

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056157.D
 Acq On : 10 Jun 2019 9:56
 Operator : JC/SP
 Sample : VN0610WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 02:17:55 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

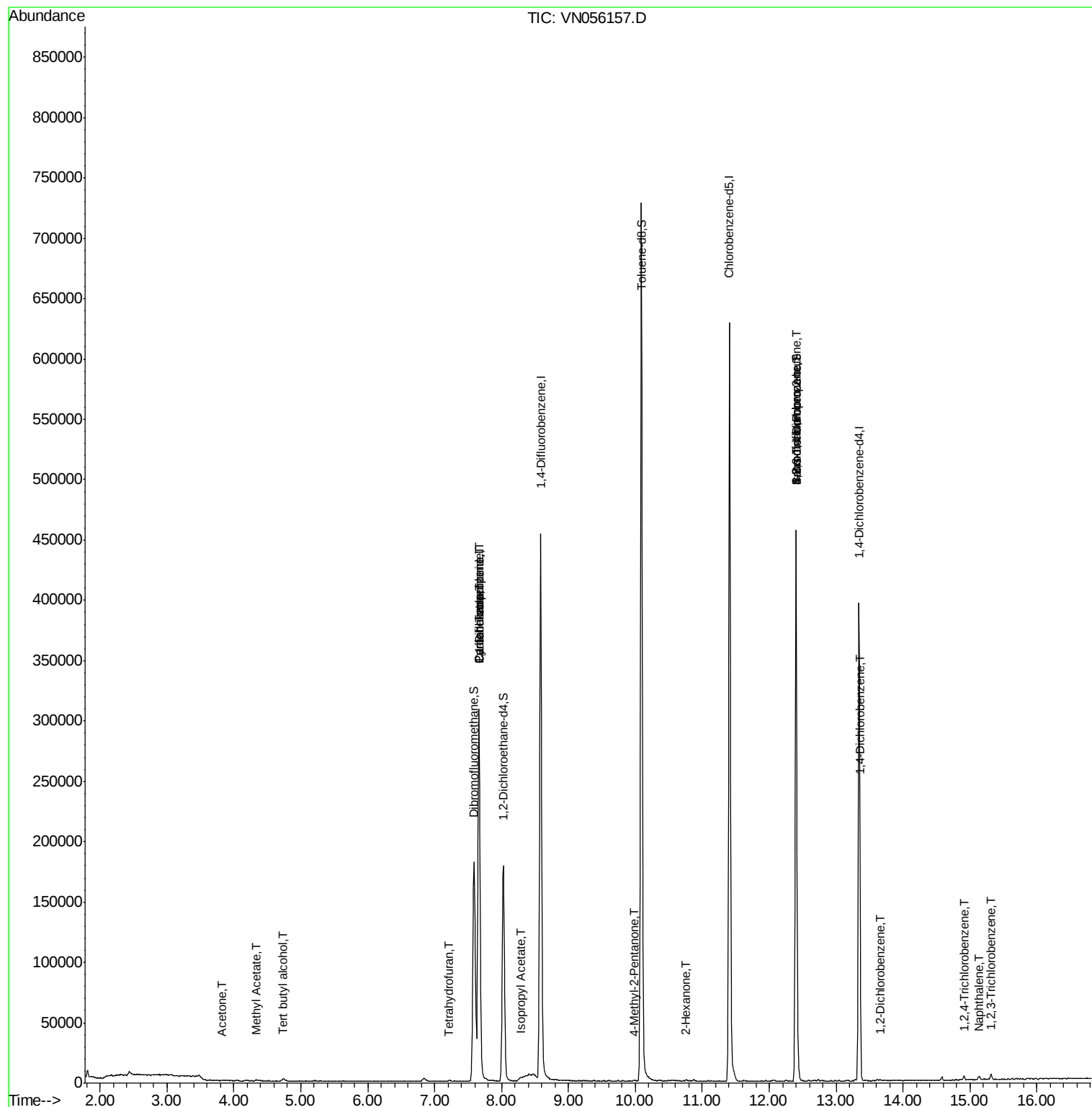
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	292845	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	443159	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	412863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	121780	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	152404	52.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.82%	
35) Dibromofluoromethane	7.59	113	143434	52.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.50%	
50) Toluene-d8	10.09	98	548422	52.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.84%	
62) 4-Bromofluorobenzene	12.40	95	162457	45.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.32%	
Target Compounds				Qvalue		
11) Tert butyl alcohol	4.74	59	1771	3.500	ug/l #	74
16) Acetone	3.82	43	339	0.244	ug/l #	41
18) Methyl Acetate	4.33	43	2155	0.213	ug/l #	60
29) Tetrahydrofuran	7.22	42	434	0.400	ug/l #	32
31) Cyclohexane	7.66	56	4327	0.938	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16742	4.394	ug/l #	48
38) Carbon Tetrachloride	7.66	117	23614	6.722	ug/l #	15
43) Isopropyl Acetate	8.28	43	2904	0.529	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1005	0.293	ug/l #	35
59) 2-Hexanone	10.75	43	1507	0.605	ug/l #	50
71) Bromoform	12.40	173	1169	3.206	ug/l #	1
73) Isopropylbenzene	12.25	105	448	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	75778	33.817	ug/l #	100
79) 2-Chlorotoluene	12.68	91	466	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	75778	112.618	ug/l #	15
83) tert-Butylbenzene	12.99	119	328	Below Cal	#	75
88) 1,4-Dichlorobenzene	13.36	146	824	0.212	ug/l #	43
91) 1,2-Dichlorobenzene	13.65	146	836	0.205	ug/l #	80
93) 1,2,4-Trichlorobenzene	14.91	180	1549	4.901	ug/l	93
94) Hexachlorobutadiene	15.01	225	174	Below Cal	#	19
95) Naphthalene	15.14	128	3814	4.456	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.31	180	2205	3.936	ug/l	96

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

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ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
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Quant Time: Jun 11 02:17:55 2019
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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 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: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

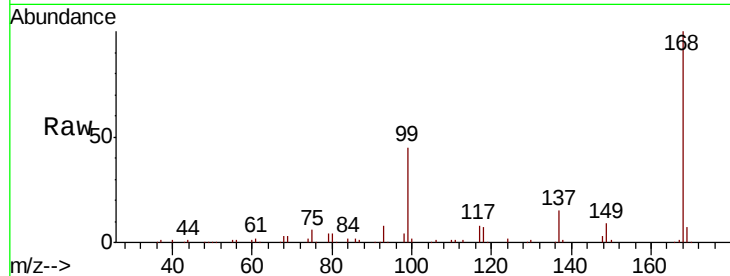
ClientSampled :

Tot Ion:168 Resp: 292845

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

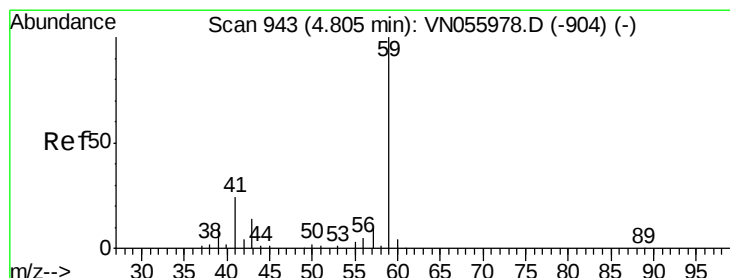
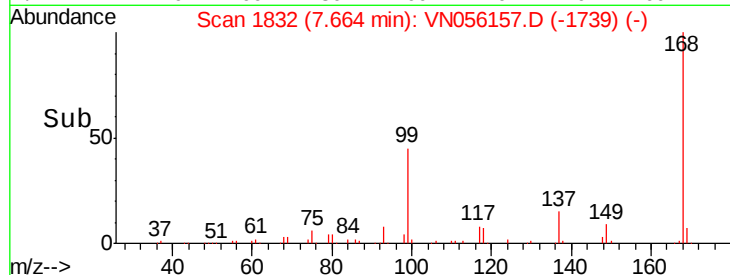
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50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 3.500 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056157.D

