

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056133.D
 Acq On : 8 Jun 2019 6:37
 Operator : JC/SP
 Sample : K3214-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 10 01:21:07 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	319181	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	475396	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	438703	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	126457	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	154447	48.73	ug/l	0.00
Spiked Amount						
			Recovery	=	97.46%	
35) Dibromofluoromethane	7.59	113	139301	47.76	ug/l	0.00
Spiked Amount						
			Recovery	=	95.52%	
50) Toluene-d8	10.09	98	570616	50.84	ug/l	0.00
Spiked Amount						
			Recovery	=	101.68%	
62) 4-Bromofluorobenzene	12.40	95	166490	43.62	ug/l	0.00
Spiked Amount						
			Recovery	=	87.24%	

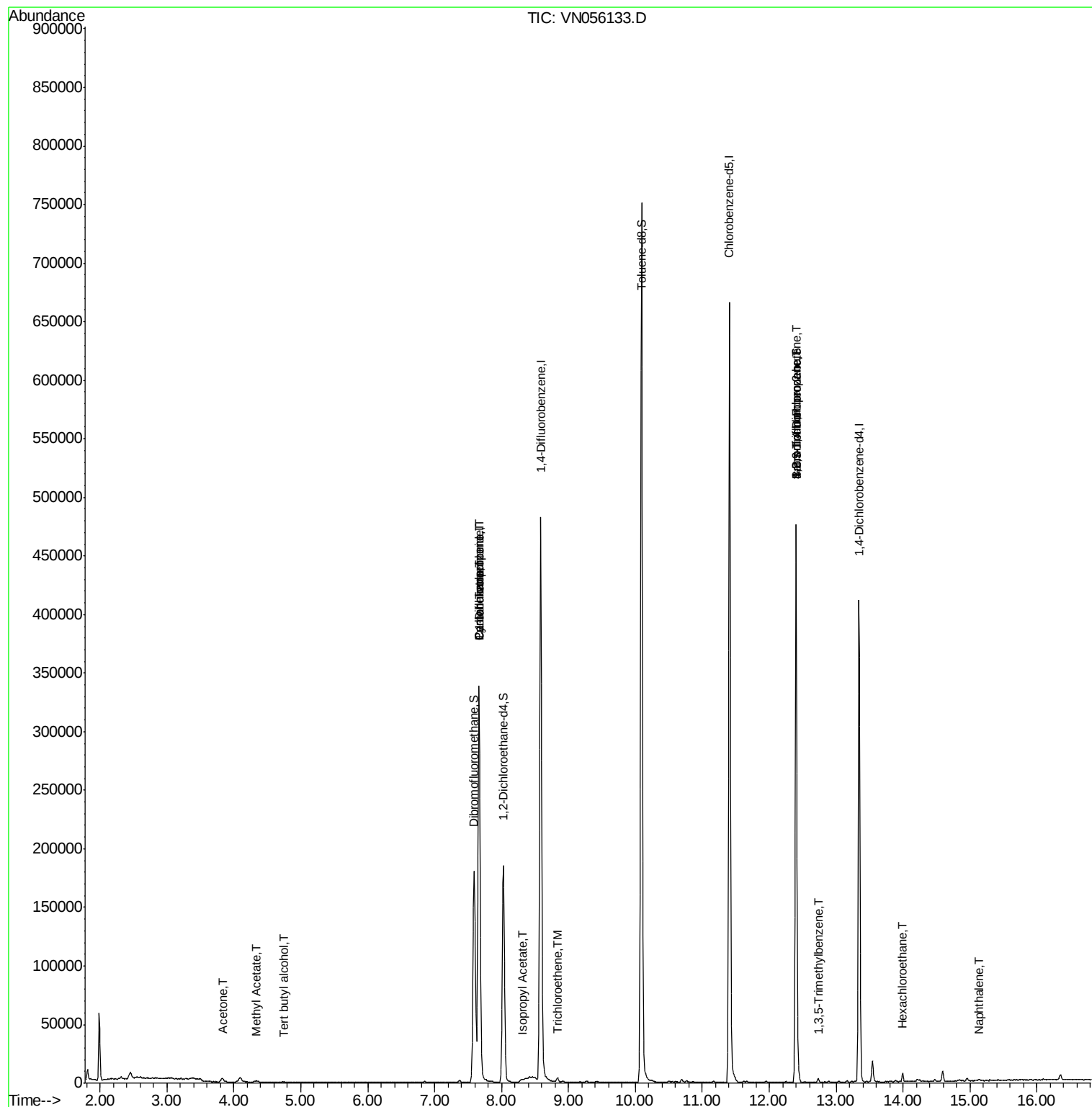
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	138	0.250	ug/l #	74
16) Acetone	3.83	43	6131	4.045	ug/l	96
18) Methyl Acetate	4.34	43	2583	0.293	ug/l #	69
31) Cyclohexane	7.66	56	4510	0.897	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18502	4.526	ug/l #	48
38) Carbon Tetrachloride	7.66	117	25397	6.739	ug/l #	14
43) Isopropyl Acetate	8.30	43	2072	0.352	ug/l #	53
44) Trichloroethene	8.83	130	1399	0.392	ug/l	97
71) Bromoform	12.40	173	1198	3.189	ug/l #	1
73) Isopropylbenzene	12.25	105	524	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	76018	32.670	ug/l #	100
79) 2-Chlorotoluene	12.68	91	29	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	2218	0.261	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	76018	108.796	ug/l #	15
83) tert-Butylbenzene	13.23	119	582	Below Cal	#	28
90) Hexachloroethane	13.99	117	4526	3.539	ug/l #	1
95) Naphthalene	15.13	128	2088	4.170	ug/l #	75

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

Instrument :

MSVOA_N

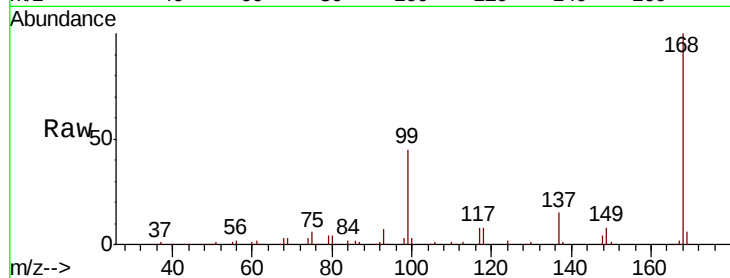
ClientSampled :

Tot Ion:168 Resp: 319181

Ion Ratio Lower Upper

168 100

99 45.4 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

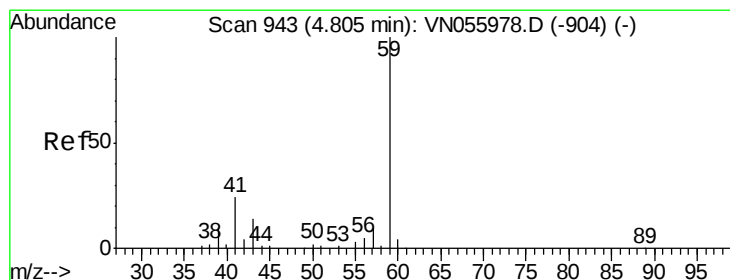
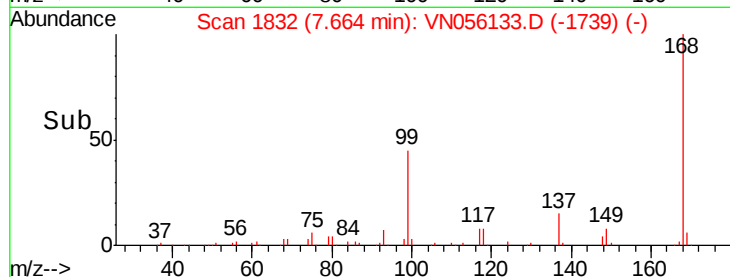
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.250 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.05 min

Lab File: VN056133.D

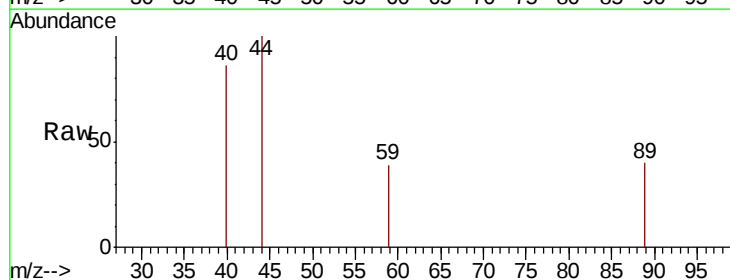
Acq: 8 Jun 2019 6:37

Tgt Ion: 59 Resp: 138

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

200

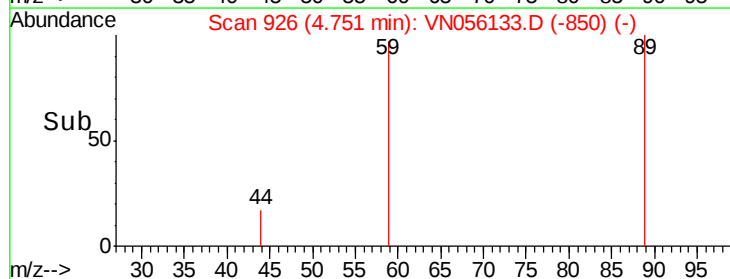
150

100

50

0

Time-->





#16

Acetone

Concen: 4.045 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

Instrument :

