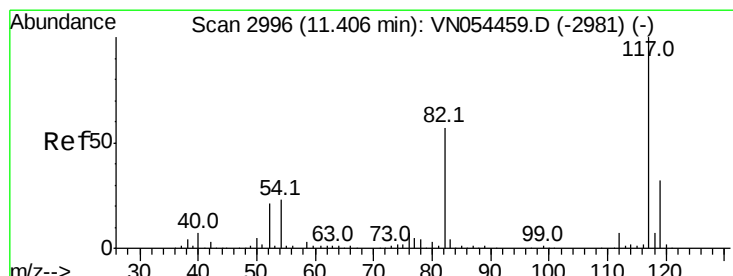
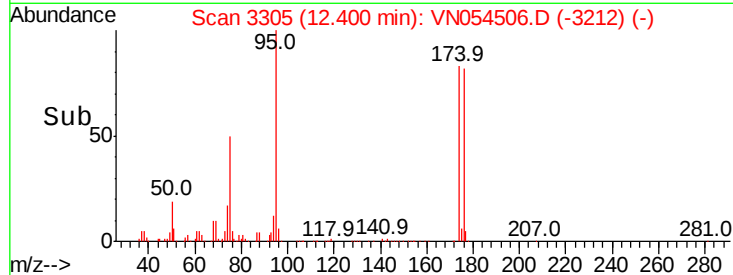
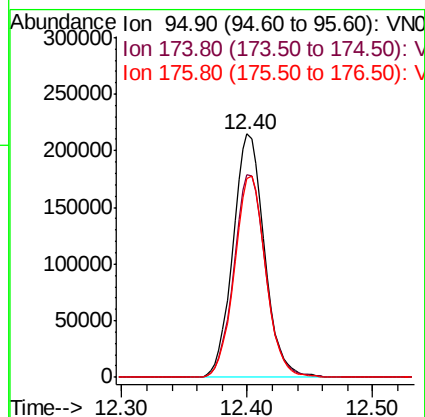
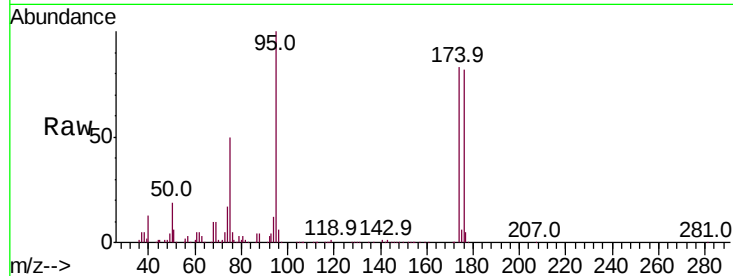




#62
4-Bromofluorobenzene
Concen: 42.389 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054506.D
Acq: 21 Mar 2019 12:56

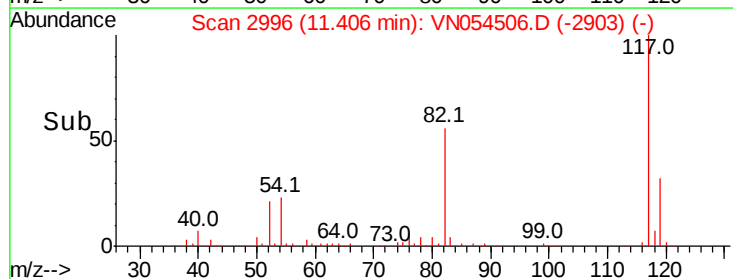
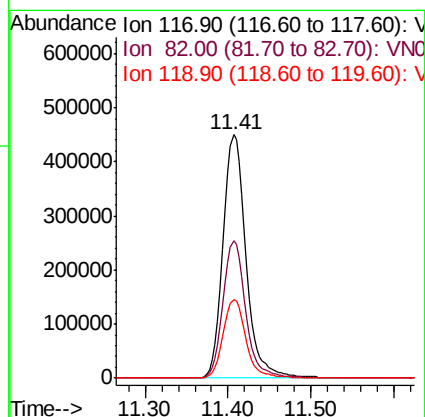
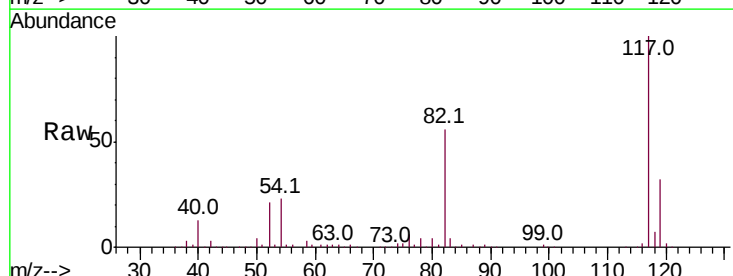
Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