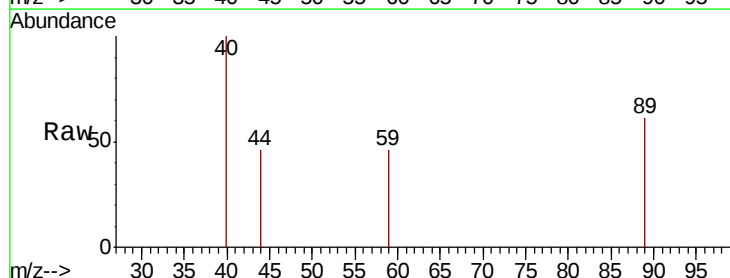
Acq: 10 Jun 2019 9:56

Tgt Ion: 59 Resp: 1771

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

4.74

600

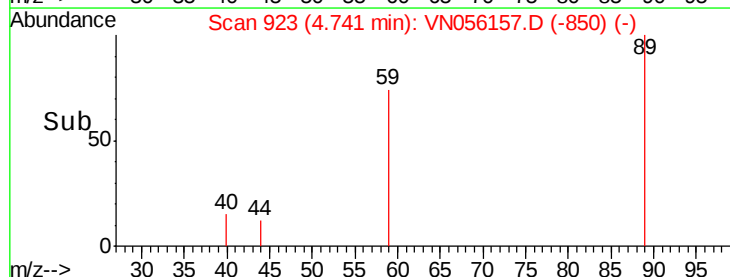
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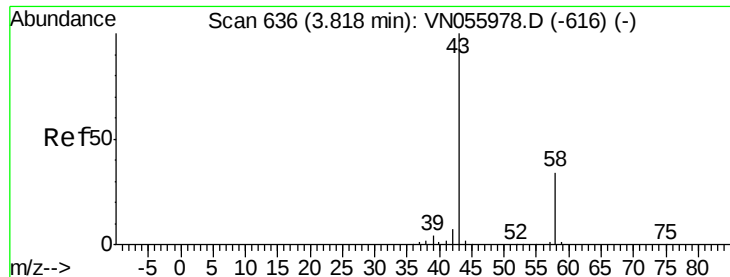
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0

Time-->

4.70 4.75 4.80

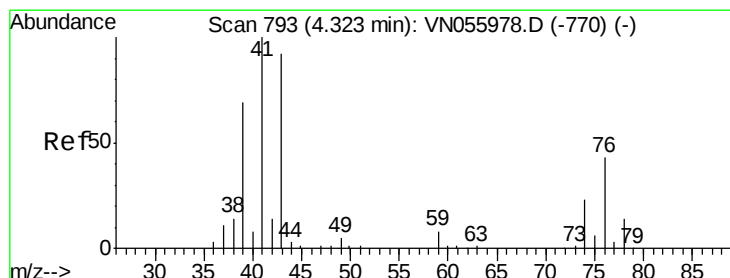
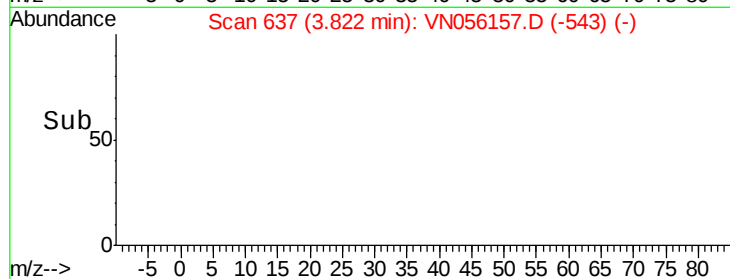
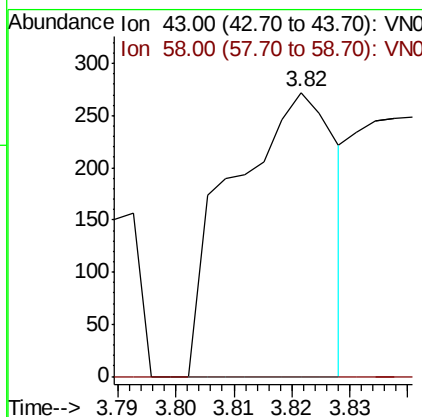
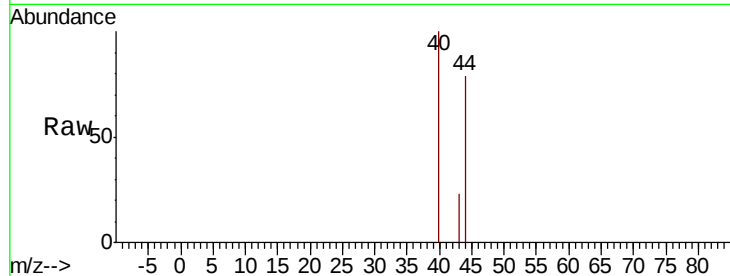




#16
Acetone
Concen: 0.244 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

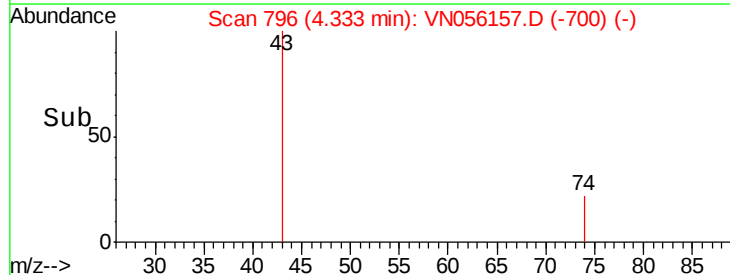
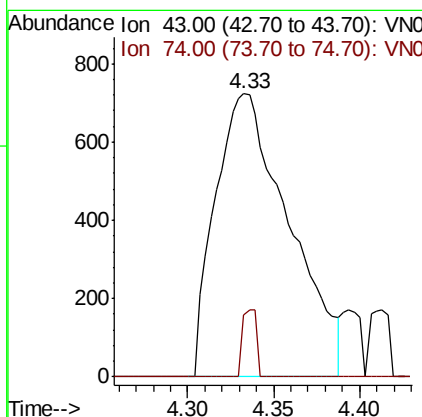
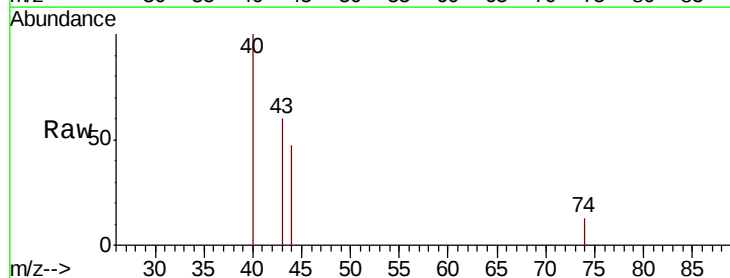
Instrument :
MSVOA_N
ClientSampled :

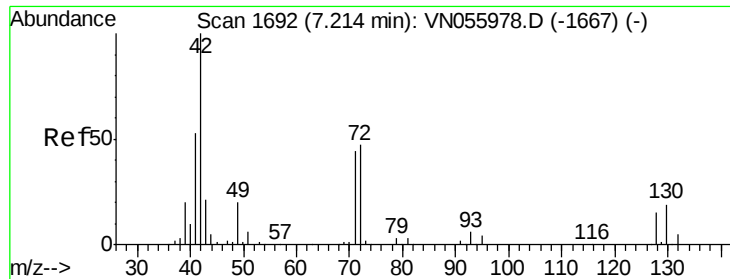
Tot Ion: 43 Resp: 339
Ion Ratio Lower Upper
43 100
58 0.0 26.6 39.8#



#18
Methyl Acetate
Concen: 0.213 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Tgt Ion: 43 Resp: 2155
Ion Ratio Lower Upper
43 100
74 4.5 19.3 28.9#

