

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056199.D
 Acq On : 11 Jun 2019 4:45
 Operator : JC/SP
 Sample : K3255-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D2-20190605

Quant Time: Jun 11 05:11:08 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	306589	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	462421	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	449599	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139656	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	162638	53.43	ug/l	0.00
Spiked Amount			Recovery	=	106.86%	
35) Dibromofluoromethane	7.59	113	152172	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	
50) Toluene-d8	10.09	98	589959	54.04	ug/l	0.00
Spiked Amount			Recovery	=	108.08%	
62) 4-Bromofluorobenzene	12.40	95	185535	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	

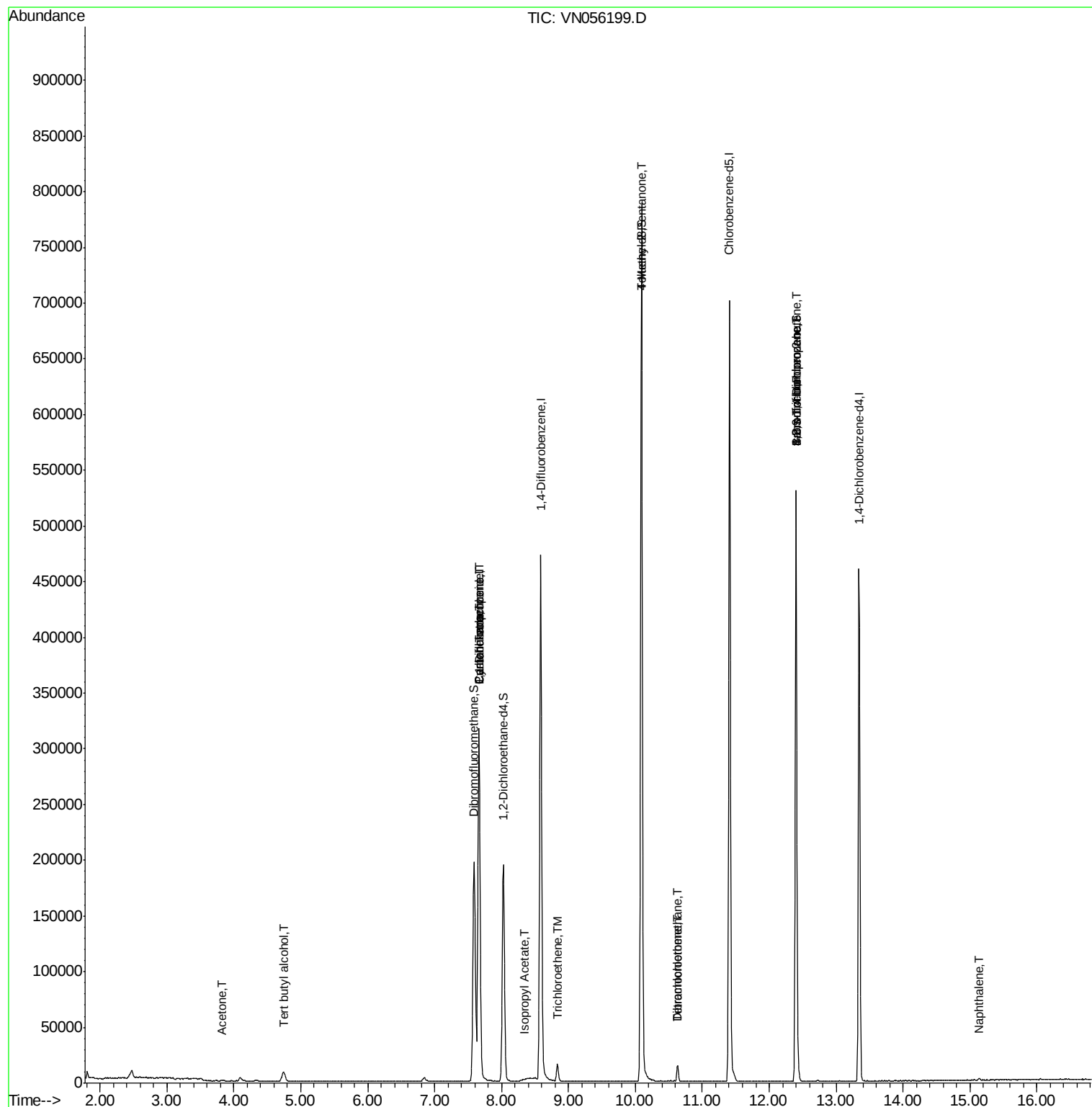
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	8398	15.853	ug/l #	74
16) Acetone	3.83	43	1996	1.371	ug/l	94
31) Cyclohexane	7.66	56	4185	0.866	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17140	4.311	ug/l #	47
38) Carbon Tetrachloride	7.66	117	25037	6.830	ug/l #	15
43) Isopropyl Acetate	8.34	43	2605	0.454	ug/l #	53
44) Trichloroethene	8.83	130	6364	1.834	ug/l	95
51) 4-Methyl-2-Pentanone	10.09	43	2204	0.615	ug/l #	1
60) Dibromochloromethane	10.63	129	3176	3.372	ug/l #	11
64) Tetrachloroethene	10.63	164	3725	0.957	ug/l	99
71) Bromoform	12.40	173	1380	3.245	ug/l #	1
73) Isopropylbenzene	12.40	105	64	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	84816	33.006	ug/l #	100
79) 2-Chlorotoluene	12.67	91	30	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	84816	109.916	ug/l #	15
95) Naphthalene	15.14	128	2299	4.169	ug/l #	79

(#) = 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: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

MSVOA_N

ClientSampleId :

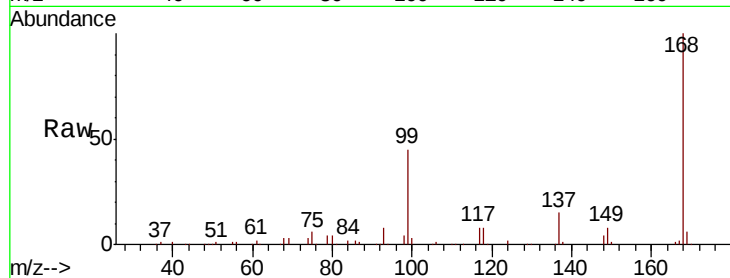
RE123D2-20190605

Tot Ion:168 Resp: 306589

Ion Ratio Lower Upper

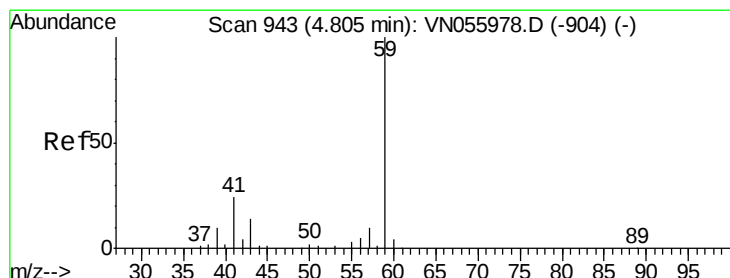
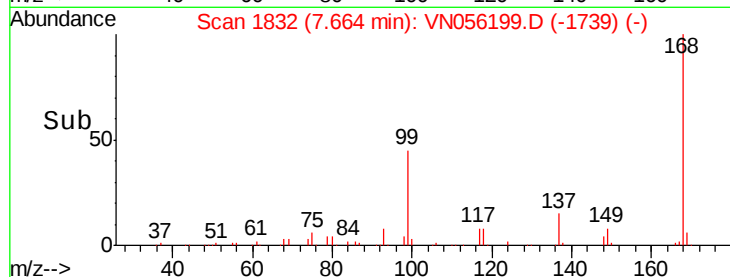
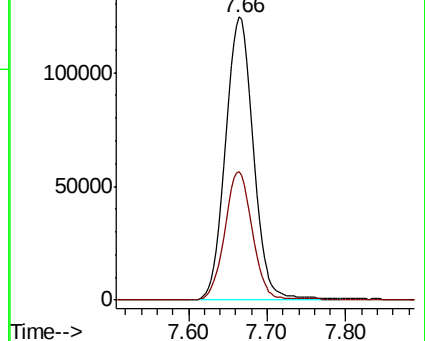
168 100

