

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061319\
 Data File : VN056274.D
 Acq On : 13 Jun 2019 12:21
 Operator : JC/SP
 Sample : VN0613WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 14 01:11:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	342991	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	563329	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	562422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	165424	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	193370	56.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.56%	
35) Dibromofluoromethane	7.59	113	176493	51.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.14%	
50) Toluene-d8	10.09	98	704116	52.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.88%	
62) 4-Bromofluorobenzene	12.40	95	225585	49.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.76%	

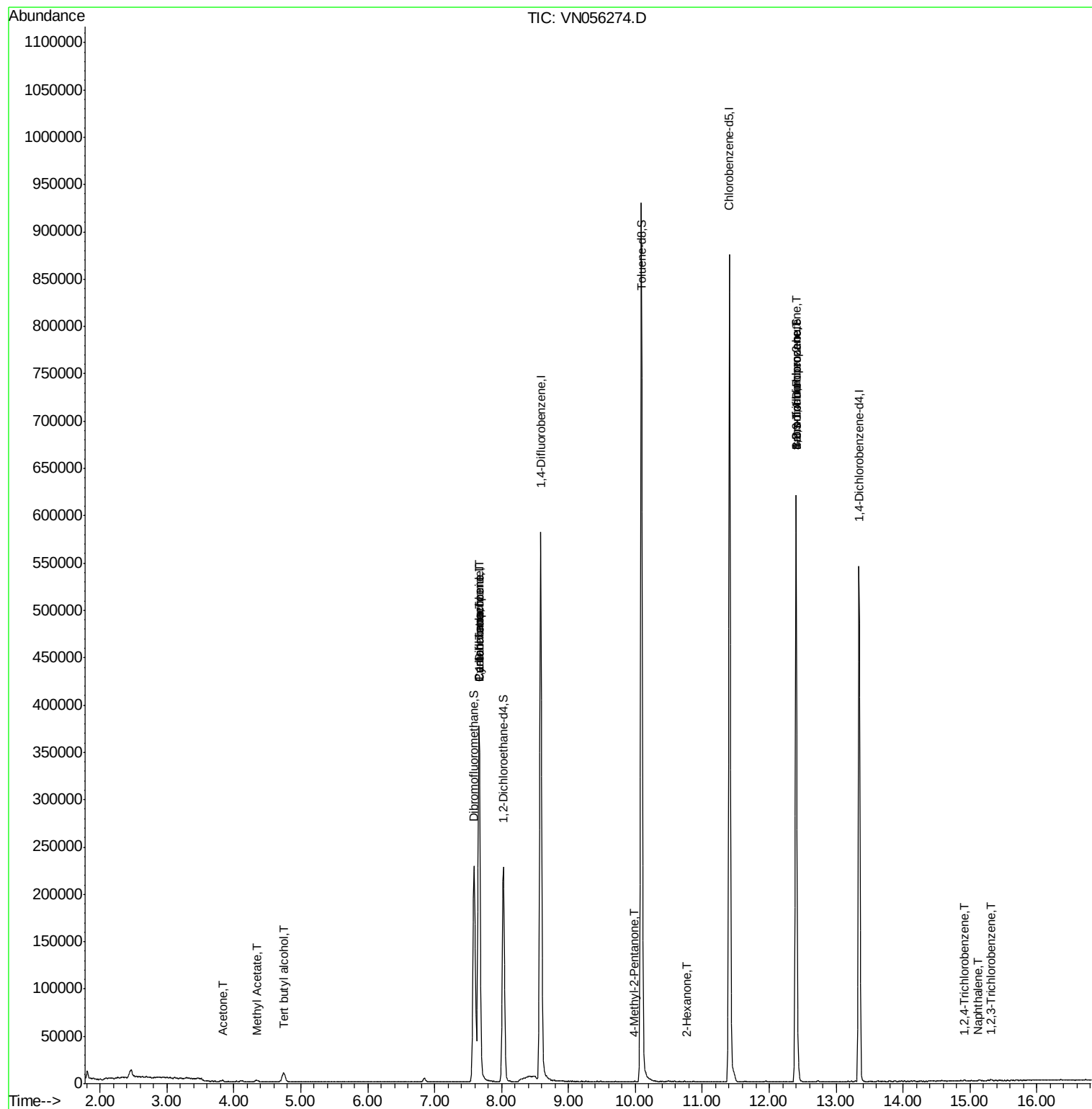
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	9292	15.679	ug/l #	74
16) Acetone	3.83	43	2064	1.267	ug/l #	84
18) Methyl Acetate	4.34	43	3597	0.553	ug/l #	79
31) Cyclohexane	7.66	56	5641	1.044	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21616	4.463	ug/l #	48
38) Carbon Tetrachloride	7.66	117	29965	6.710	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	990	0.227	ug/l #	35
59) 2-Hexanone	10.76	43	904	0.286	ug/l #	23
71) Bromoform	12.40	173	529	2.896	ug/l #	1
73) Isopropylbenzene	12.24	105	66	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	102602	33.708	ug/l #	100
79) 2-Chlorotoluene	12.59	91	421	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	102602	112.253	ug/l #	15
83) tert-Butylbenzene	12.99	119	154	Below Cal	#	45
93) 1,2,4-Trichlorobenzene	14.91	180	616	4.454	ug/l #	87
94) Hexachlorobutadiene	15.01	225	69	Below Cal	#	19
95) Naphthalene	15.14	128	1655	4.044	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	769	3.264	ug/l	94

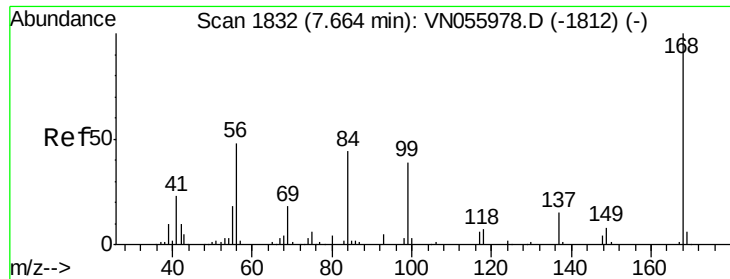
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056274.D

Acq: 13 Jun 2019 12:21

Instrument :

MSVOA_N

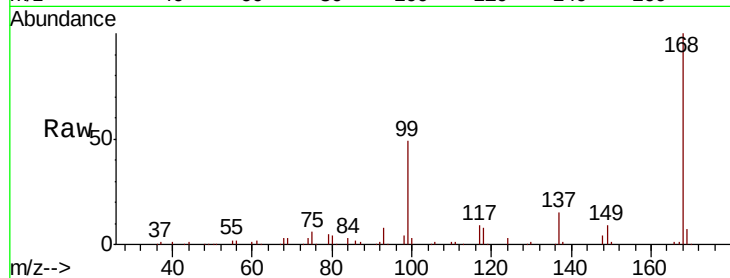
ClientSampleId :

Tot Ion:168 Resp: 342991

Ion Ratio Lower Upper

168 100

99 49.4 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

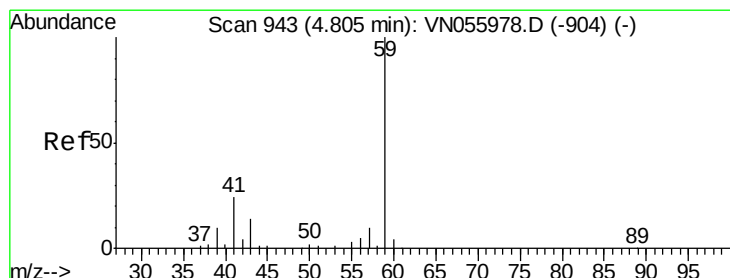
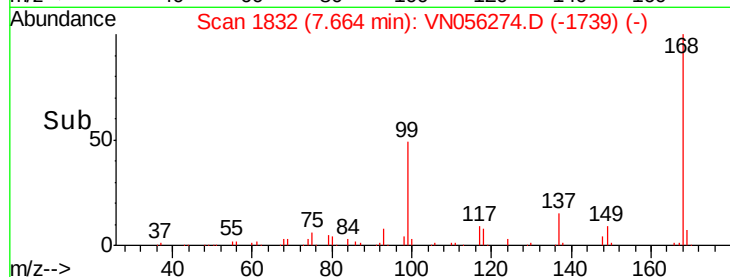
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 15.679 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.05 min