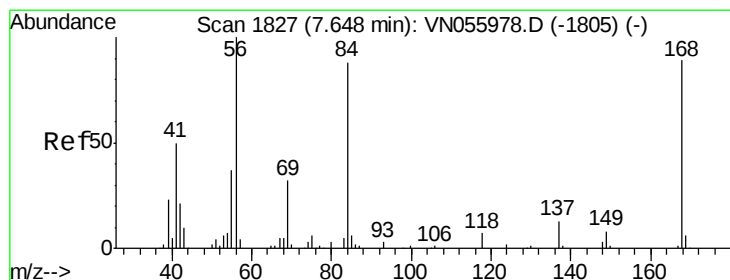
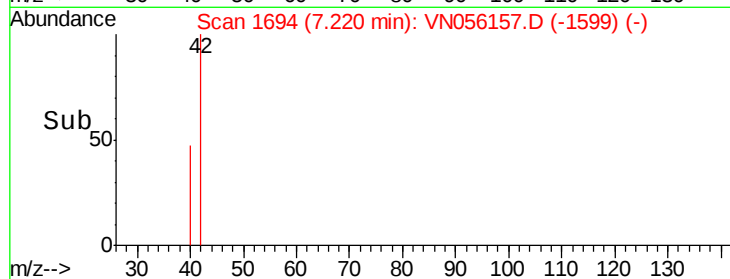
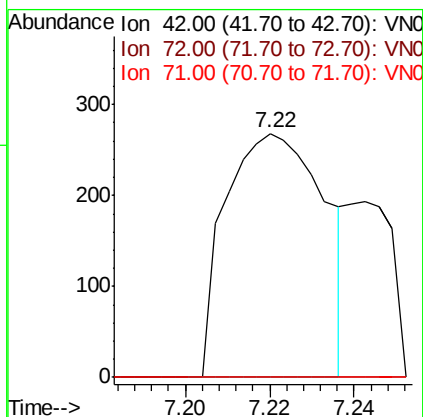
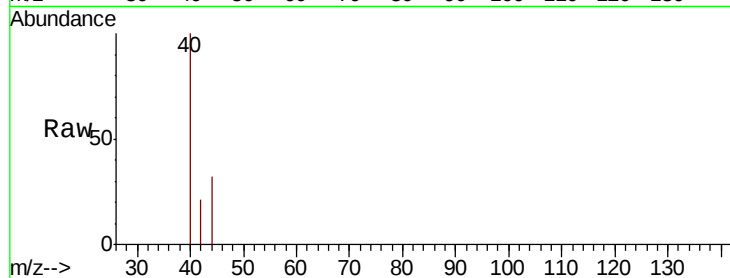




#29
Tetrahydrofuran
Concen: 0.400 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

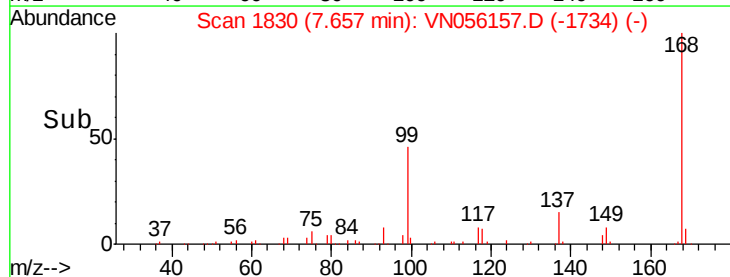
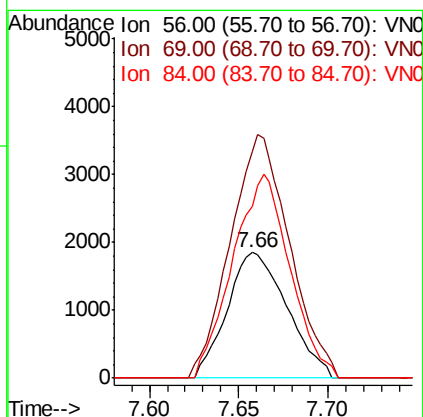
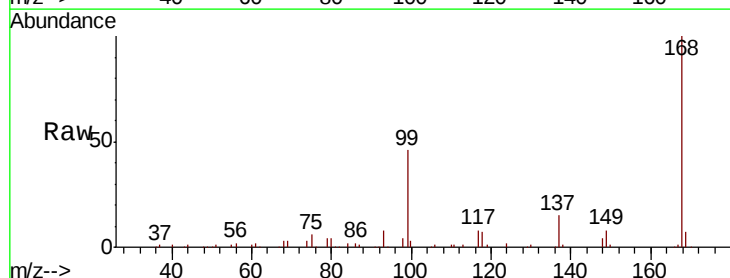
Instrument :
MSVOA_N
ClientSampleId :

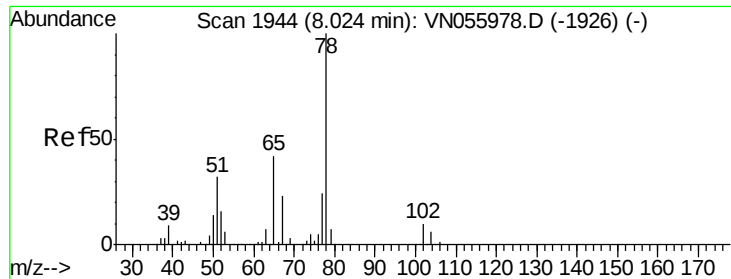
Tot Ion: 42 Resp: 434
Ion Ratio Lower Upper
42 100
72 0.0 35.9 53.9#
71 0.0 34.0 51.0#



#31
Cyclohexane
Concen: 0.938 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Tgt Ion: 56 Resp: 4327
Ion Ratio Lower Upper
56 100
69 181.3 25.6 38.4#
84 136.8 67.4 101.0#

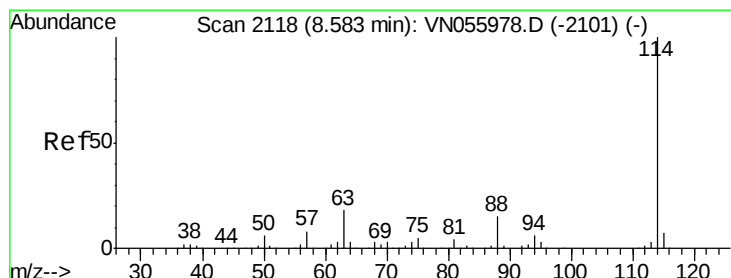
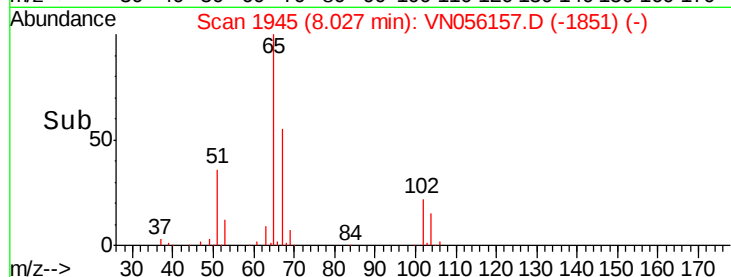
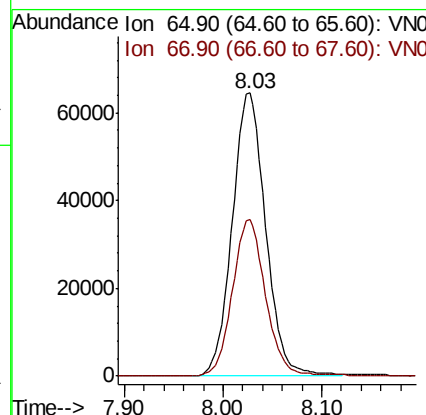
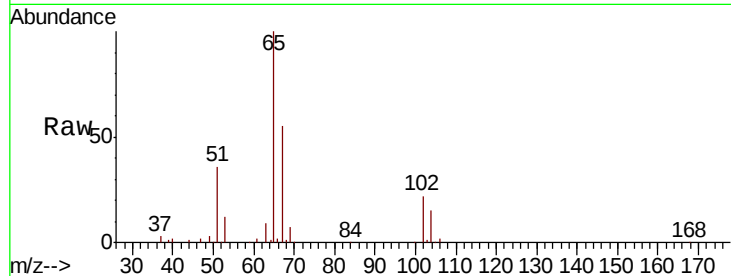




#33
 1,2-Dichloroethane-d4
 Concen: 52.414 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

