

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061719\
 Data File : VN056333.D
 Acq On : 17 Jun 2019 12:24
 Operator : JC/SP
 Sample : VN0617WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 18 04:32:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 18 04:23:59 2019
 Response via : Initial Calibration

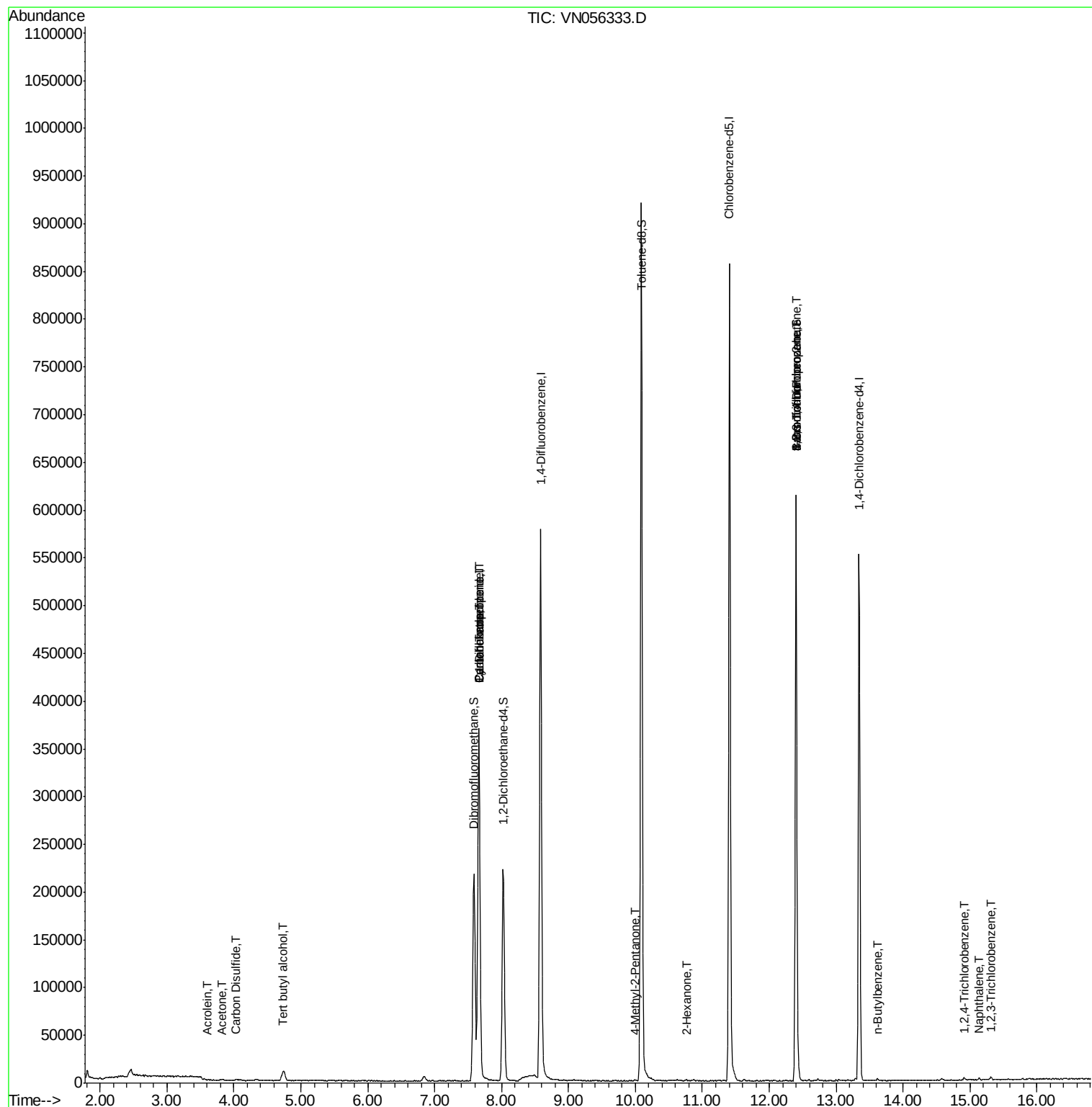
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	335207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	562315	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	546287	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	162438	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	191436	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
35) Dibromofluoromethane	7.59	113	168995	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	
50) Toluene-d8	10.09	98	687919	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	
62) 4-Bromofluorobenzene	12.40	95	217867	47.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.46%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	9912	16.713	ug/l #	73
13) Acrolein	3.60	56	106	3.794	ug/l #	14
16) Acetone	3.83	43	2159	1.037	ug/l	97
17) Carbon Disulfide	4.04	76	2891	0.347	ug/l #	75
18) Methyl Acetate	4.33	43	3176	Below Cal	#	90
31) Cyclohexane	7.66	56	5727	0.986	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21868	4.322	ug/l #	48
38) Carbon Tetrachloride	7.66	117	29475	6.069	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	1545	0.316	ug/l #	71
59) 2-Hexanone	10.76	43	1185	0.327	ug/l	70
71) Bromoform	12.40	173	1565	0.486	ug/l #	1
73) Isopropylbenzene	12.25	105	822	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	102946	29.663	ug/l #	100
77) Bromobenzene	12.52	156	246	Below Cal		80
79) 2-Chlorotoluene	12.68	91	615	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	102946	92.159	ug/l #	13
83) tert-Butylbenzene	12.99	119	553	Below Cal	#	82
89) n-Butylbenzene	13.61	91	1697	0.207	ug/l	90
93) 1,2,4-Trichlorobenzene	14.91	180	1331	5.729	ug/l	85
94) Hexachlorobutadiene	15.00	225	409	Below Cal		80
95) Naphthalene	15.14	128	2953	5.021	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.32	180	1517	4.279	ug/l #	90

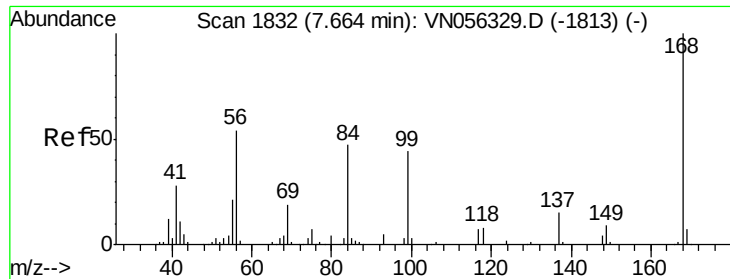
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 18 04:23:59 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: VN056333.D

Acq: 17 Jun 2019 12:24

Instrument :

MSVOA_N

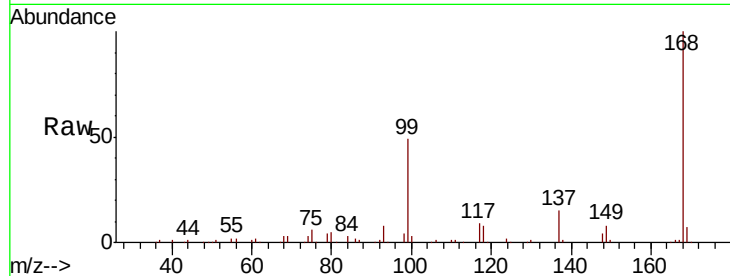
ClientSampleId :

Tot Ion:168 Resp: 335207

Ion Ratio Lower Upper

168 100

99 49.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

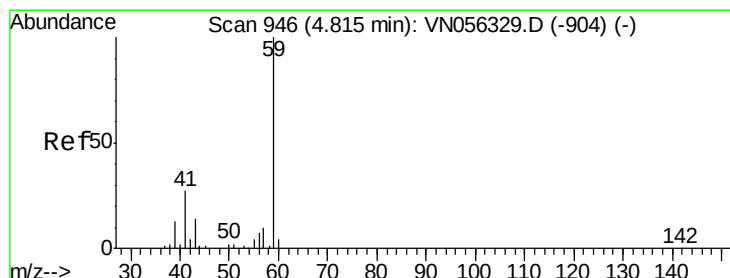
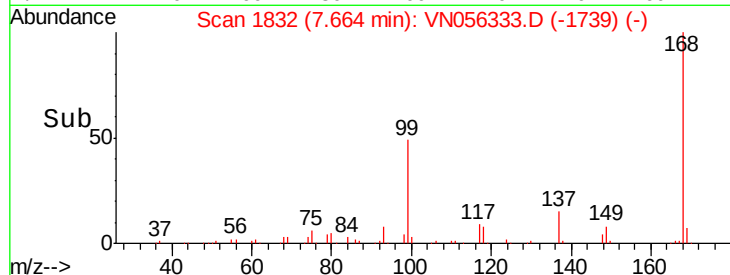
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 16.713 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.08 min

Lab File: VN056333.D

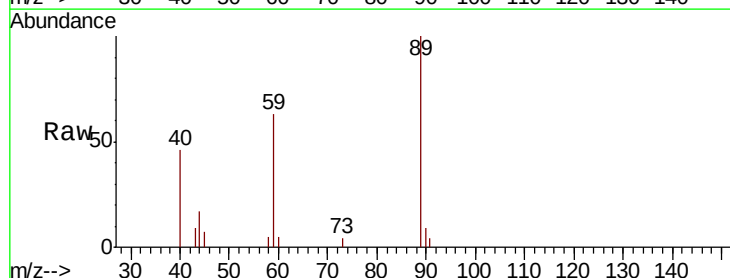
Acq: 17 Jun 2019 12:24

Tgt Ion: 59 Resp: 9912

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

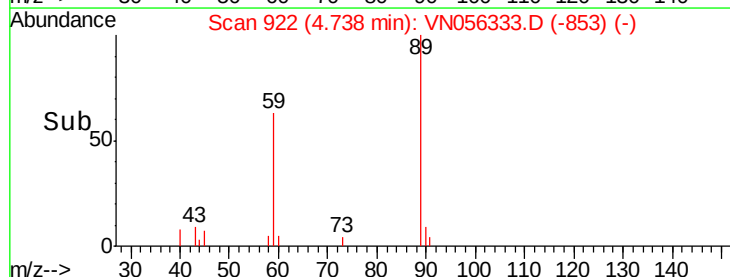
3000

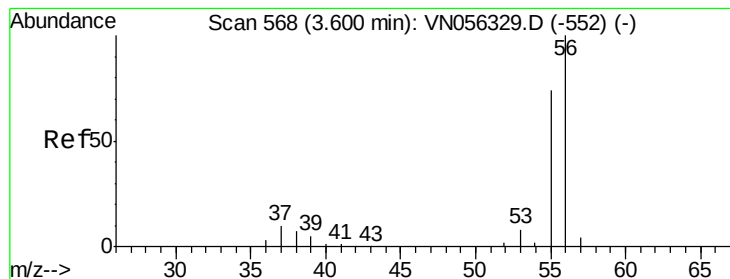
2000

1000

0

Time-->





#13

Acrolein

Concen: 3.794 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN056333.D

Acq: 17 Jun 2019 12:24

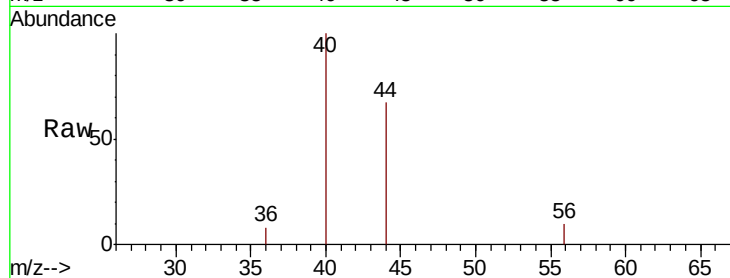
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 106