MSVOA_N

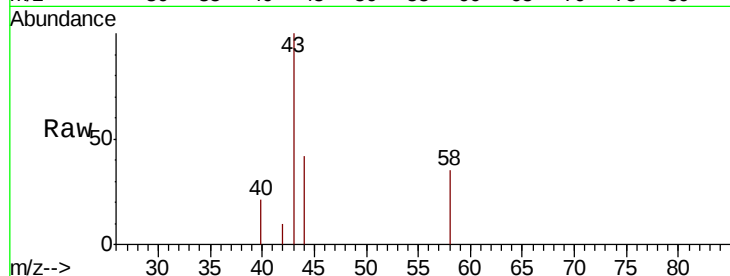
ClientSampled :

Tot Ion: 43 Resp: 6131

Ion Ratio Lower Upper

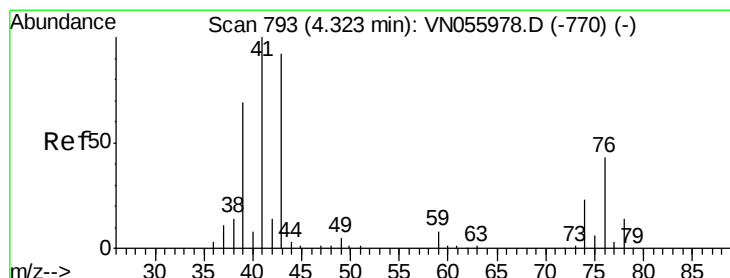
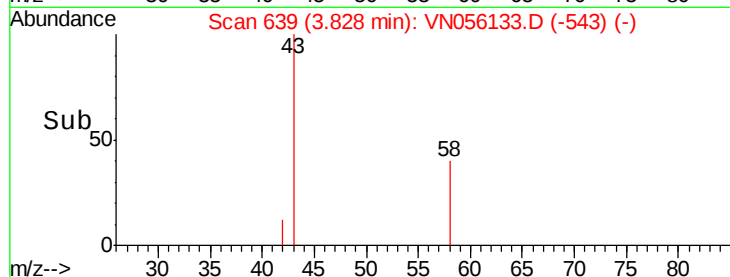
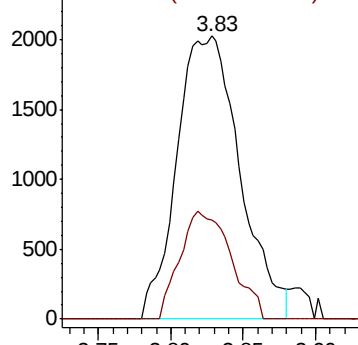
43 100

58 35.2 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: 0.293 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056133.D

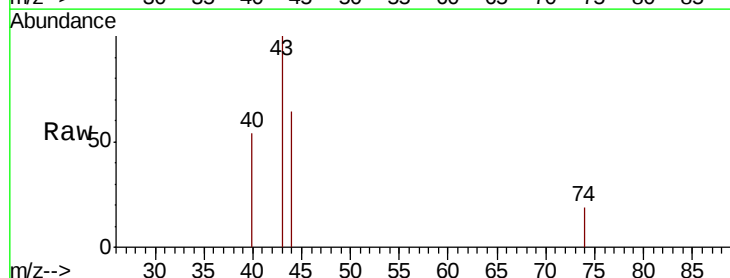
Acq: 8 Jun 2019 6:37

Tgt Ion: 43 Resp: 2583

Ion Ratio Lower Upper

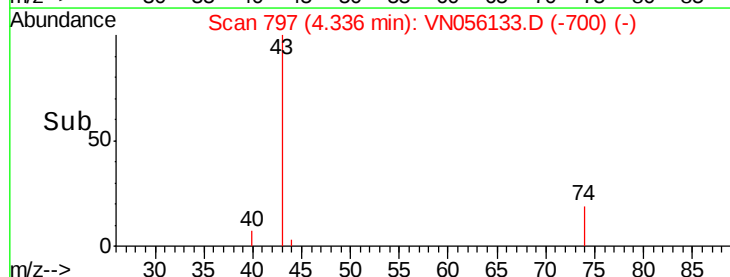
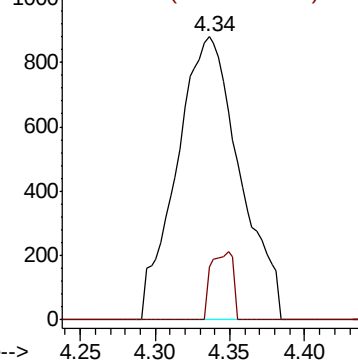
43 100

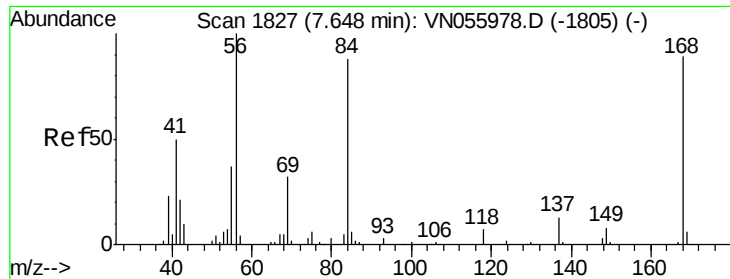
74 8.6 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

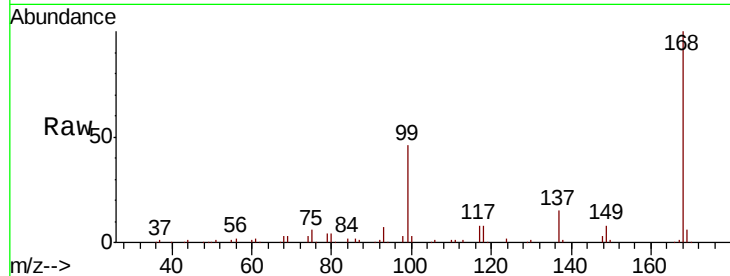




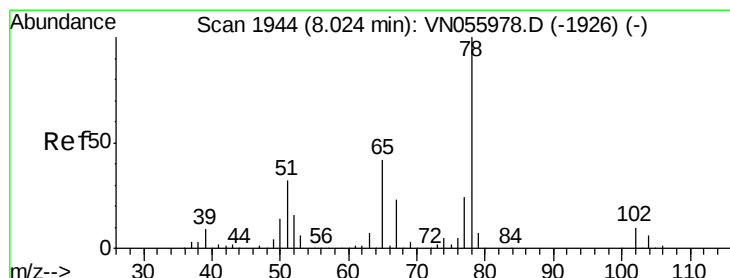
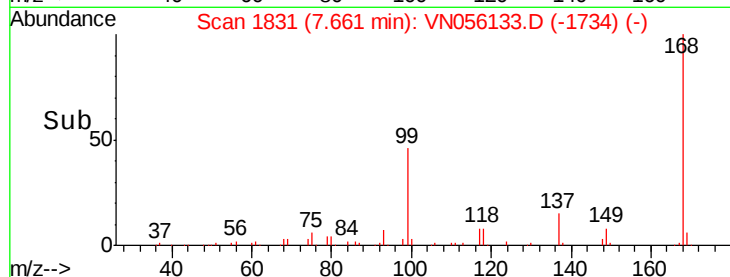
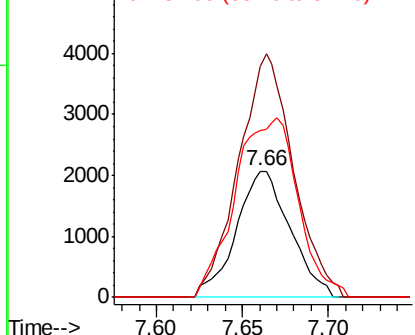
#31
Cyclohexane
Concen: 0.897 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056133.D
Acq: 8 Jun 2019 6:37

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4510
Ion Ratio Lower Upper
56 100
69 183.1 25.6 38.4#
84 132.1 67.4 101.0#