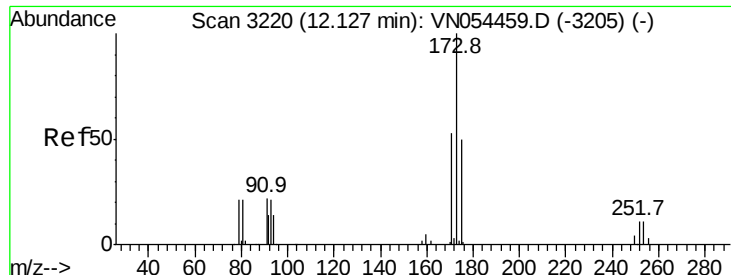
Tot Ion: 95 Resp: 373538
Ion Ratio Lower Upper
95 100
174 84.4 0.0 191.0
176 82.4 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054506.D
Acq: 21 Mar 2019 12:56

Tgt Ion: 117 Resp: 862808
Ion Ratio Lower Upper
117 100
82 56.5 40.0 60.0
119 32.4 25.8 38.6





#71

Bromoform

Concen: 2.488 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

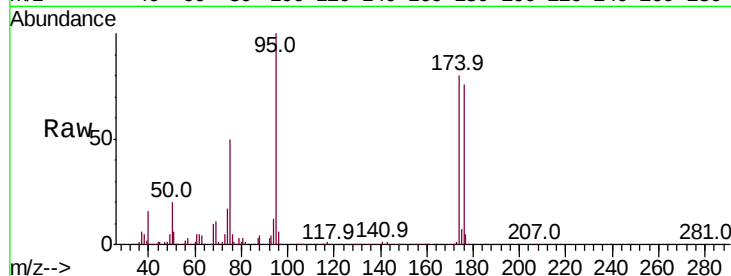
Tot Ion:173 Resp: 1218

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

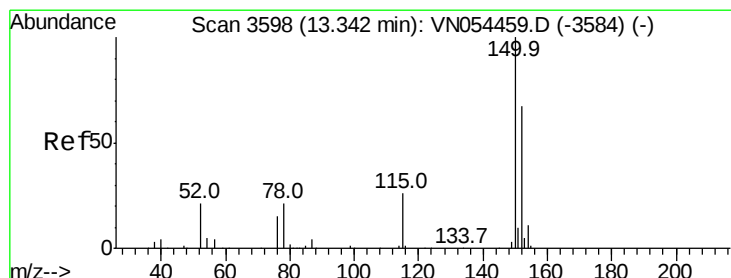
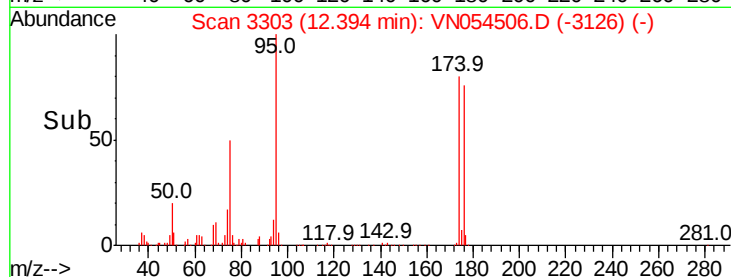
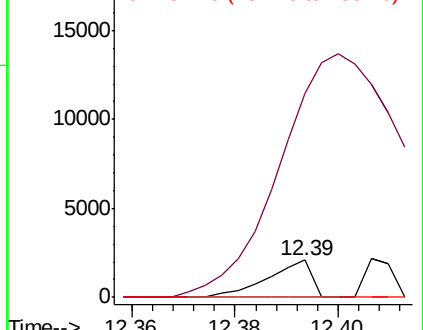
254 0.0 0.1 0.1#