Lab File: VN056274.D

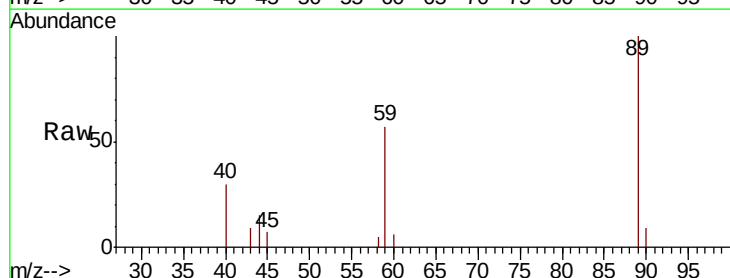
Acq: 13 Jun 2019 12:21

Tgt Ion: 59 Resp: 9292

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

3000

2500

2000

1500

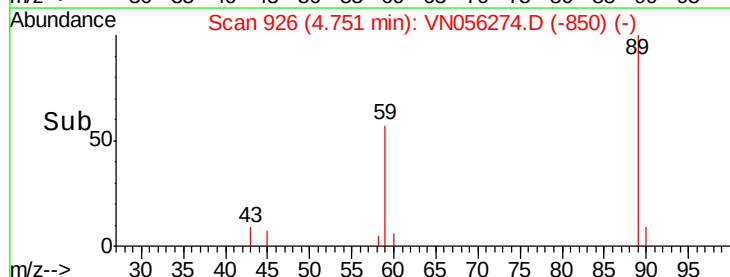
1000

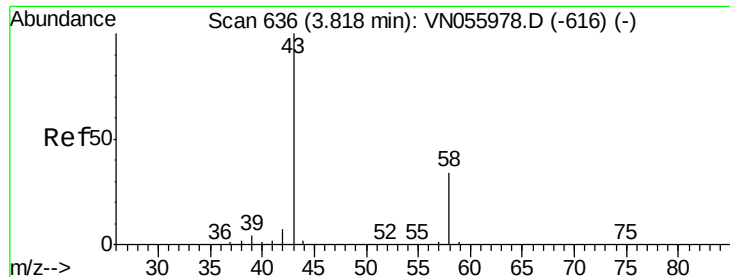
500

0

Time-->

4.65 4.70 4.75 4.80 4.85





#16

Acetone

Concen: 1.267 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056274.D

Acq: 13 Jun 2019 12:21

Instrument :

MSVOA_N

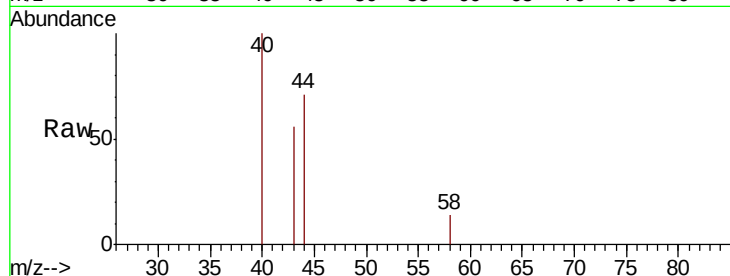
ClientSampled :

Tot Ion: 43 Resp: 2064

Ion Ratio Lower Upper

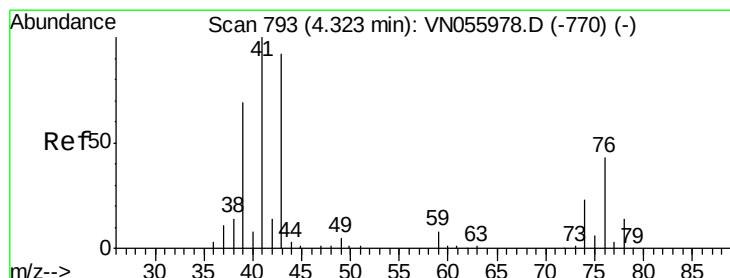
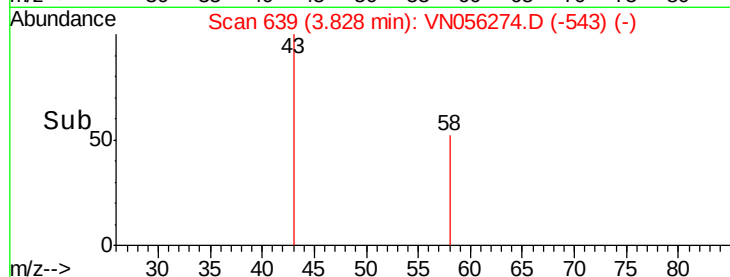
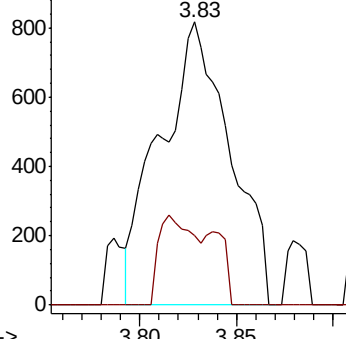
43 100

58 24.4 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.553 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN056274.D

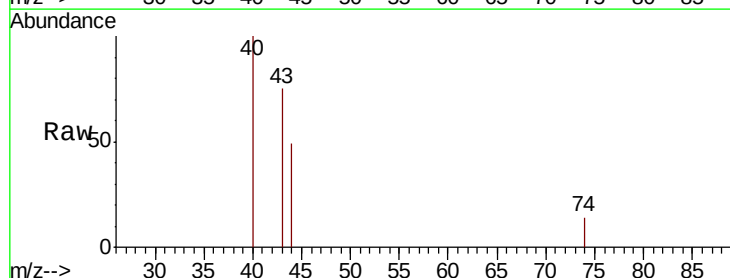
Acq: 13 Jun 2019 12:21

Tgt Ion: 43 Resp: 3597

Ion Ratio Lower Upper

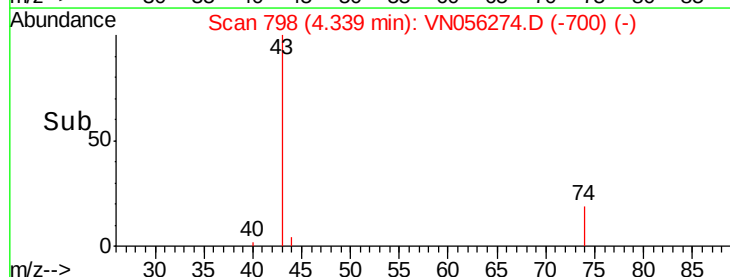
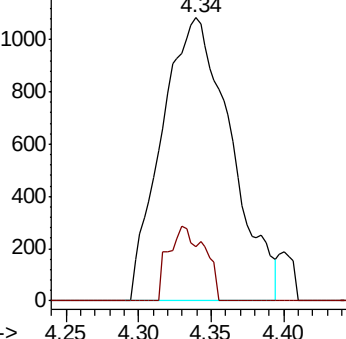
43 100

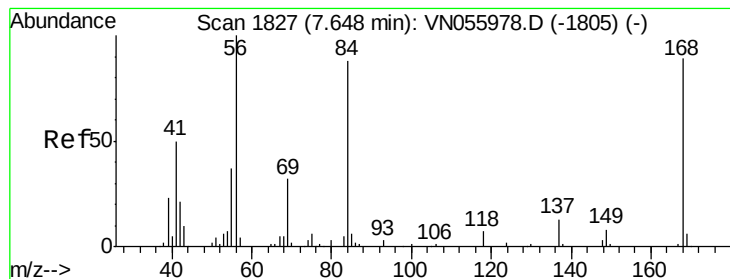
74 13.7 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: 1.044 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056274.D

Acq: 13 Jun 2019 12:21

Instrument :

MSVOA_N

ClientSampled :

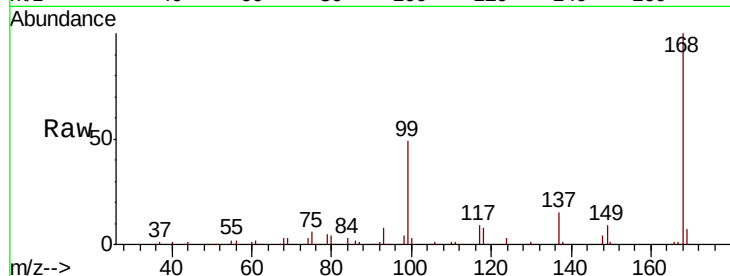
Tot Ion: 56 Resp: 5641

Ion Ratio Lower Upper

56 100

69 158.7 25.6 38.4#

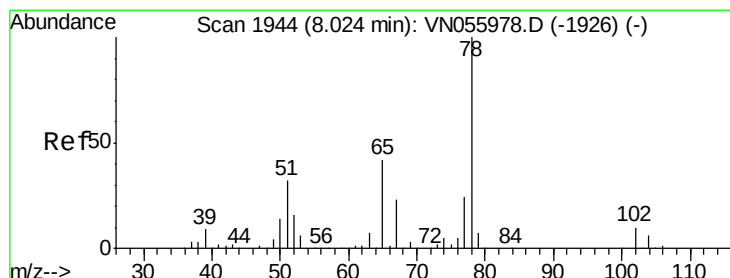
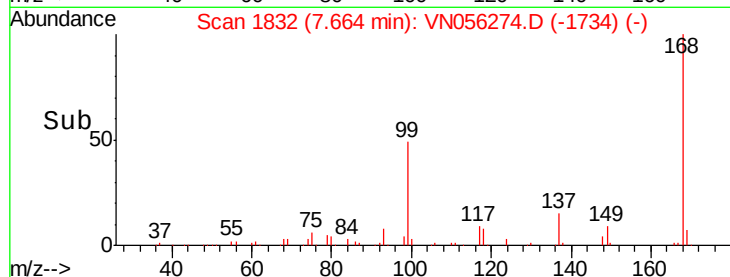
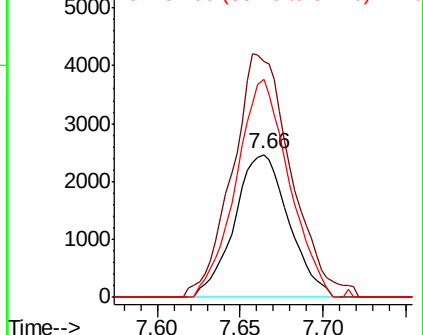
84 153.0 67.4 101.0#