Ion Ratio Lower Upper

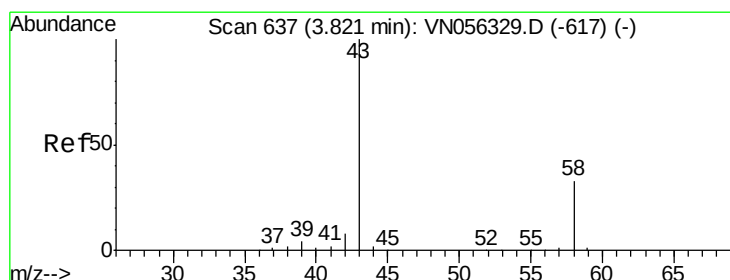
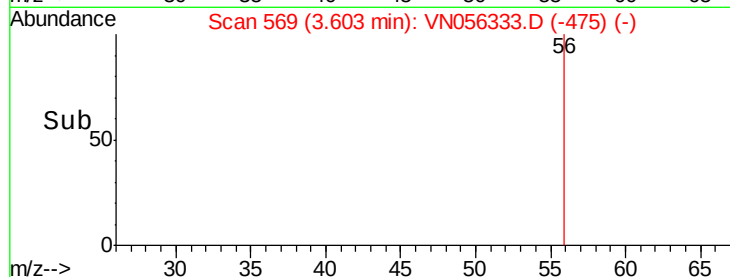
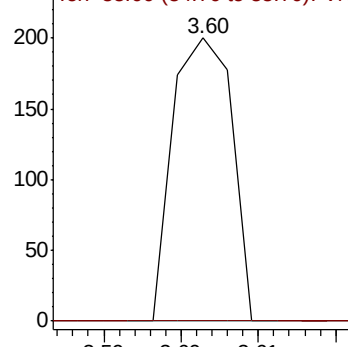
56 100

55 0.0 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 1.037 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN056333.D

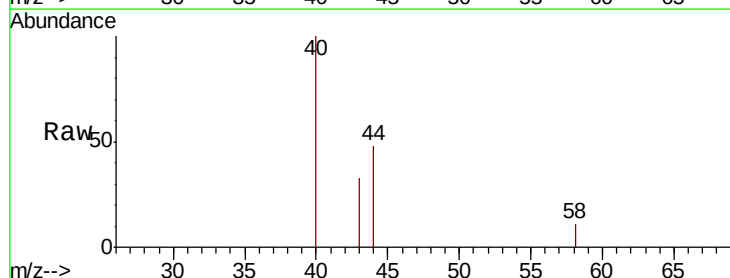
Acq: 17 Jun 2019 12:24

Tgt Ion: 43 Resp: 2159

Ion Ratio Lower Upper

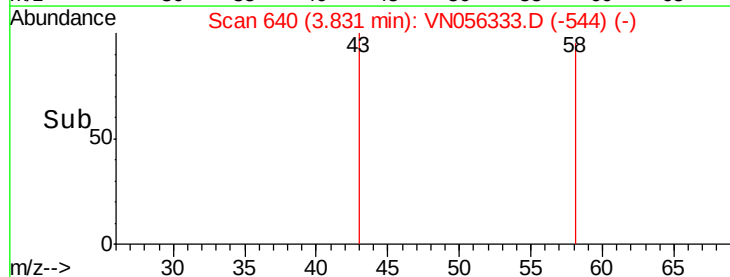
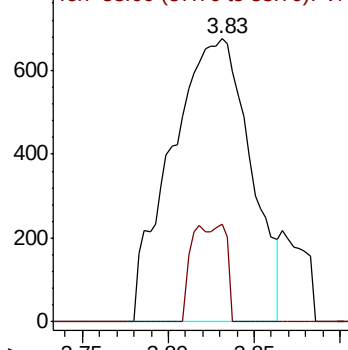
43 100

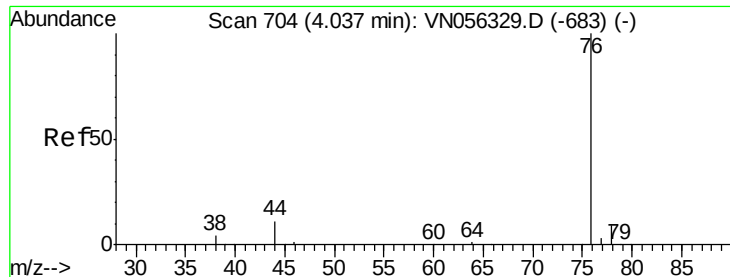
58 34.7 26.5 39.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

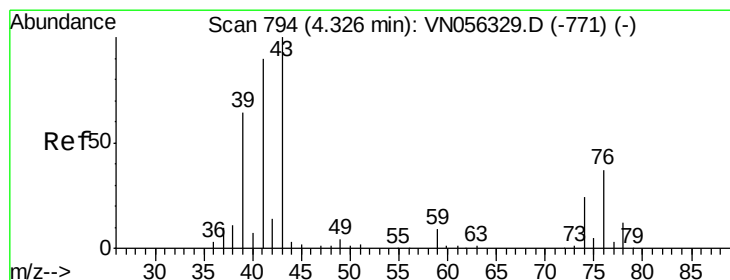
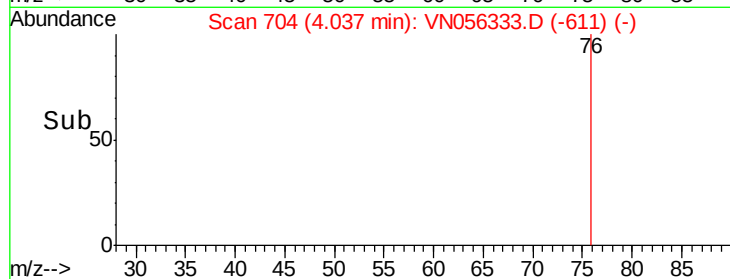
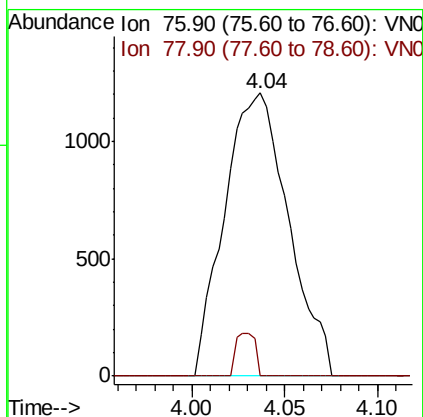
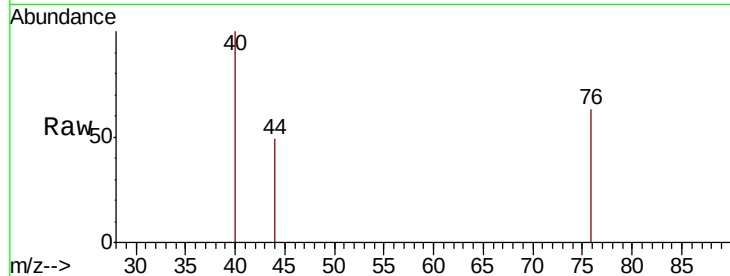




#17
Carbon Disulfide
Concen: 0.347 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.00 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

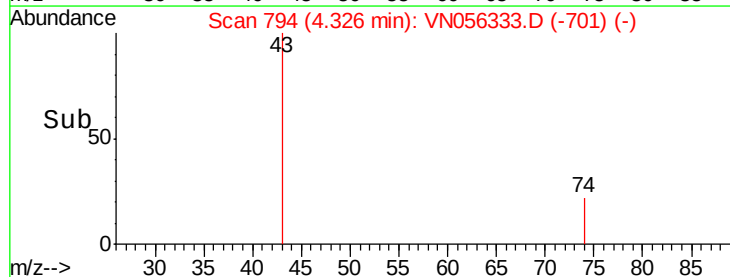
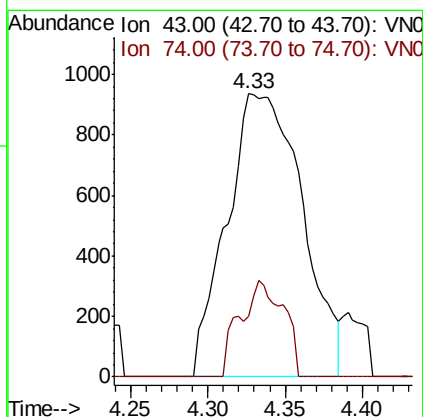
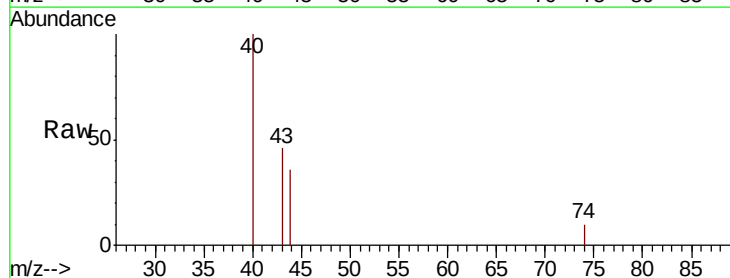
Instrument :
MSVOA_N
ClientSampled :

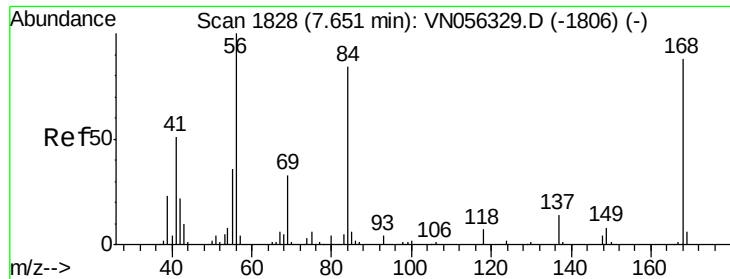
Tot Ion: 76 Resp: 2891
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