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: VN054506.D

Acq: 21 Mar 2019 12:56

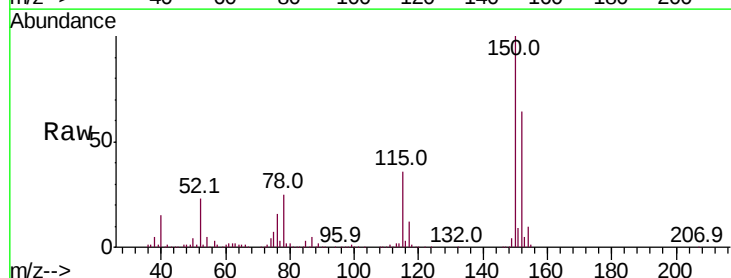
Tgt Ion:152 Resp: 300100

Ion Ratio Lower Upper

152 100

115 57.8 27.2 81.6

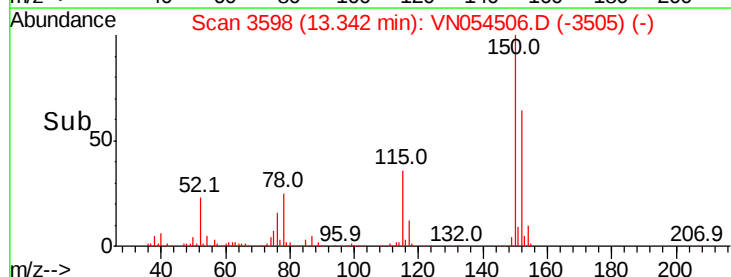
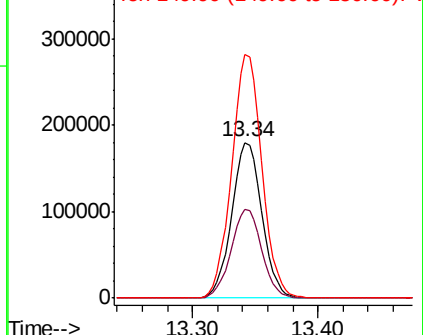
150 156.8 0.0 349.2

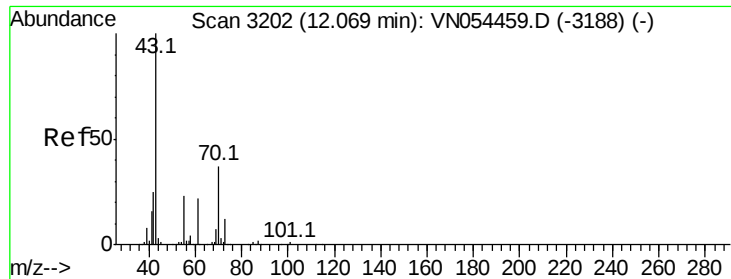


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 0.343 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

Tot Ion: 43 Resp: 2385

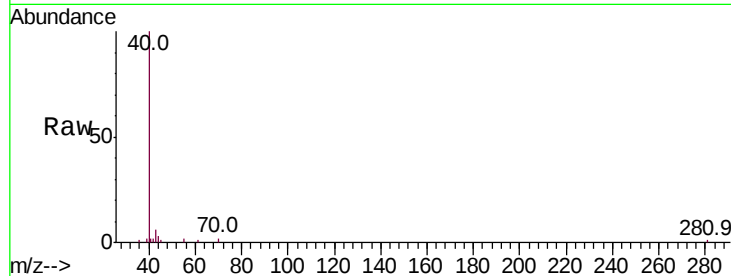
Ion Ratio Lower Upper

43 100

70 39.3 35.4 53.0

55 26.7 19.8 29.6

61 20.8 19.8 29.6

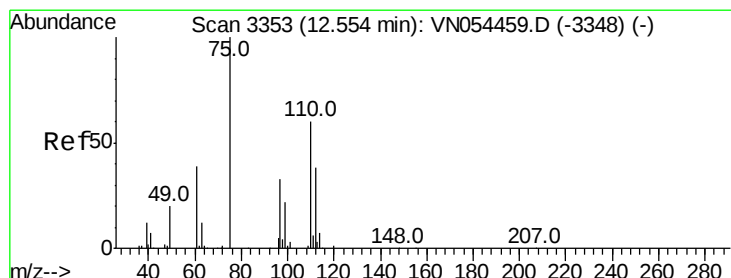
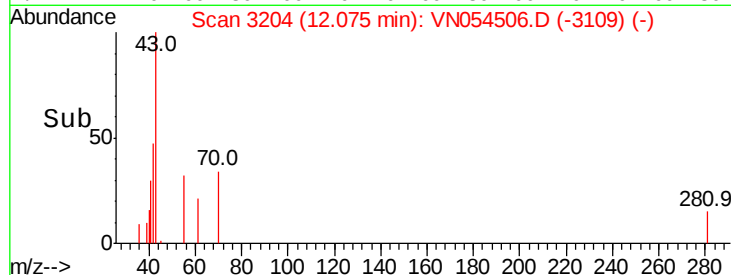
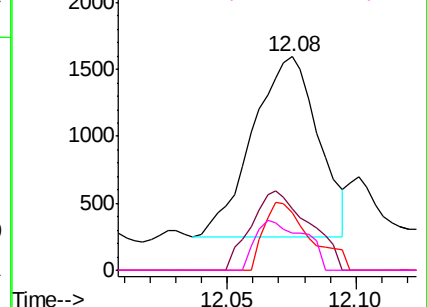


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 39.375 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054506.D