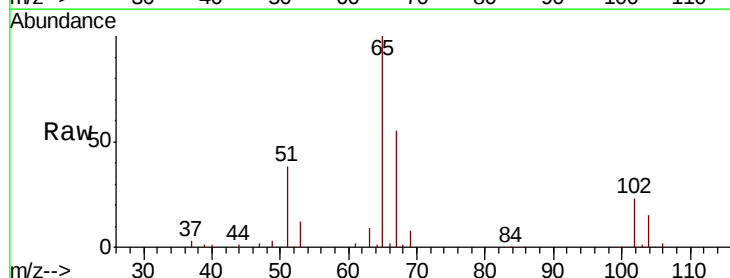


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

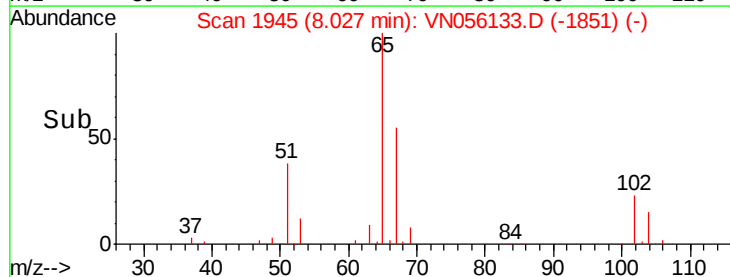
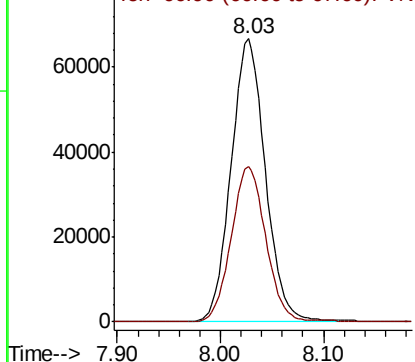


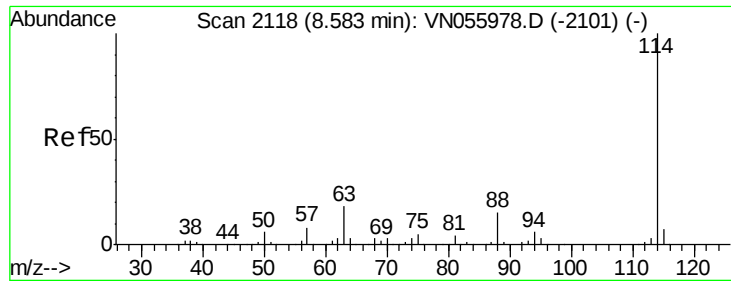
#33
1,2-Dichloroethane-d4
Concen: 48.734 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056133.D
Acq: 8 Jun 2019 6:37

Tgt Ion: 65 Resp: 154447
Ion Ratio Lower Upper
65 100
67 55.5 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

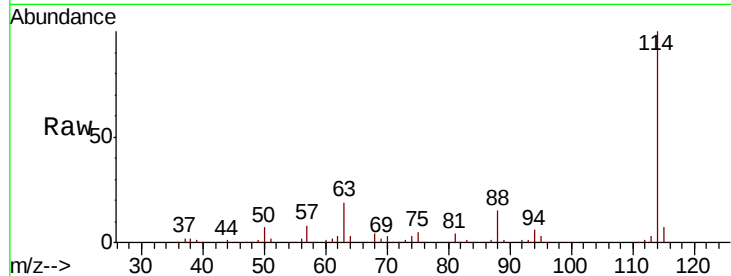




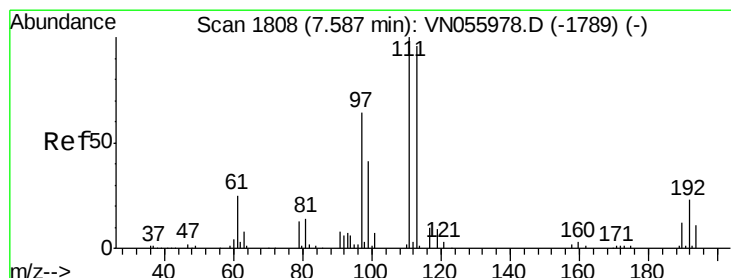
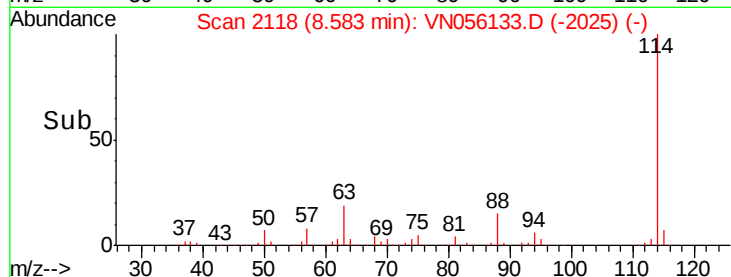
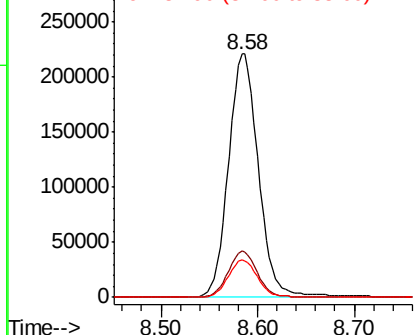
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN056133.D
Acq: 8 Jun 2019 6:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 475396
Ion Ratio Lower Upper
114 100
63 18.9 0.0 39.2
88 15.2 0.0 31.0

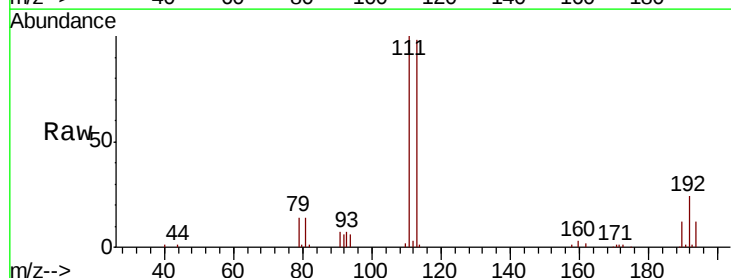


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

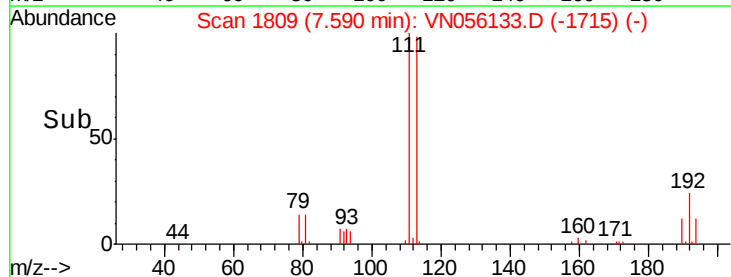
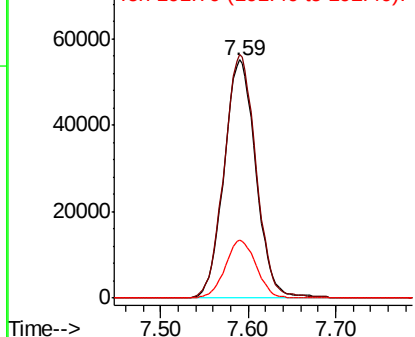


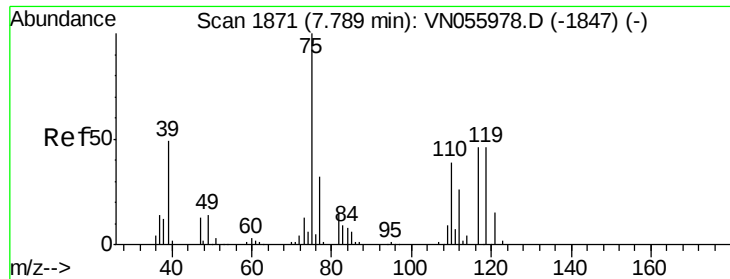
#35
Dibromofluoromethane
Concen: 47.760 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056133.D
Acq: 8 Jun 2019 6:37

Tgt Ion:113 Resp: 139301
Ion Ratio Lower Upper
113 100
111 102.4 81.9 122.9
192 23.6 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

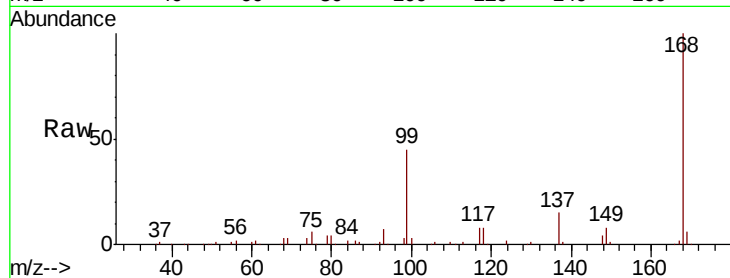




#36
 1,1-Dichloropropene
 Concen: 4.526 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056133.D
 Acq: 8 Jun 2019 6:37