Tgt Ion: 43 Resp: 3176
Ion Ratio Lower Upper
43 100
74 19.3 19.4 29.2#

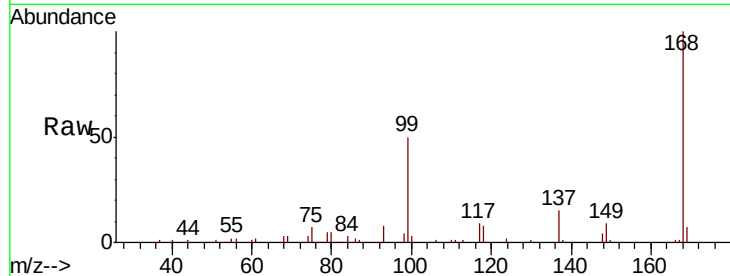




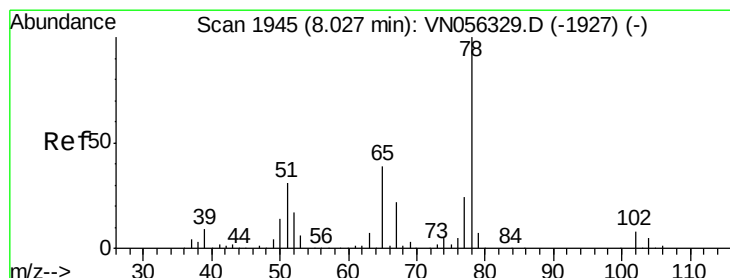
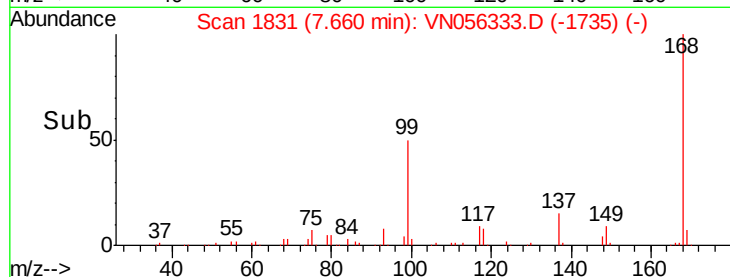
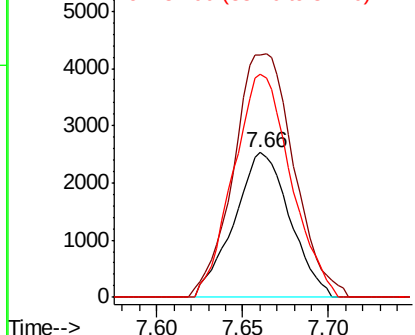
#31
Cyclohexane
Concen: 0.986 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 5727
Ion Ratio Lower Upper
56 100
69 167.7 26.0 39.0#
84 154.2 67.4 101.0#

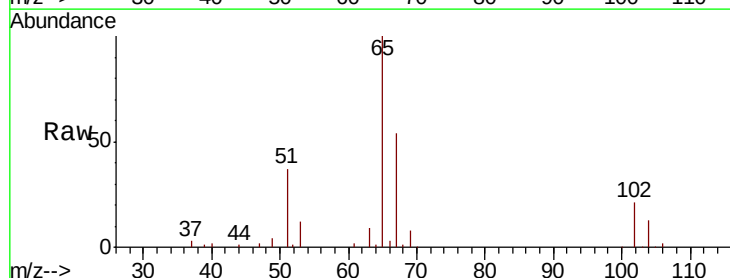


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

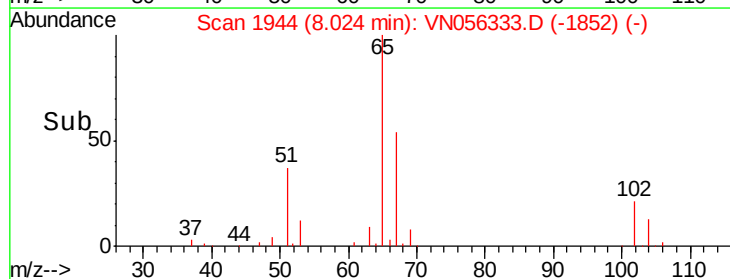
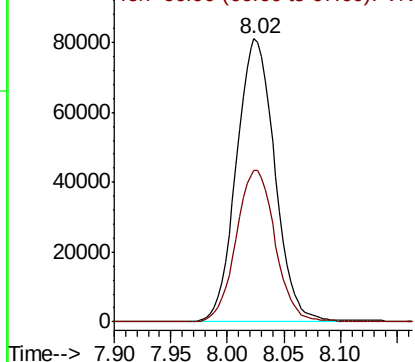


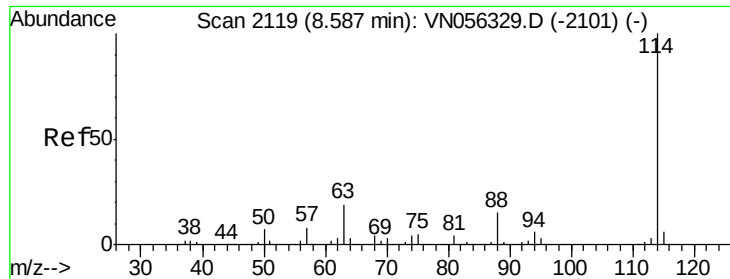
#33
1,2-Dichloroethane-d4
Concen: 50.791 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

Tgt Ion: 65 Resp: 191436
Ion Ratio Lower Upper
65 100
67 54.5 0.0 110.8



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: VN056333.D

Acq: 17 Jun 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

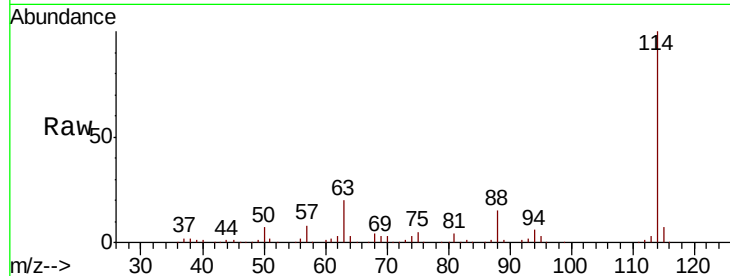
Tot Ion:114 Resp: 562315

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.8

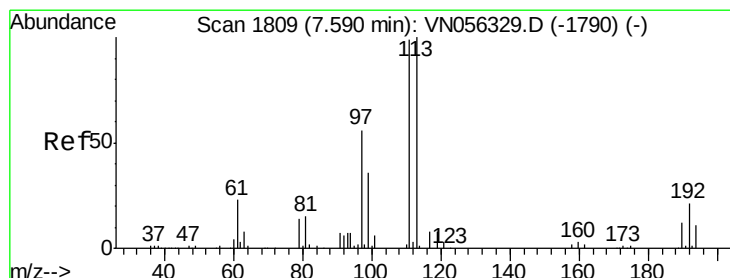
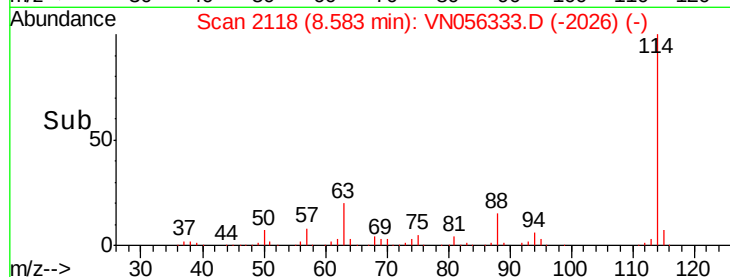
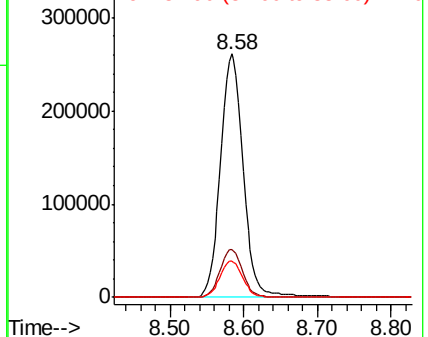
88 15.1 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 46.865 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN056333.D

Acq: 17 Jun 2019 12:24

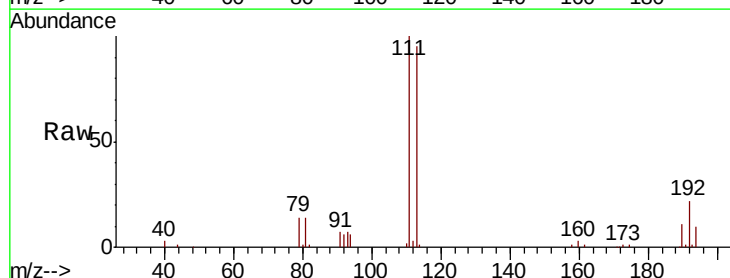
Tgt Ion:113 Resp: 168995

Ion Ratio Lower Upper

113 100

111 103.6 82.1 123.1

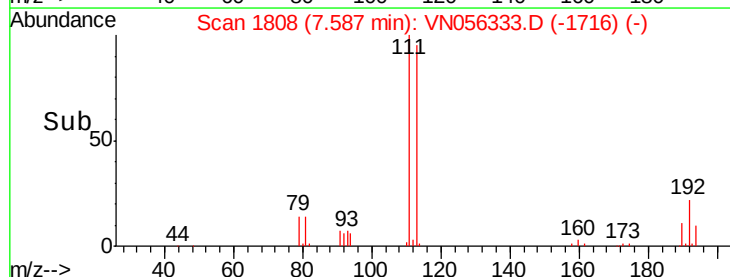
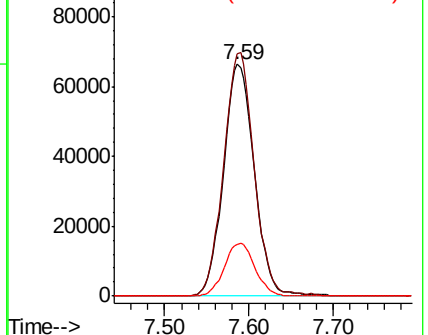
192 22.5 17.6 26.4