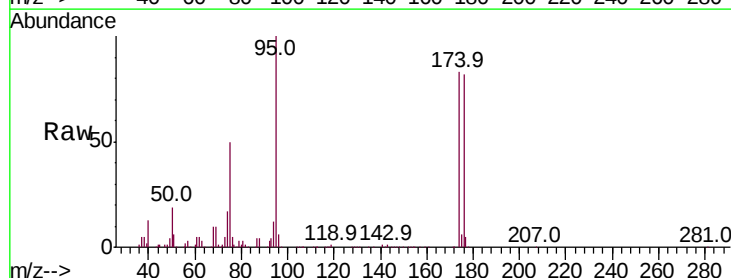
Acq: 21 Mar 2019 12:56

Tgt Ion: 75 Resp: 187508

Ion Ratio Lower Upper

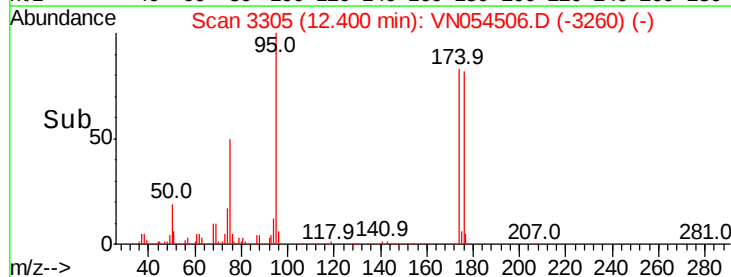
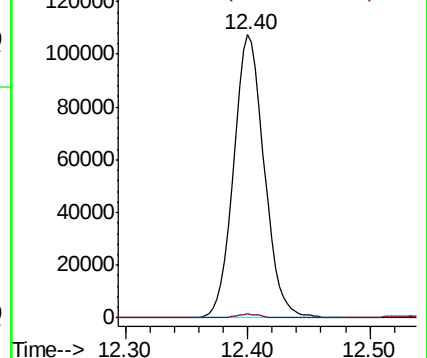
75 100

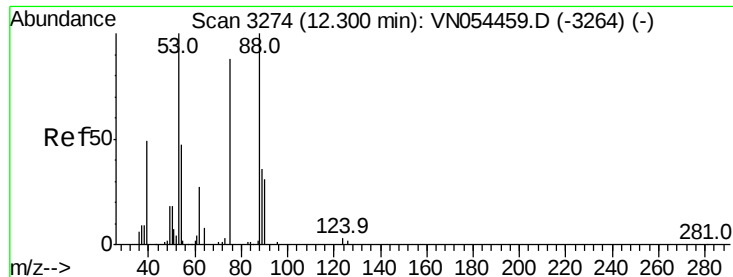
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

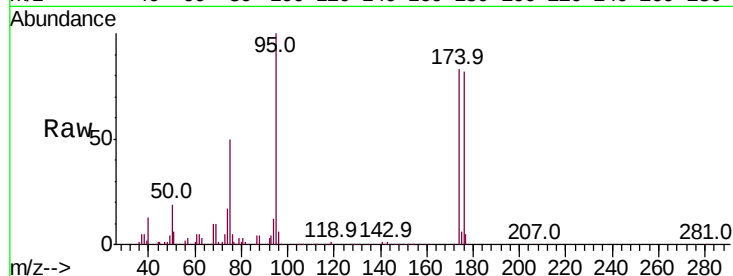




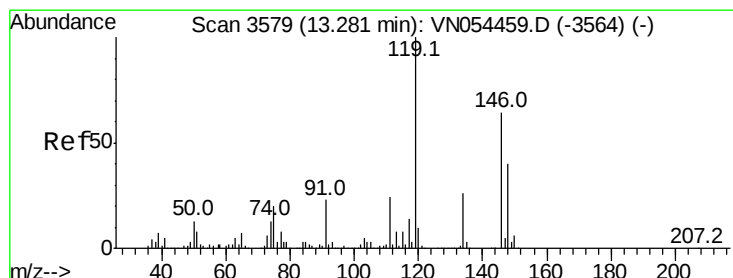
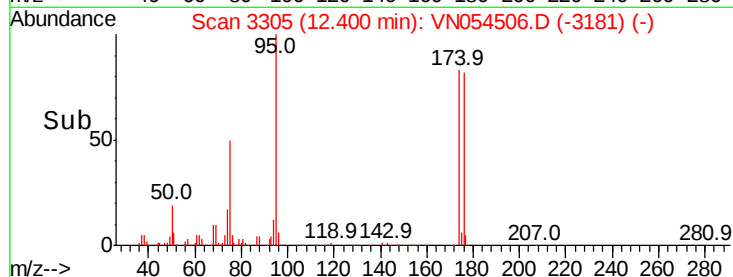
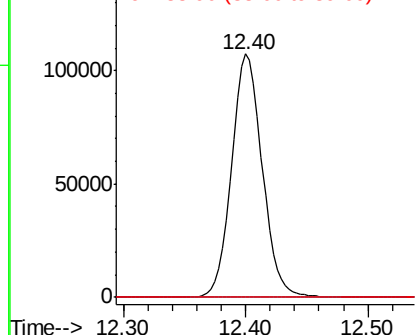
#81
trans-1,4-Dichloro-2-butene
Concen: 130.300 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054506.D
Acq: 21 Mar 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBL01