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



#11

Tert butyl alcohol

Concen: 15.853 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056199.D

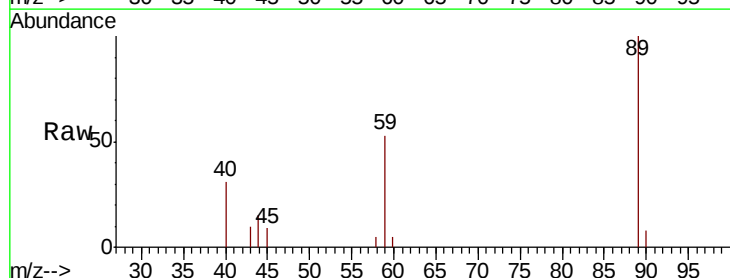
Acq: 11 Jun 2019 4:45

Tgt Ion: 59 Resp: 8398

Ion Ratio Lower Upper

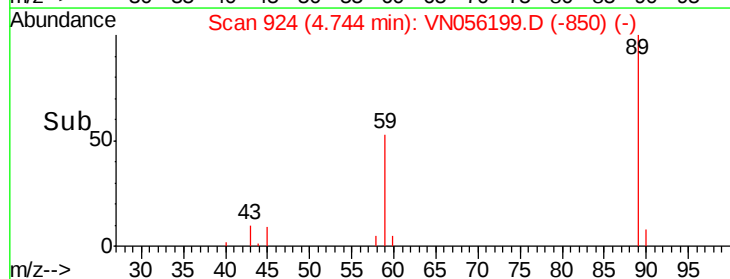
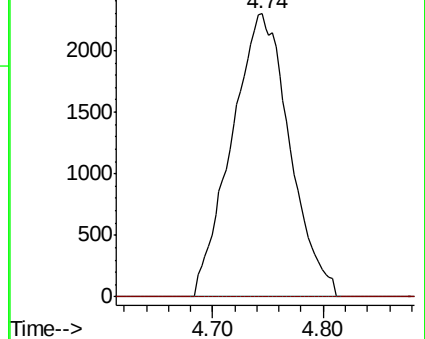
59 100

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





#16

Acetone

Concen: 1.371 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

MSVOA_N

ClientSampleId :

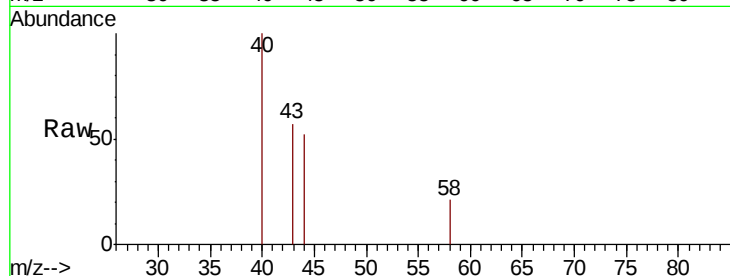
RE123D2-20190605

Tot Ion: 43 Resp: 1996

Ion Ratio Lower Upper

43 100

58 36.4 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

600

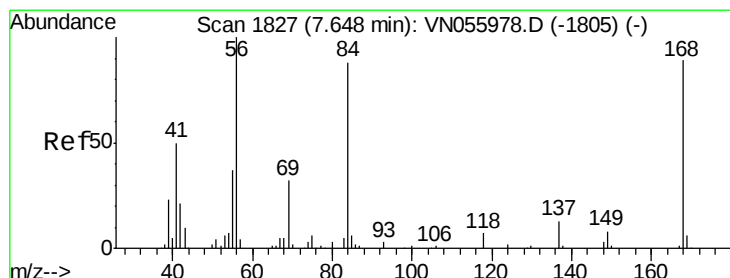
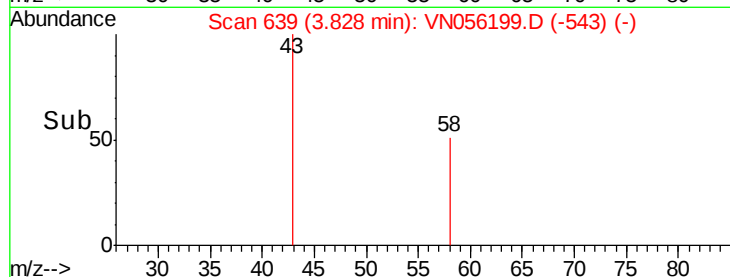
400

200

0

Time-->

3.75 3.80 3.85 3.90



#31

Cyclohexane

Concen: 0.866 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

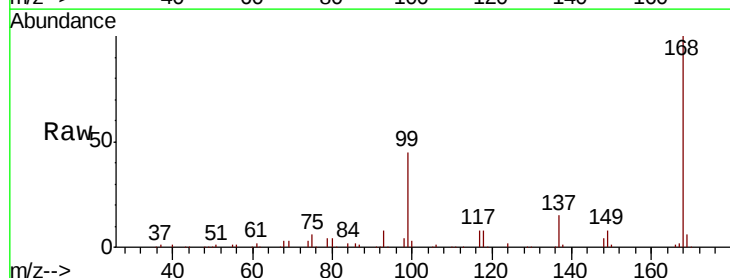
Tgt Ion: 56 Resp: 4185

Ion Ratio Lower Upper

56 100

69 181.9 25.6 38.4#

84 165.3 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

4000

3000

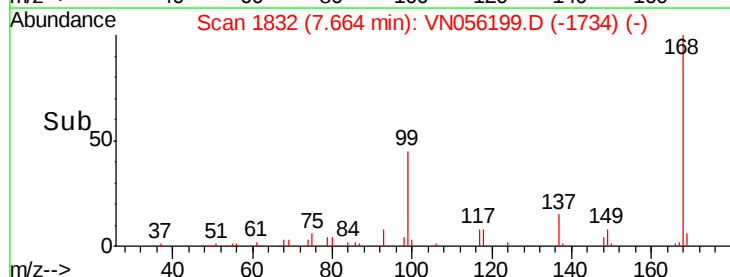
2000

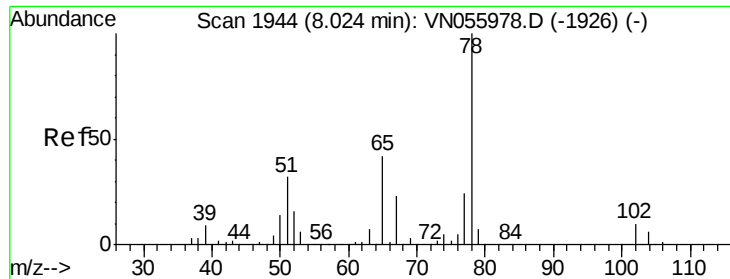
1000

0

Time-->

7.60 7.65 7.70

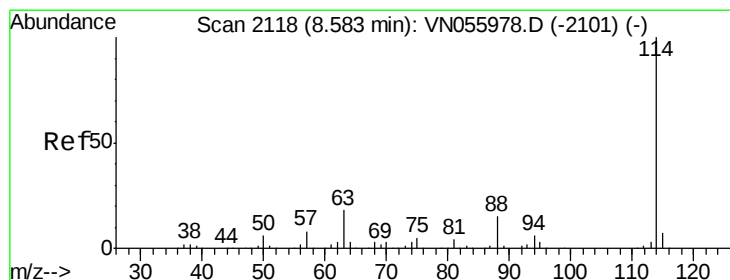
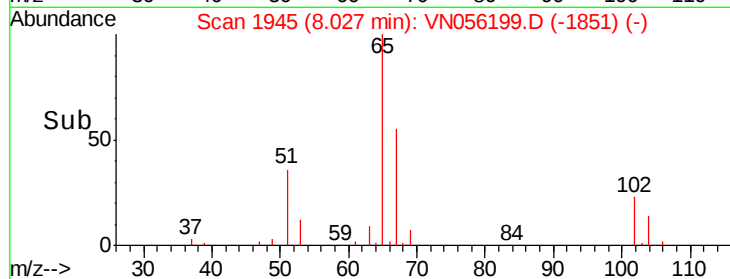
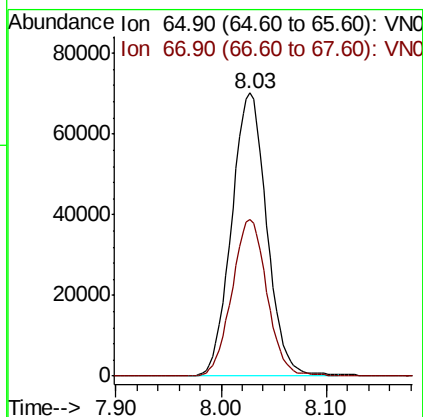
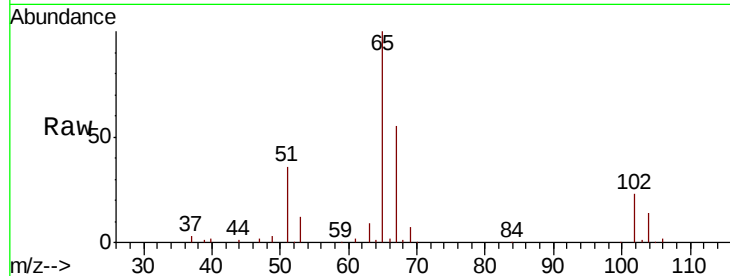