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: 56.780 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056274.D

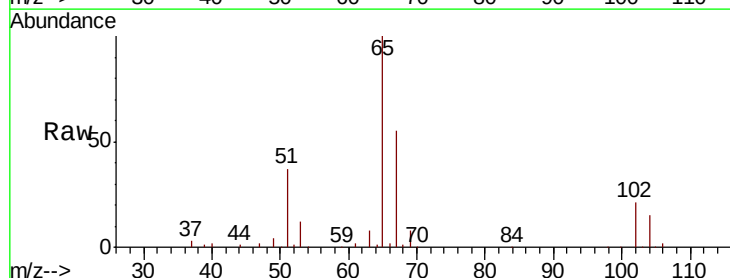
Acq: 13 Jun 2019 12:21

Tgt Ion: 65 Resp: 193370

Ion Ratio Lower Upper

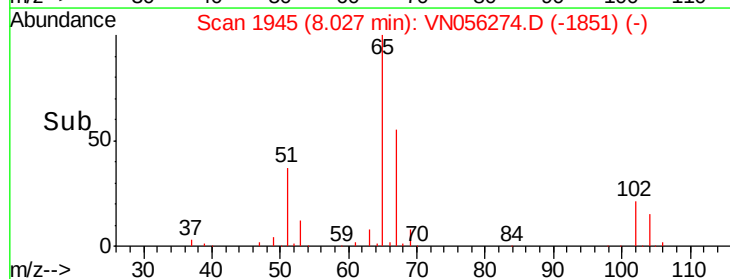
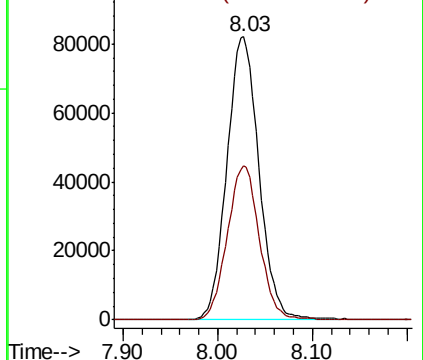
65 100

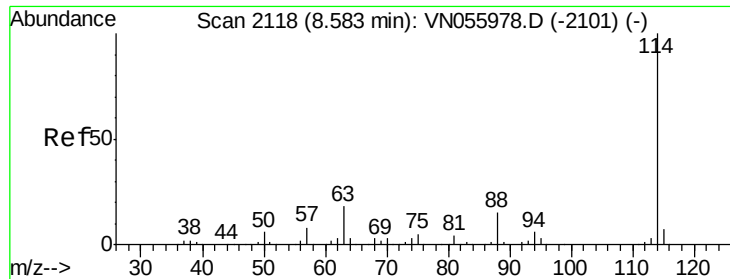
67 54.7 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

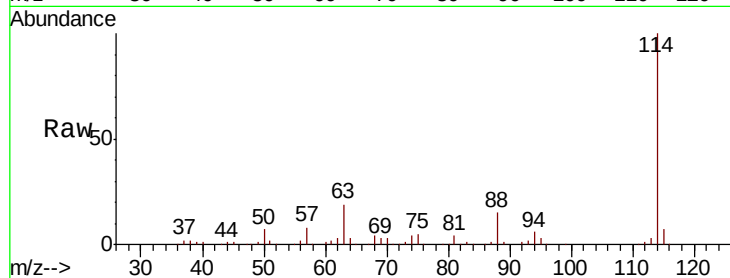




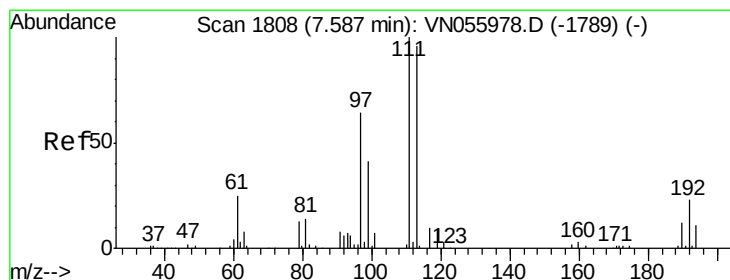
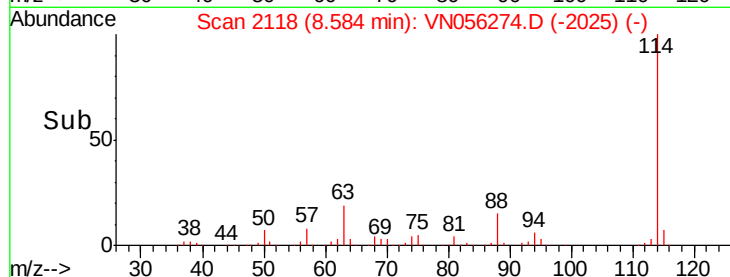
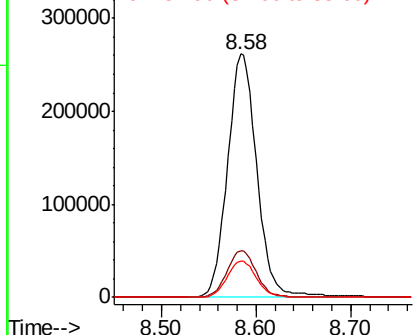
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN056274.D
Acq: 13 Jun 2019 12:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	39.2
88	15.0	0.0	31.0

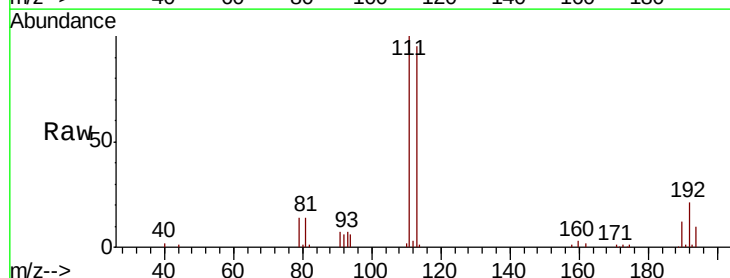


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

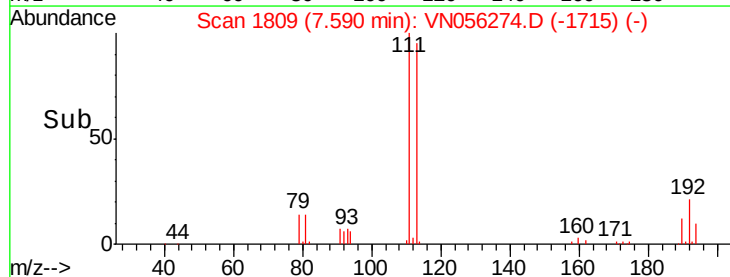
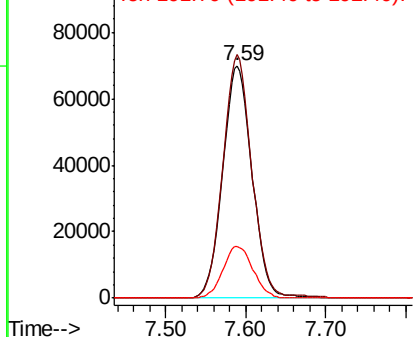


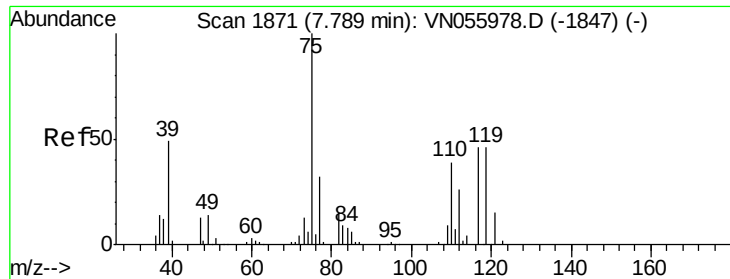
#35
Dibromofluoromethane
Concen: 51.065 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056274.D
Acq: 13 Jun 2019 12:21