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	18502
Ion Ratio	100	Lower	Upper
75	100		
110	9.6	19.0	57.0#
77	0.0	25.1	37.7#

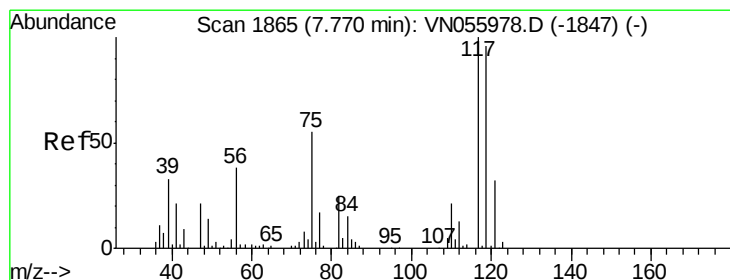
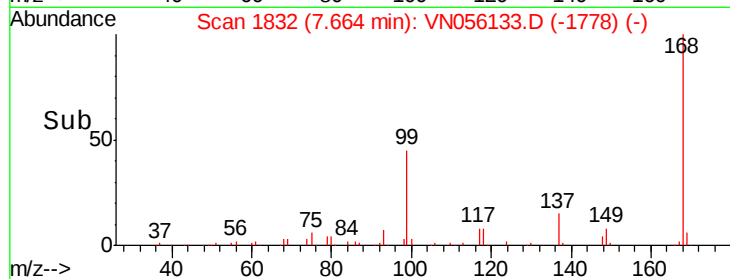
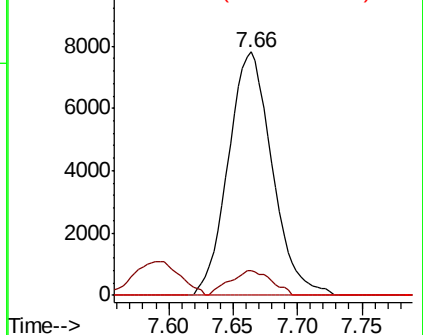


Abundance

Ion 74.90 (74.60 to 75.60): VN056133.D (-1778) (-)

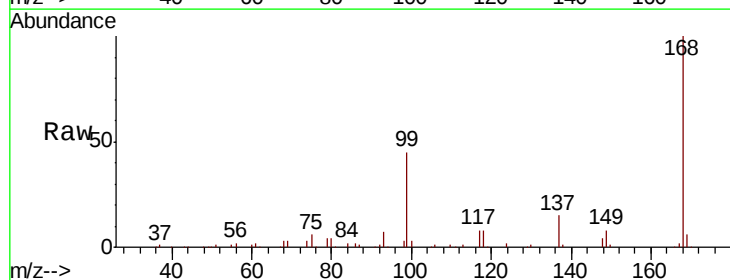
Ion 109.90 (109.60 to 110.60): VN056133.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN056133.D (-1778) (-)



#38
 Carbon Tetrachloride
 Concen: 6.739 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056133.D
 Acq: 8 Jun 2019 6:37

Tgt Ion	117	Resp	25397
Ion Ratio	100	Lower	Upper
117	100		
119	4.6	79.0	118.6#
121	0.0	24.7	37.1#

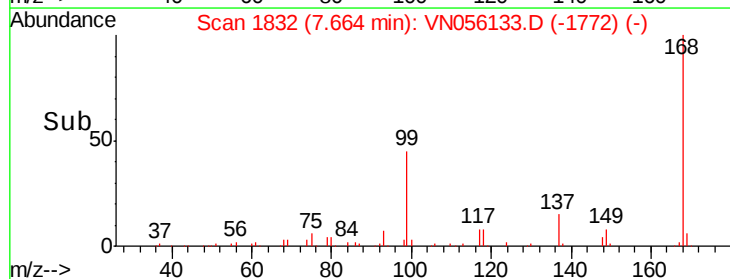
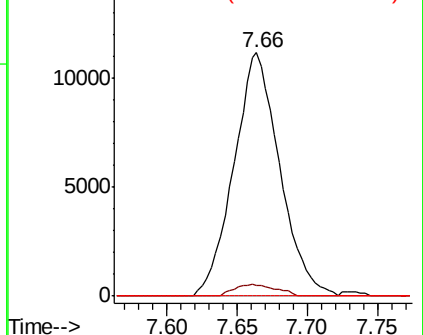


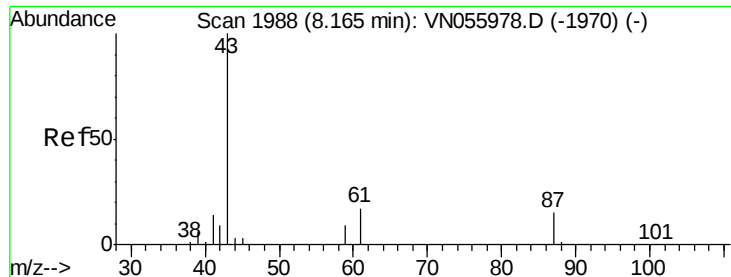
Abundance

Ion 116.80 (116.50 to 117.50): VN056133.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN056133.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN056133.D (-1772) (-)





#43

Isopropyl Acetate

Concen: 0.352 ug/l

RT: 8.30 min Scan# 2031

Delta R.T. 0.14 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

Instrument :

MSVOA_N

ClientSampleId :

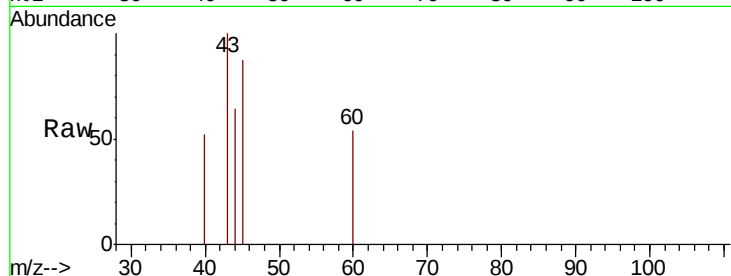
Tot Ion: 43 Resp: 2072

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

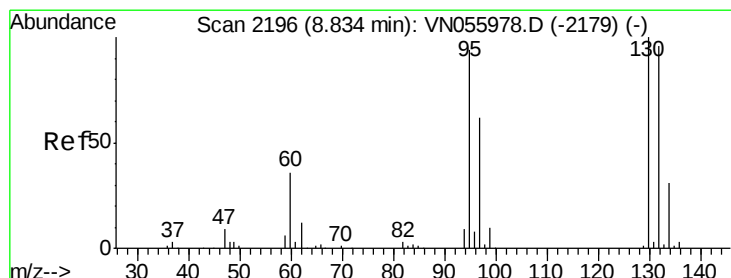
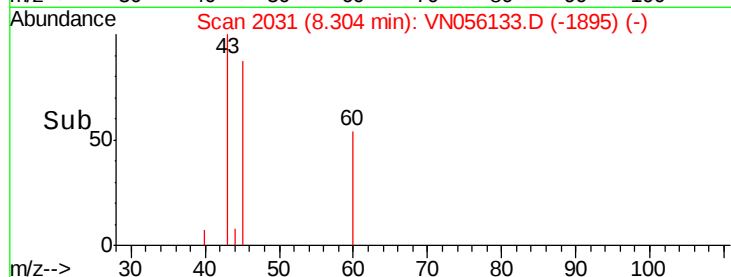
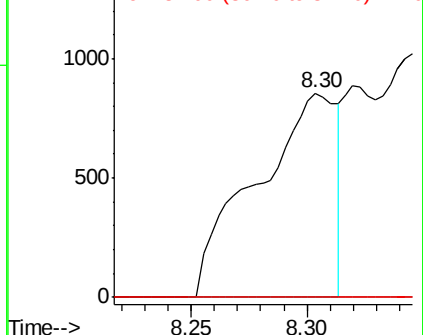
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)