#33
 1,2-Dichloroethane-d4
 Concen: 53.426 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056199.D
 Acq: 11 Jun 2019 4:45

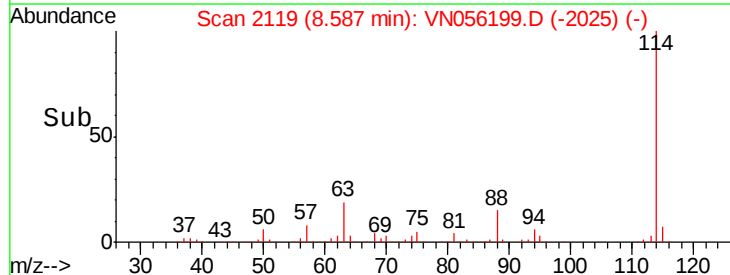
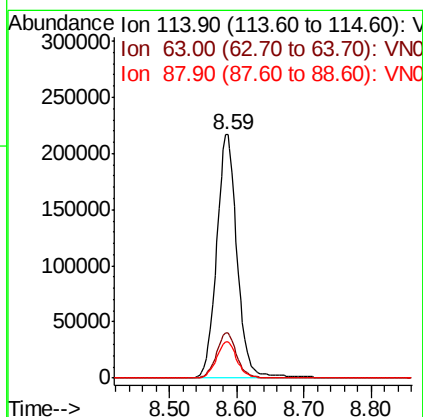
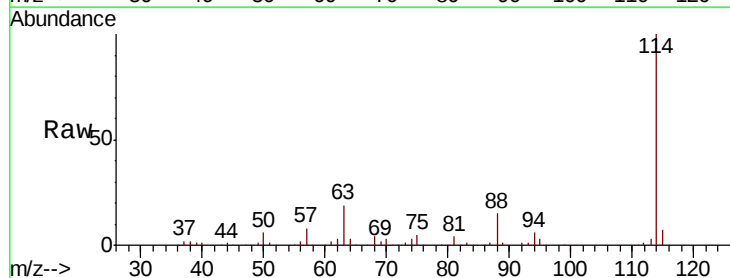
Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D2-20190605

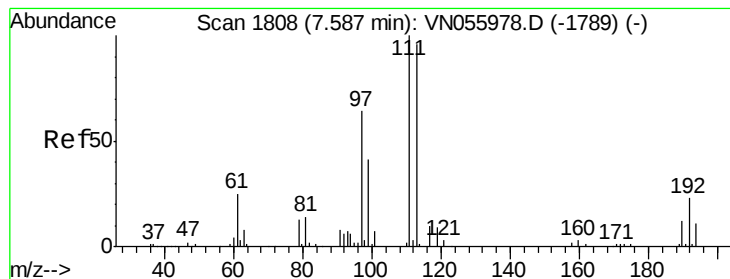
Tot Ion: 65 Resp: 162638
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056199.D
 Acq: 11 Jun 2019 4:45

Tgt Ion: 114 Resp: 462421
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 14.9 0.0 31.0





#35

Dibromofluoromethane

Concen: 53.636 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

MSVOA_N

ClientSampleId :

RE123D2-20190605

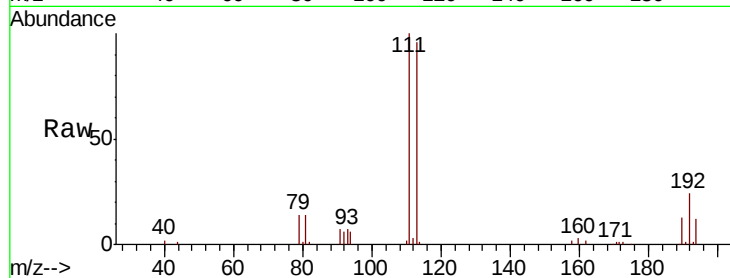
Tot Ion:113 Resp: 152172

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

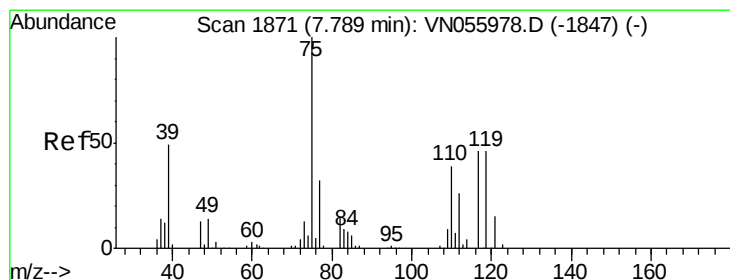
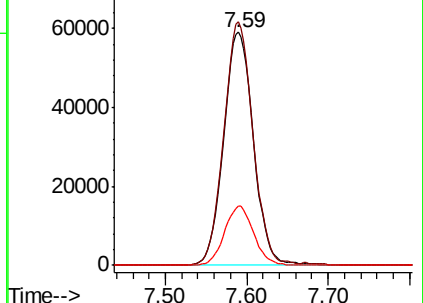
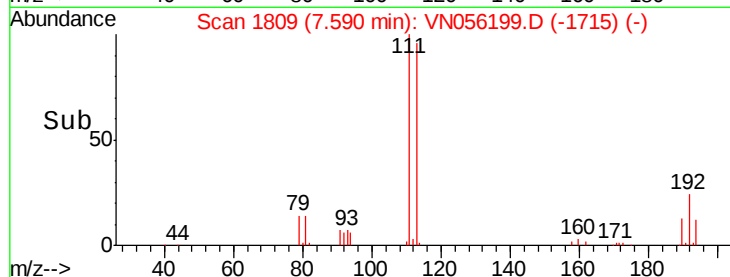
192 24.8 19.5 29.3



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: 4.311 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

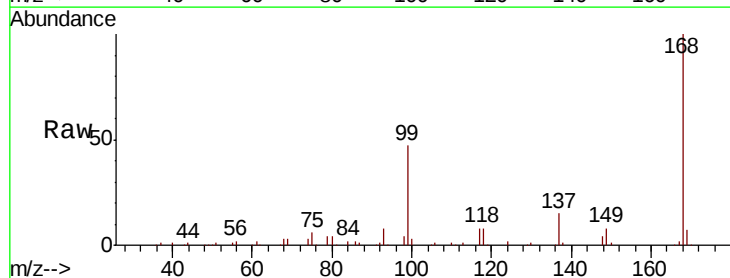
Tgt Ion: 75 Resp: 17140

Ion Ratio Lower Upper

75 100

110 8.1 19.0 57.0#

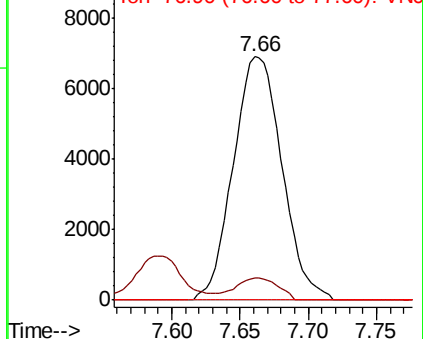
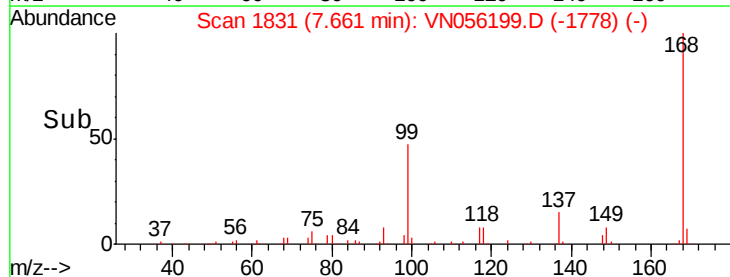
77 0.0 25.1 37.7#