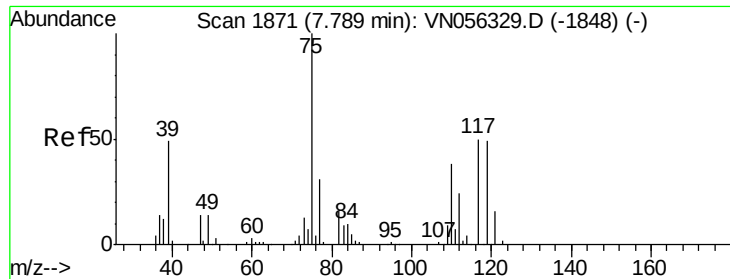


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

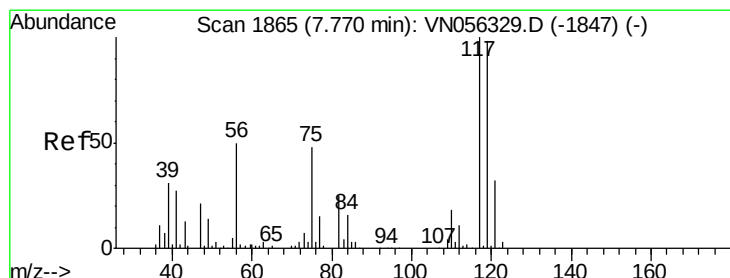
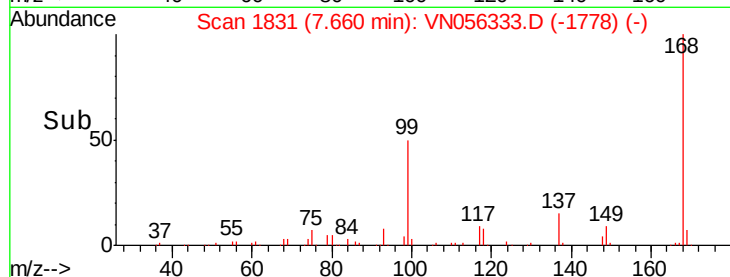
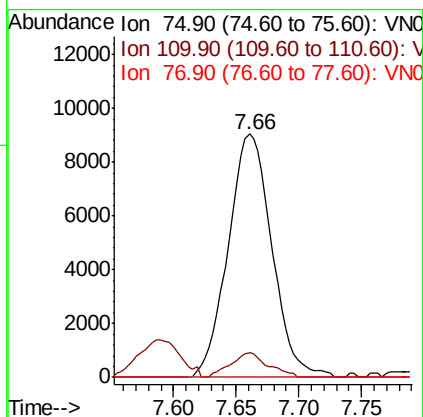
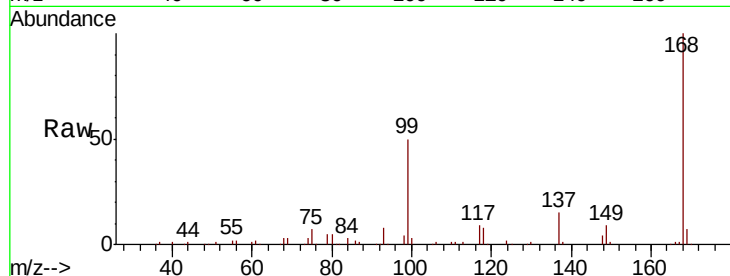




#36
 1,1-Dichloropropene
 Concen: 4.322 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056333.D
 Acq: 17 Jun 2019 12:24

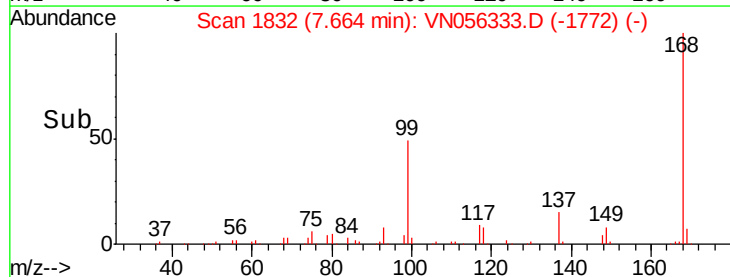
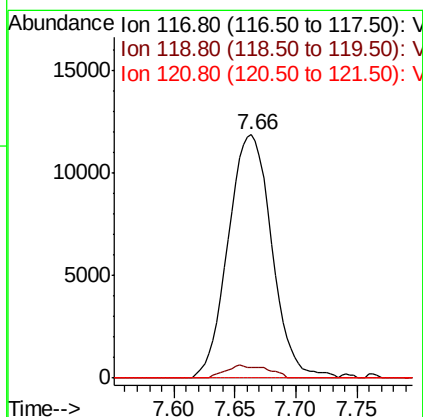
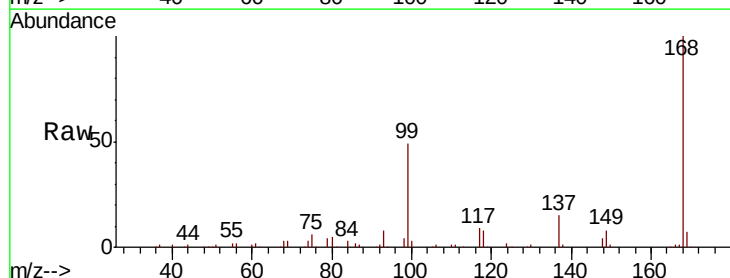
Instrument :
 MSVOA_N
 ClientSampleId :

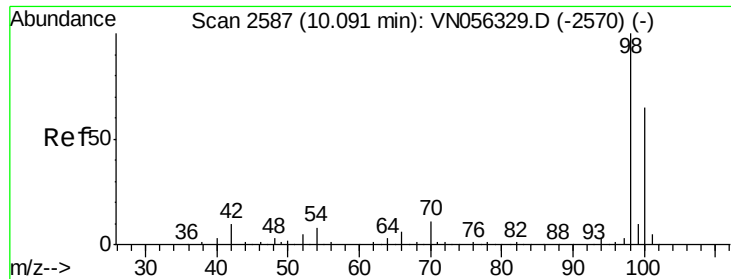
Tot Ion	75	Resp	21868
Ion Ratio	Lower	Upper	
75	100		
110	8.7	18.6	56.0#
77	0.0	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 6.069 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056333.D
 Acq: 17 Jun 2019 12:24

Tgt Ion	117	Resp	29475
Ion Ratio	Lower	Upper	
117	100		
119	4.5	77.8	116.8#
121	0.0	25.3	37.9#

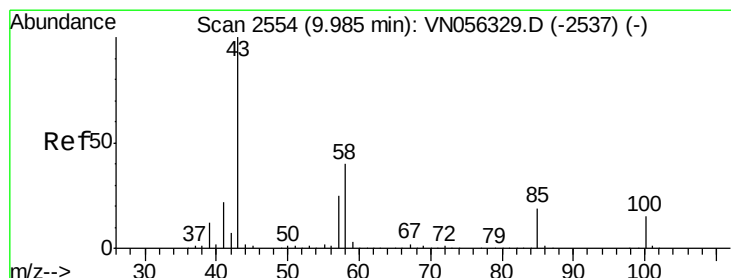
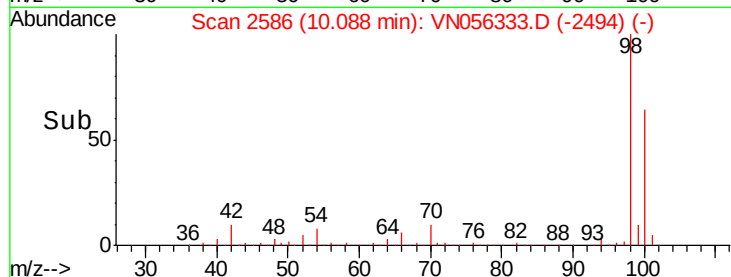
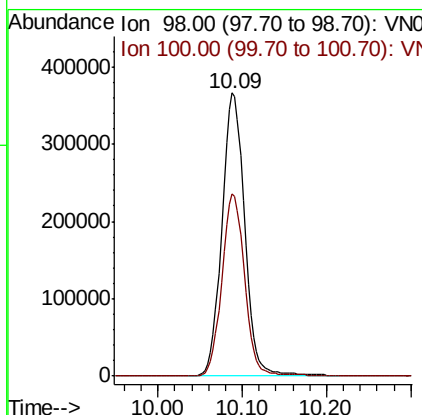
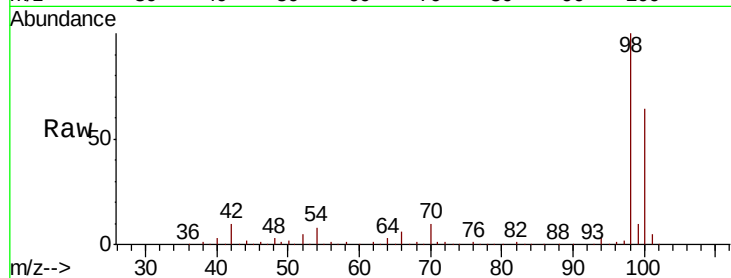




#50
Toluene-d8
Concen: 49.936 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

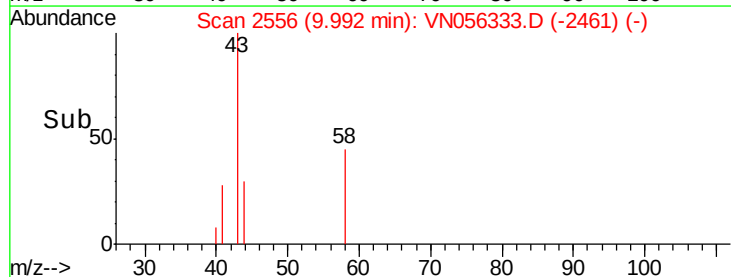
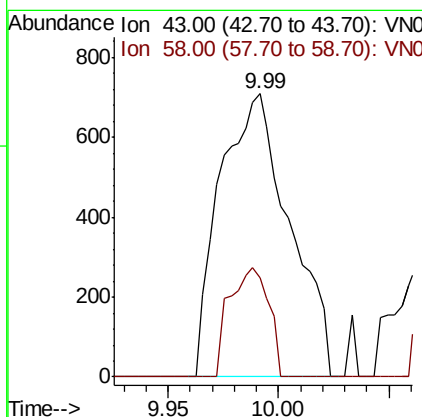
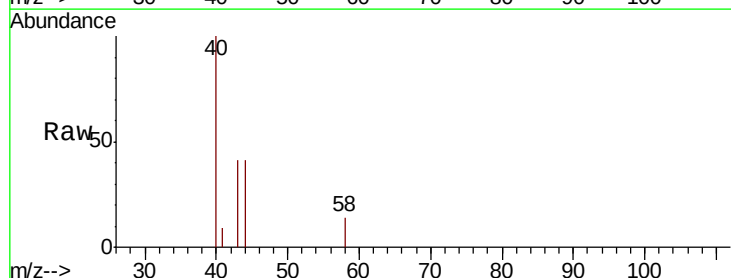
Instrument :
MSVOA_N
ClientSampled :