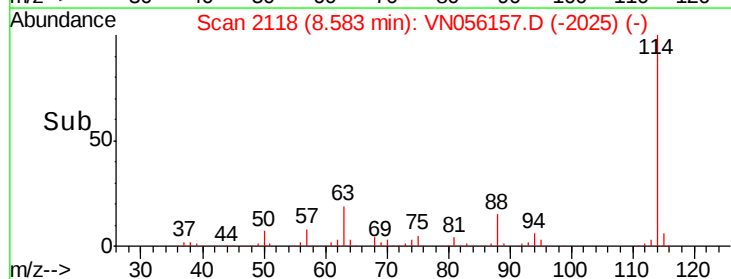
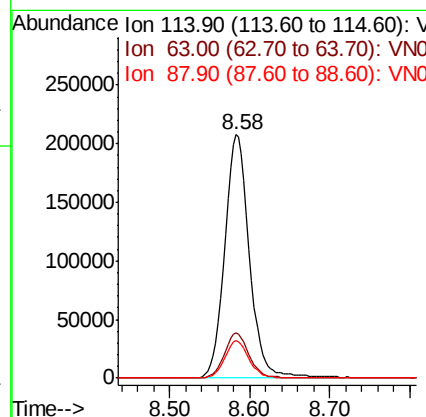
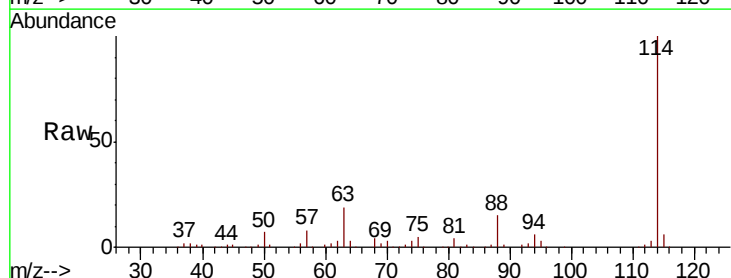
Instrument :
 MSVOA_N
 ClientSampleId :

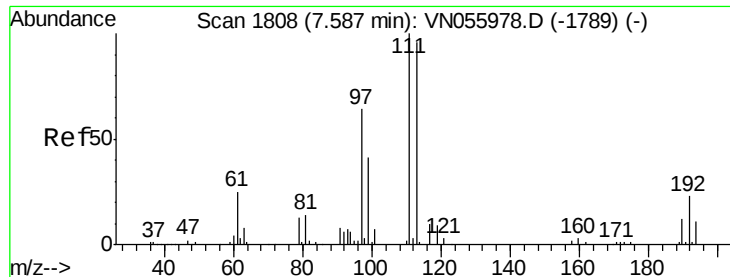
Tot Ion: 65 Resp: 152404
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Tgt Ion: 114 Resp: 443159
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 15.3 0.0 31.0

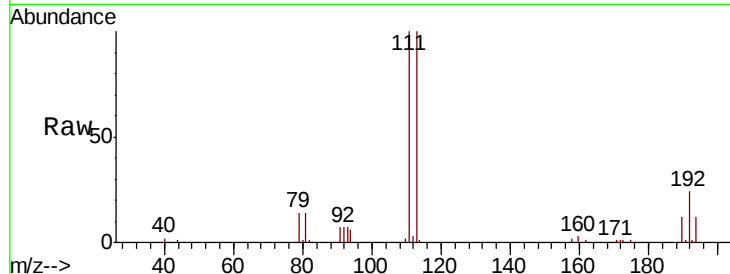




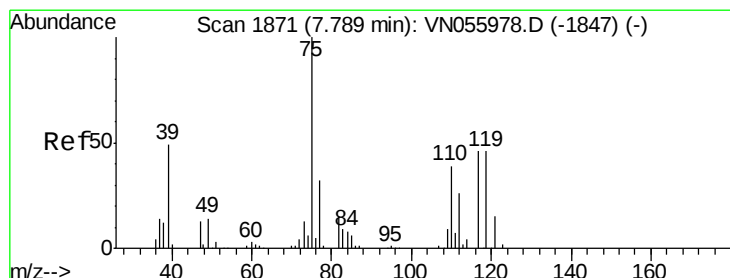
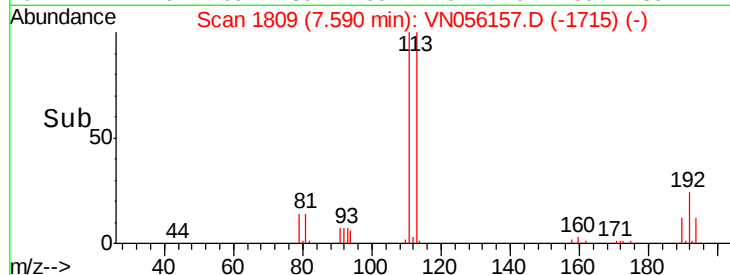
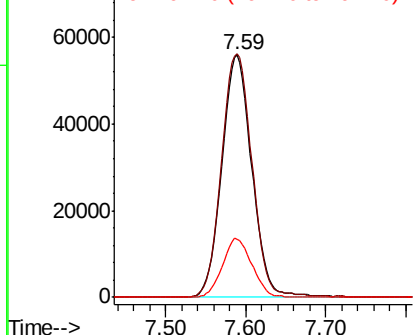
#35
 Dibromofluoromethane
 Concen: 52.754 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 143434
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.9 122.9
 192 23.9 19.5 29.3

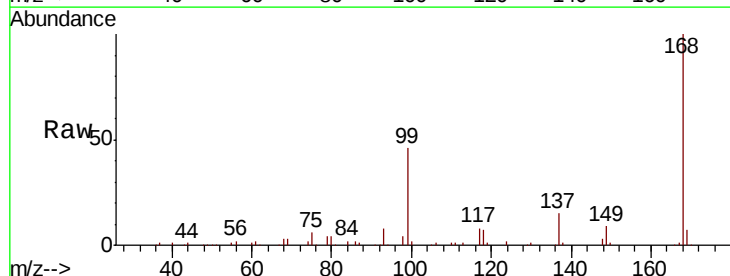


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

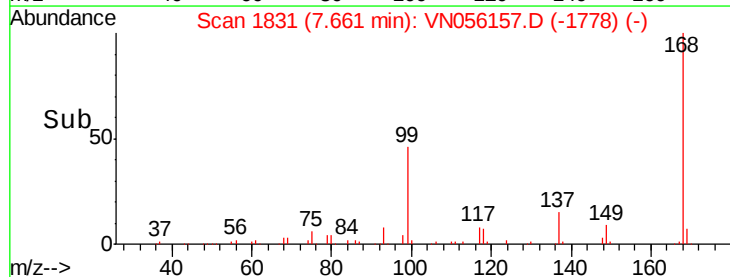
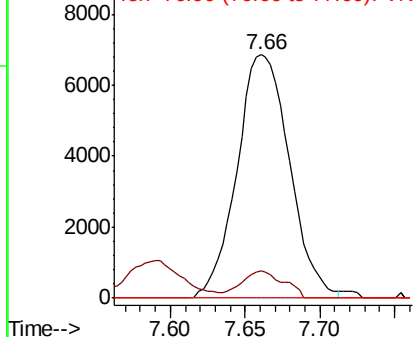


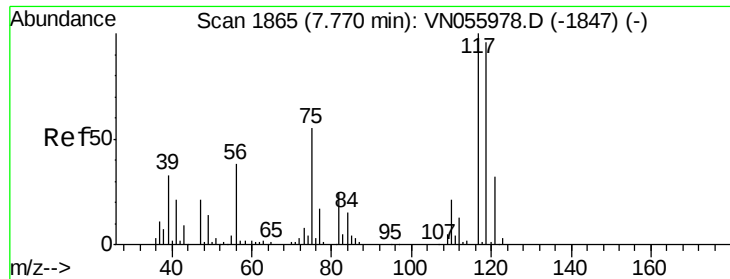
#36
 1,1-Dichloropropene
 Concen: 4.394 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Tgt Ion: 75 Resp: 16742
 Ion Ratio Lower Upper
 75 100
 110 8.9 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