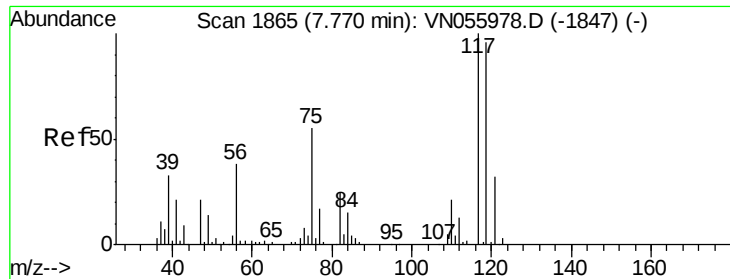


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.830 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

MSVOA_N

ClientSampleId :

RE123D2-20190605

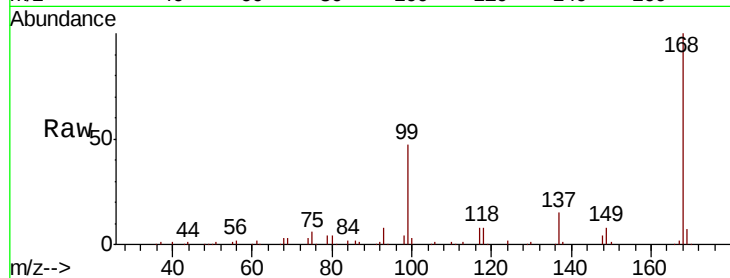
Tot Ion:117 Resp: 25037

Ion Ratio Lower Upper

117 100

119 5.4 79.0 118.6#

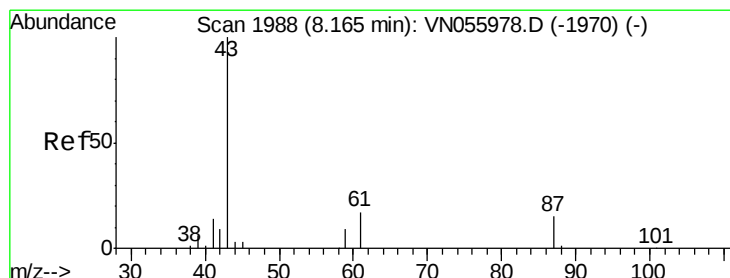
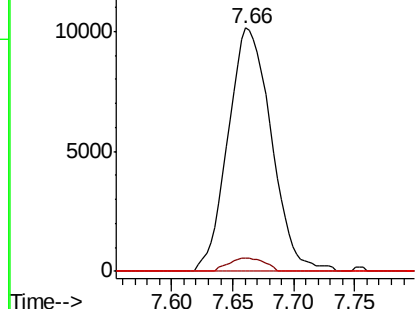
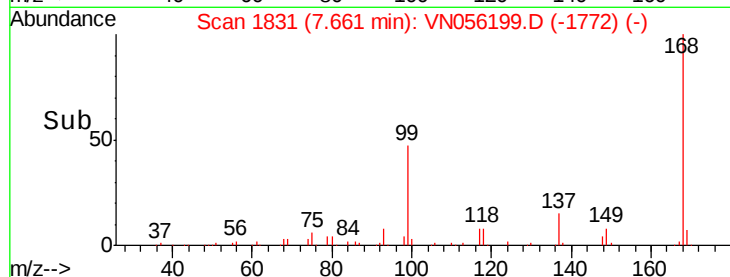
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.454 ug/l

RT: 8.34 min Scan# 2042

Delta R.T. 0.17 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

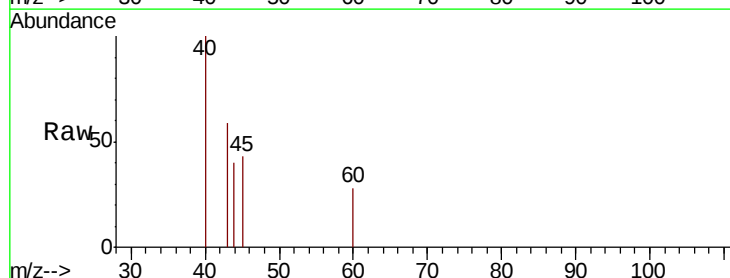
Tgt Ion: 43 Resp: 2605

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

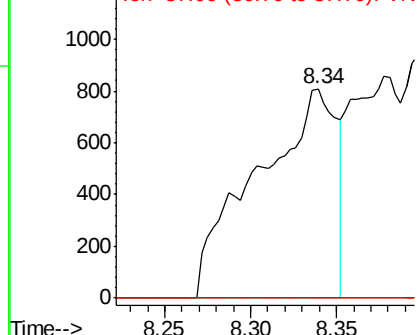
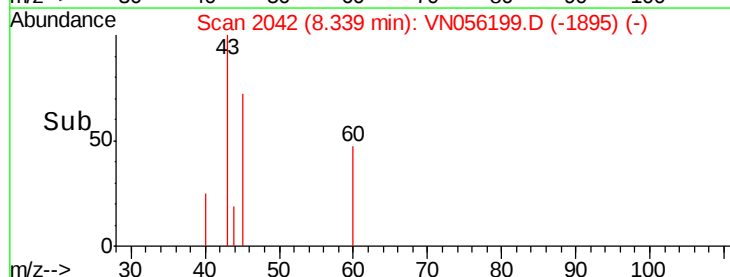
87 0.0 11.4 17.2#

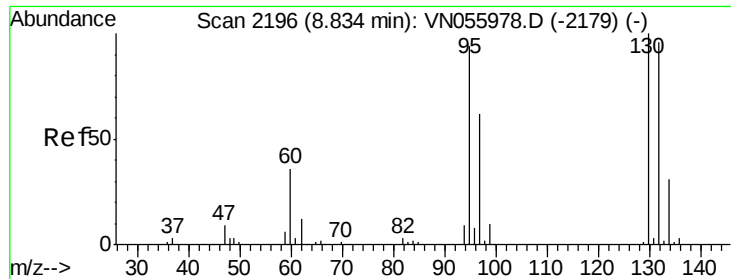


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#44

Trichloroethene

Concen: 1.834 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

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ClientSampleId :

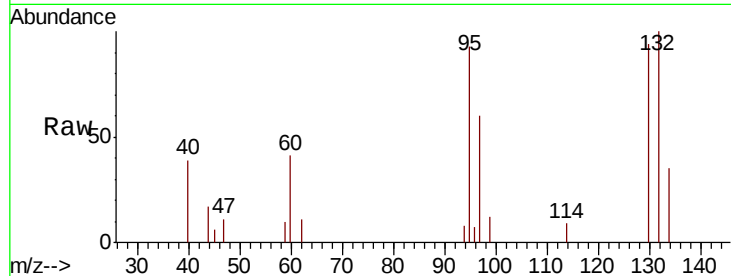
RE123D2-20190605

Tot Ion:130 Resp: 6364

Ion Ratio Lower Upper

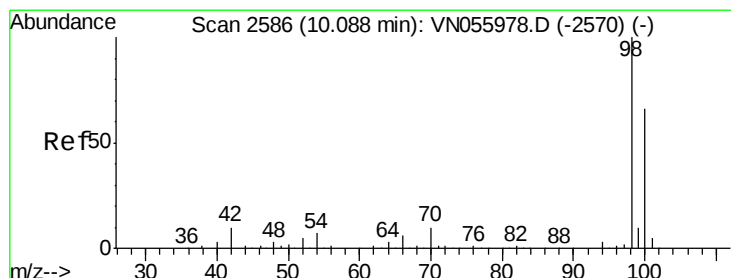
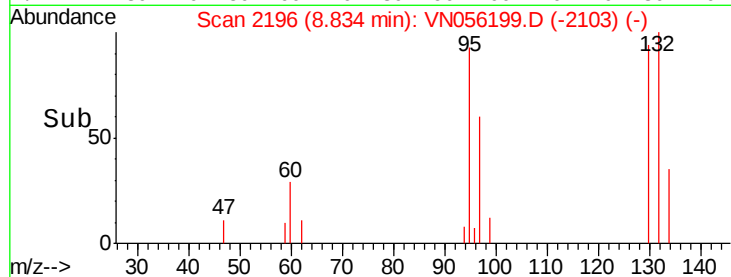
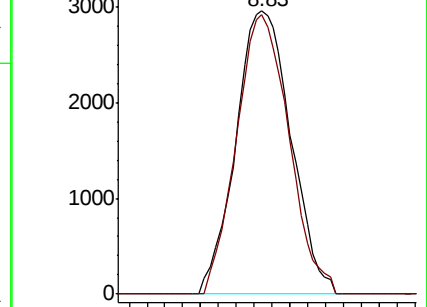
130 100

95 98.9 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 54.039 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056199.D