Tot Ion: 75 Resp: 187508
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#

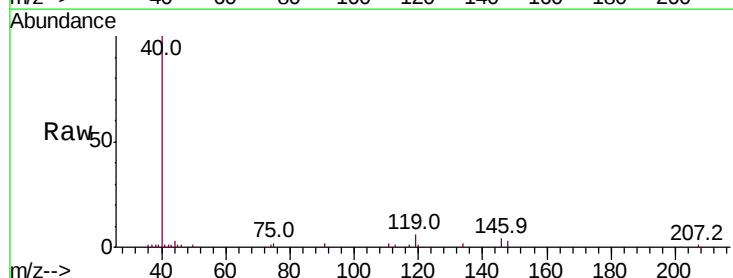


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

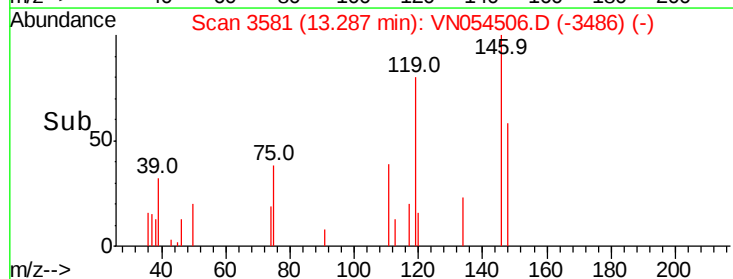
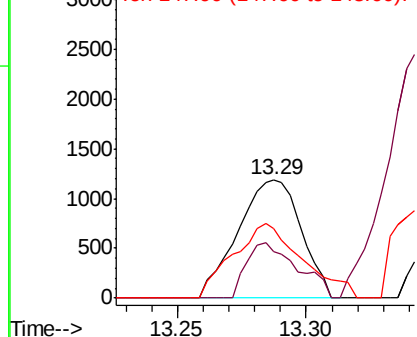


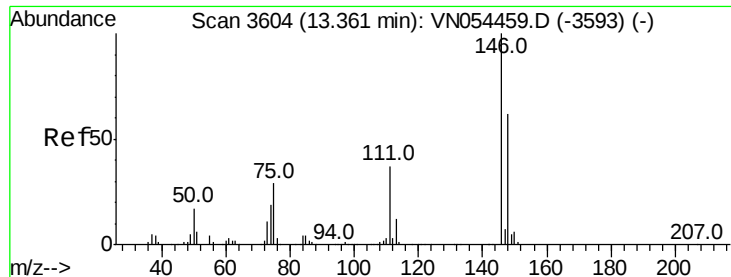
#87
1,3-Dichlorobenzene
Concen: 0.205 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.01 min
Lab File: VN054506.D
Acq: 21 Mar 2019 12:56

Tgt Ion: 146 Resp: 2034
Ion Ratio Lower Upper
146 100
111 37.9 18.8 56.3
148 69.3 32.2 96.6