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.9	122.9
192	22.8	19.5	29.3



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

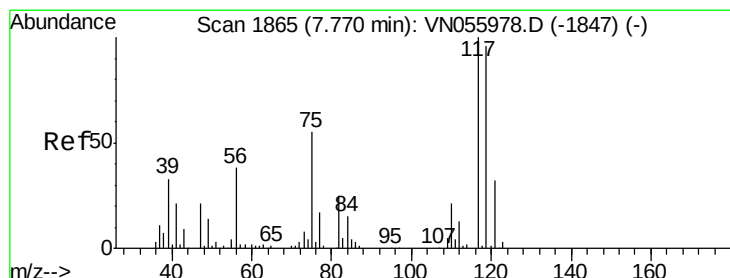
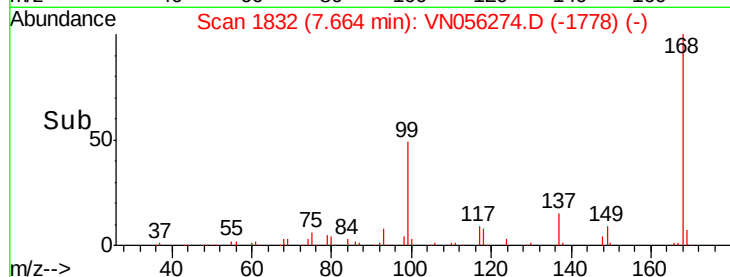
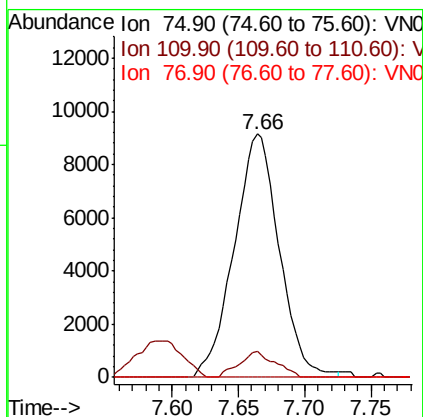
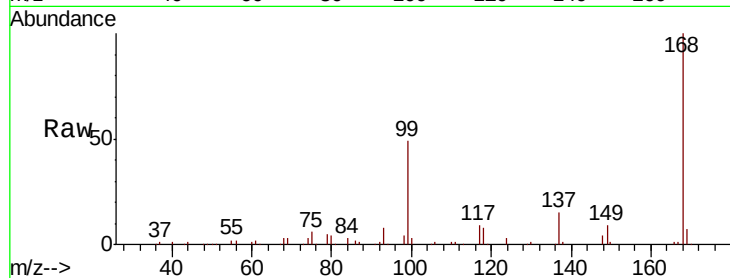




#36
 1,1-Dichloropropene
 Concen: 4.463 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056274.D
 Acq: 13 Jun 2019 12:21

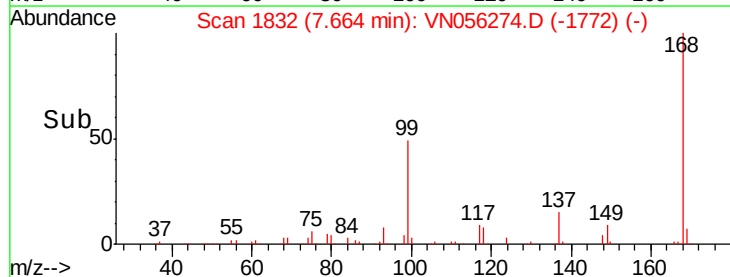
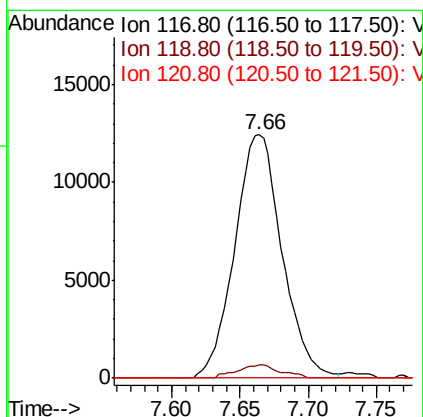
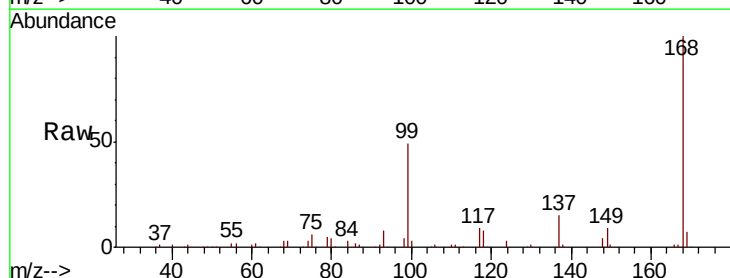
Instrument :
 MSVOA_N
 ClientSampleId :

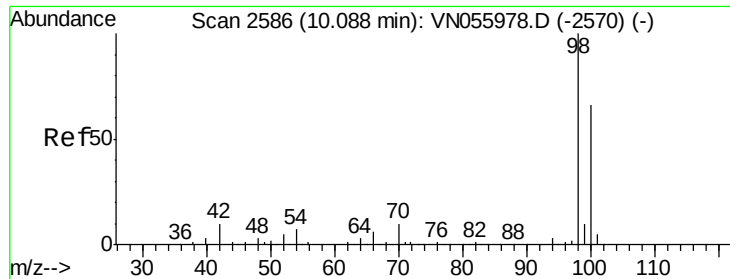
Tot Ion	75	Resp	21616
Ion Ratio	Lower	Upper	
75	100		
110	8.5	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.710 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056274.D
 Acq: 13 Jun 2019 12:21

Tgt Ion	117	Resp	29965
Ion Ratio	Lower	Upper	
117	100		
119	5.2	79.0	118.6#
121	0.0	24.7	37.1#





#50

Toluene-d8

Concen: 52.943 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056274.D

Acq: 13 Jun 2019 12:21

Instrument :

MSVOA_N

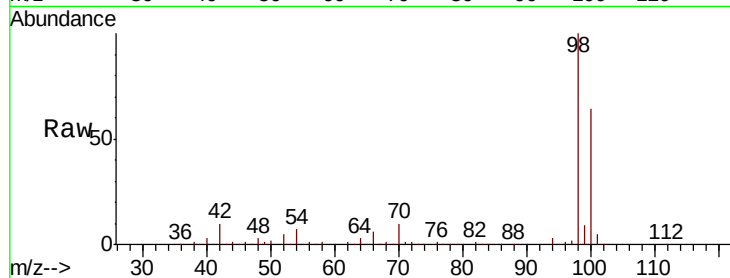
ClientSampled :

Tot Ion: 98 Resp: 704116

Ion Ratio Lower Upper

98 100

100 64.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

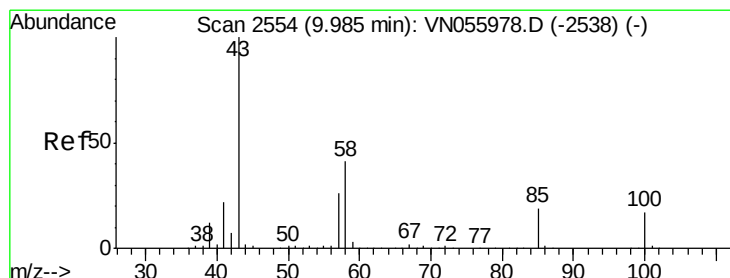
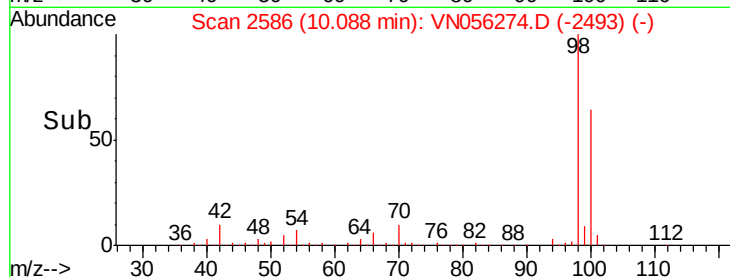
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.227 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN056274.D