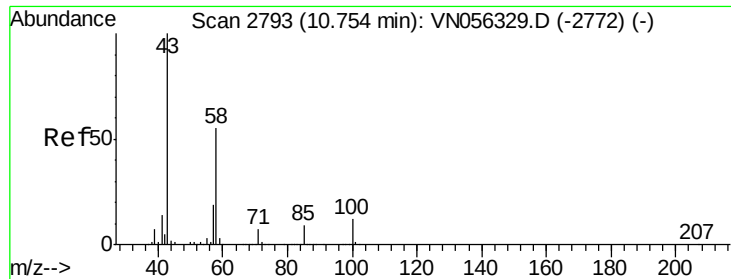
Tot Ion: 98 Resp: 687919
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 0.316 ug/l
RT: 9.99 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

Tgt Ion: 43 Resp: 1545
Ion Ratio Lower Upper
43 100
58 21.7 31.8 47.6#

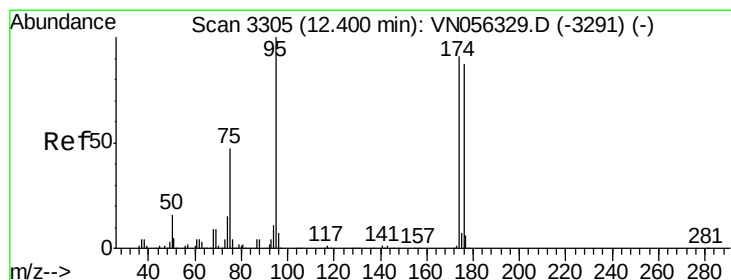
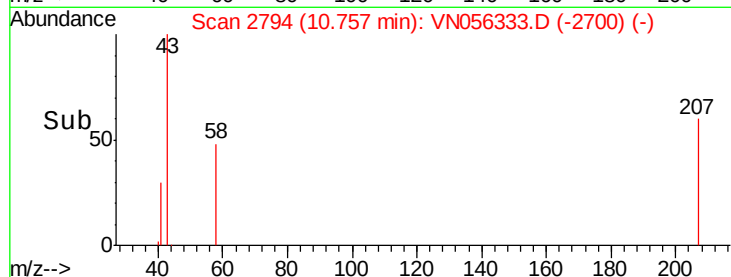
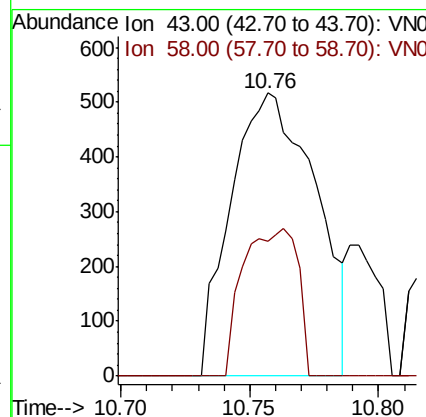
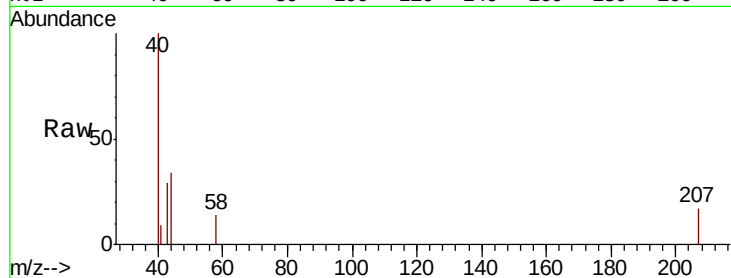




#59
2-Hexanone
Concen: 0.327 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

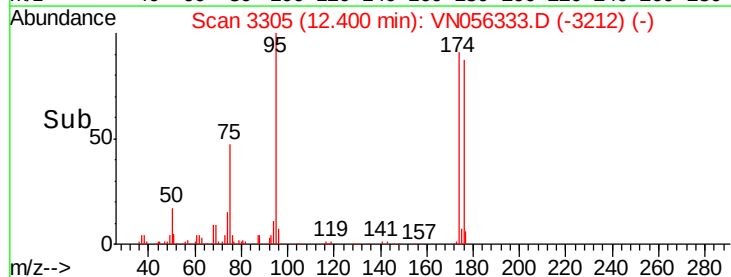
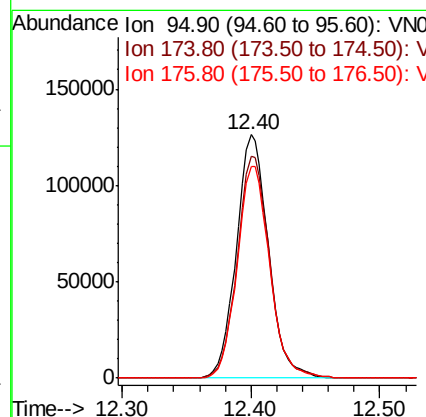
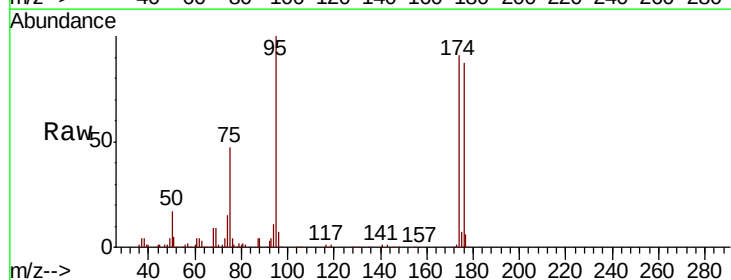
Instrument :
MSVOA_N
ClientSampled :

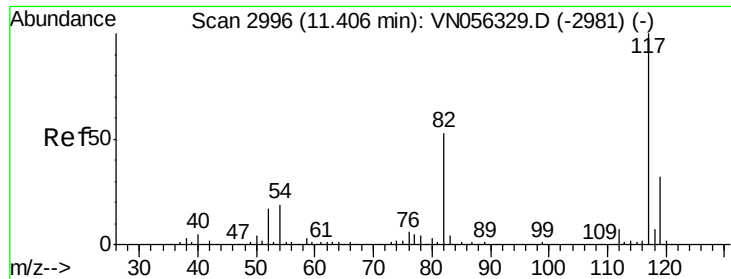
Tot Ion: 43 Resp: 1185
Ion Ratio Lower Upper
43 100
58 33.6 27.8 83.4



#62
4-Bromofluorobenzene
Concen: 47.726 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

Tgt Ion: 95 Resp: 217867
Ion Ratio Lower Upper
95 100
174 92.3 0.0 182.6
176 88.6 0.0 176.8

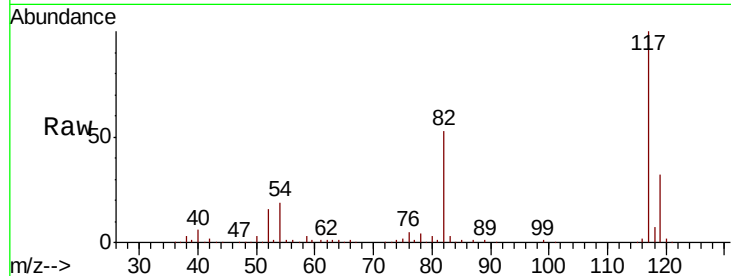




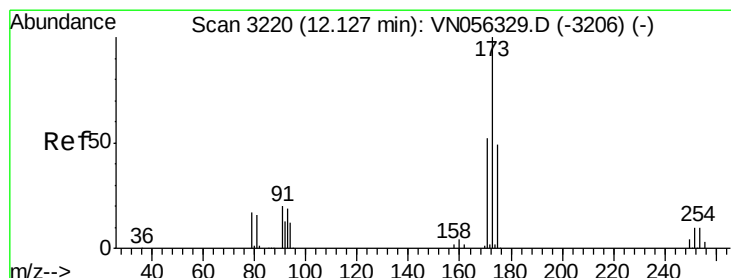
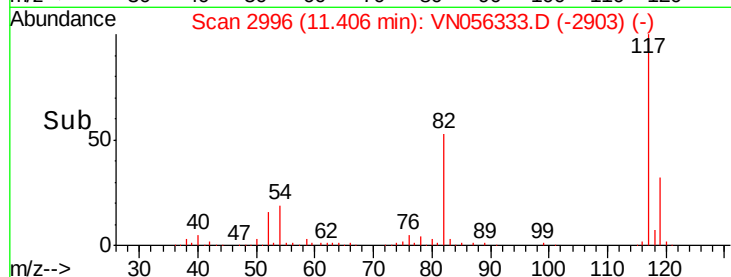
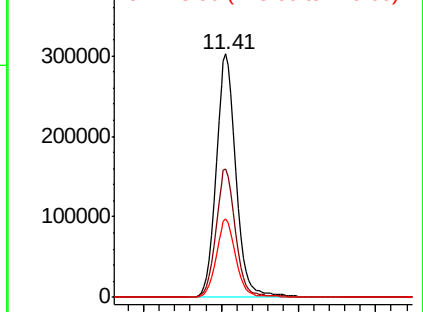
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 546287
Ion Ratio Lower Upper
117 100
82 52.9 42.4 63.6
119 32.1 26.0 39.0

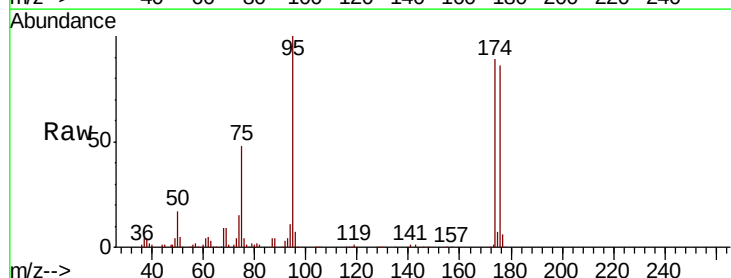


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

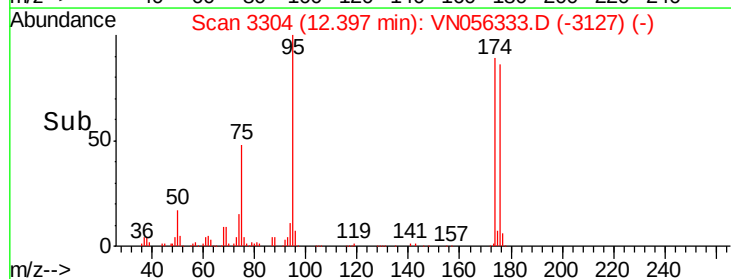
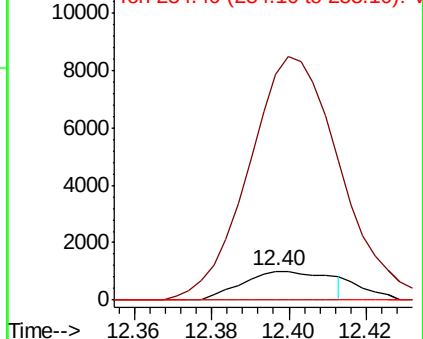