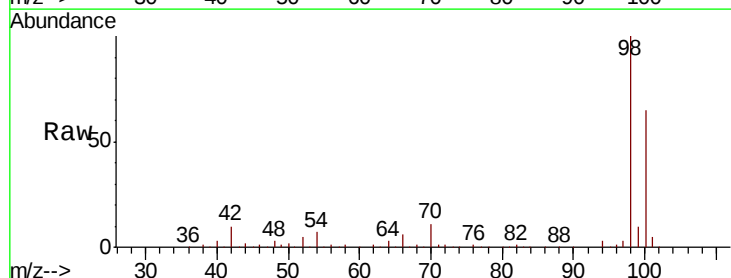
Acq: 11 Jun 2019 4:45

Tgt Ion: 98 Resp: 589959

Ion Ratio Lower Upper

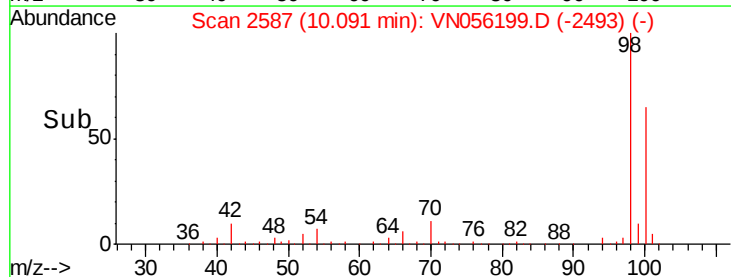
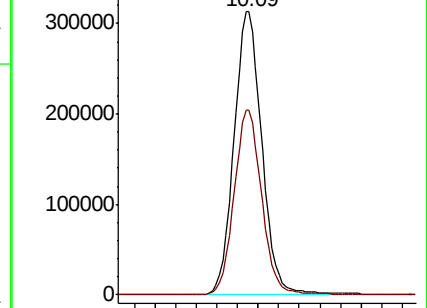
98 100

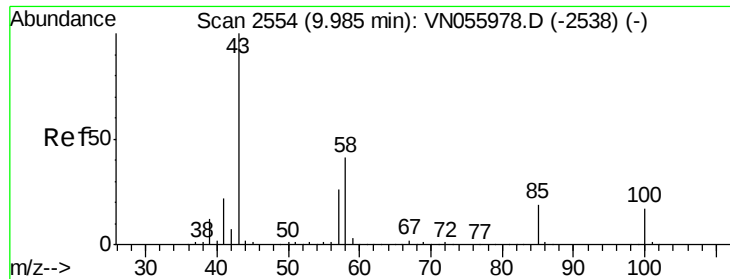
100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.615 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

MSVOA_N

ClientSampleId :

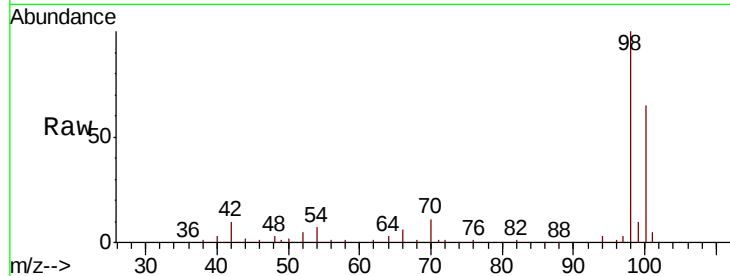
RE123D2-20190605

Tot Ion: 43 Resp: 2204

Ion Ratio Lower Upper

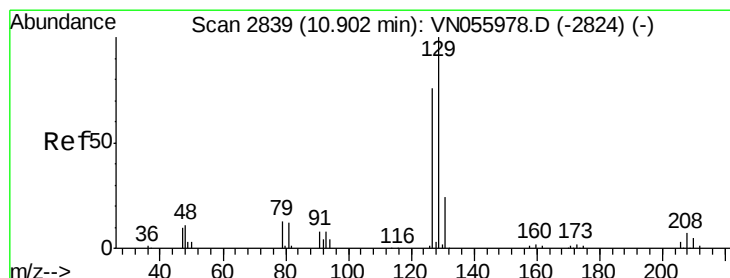
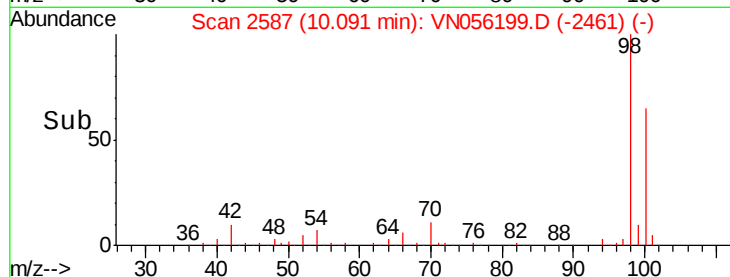
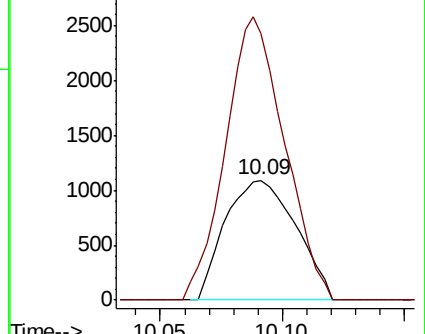
43 100

58 196.3 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)



#60

Dibromochloromethane

Concen: 3.372 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN056199.D

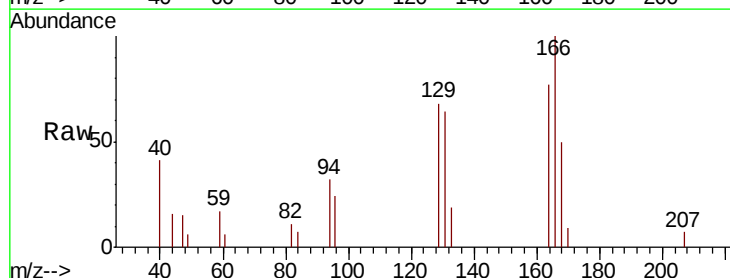
Acq: 11 Jun 2019 4:45

Tgt Ion: 129 Resp: 3176

Ion Ratio Lower Upper

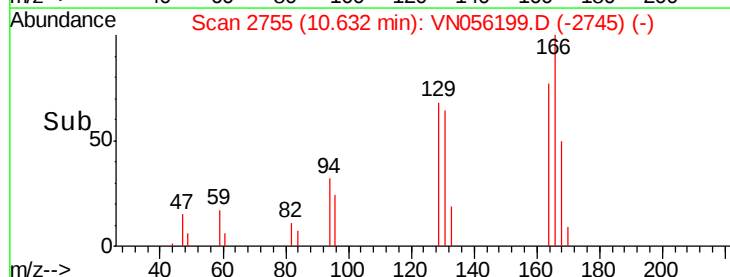
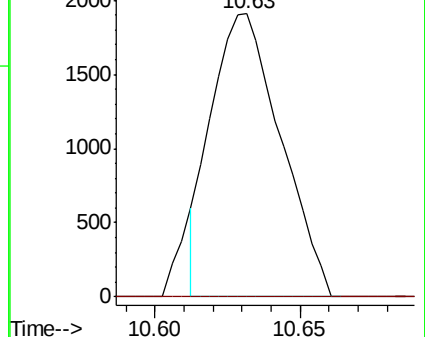
129 100

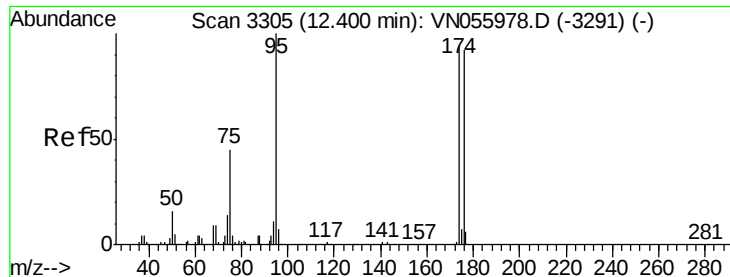
127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): VN055978.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN055978.D (-2824) (-)





#62

4-Bromofluorobenzene

Concen: 49.973 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

MSVOA_N

ClientSampleId :