#44

Trichloroethene

Concen: 0.392 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056133.D

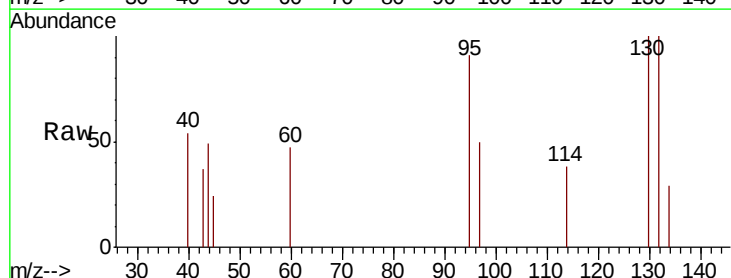
Acq: 8 Jun 2019 6:37

Tgt Ion: 130 Resp: 1399

Ion Ratio Lower Upper

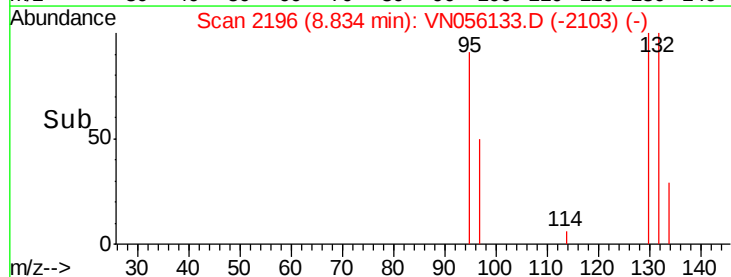
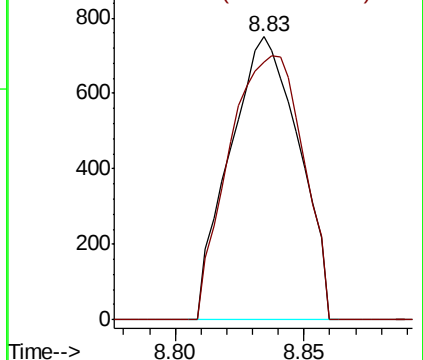
130 100

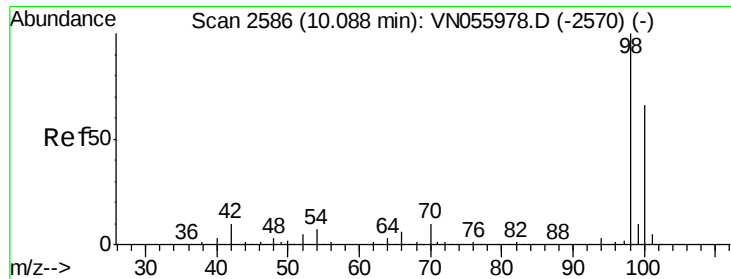
95 91.1 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055978.D (-2179) (-)





#50

Toluene-d8

Concen: 50.841 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

Instrument :

MSVOA_N

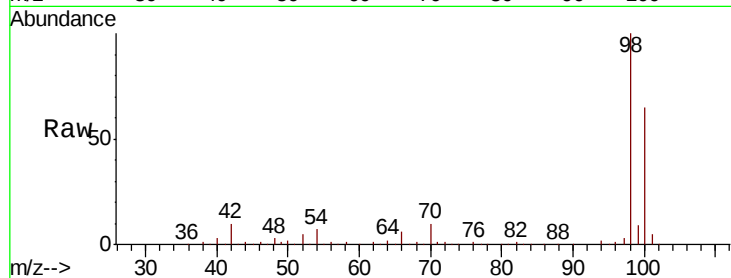
ClientSampleId :

Tot Ion: 98 Resp: 570616

Ion Ratio Lower Upper

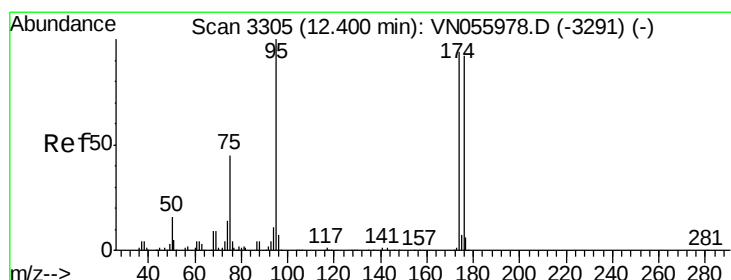
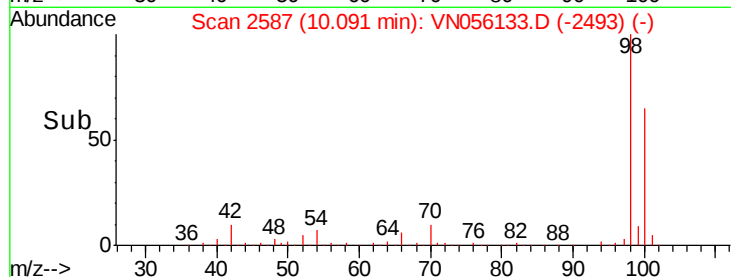
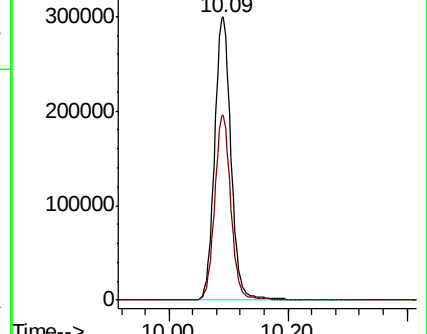
98 100

100 64.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 43.620 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

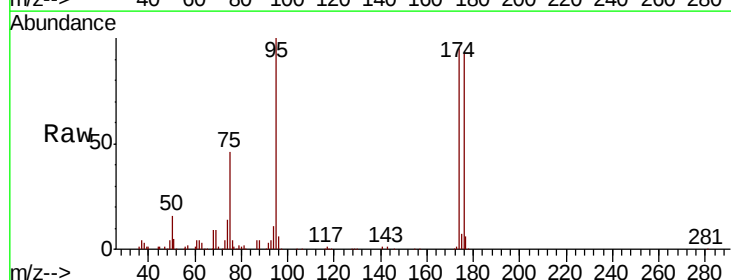
Tgt Ion: 95 Resp: 166490

Ion Ratio Lower Upper

95 100

174 96.3 0.0 191.0

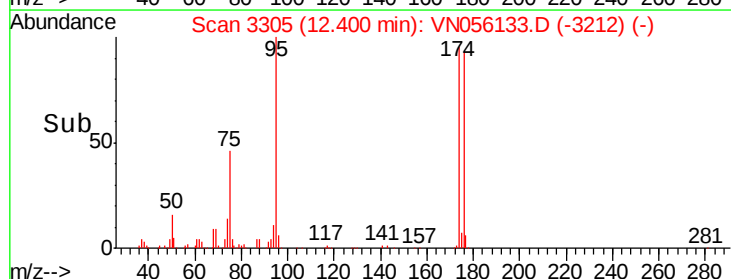
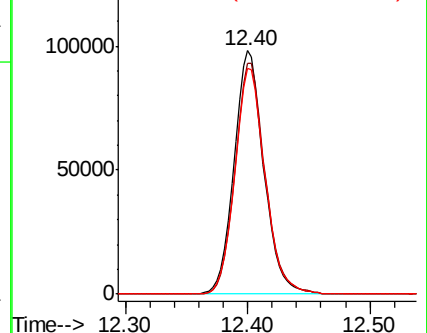
176 93.9 0.0 185.2

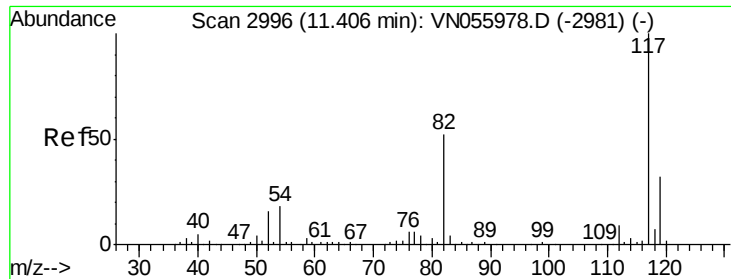


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

Instrument :

MSVOA_N

ClientSampleId :