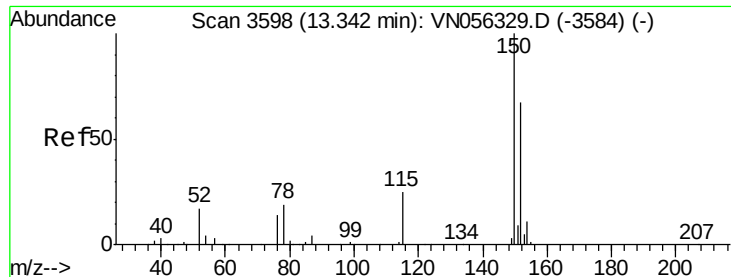
#71
Bromoform
Concen: 0.486 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

Tgt Ion:173 Resp: 1565
Ion Ratio Lower Upper
173 100
175 775.0 24.3 73.0#
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



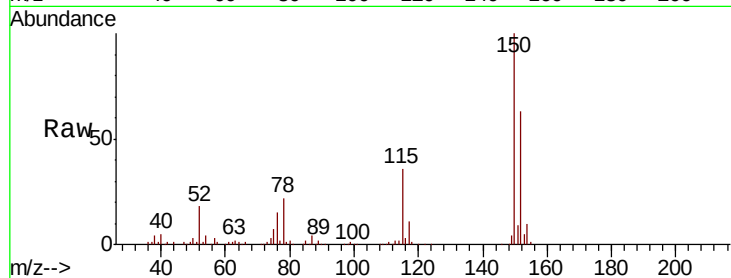


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.0	27.8	83.3
150	158.9	0.0	345.8

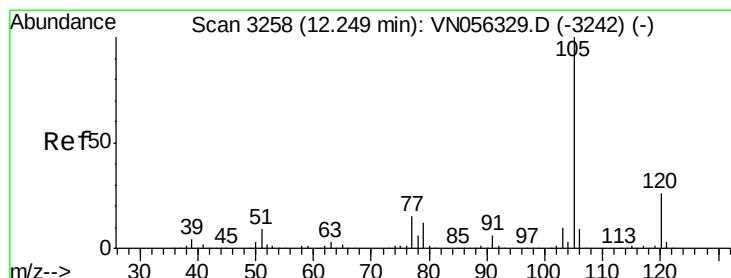
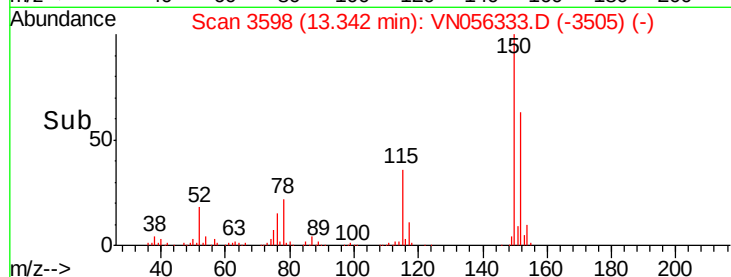
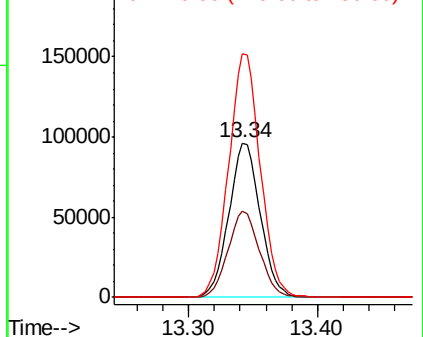


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

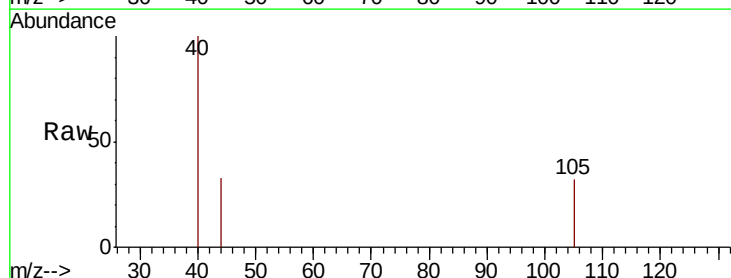
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056333.D
Acq: 17 Jun 2019 12:24

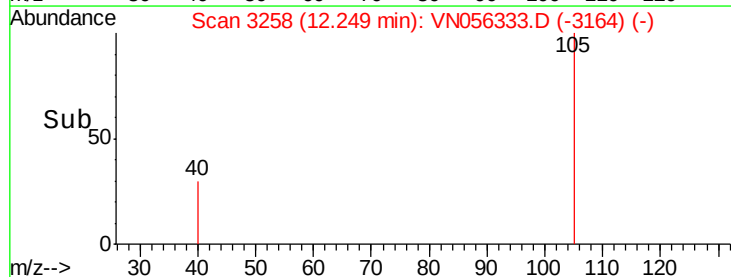
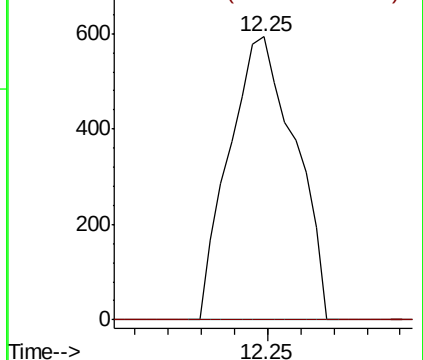
Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.3	39.8#

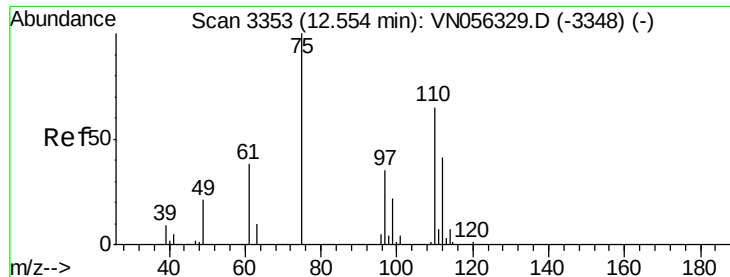


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

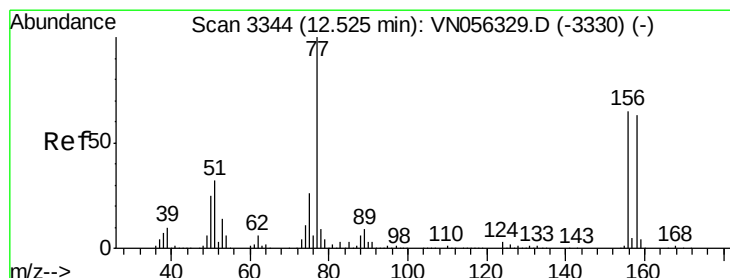
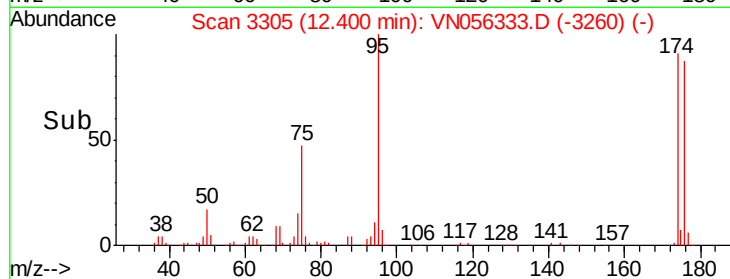
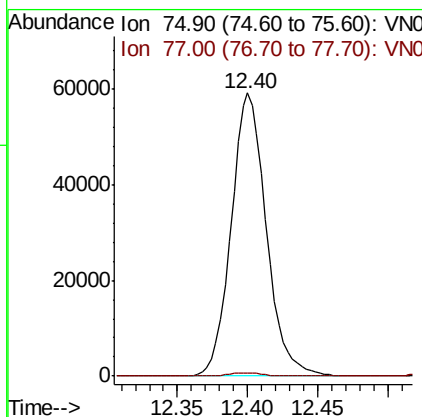
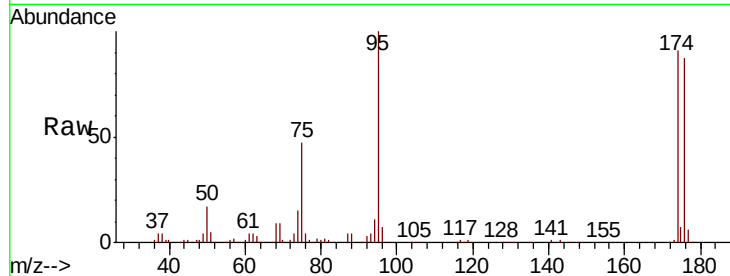




#76
 1,2,3-Trichloropropane
 Concen: 29.663 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN056333.D
 Acq: 17 Jun 2019 12:24

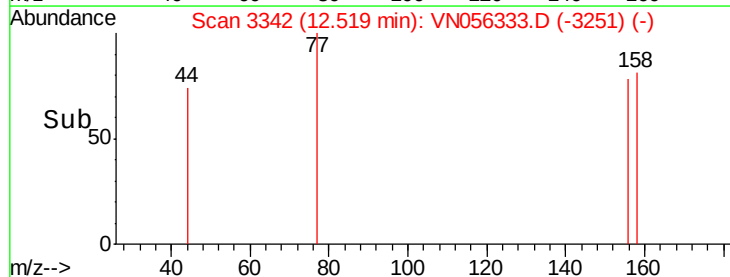
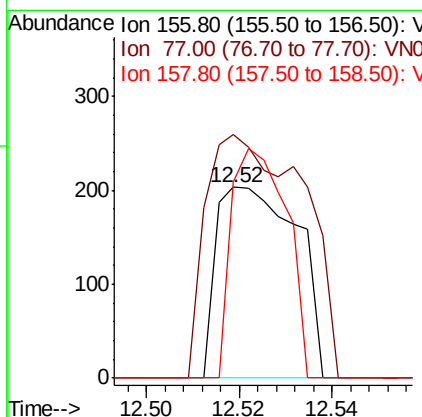
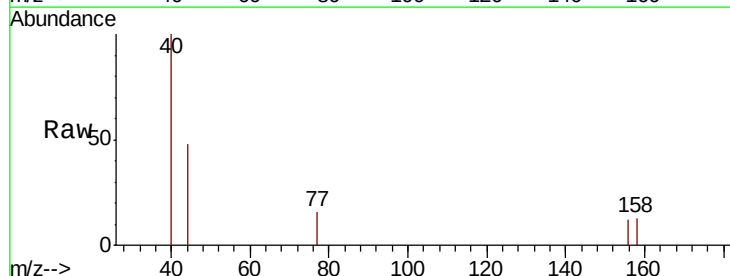
Instrument :
 MSVOA_N
 ClientSampled :