RE123D2-20190605

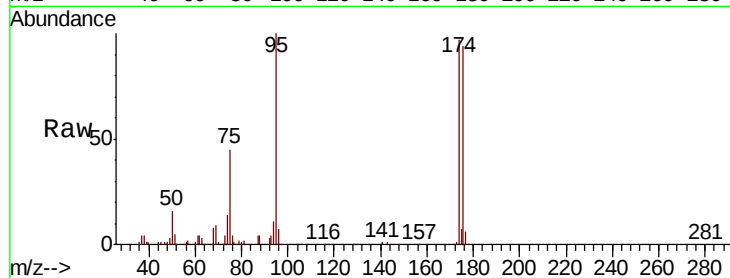
Tot Ion: 95 Resp: 185535

Ion Ratio Lower Upper

95 100

174 98.2 0.0 191.0

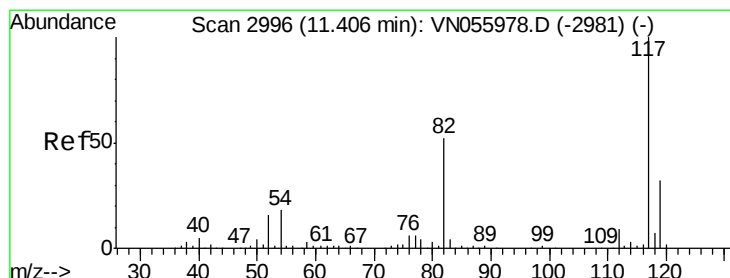
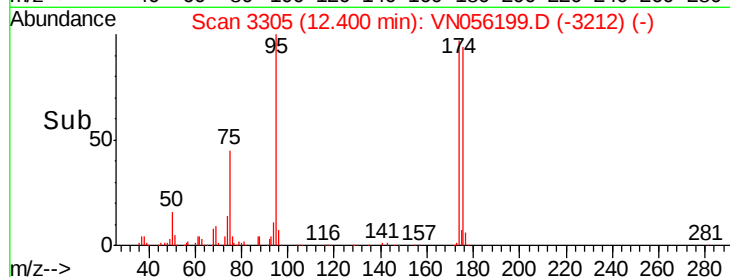
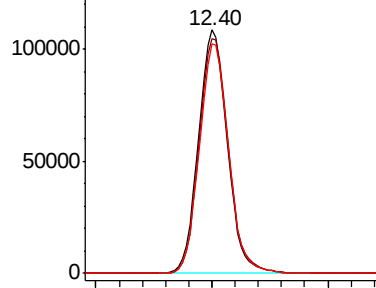
176 95.2 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

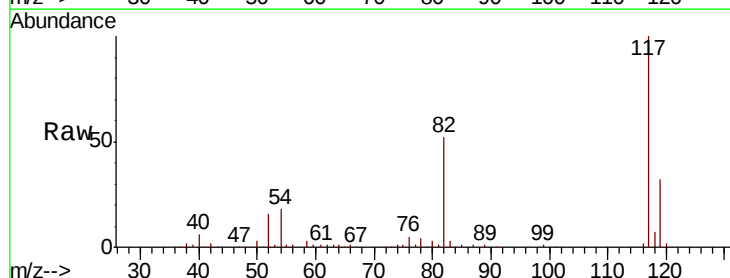
Tgt Ion: 117 Resp: 449599

Ion Ratio Lower Upper

117 100

82 52.1 41.8 62.8

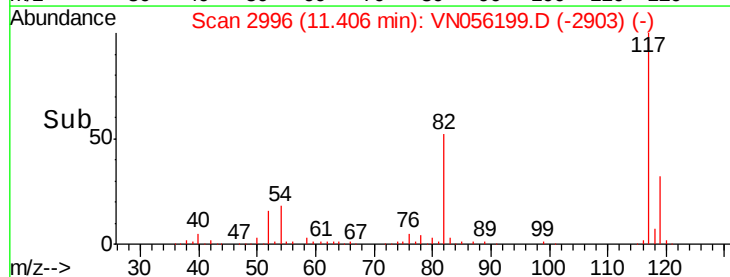
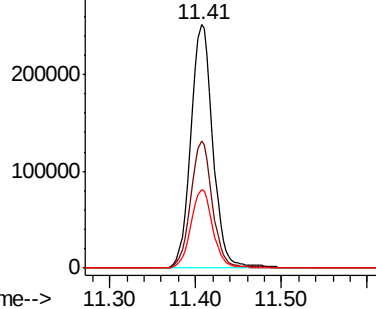
119 32.3 25.4 38.0

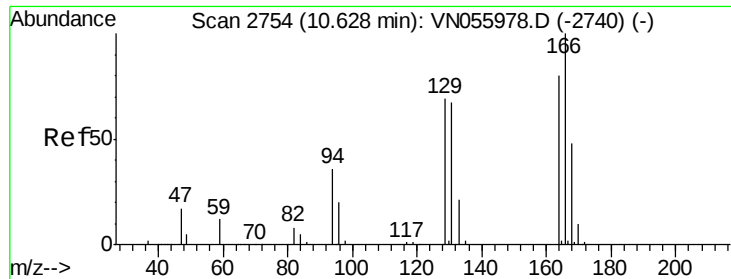


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)





#64

Tetrachloroethene

Concen: 0.957 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

MSVOA_N

ClientSampleId :

RE123D2-20190605

Tot Ion:164 Resp: 3725

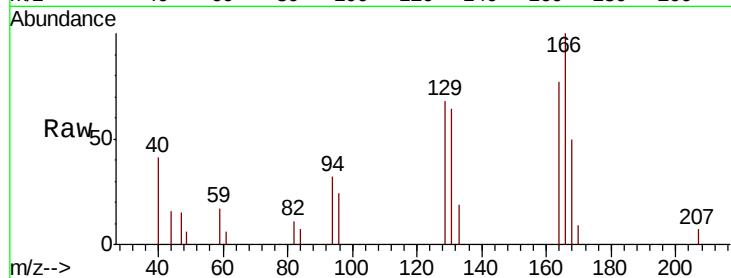
Ion Ratio Lower Upper

164 100

166 129.4 103.0 154.6

129 88.6 70.6 105.8

131 83.1 68.6 102.8

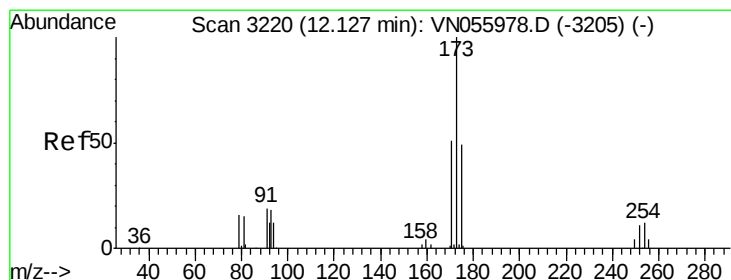
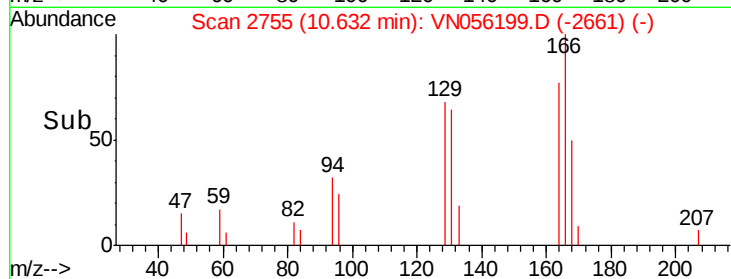
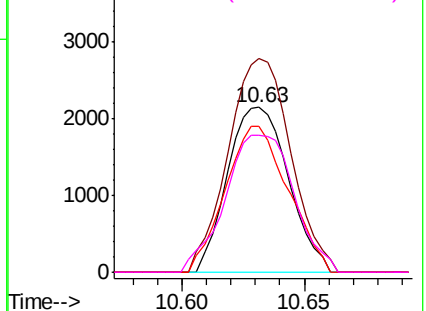


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 3.245 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