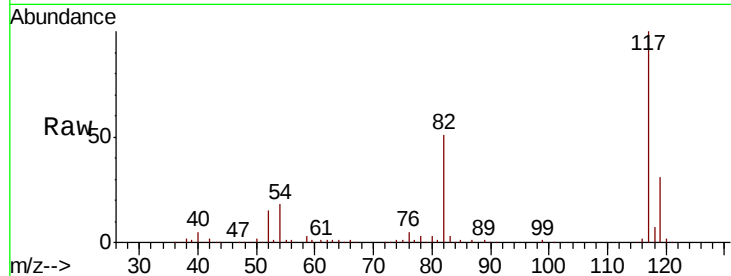
Tot Ion:117 Resp: 438703

Ion Ratio Lower Upper

117 100

82 50.7 41.8 62.8

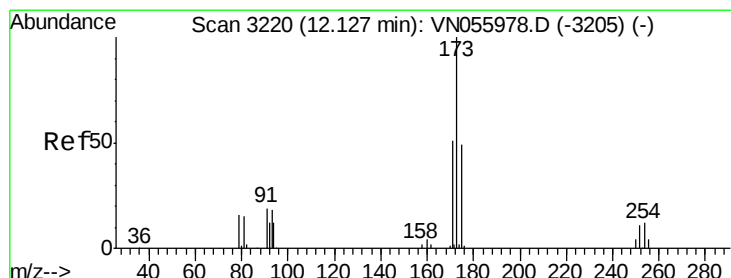
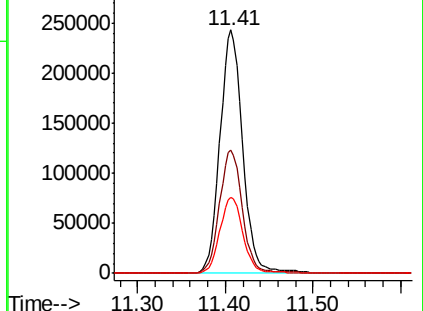
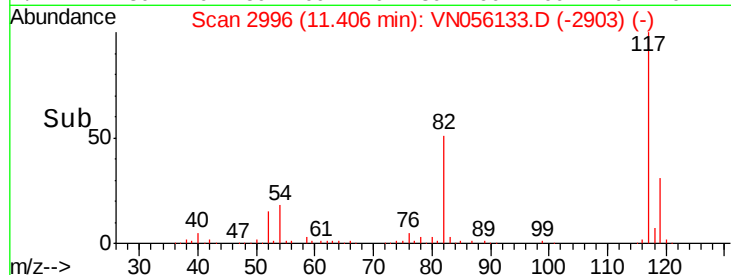
119 31.4 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.189 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

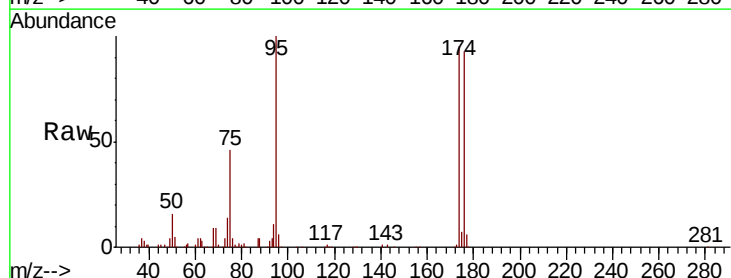
Tgt Ion:173 Resp: 1198

Ion Ratio Lower Upper

173 100

175 856.7 24.3 72.8#

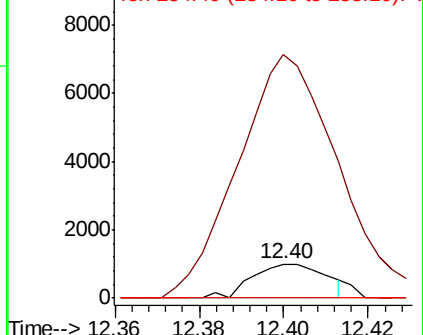
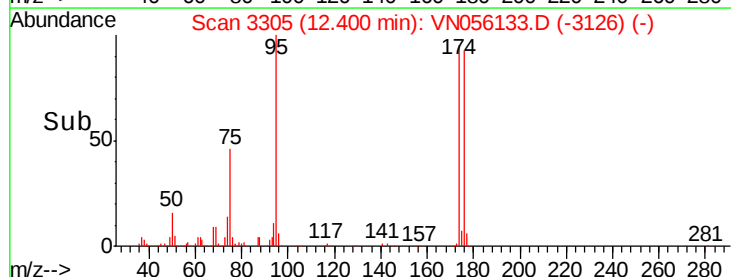
254 0.0 0.0 0.0

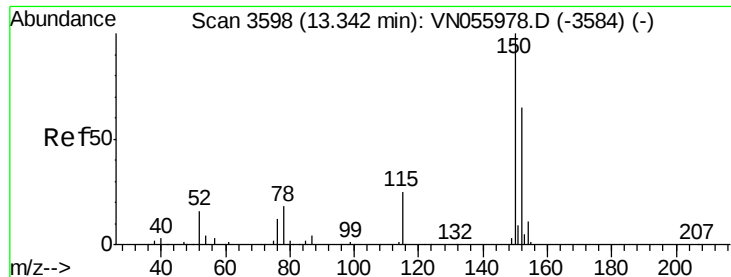


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



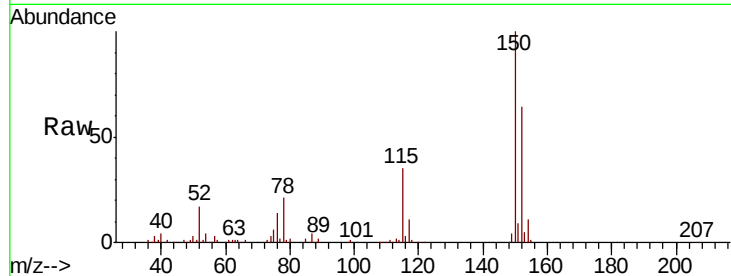


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056133.D
Acq: 8 Jun 2019 6:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.0	27.0	81.0
150	156.9	0.0	343.2

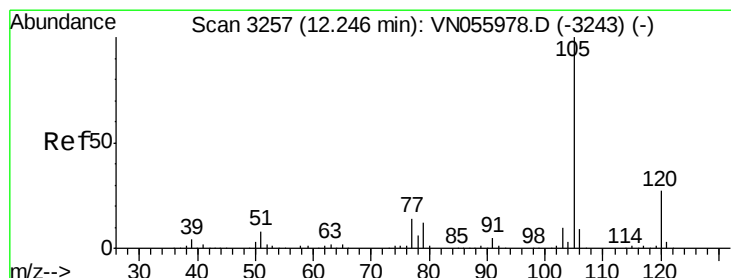
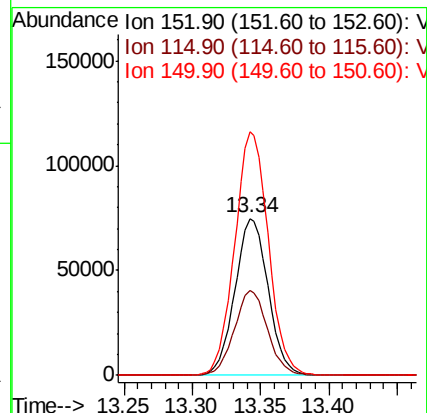
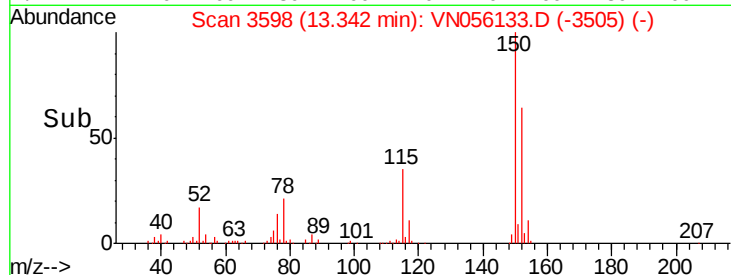


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

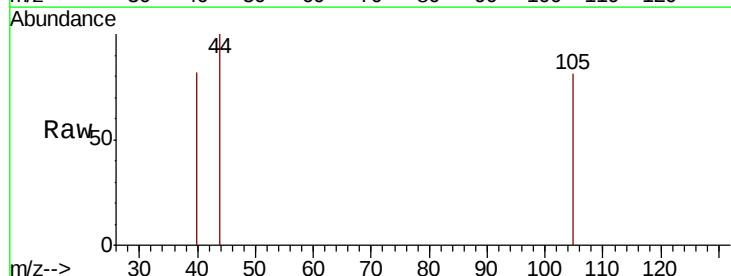
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3259
Delta R.T. 0.01 min
Lab File: VN056133.D
Acq: 8 Jun 2019 6:37

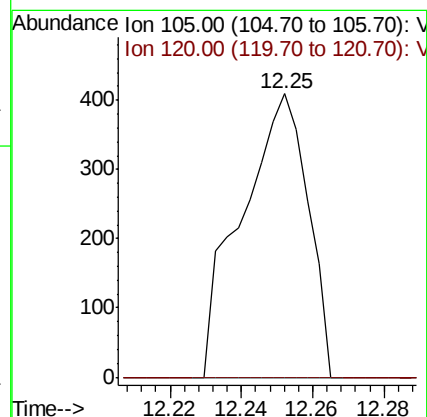
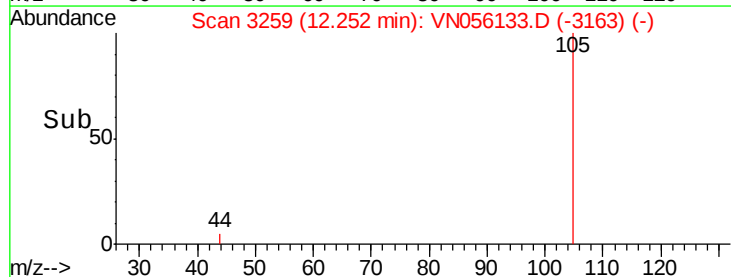
Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.6	40.7#