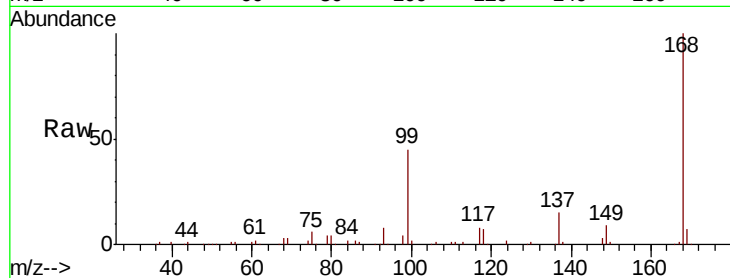




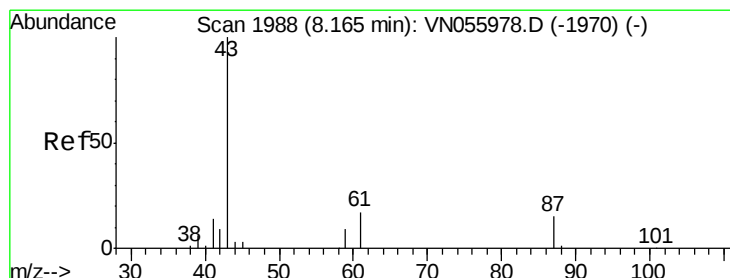
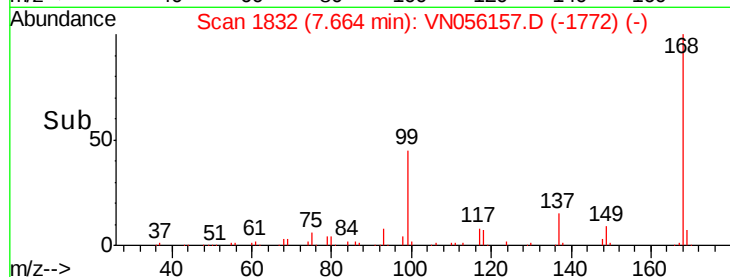
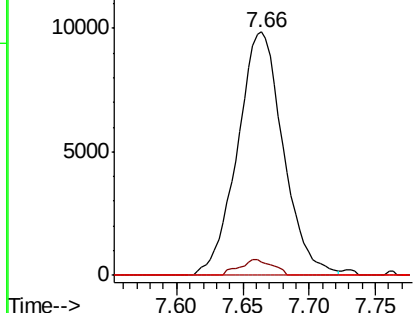
#38
Carbon Tetrachloride
Concen: 6.722 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 23614
Ion Ratio Lower Upper
117 100
119 5.7 79.0 118.6#
121 0.0 24.7 37.1#

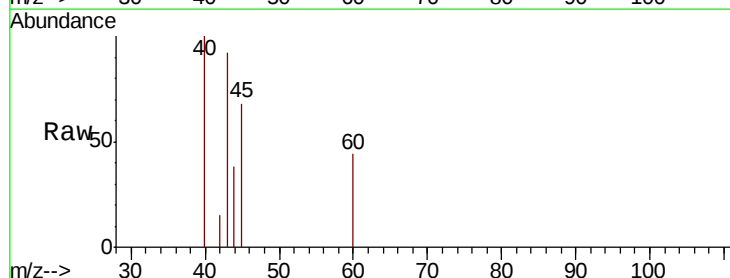


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

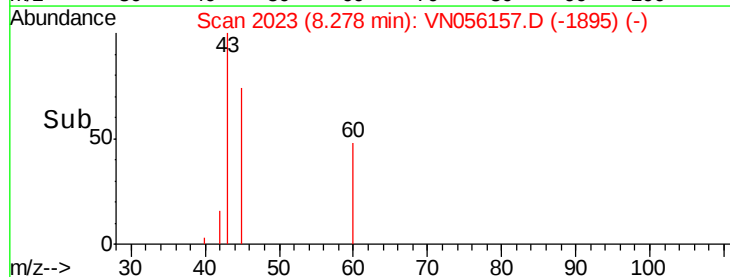
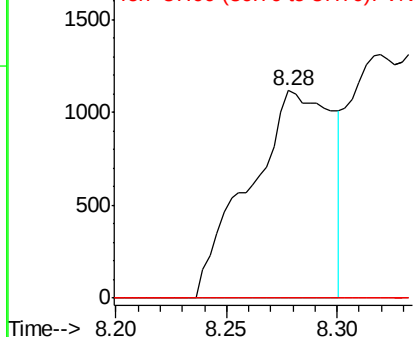


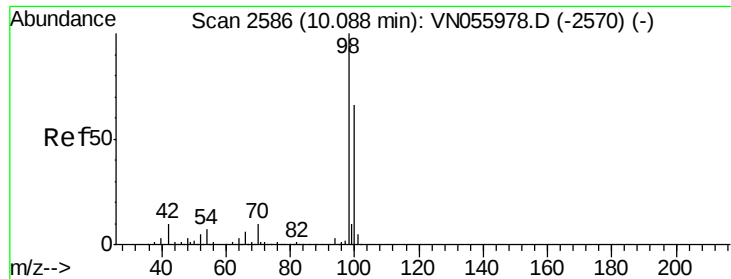
#43
Isopropyl Acetate
Concen: 0.529 ug/l
RT: 8.28 min Scan# 2023
Delta R.T. 0.11 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Tgt Ion: 43 Resp: 2904
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): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 52.418 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

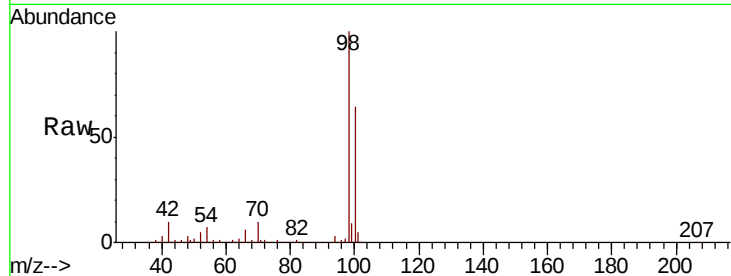
ClientSampled :

Tot Ion: 98 Resp: 548422

Ion Ratio Lower Upper

98 100

100 64.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

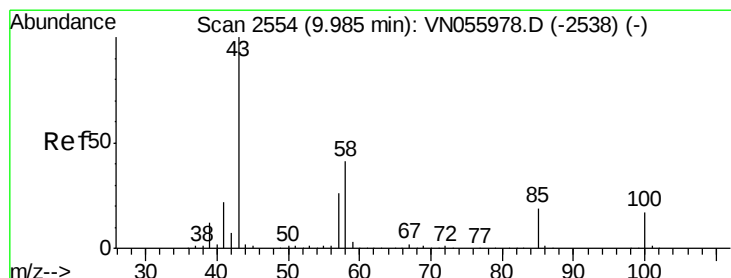
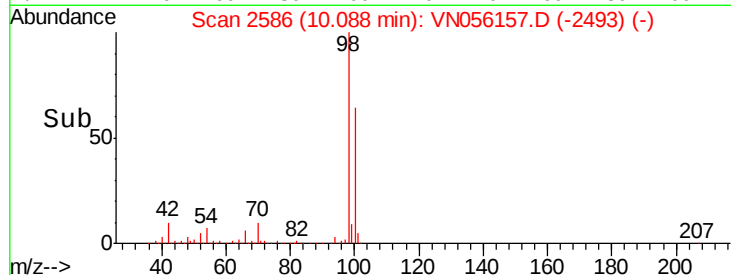
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200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.293 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN056157.D

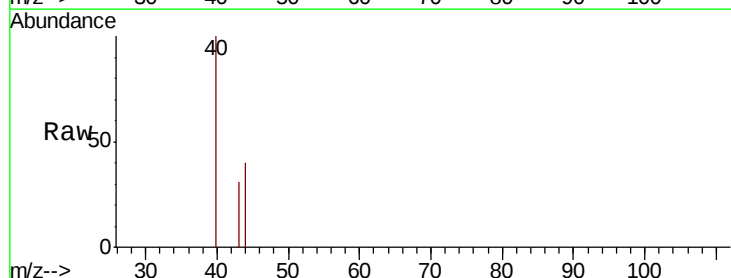
Acq: 10 Jun 2019 9:56

Tgt Ion: 43 Resp: 1005

Ion Ratio Lower Upper

43 100

58 0.0 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) (-)