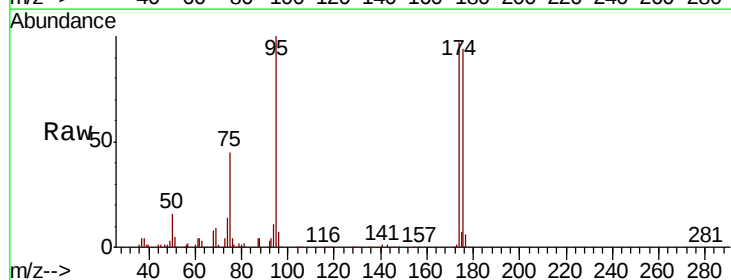
Tgt Ion:173 Resp: 1380

Ion Ratio Lower Upper

173 100

175 813.0 24.3 72.8#

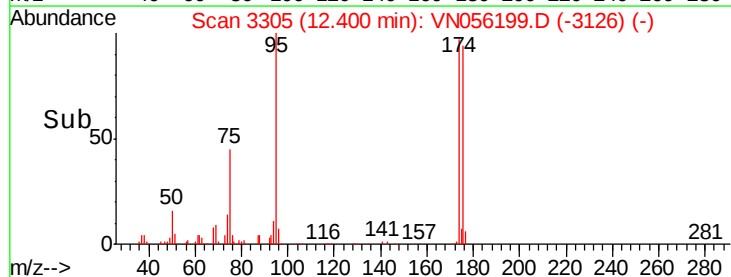
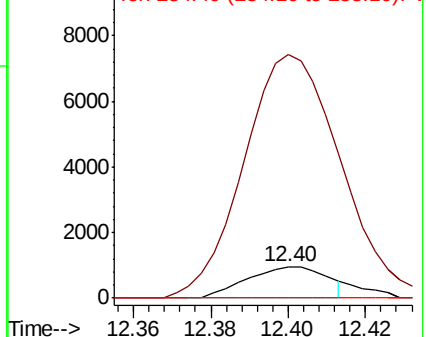
254 0.0 0.0 0.0

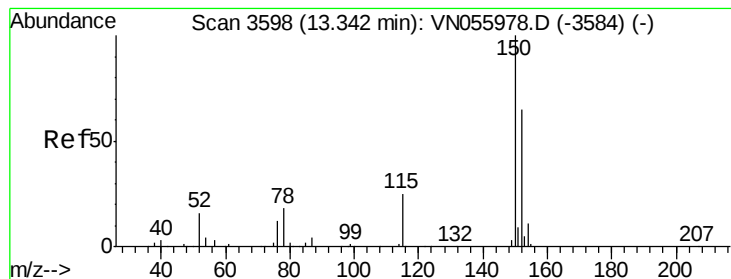


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

MSVOA_N

ClientSampleId :

RE123D2-20190605

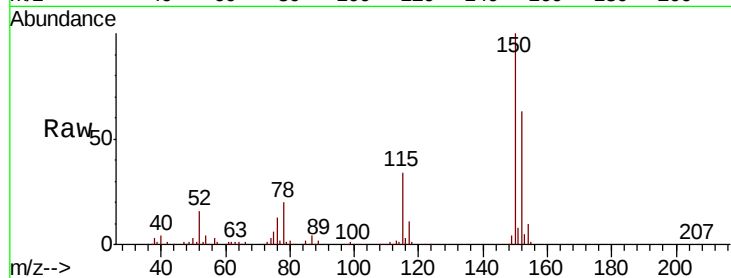
Tot Ion:152 Resp: 139656

Ion Ratio Lower Upper

152 100

115 52.9 27.0 81.0

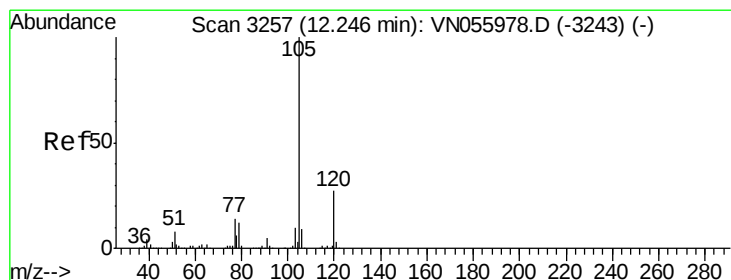
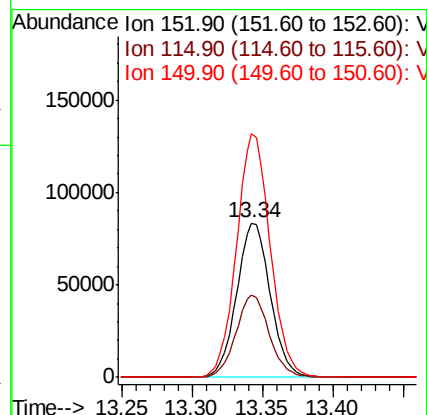
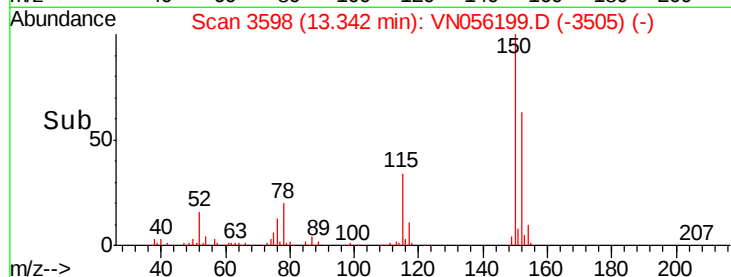
150 157.6 0.0 343.2



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: 12.40 min Scan# 3305

Delta R.T. 0.16 min

Lab File: VN056199.D

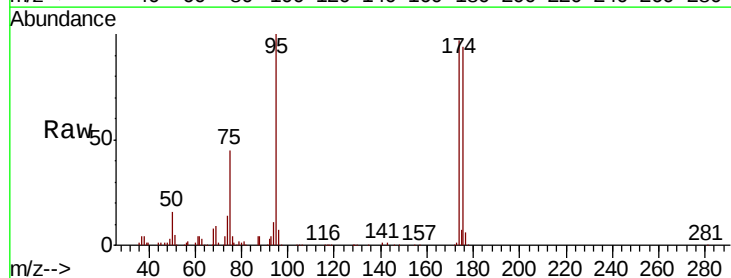
Acq: 11 Jun 2019 4:45

Tgt Ion:105 Resp: 64

Ion Ratio Lower Upper

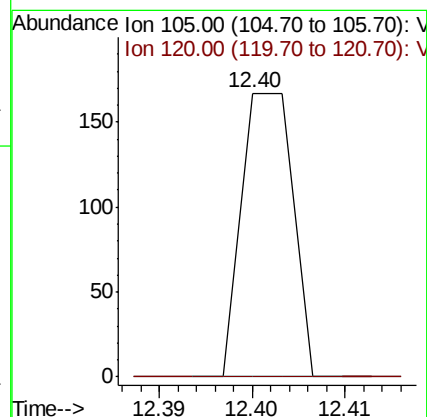
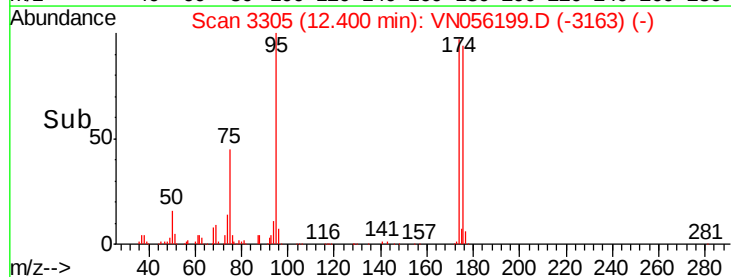
105 100

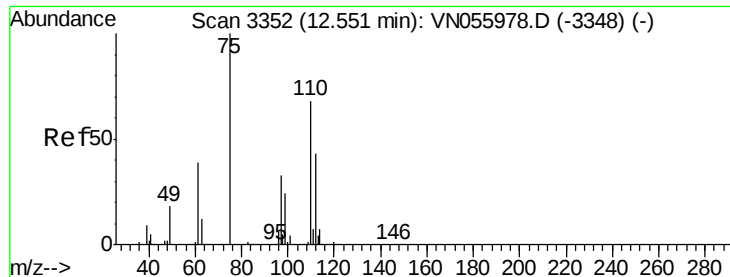
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