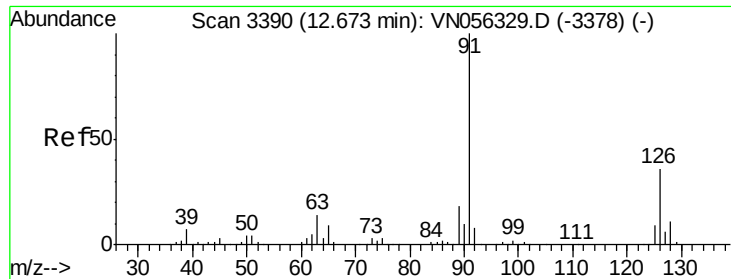
Tot Ion: 75 Resp: 102946
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#77
 Bromobenzene
 Concen: Below Cal
 RT: 12.52 min Scan# 3342
 Delta R.T. -0.01 min
 Lab File: VN056333.D
 Acq: 17 Jun 2019 12:24

Tgt Ion: 156 Resp: 246
 Ion Ratio Lower Upper
 156 100
 77 153.3 92.9 278.7
 158 82.1 49.0 147.2





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN056333.D

Acq: 17 Jun 2019 12:24

Instrument :

MSVOA_N

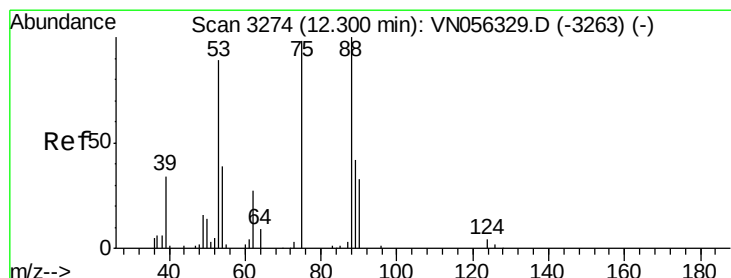
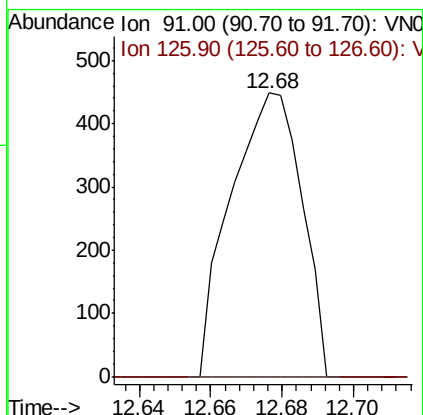
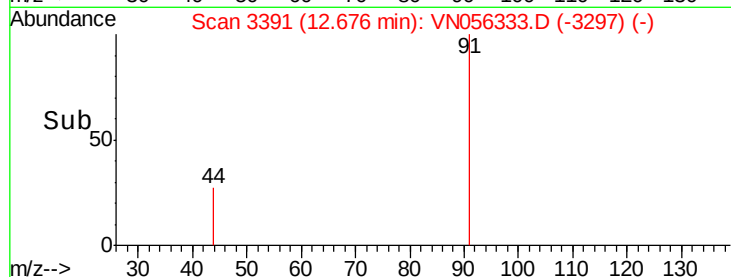
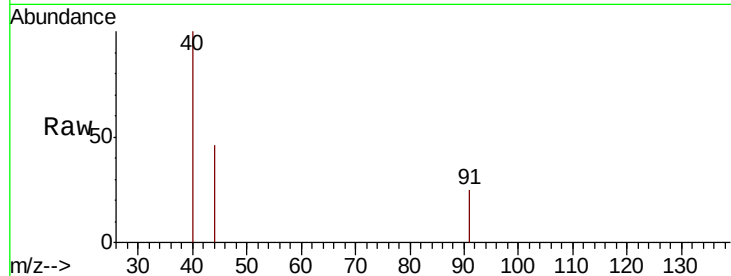
ClientSampled :

Tot Ion: 91 Resp: 615

Ion Ratio Lower Upper

91 100

126 0.0 18.0 54.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 92.159 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056333.D

Acq: 17 Jun 2019 12:24

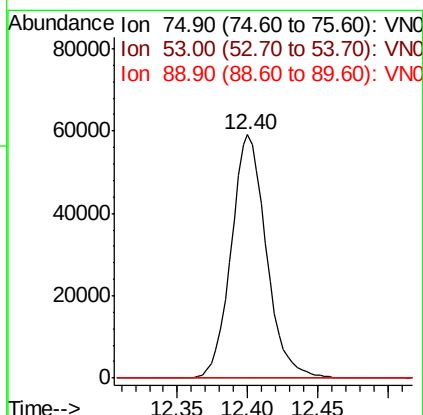
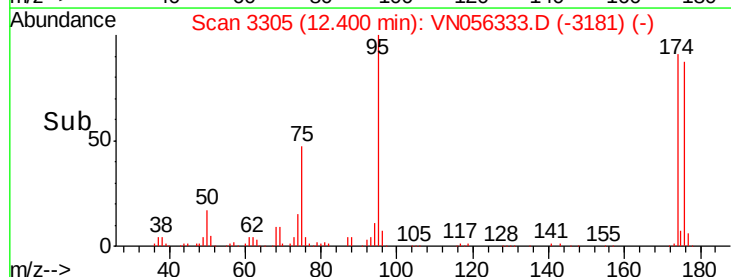
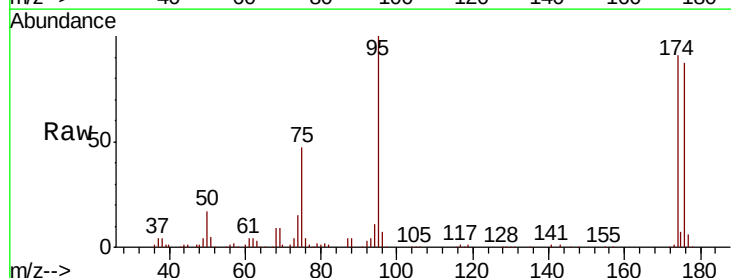
Tgt Ion: 75 Resp: 102946

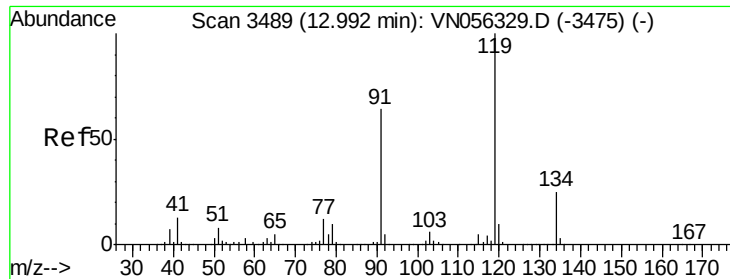
Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 35.4 53.2#

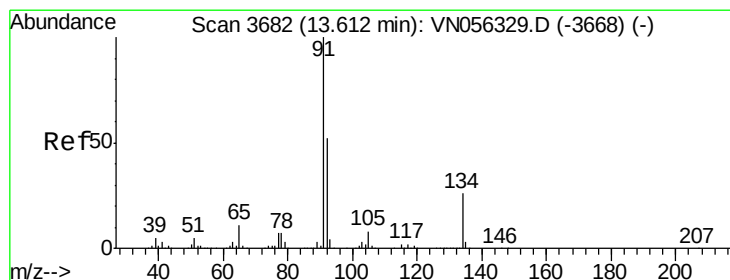
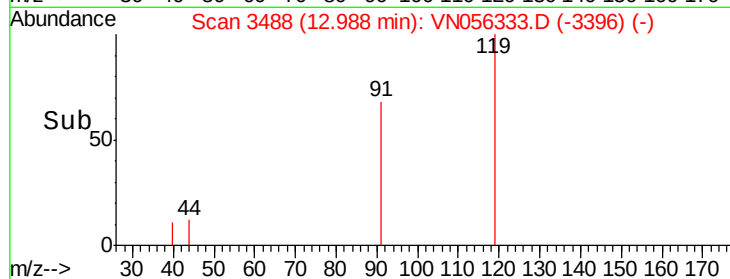
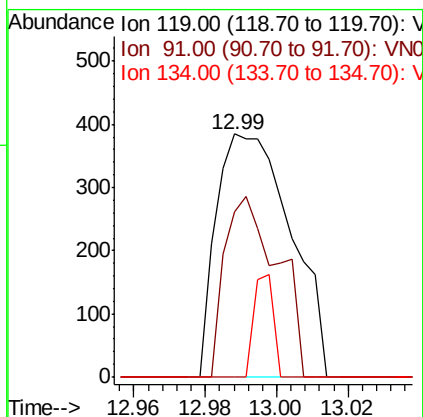
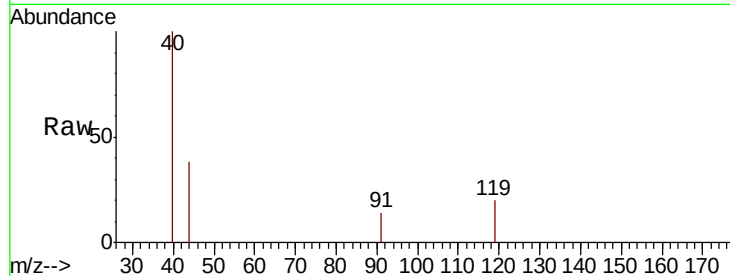




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN056333.D
 Acq: 17 Jun 2019 12:24

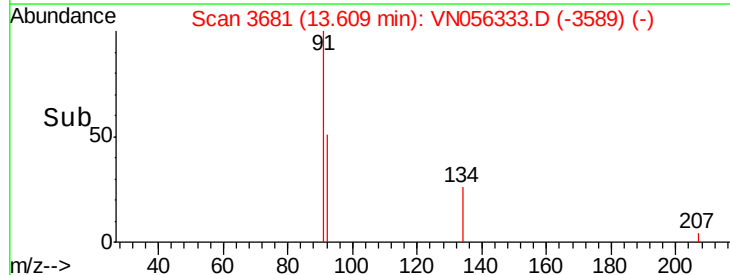
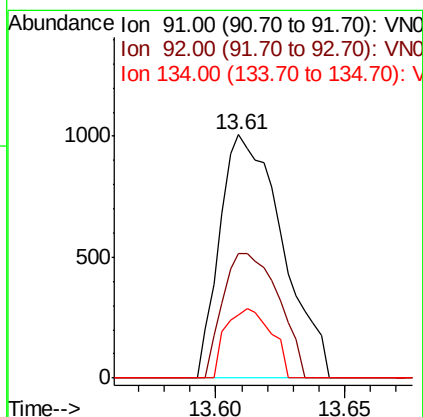
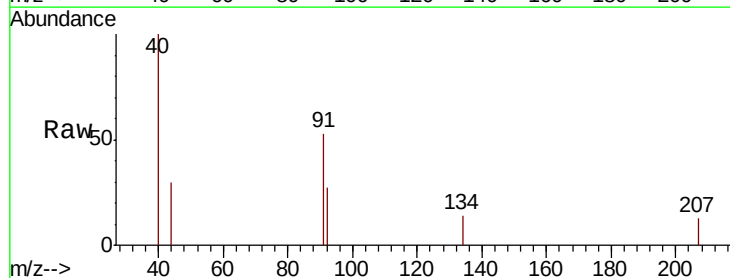
Instrument :
 MSVOA_N
 ClientSampleId :