9.99

500

400

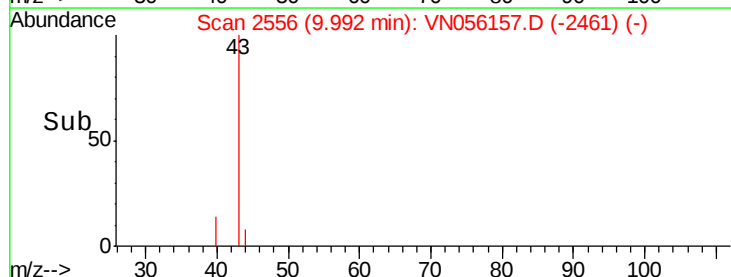
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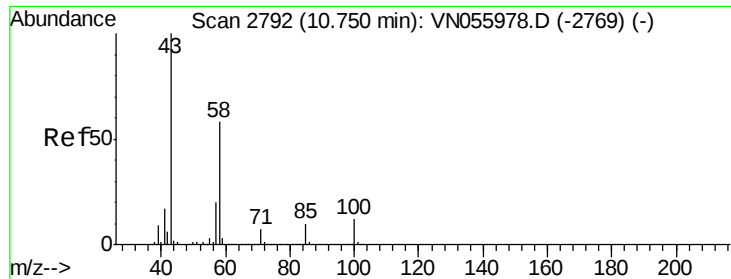
200

100

0

Time-->

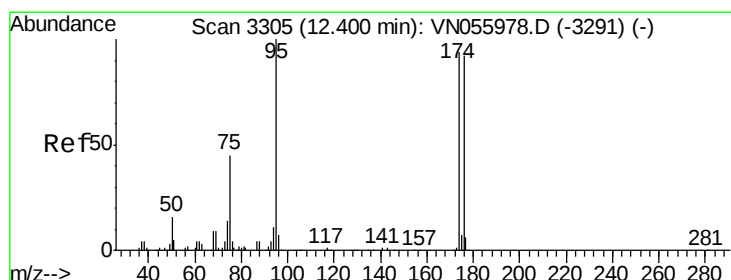
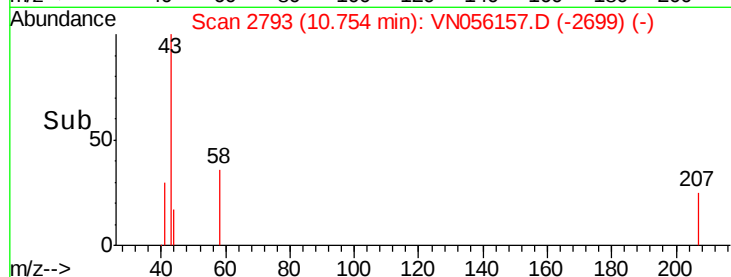
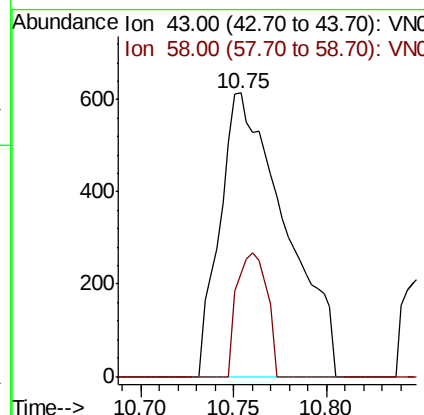
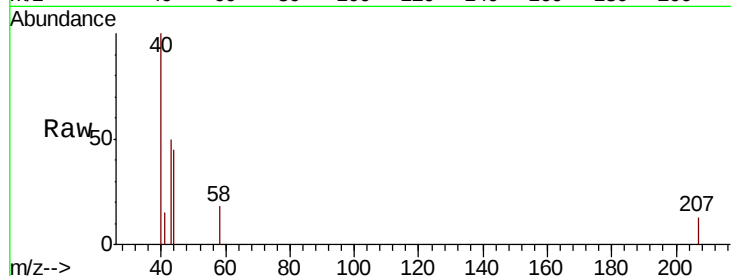




#59
2-Hexanone
Concen: 0.605 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

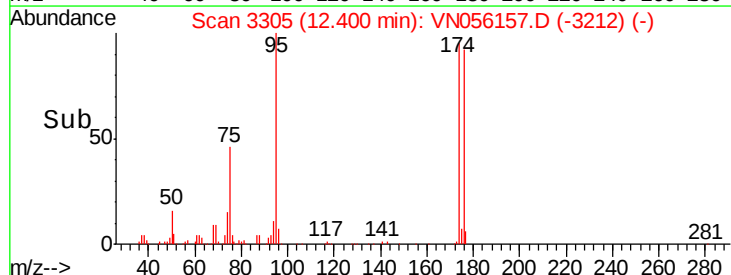
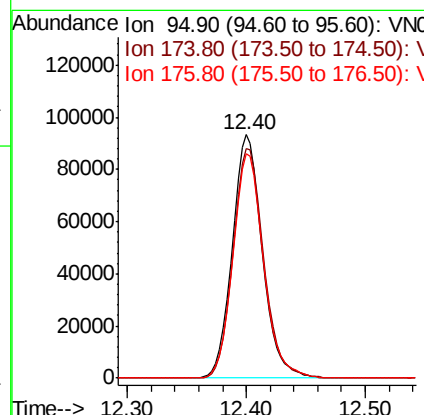
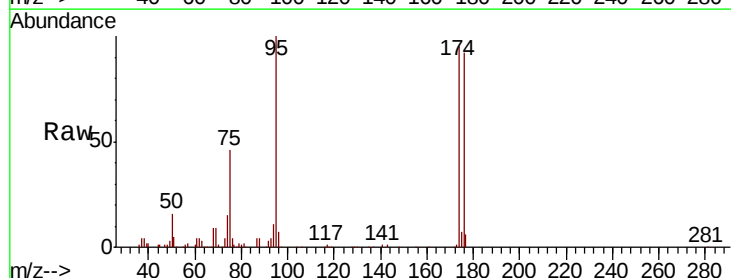
Instrument :
MSVOA_N
ClientSampleId :

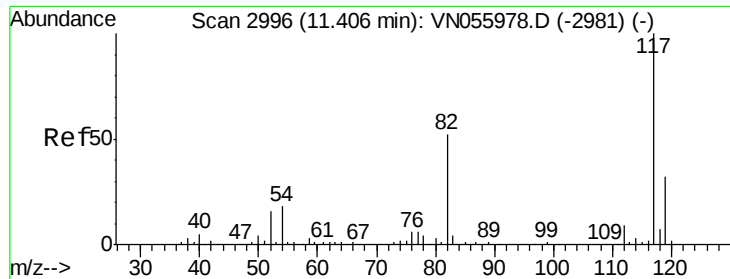
Tot Ion: 43 Resp: 1507
Ion Ratio Lower Upper
43 100
58 19.8 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 45.659 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Tgt Ion: 95 Resp: 162457
Ion Ratio Lower Upper
95 100
174 96.8 0.0 191.0
176 94.1 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: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampleId :

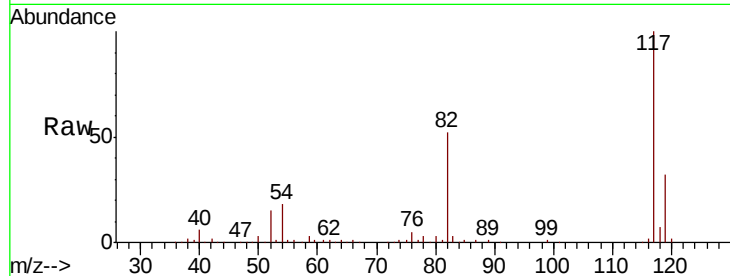
Tot Ion:117 Resp: 412863

Ion Ratio Lower Upper

117 100

82 51.5 41.8 62.8

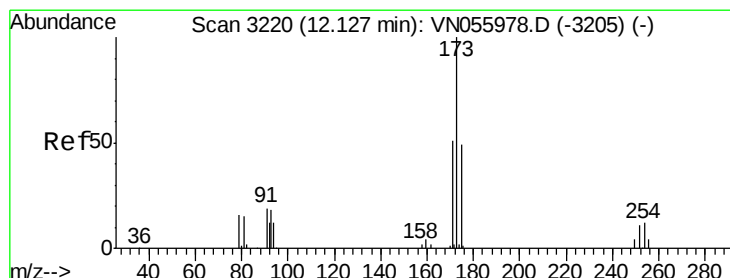
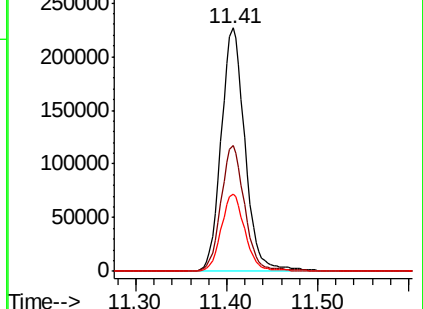
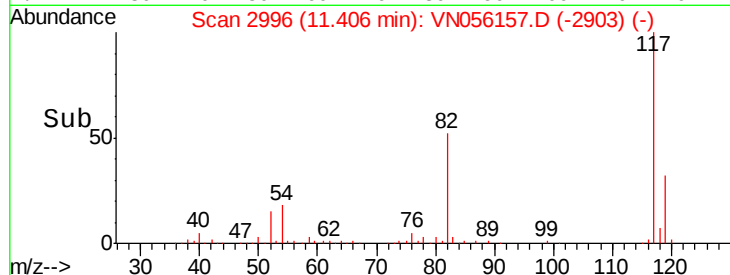
119 32.0 25.4 38.0



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: 3.206 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

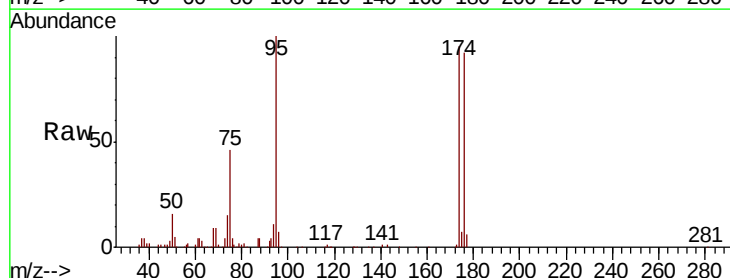
Tgt Ion:173 Resp: 1169

Ion Ratio Lower Upper

173 100

175 820.9 24.3 72.8#

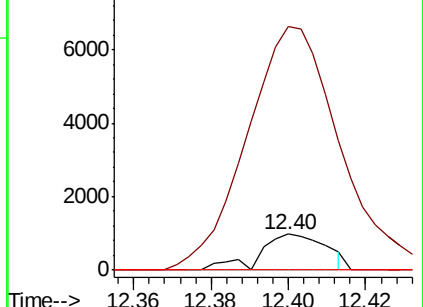
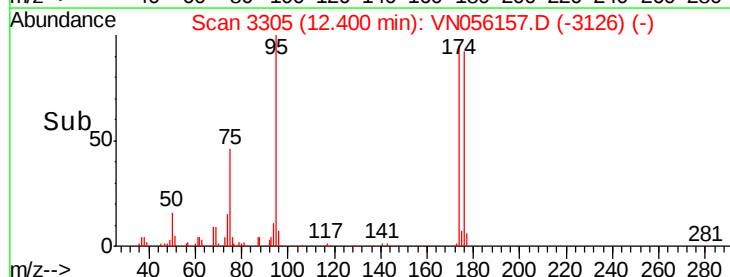
254 0.0 0.0 0.0

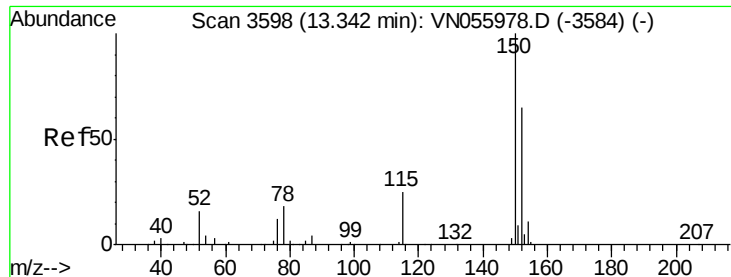


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



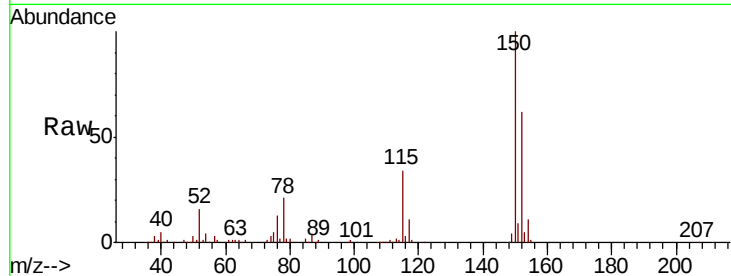


#72

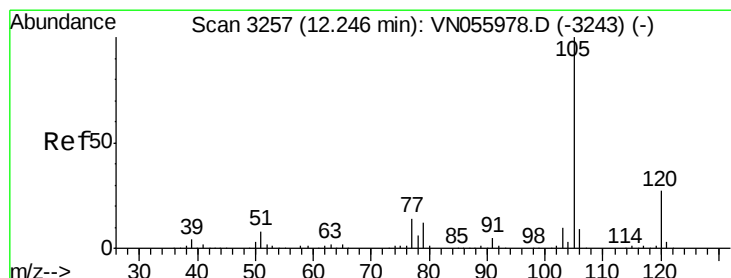
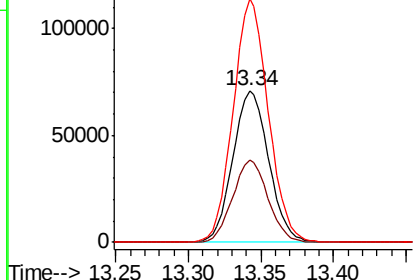
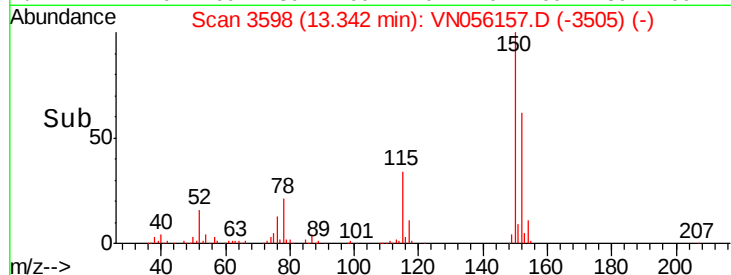
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 121780
Ion Ratio Lower Upper
152 100
115 53.6 27.0 81.0
150 157.3 0.0 343.2



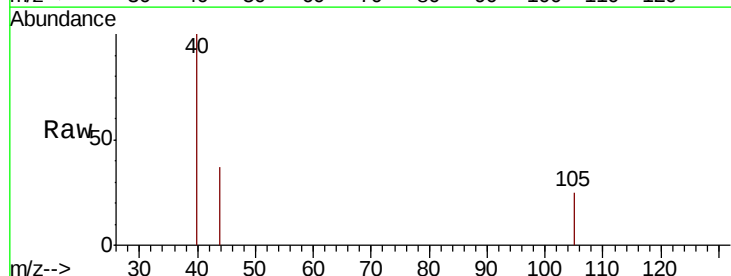
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



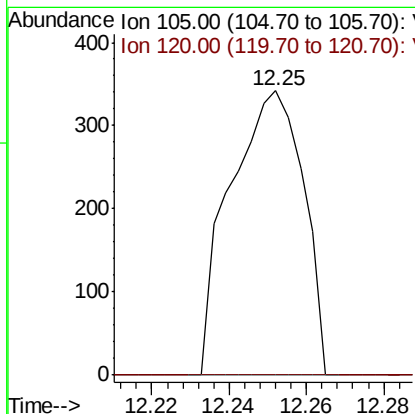
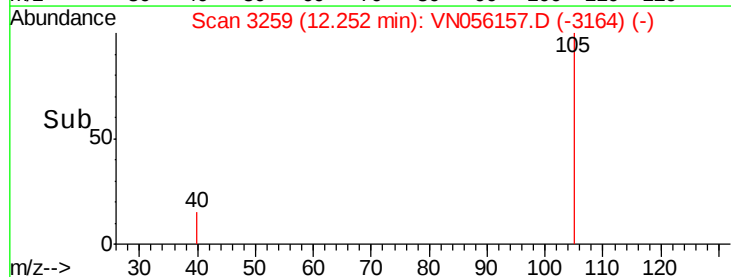
#73