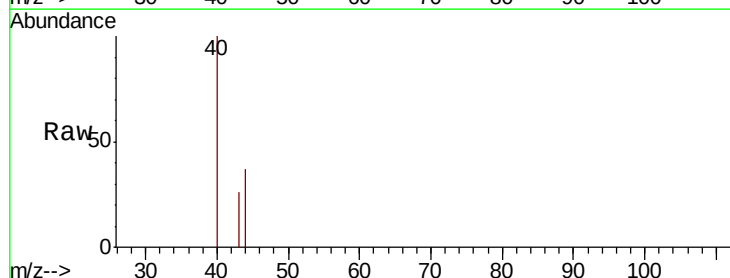
Acq: 13 Jun 2019 12:21

Tgt Ion: 43 Resp: 990

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

500

400

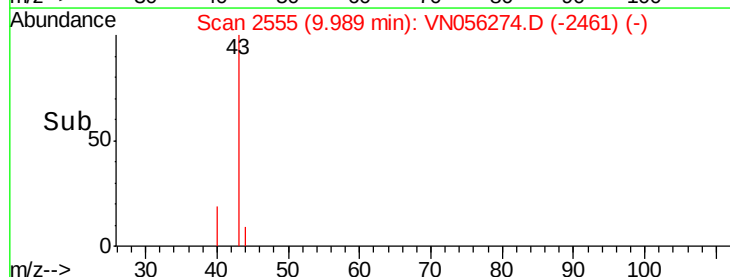
300

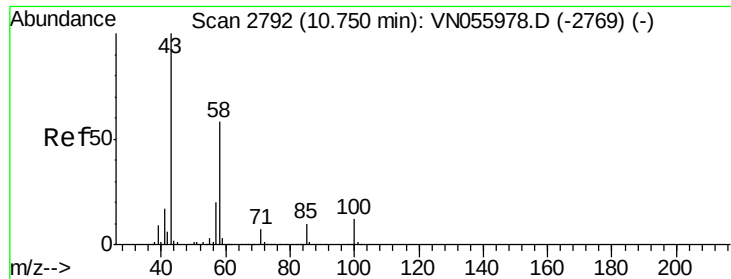
200

100

0

Time-->

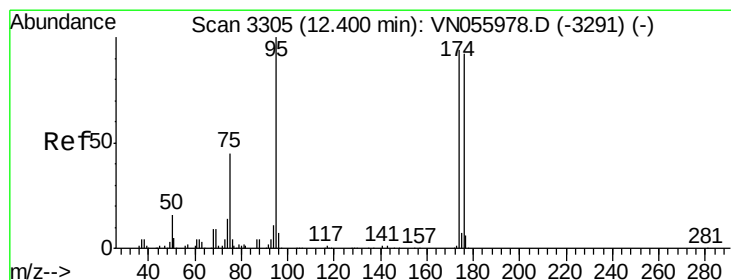
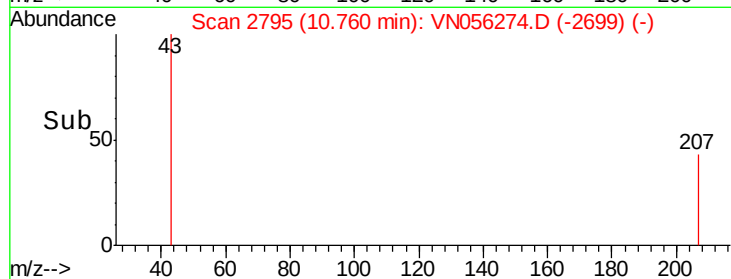
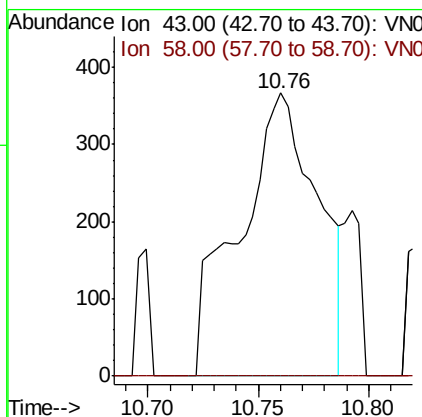
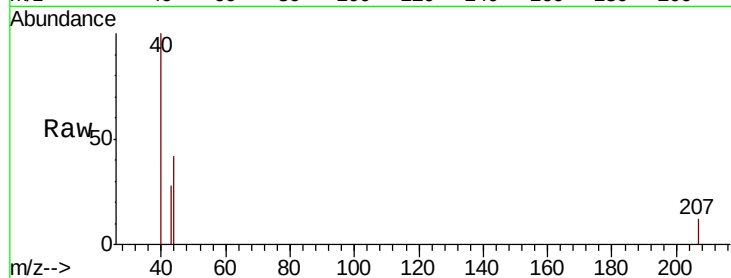




#59
2-Hexanone
Concen: 0.286 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN056274.D
Acq: 13 Jun 2019 12:21

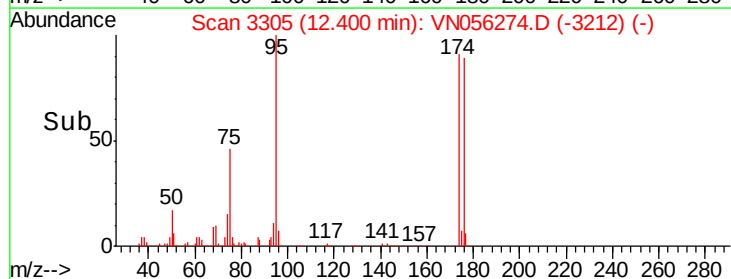
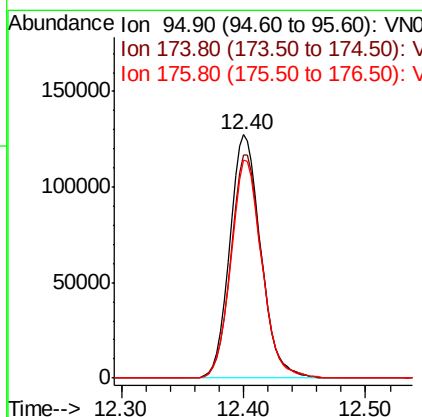
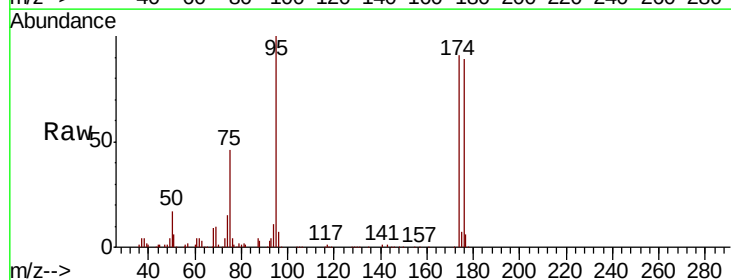
Instrument :
MSVOA_N
ClientSampled :

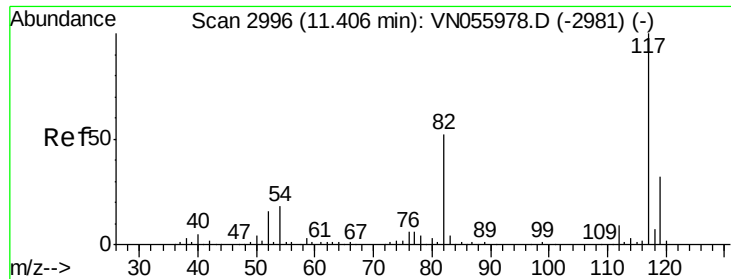
Tot Ion: 43 Resp: 904
Ion Ratio Lower Upper
43 100
58 0.0 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 49.877 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056274.D
Acq: 13 Jun 2019 12:21

Tgt Ion: 95 Resp: 225585
Ion Ratio Lower Upper
95 100
174 91.3 0.0 191.0
176 89.0 0.0 185.2

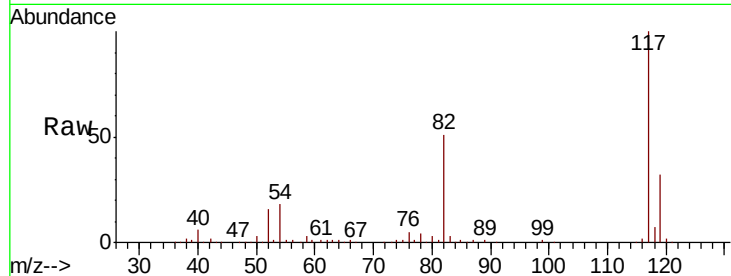




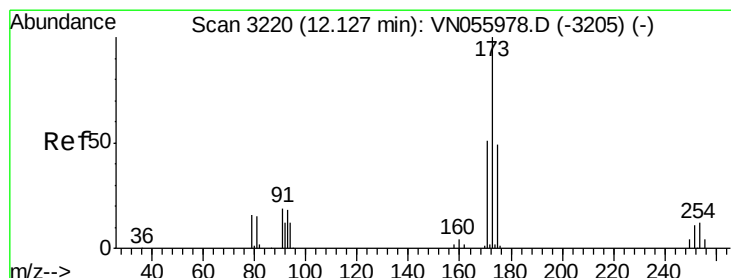
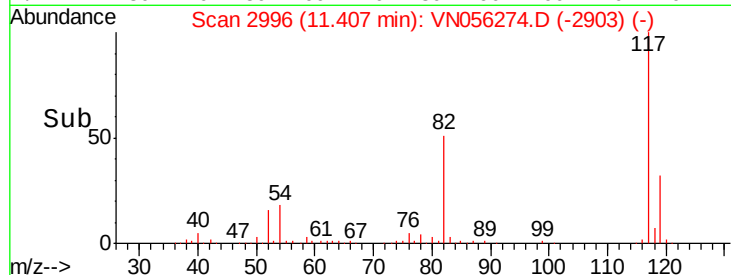
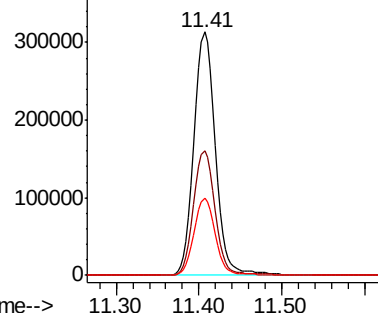
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056274.D
Acq: 13 Jun 2019 12:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 562422
Ion Ratio Lower Upper
117 100
82 51.0 41.8 62.8
119 31.5 25.4 38.0