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

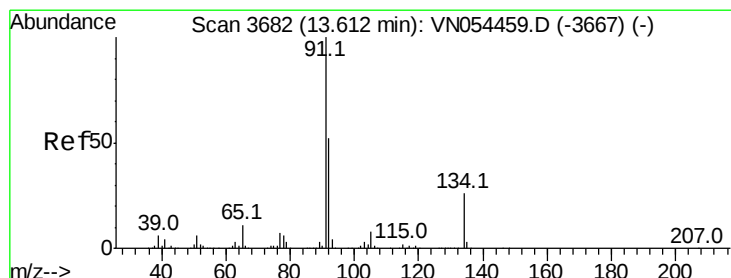
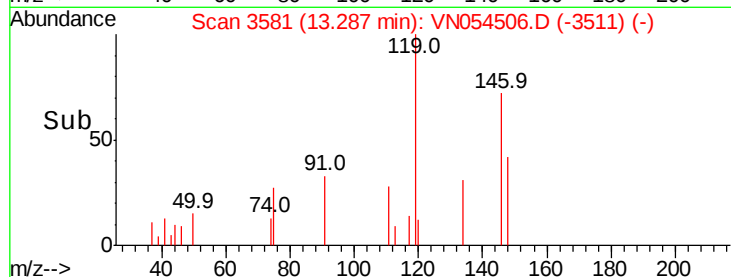
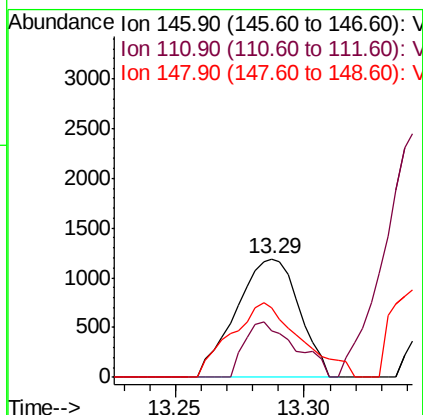
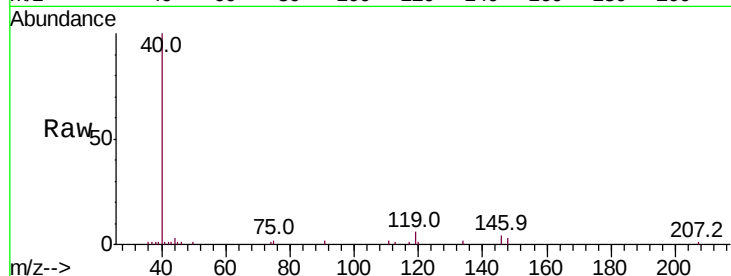




#88
 1,4-Dichlorobenzene
 Concen: 0.210 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.07 min
 Lab File: VN054506.D
 Acq: 21 Mar 2019 12:56

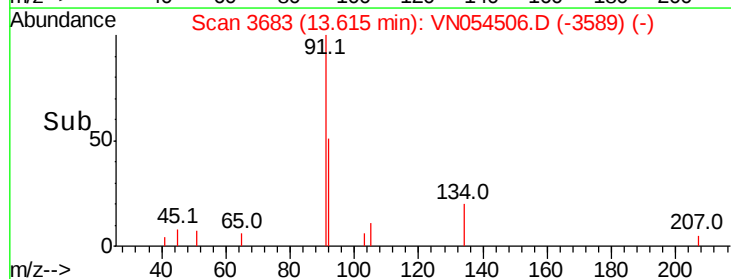
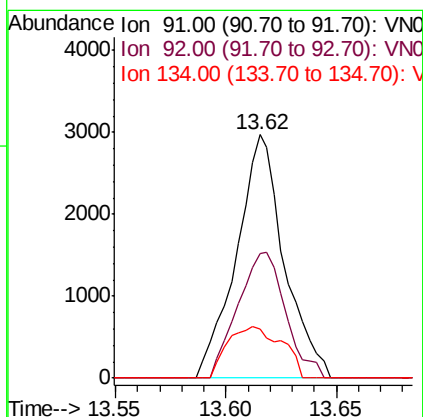
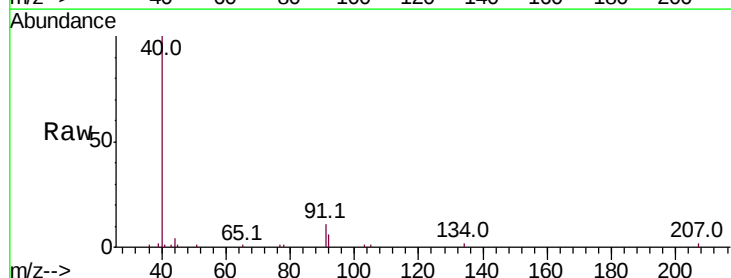
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBL01

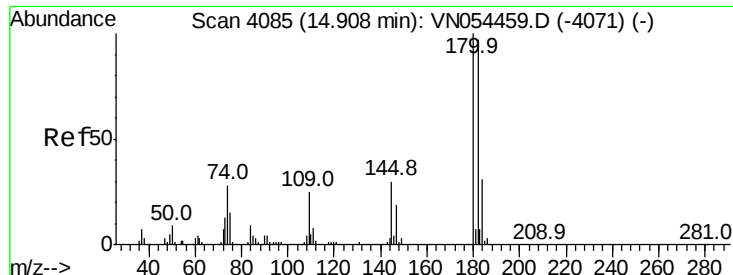
Tot Ion:146 Resp: 2034
 Ion Ratio Lower Upper
 146 100
 111 37.9 18.1 54.1
 148 69.3 32.0 96.0