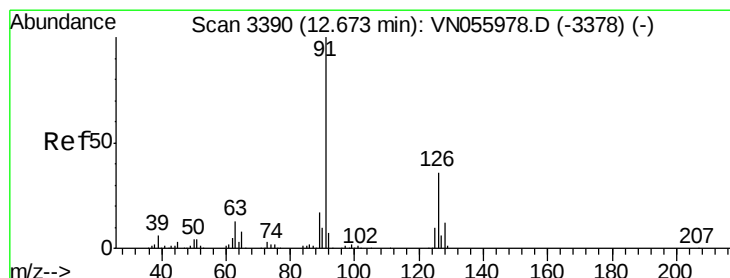
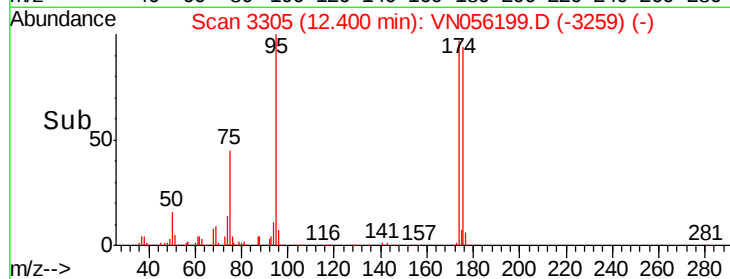
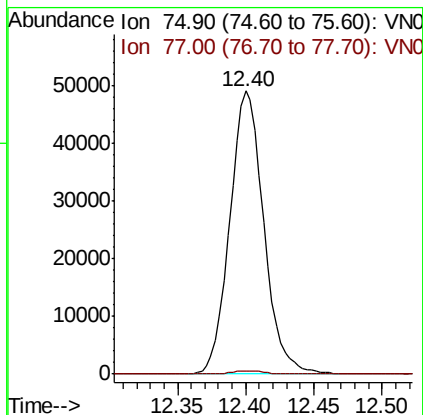
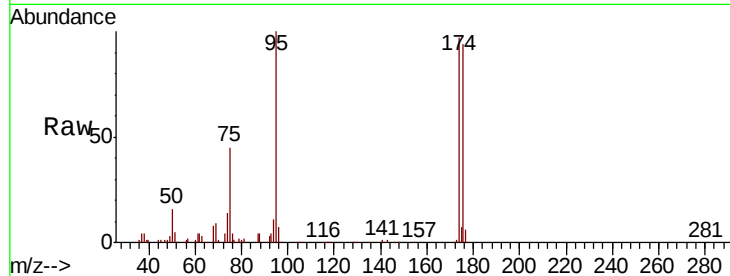




#76
 1,2,3-Trichloropropane
 Concen: 33.006 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN056199.D
 Acq: 11 Jun 2019 4:45

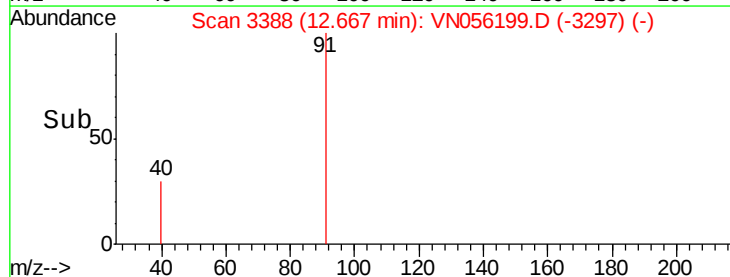
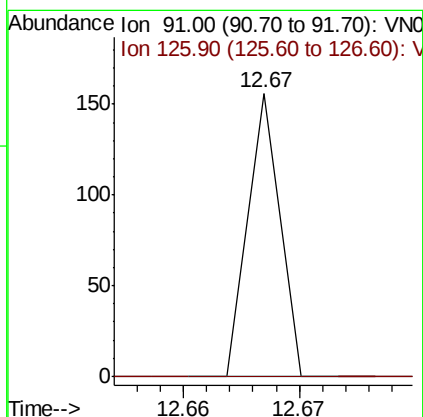
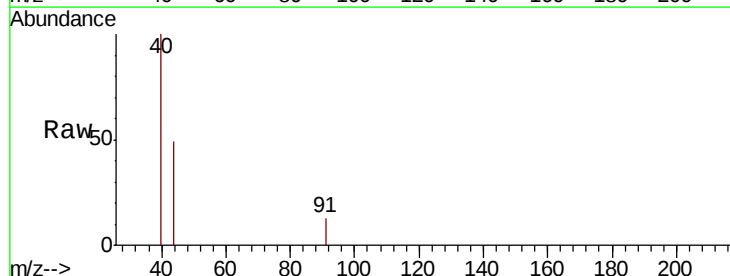
Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D2-20190605

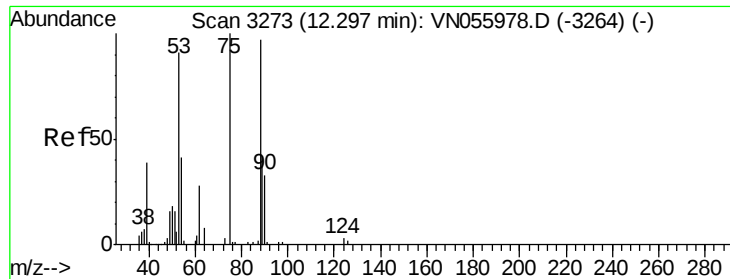
Tot Ion: 75 Resp: 84816
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.67 min Scan# 3388
 Delta R.T. -0.01 min
 Lab File: VN056199.D
 Acq: 11 Jun 2019 4:45

Tgt Ion: 91 Resp: 30
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 109.916 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

Instrument :

MSVOA_N

ClientSampleId :

RE123D2-20190605

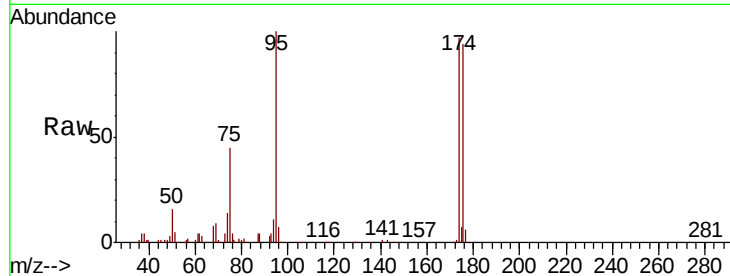
Tot Ion: 75 Resp: 84816

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

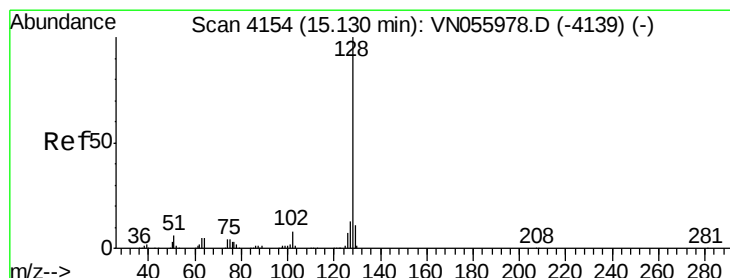
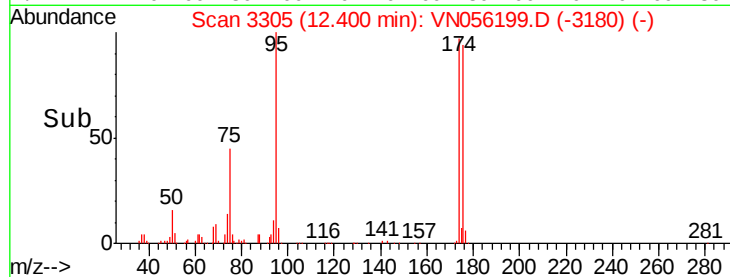
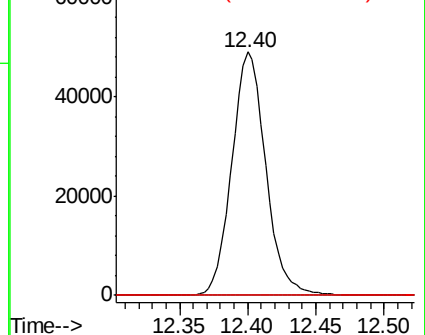
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#95

Naphthalene

Concen: 4.169 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056199.D

Acq: 11 Jun 2019 4:45

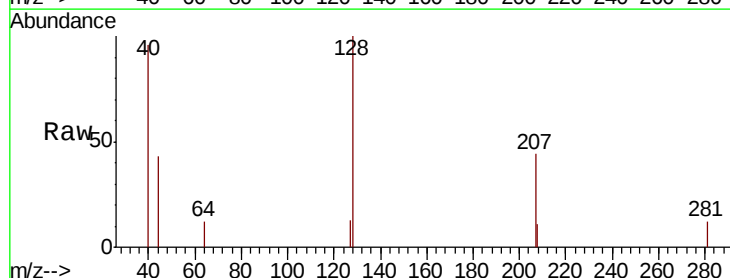
Tgt Ion: 128 Resp: 2299

Ion Ratio Lower Upper

128 100

127 7.4 10.3 15.5#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN055978.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN055978.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN055978.D (-4139) (-)