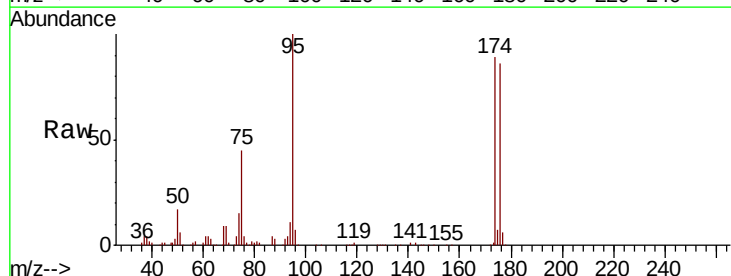


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

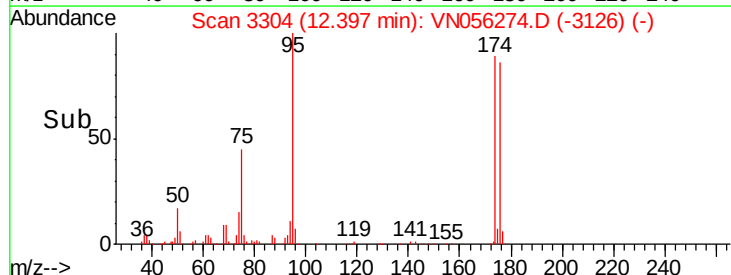
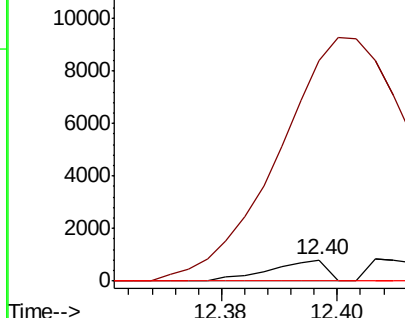


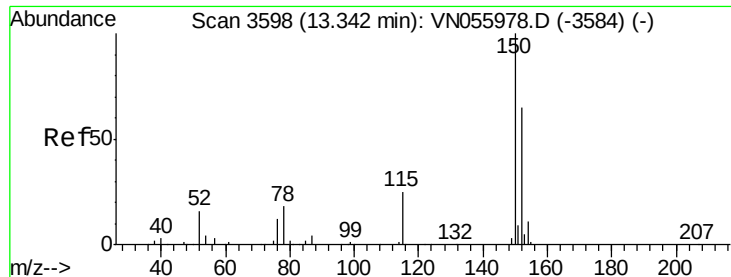
#71
Bromoform
Concen: 2.896 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN056274.D
Acq: 13 Jun 2019 12:21

Tgt Ion:173 Resp: 529
Ion Ratio Lower Upper
173 100
175 2518.0 24.3 72.8#
254 0.0 0.0 0.0



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



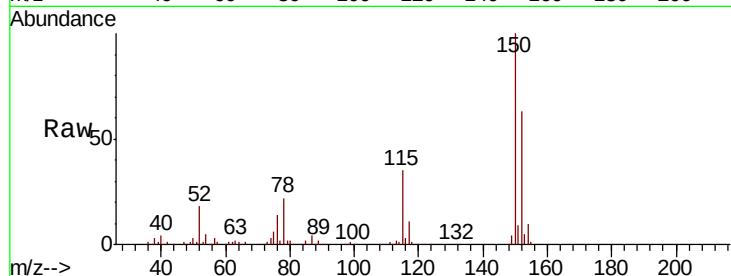


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056274.D
Acq: 13 Jun 2019 12:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.5	27.0	81.0
150	158.6	0.0	343.2

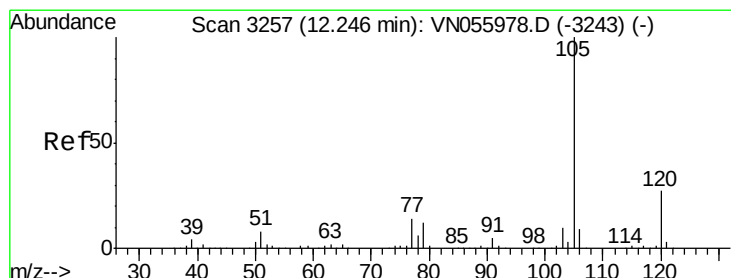
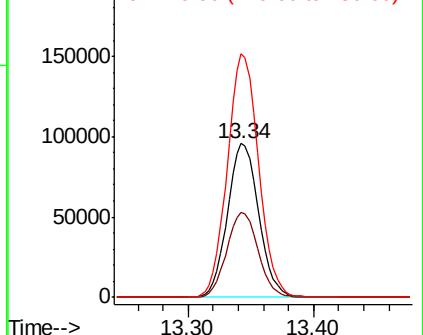
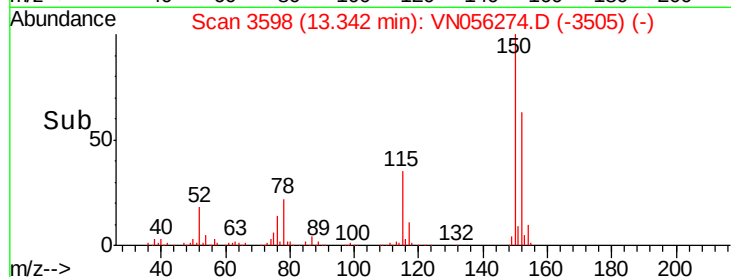


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

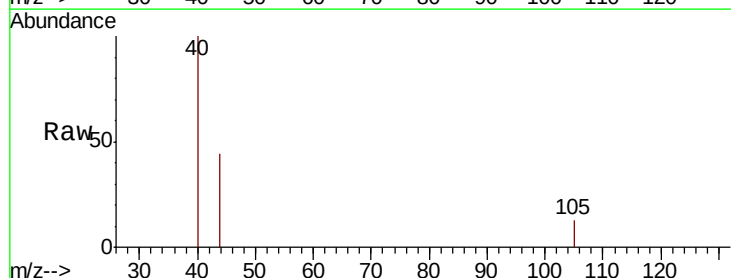
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene
Concen: Below Cal
RT: 12.24 min Scan# 3256
Delta R.T. -0.00 min
Lab File: VN056274.D
Acq: 13 Jun 2019 12:21

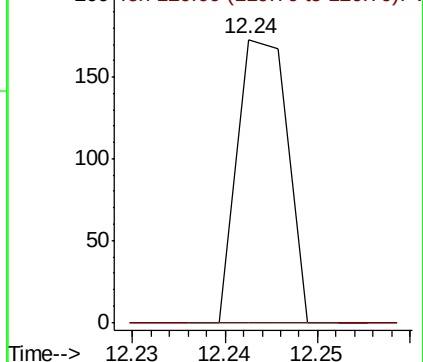
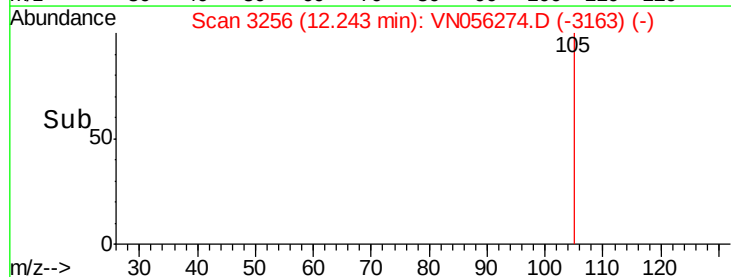
Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.6	40.7#

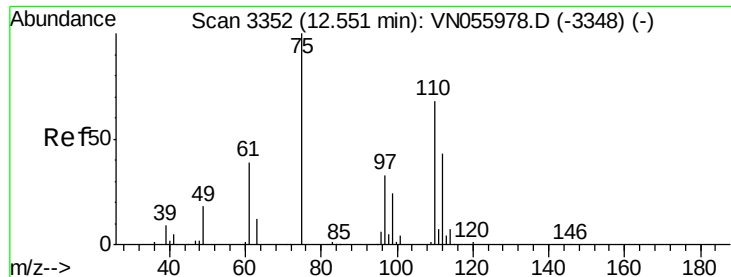


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 33.708 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056274.D

Acq: 13 Jun 2019 12:21

Instrument :

MSVOA_N

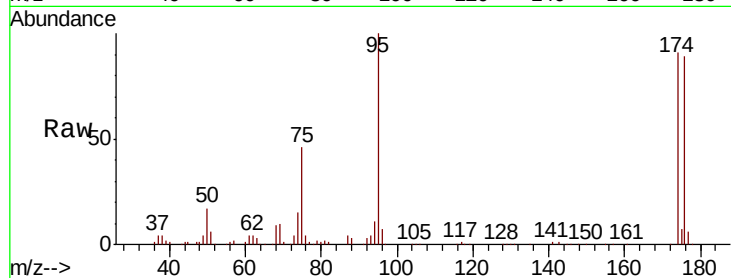
ClientSampled :