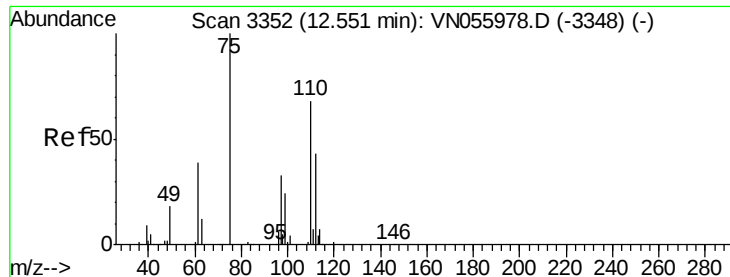


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 32.670 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

Instrument :

MSVOA_N

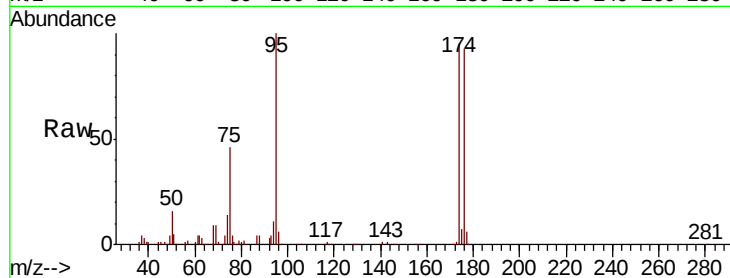
ClientSampled :

Tot Ion: 75 Resp: 76018

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

12.40

50000

40000

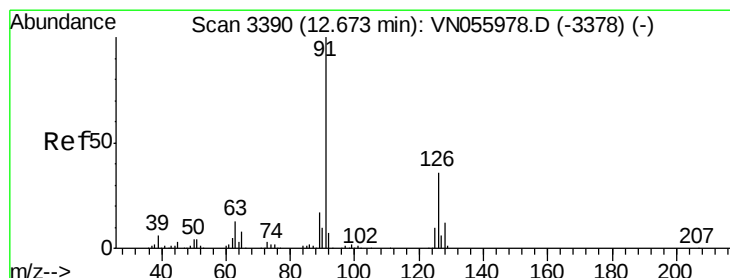
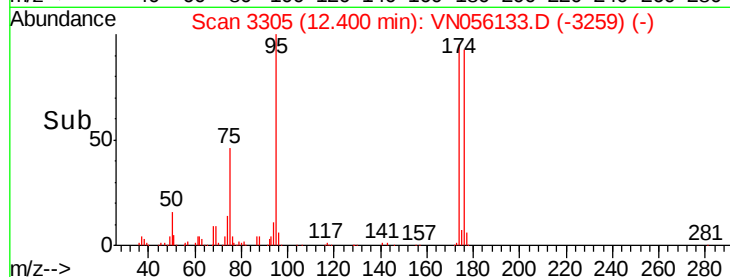
30000

20000

10000

0

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3392

Delta R.T. 0.01 min

Lab File: VN056133.D

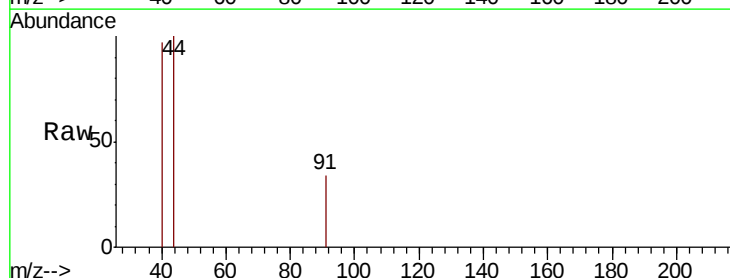
Acq: 8 Jun 2019 6:37

Tgt Ion: 91 Resp: 29

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

12.68

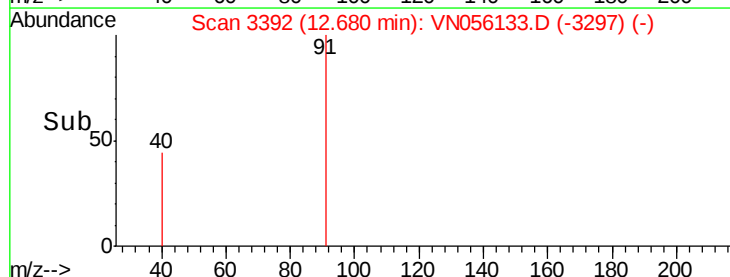
150

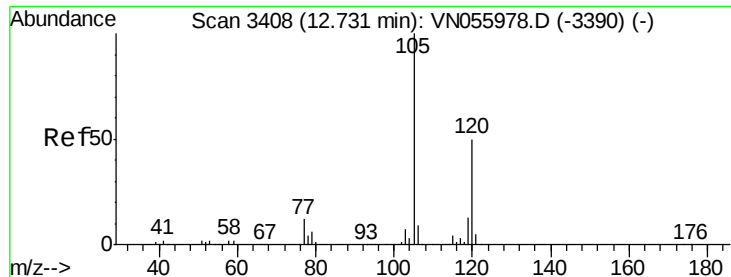
100

50

0

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 0.261 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

Instrument :

MSVOA_N

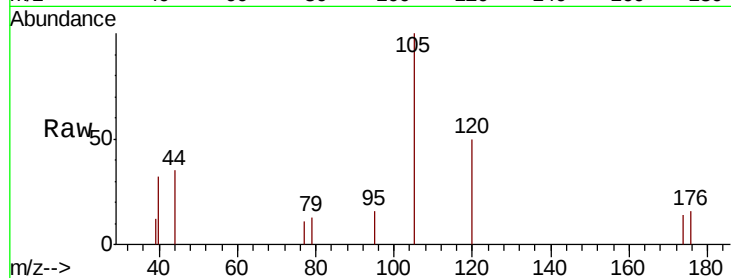
ClientSampleId :

Tot Ion:105 Resp: 2218

Ion Ratio Lower Upper

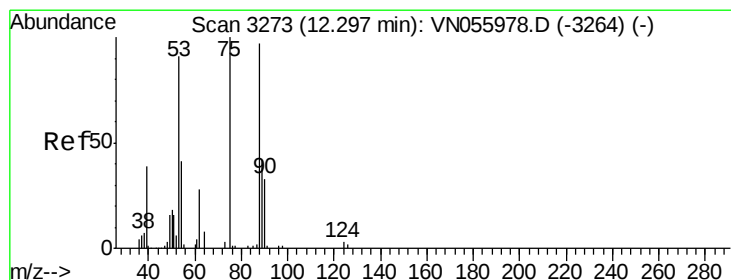
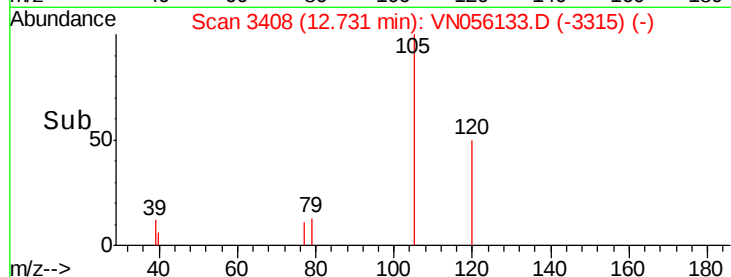
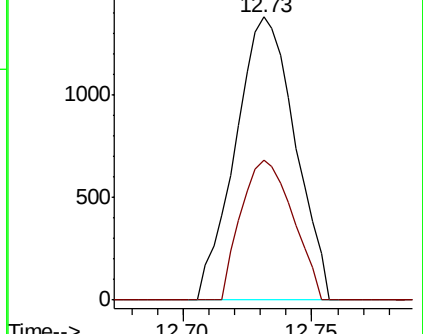
105 100

120 43.0 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 108.796 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056133.D