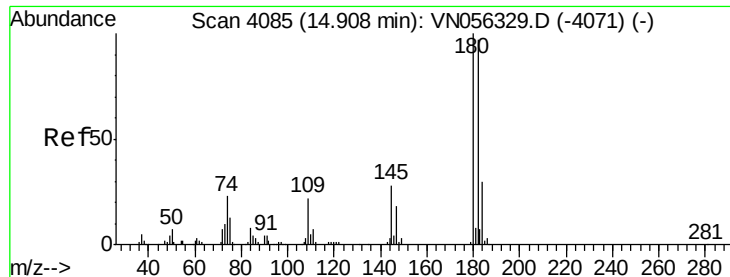
Tot Ion: 119 Resp: 553
 Ion Ratio Lower Upper
 119 100
 91 53.2 31.5 94.5
 134 11.0 13.6 40.7#



#89
 n-Butylbenzene
 Concen: 0.207 ug/l
 RT: 13.61 min Scan# 3681
 Delta R.T. -0.00 min
 Lab File: VN056333.D
 Acq: 17 Jun 2019 12:24

Tgt Ion: 91 Resp: 1697
 Ion Ratio Lower Upper
 91 100
 92 45.8 26.0 78.0
 134 20.7 13.2 39.5

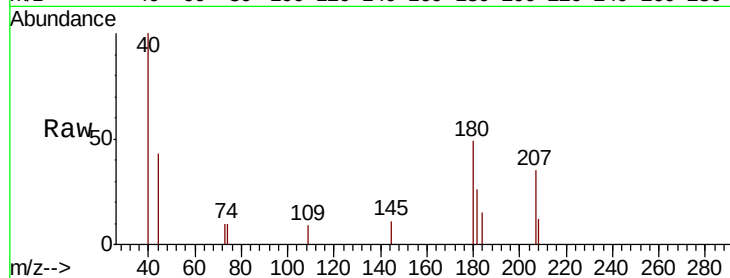




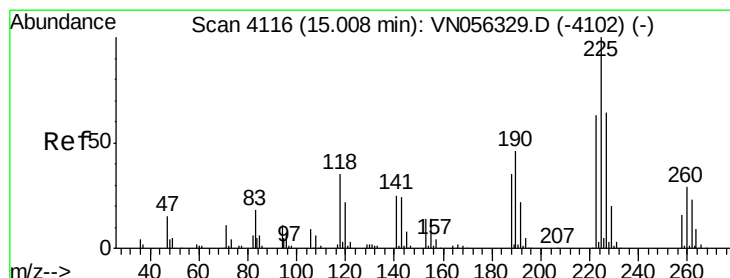
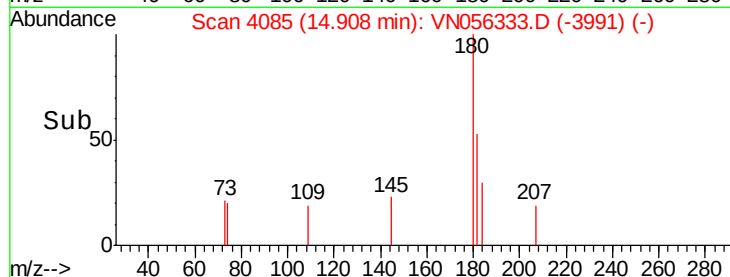
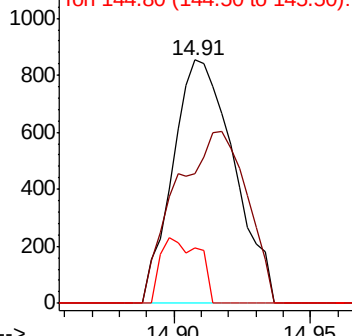
#93
 1,2,4-Trichlorobenzene
 Concen: 5.729 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056333.D
 Acq: 17 Jun 2019 12:24

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1331
 Ion Ratio Lower Upper
 180 100
 182 82.0 47.4 142.3
 145 17.1 14.0 41.9

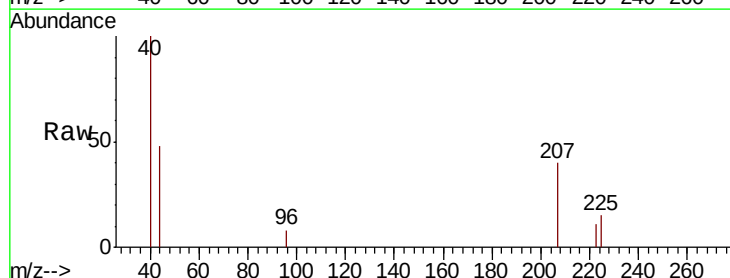


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

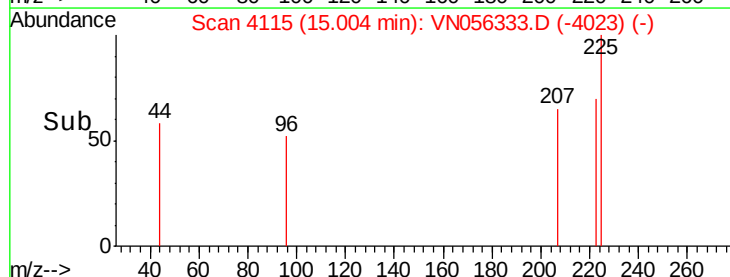
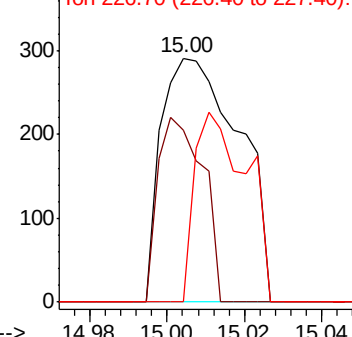


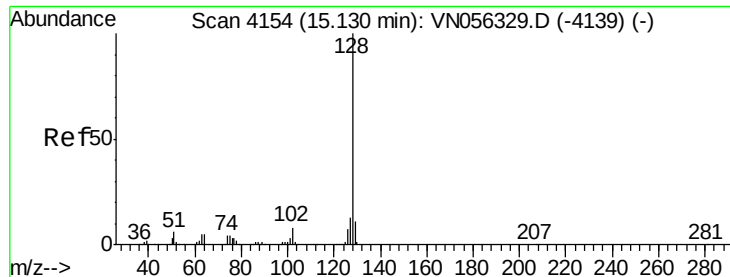
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN056333.D
 Acq: 17 Jun 2019 12:24

Tgt Ion:225 Resp: 409
 Ion Ratio Lower Upper
 225 100
 223 43.5 31.2 93.6
 227 51.8 31.7 95.1



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: 5.021 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056333.D

Acq: 17 Jun 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

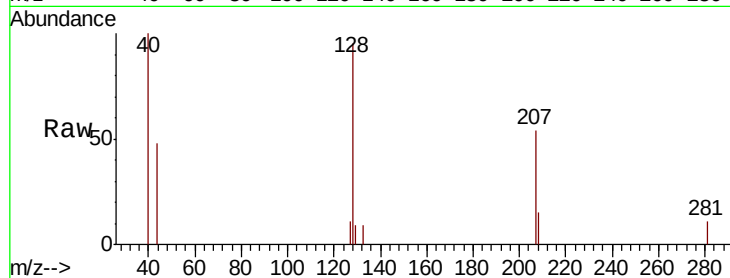
Tot Ion:128 Resp: 2953

Ion Ratio Lower Upper

128 100

127 7.2 10.6 15.8#

129 2.0 8.6 12.8#

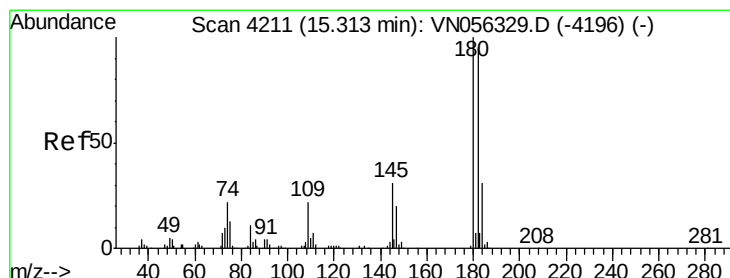
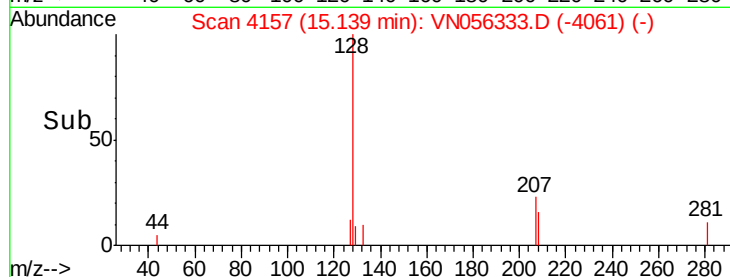
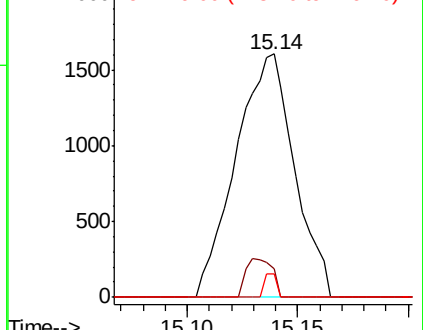


Abundance

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: 4.279 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN056333.D

Acq: 17 Jun 2019 12:24

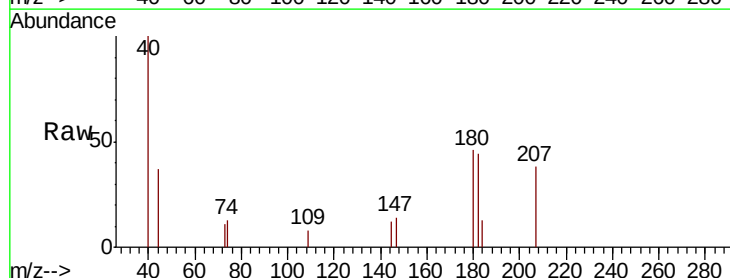
Tgt Ion:180 Resp: 1517

Ion Ratio Lower Upper

180 100

182 95.4 47.1 141.4

145 10.2 14.9 44.9#



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