Tot Ion: 75 Resp: 102602

Ion Ratio Lower Upper

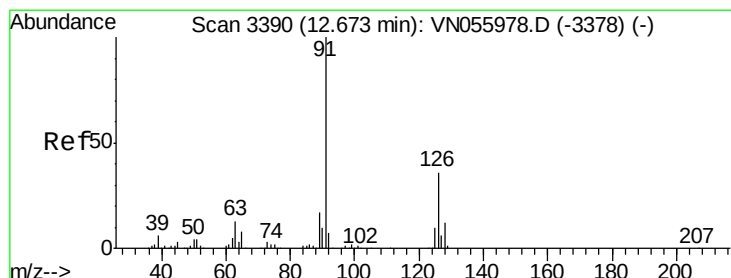
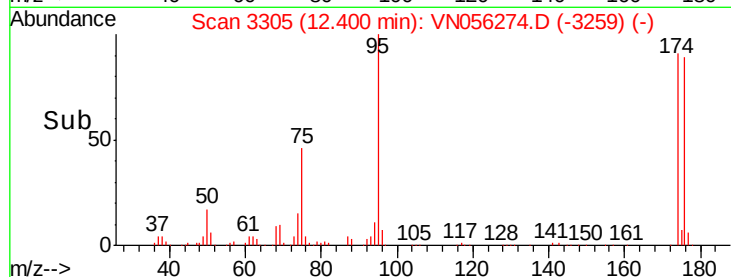
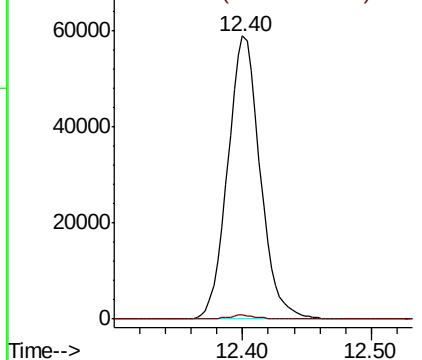
75 100

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



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN056274.D

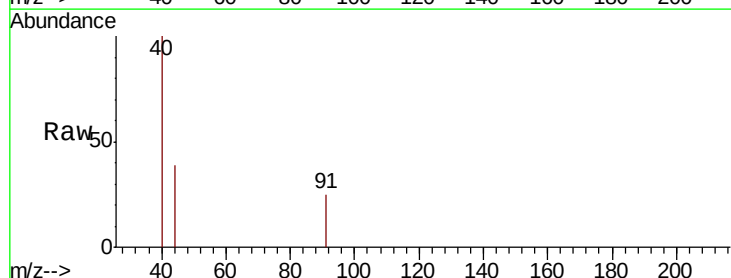
Acq: 13 Jun 2019 12:21

Tgt Ion: 91 Resp: 421

Ion Ratio Lower Upper

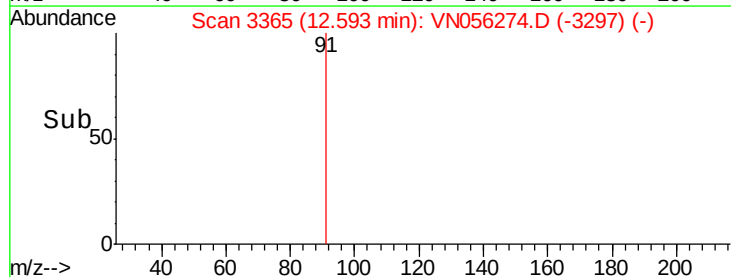
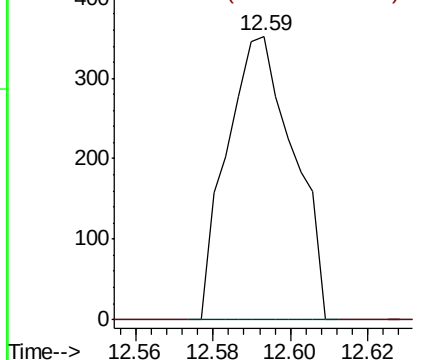
91 100

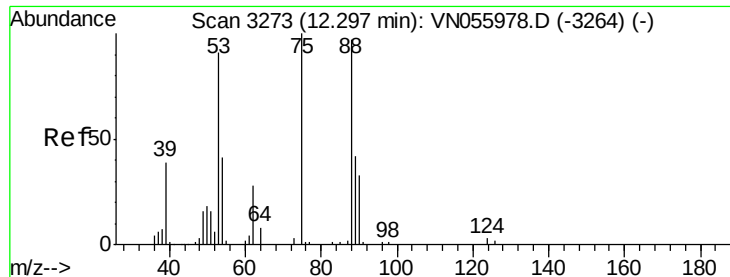
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

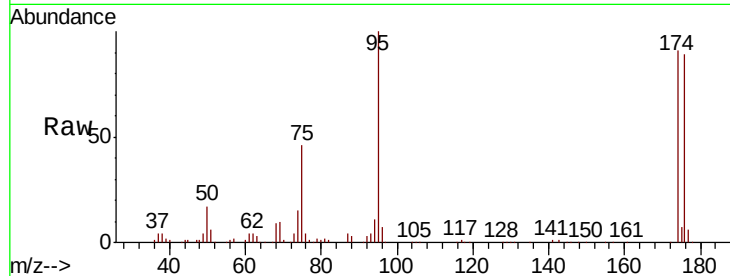




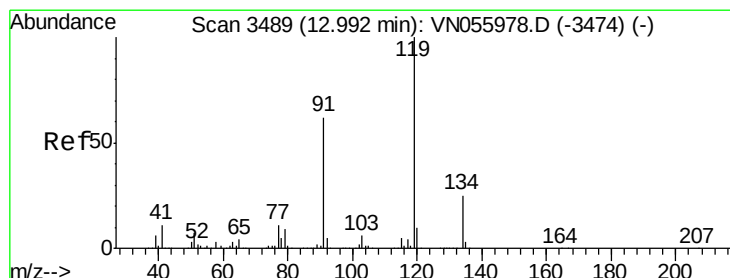
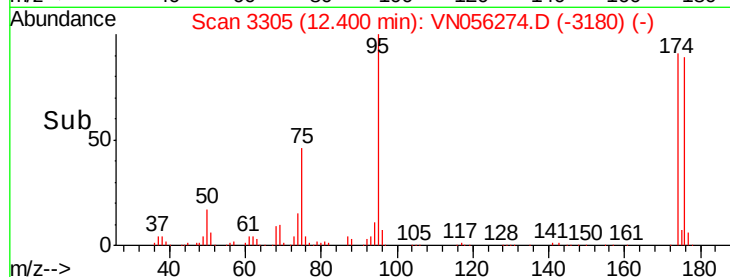
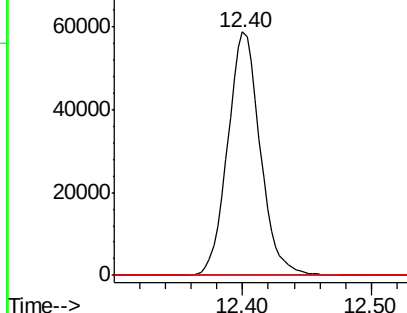
#81
 trans-1,4-Dichloro-2-butene
 Concen: 112.253 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056274.D
 Acq: 13 Jun 2019 12:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	68.1	102.1#
89	0.0	36.9	55.3#

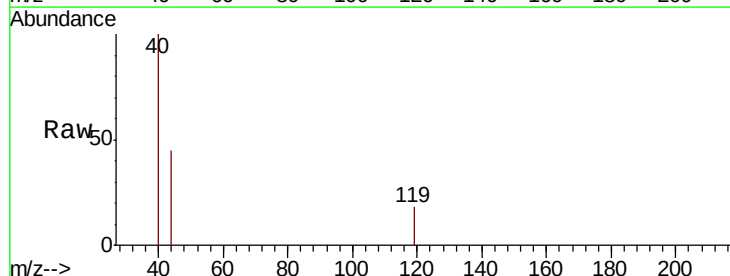


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 53.00 (52.70 to 53.70): VN0
 Ion 88.90 (88.60 to 89.60): VN0

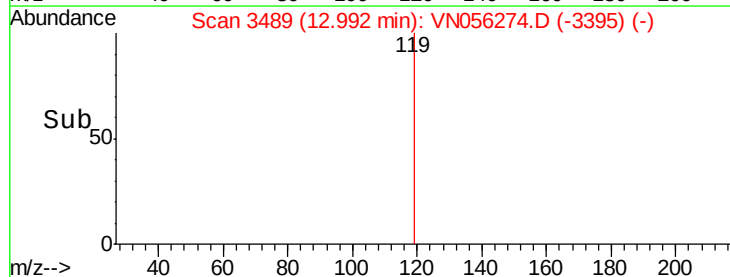
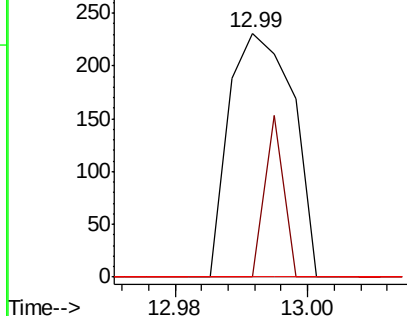


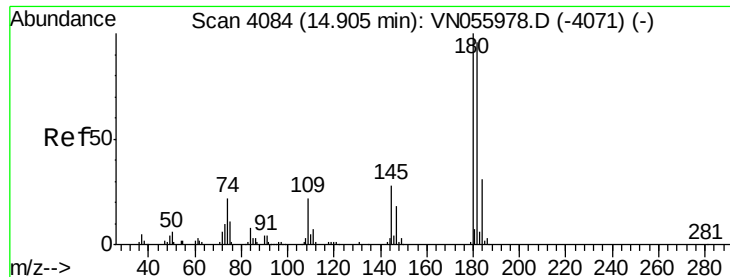
#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN056274.D
 Acq: 13 Jun 2019 12:21