#89
 n-Butylbenzene
 Concen: 0.296 ug/l
 RT: 13.62 min Scan# 3683
 Delta R.T. 0.00 min
 Lab File: VN054506.D
 Acq: 21 Mar 2019 12:56

Tgt Ion: 91 Resp: 4459
 Ion Ratio Lower Upper
 91 100
 92 51.5 26.2 78.6
 134 23.9 14.3 42.9





#93

1,2,4-Trichlorobenzene

Concen: 0.857 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

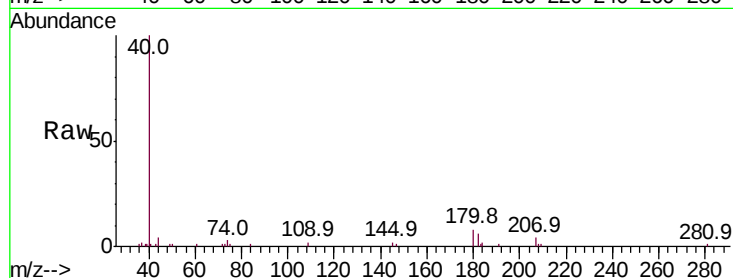
Tot Ion:180 Resp: 4113

Ion Ratio Lower Upper

180 100

182 78.4 48.0 144.2

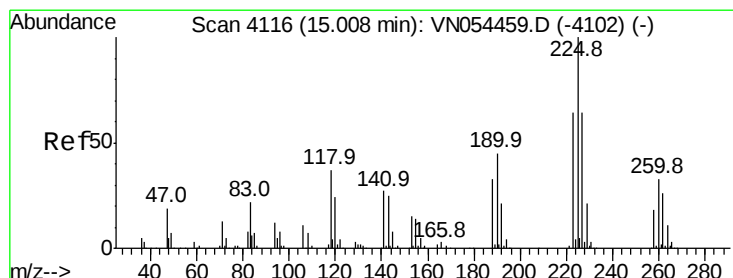
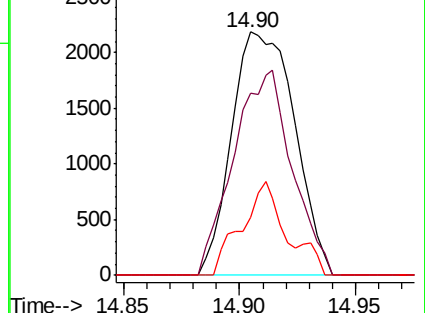
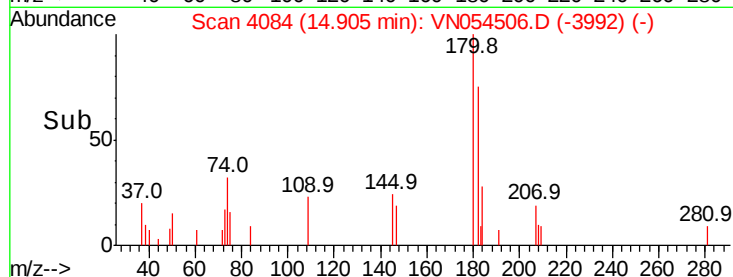
145 27.9 14.2 42.8



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



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

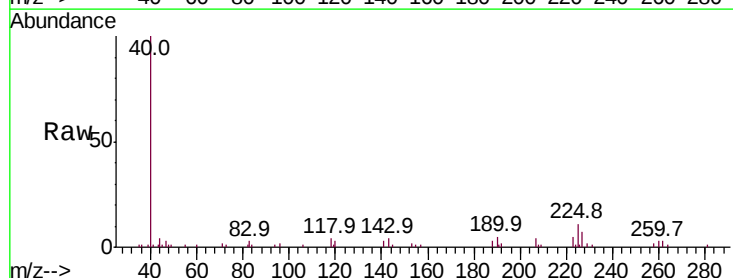
Tgt Ion:225 Resp: 4746

Ion Ratio Lower Upper

225 100

223 53.8 31.1 93.5

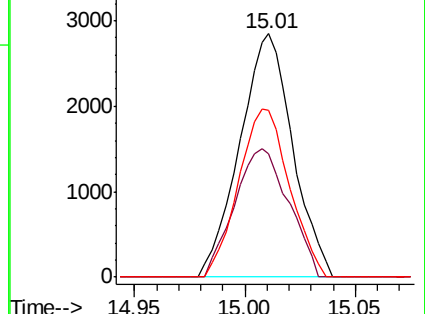
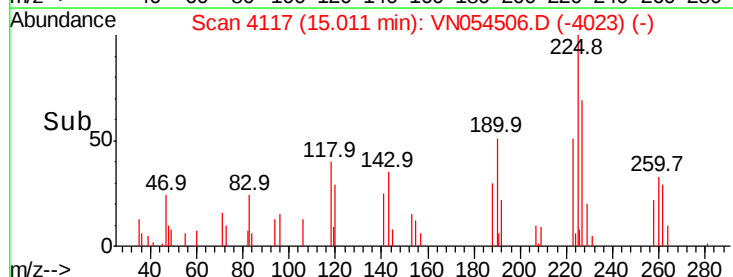
227 66.4 31.9 95.9