Acq: 8 Jun 2019 6:37

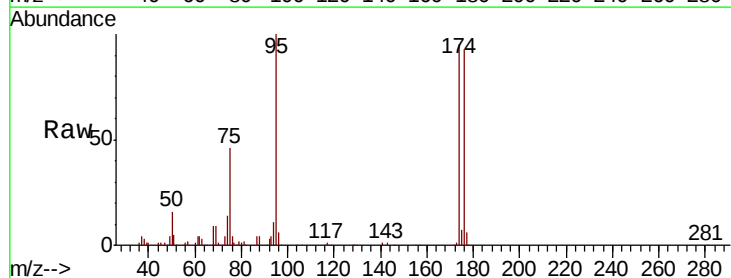
Tgt Ion: 75 Resp: 76018

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

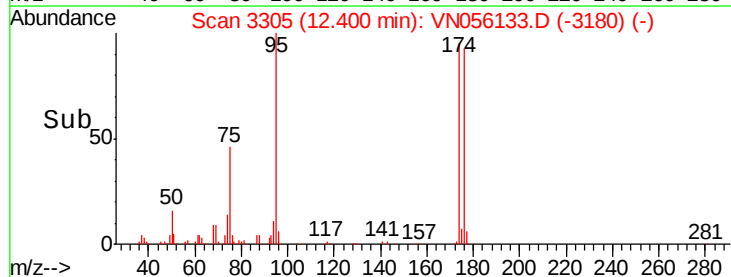
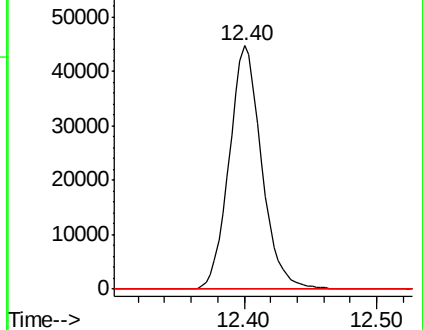
89 0.0 36.9 55.3#

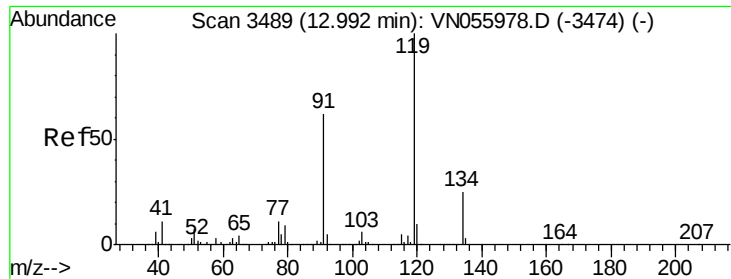


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

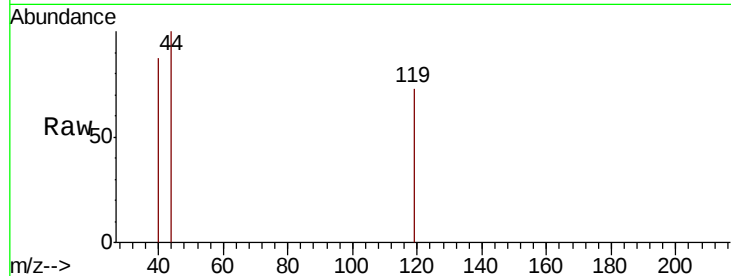




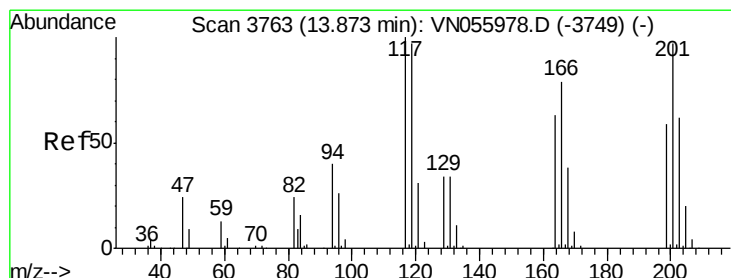
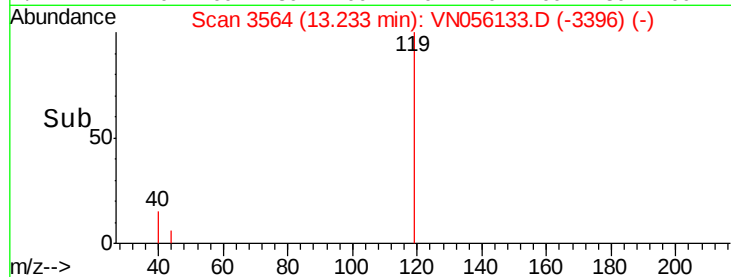
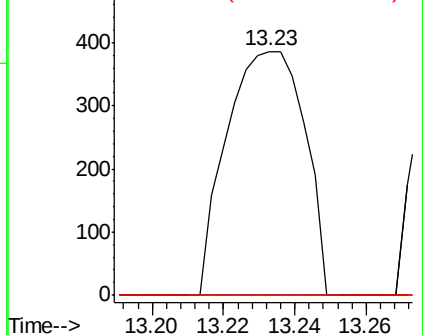
#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.23 min Scan# 3564
Delta R.T. 0.24 min
Lab File: VN056133.D
Acq: 8 Jun 2019 6:37

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:119 Resp: 582
Ion Ratio Lower Upper
119 100
91 0.0 30.9 92.8#
134 0.0 13.3 39.8#

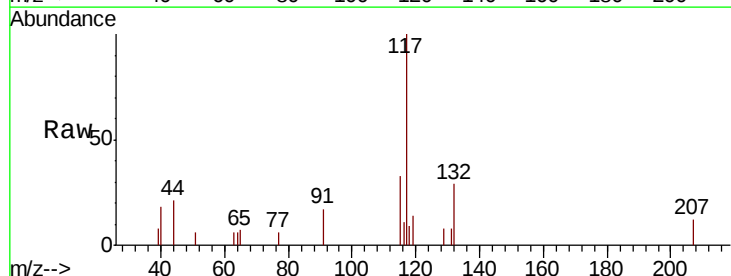


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

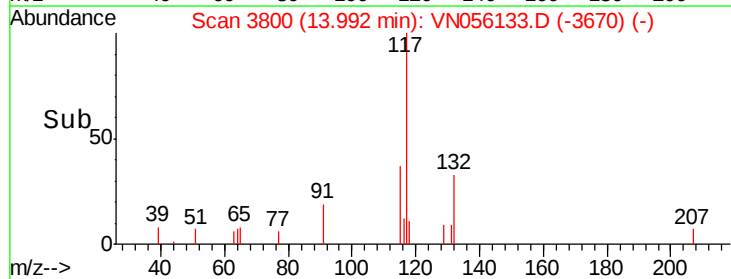
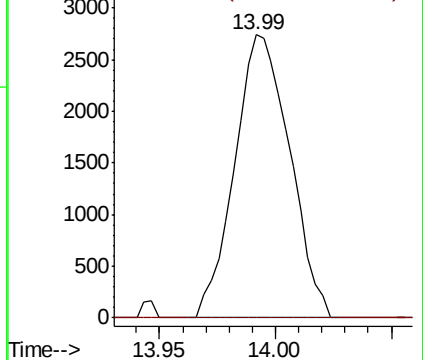


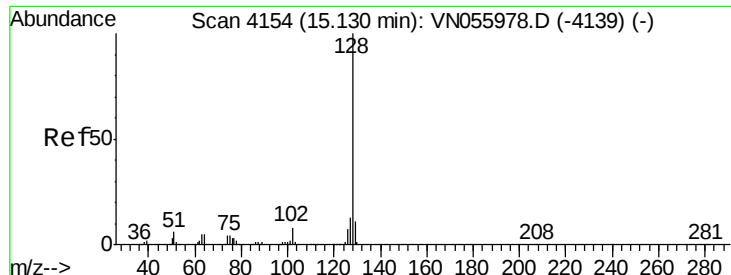
#90
Hexachloroethane
Concen: 3.539 ug/l
RT: 13.99 min Scan# 3800
Delta R.T. 0.12 min
Lab File: VN056133.D
Acq: 8 Jun 2019 6:37

Tgt Ion:117 Resp: 4526
Ion Ratio Lower Upper
117 100
201 0.0 50.0 150.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

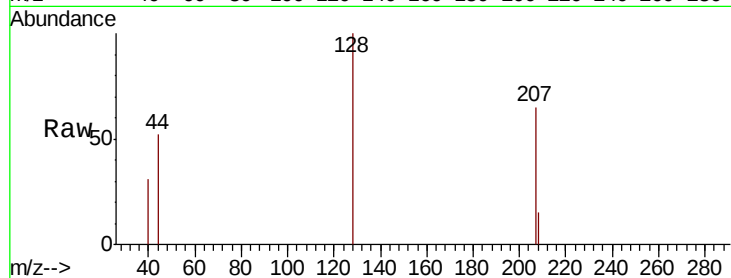




#95
 Naphthalene
 Concen: 4.170 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN056133.D
 Acq: 8 Jun 2019 6:37

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	3.3	10.3	15.5#
129	1.4	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