Tgt Ion	Ratio	Lower	Upper
119	100		
91	18.8	30.9	92.8#
134	0.0	13.3	39.8#



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VN0
 Ion 134.00 (133.70 to 134.70): V

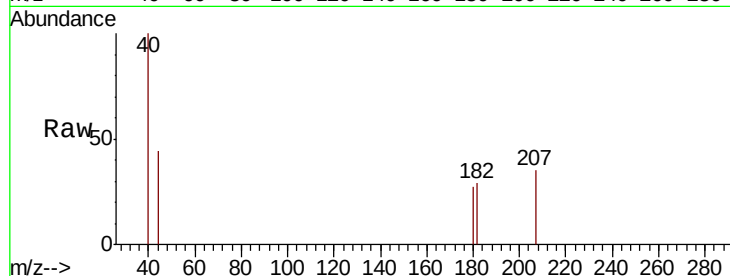




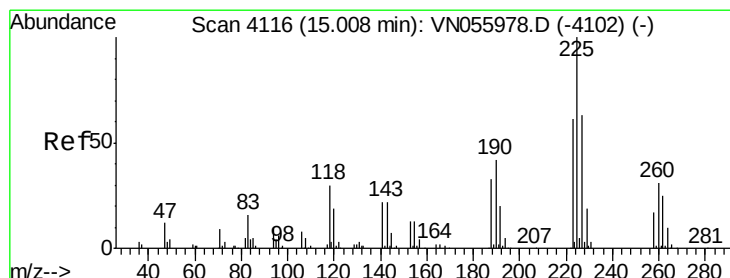
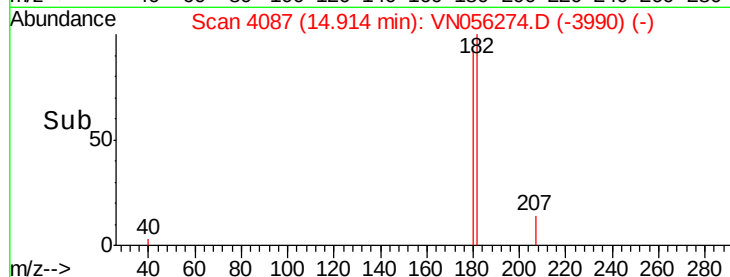
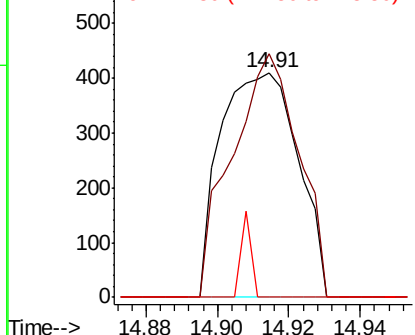
#93
 1,2,4-Trichlorobenzene
 Concen: 4.454 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN056274.D
 Acq: 13 Jun 2019 12:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.0	48.3	144.9
145	4.9	14.0	41.9#

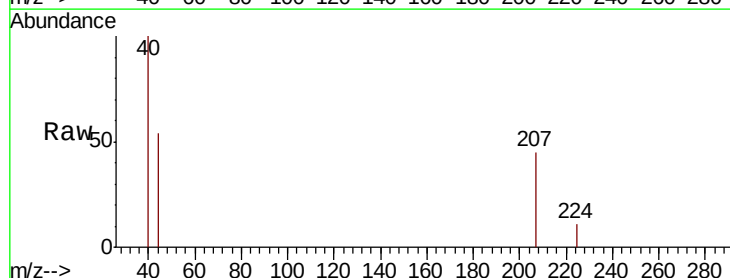


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

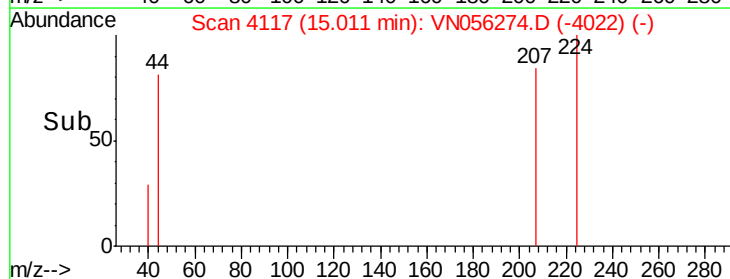
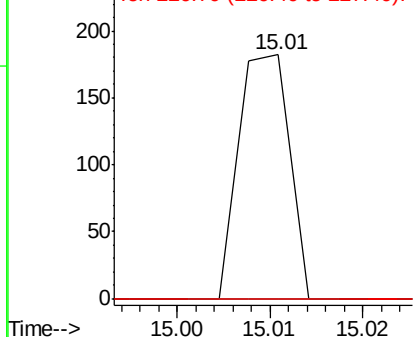


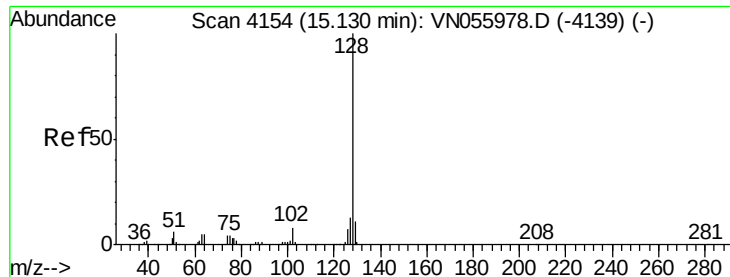
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN056274.D
 Acq: 13 Jun 2019 12:21

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	30.9	92.7#
227	0.0	31.6	94.7#



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: 4.044 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056274.D

Acq: 13 Jun 2019 12:21

Instrument :

MSVOA_N

ClientSampled :

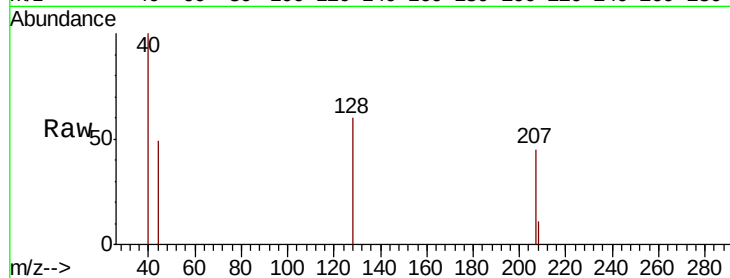
Tot Ion:128 Resp: 1655

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#

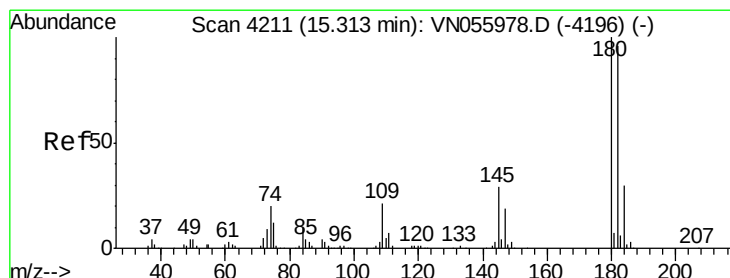
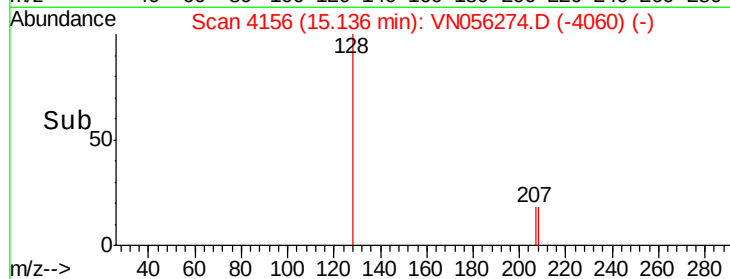
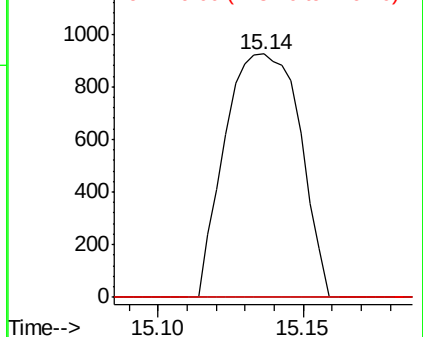


Abundance

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: 3.264 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN056274.D

Acq: 13 Jun 2019 12:21

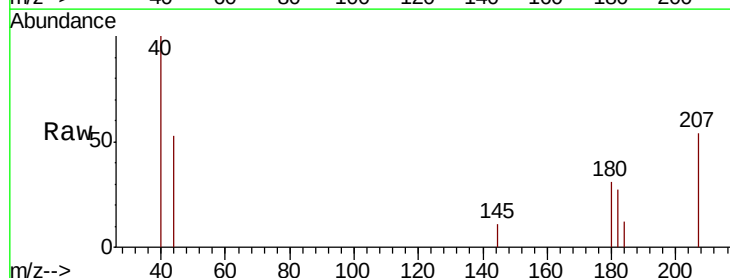
Tgt Ion:180 Resp: 769

Ion Ratio Lower Upper

180 100

182 96.4 47.9 143.7

145 18.1 14.9 44.7



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