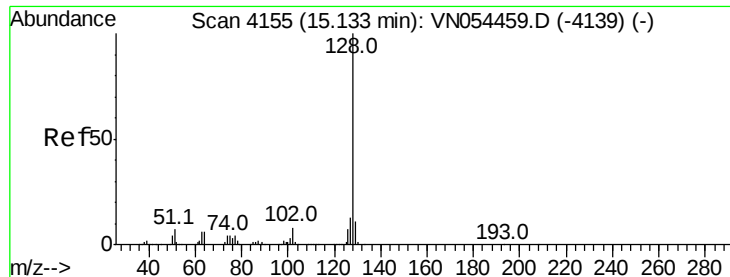


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.079 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBL01

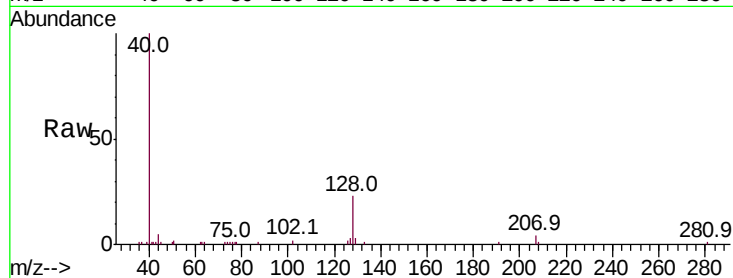
Tot Ion:128 Resp: 11554

Ion Ratio Lower Upper

128 100

127 11.3 10.1 15.1

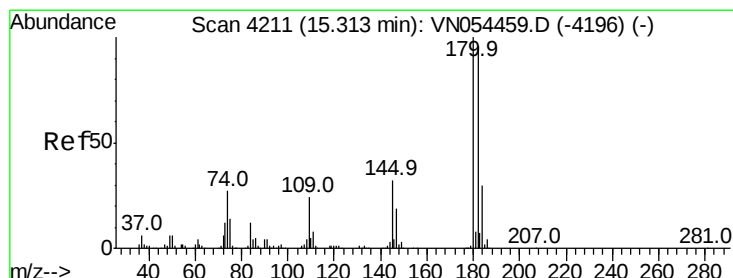
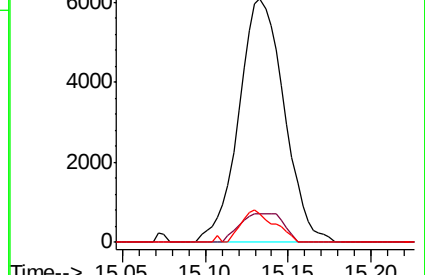
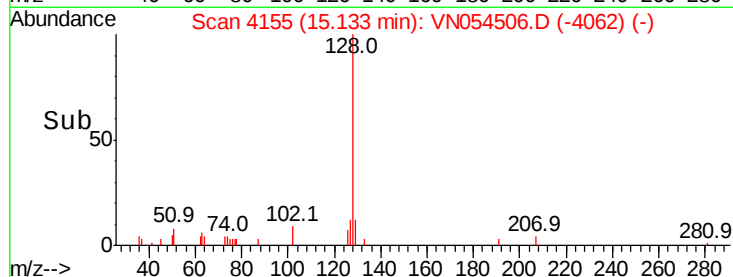
129 9.7 8.7 13.1



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: 0.919 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN054506.D

Acq: 21 Mar 2019 12:56

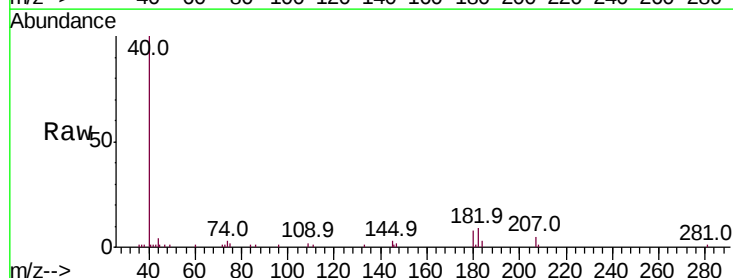
Tgt Ion:180 Resp: 4390

Ion Ratio Lower Upper

180 100

182 110.8 47.5 142.6

145 35.2 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