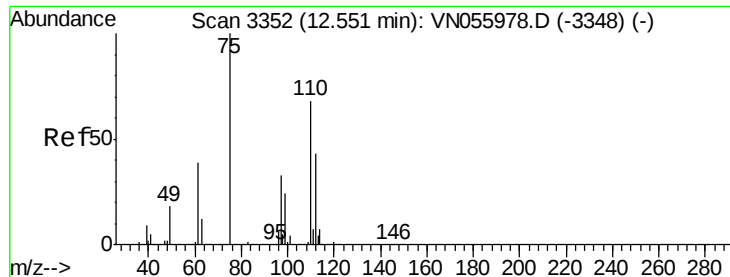
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3259
Delta R.T. 0.01 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Tgt Ion:105 Resp: 448
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: 33.817 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

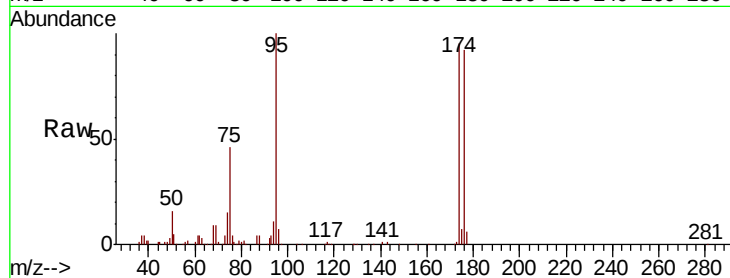
ClientSampled :

Tot Ion: 75 Resp: 75778

Ion Ratio Lower Upper

75 100

77 1.0 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

40000

30000

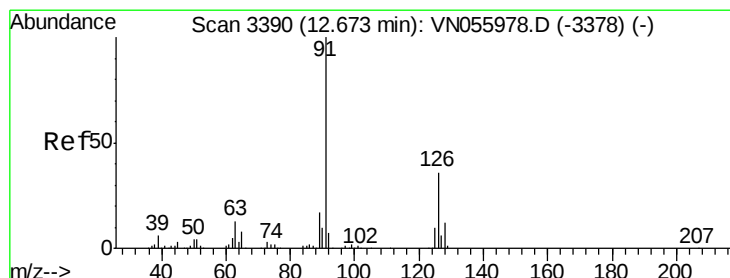
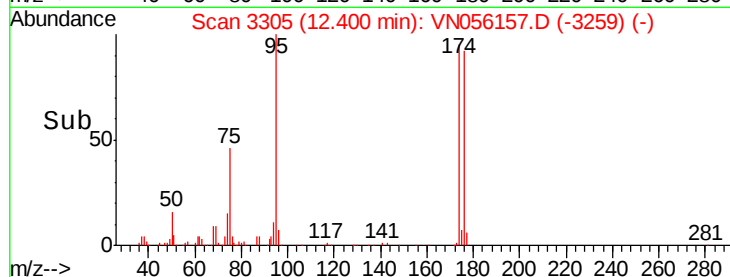
20000

10000

0

Time-->

12.35 12.40 12.45 12.50



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN056157.D

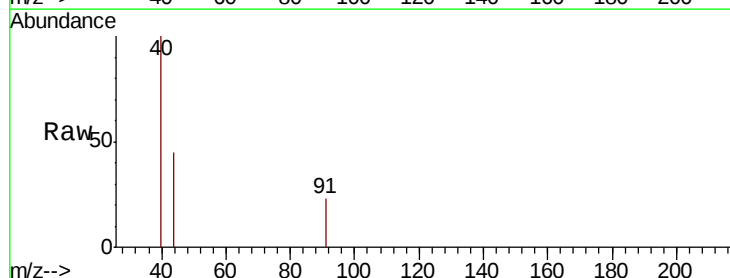
Acq: 10 Jun 2019 9:56

Tgt Ion: 91 Resp: 466

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

300

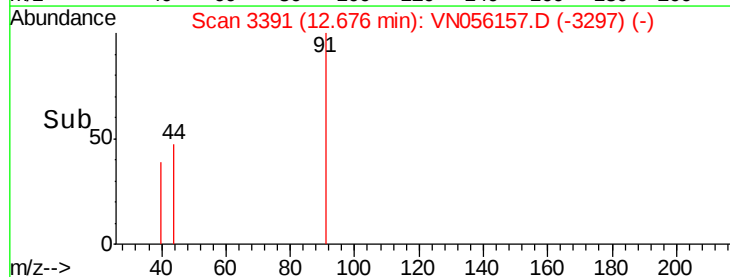
200

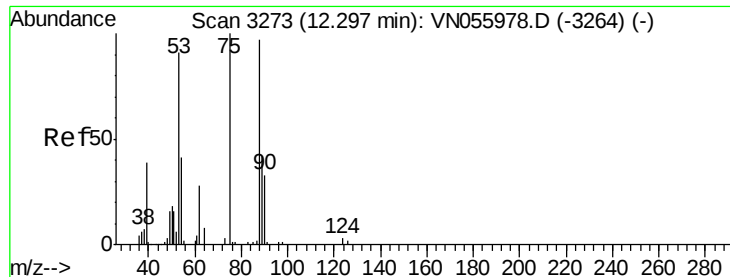
100

0

Time-->

12.64 12.66 12.68 12.70





#81

trans-1,4-Dichloro-2-butene

Concen: 112.618 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampled :

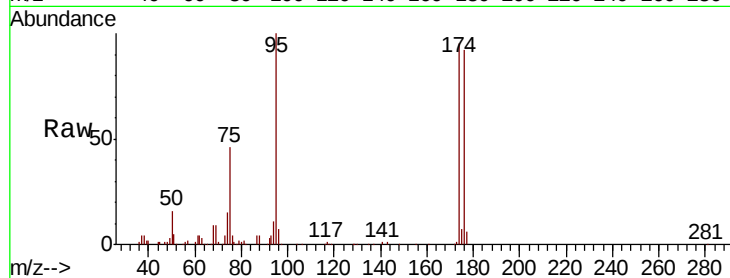
Tot Ion: 75 Resp: 75778

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

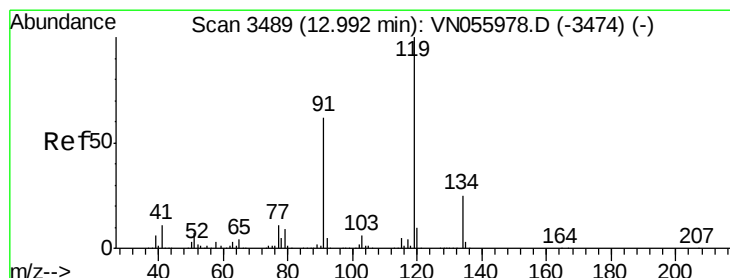
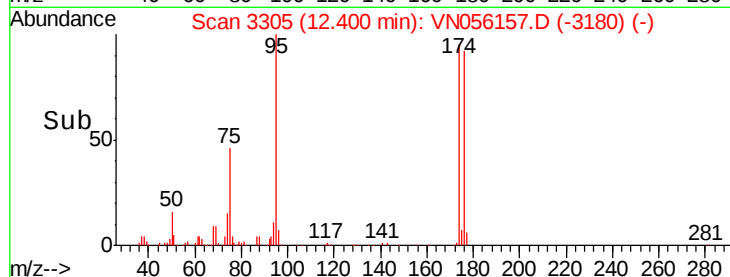
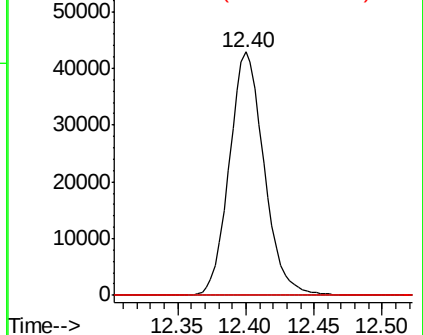
89 0.0 36.9 55.3#



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) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

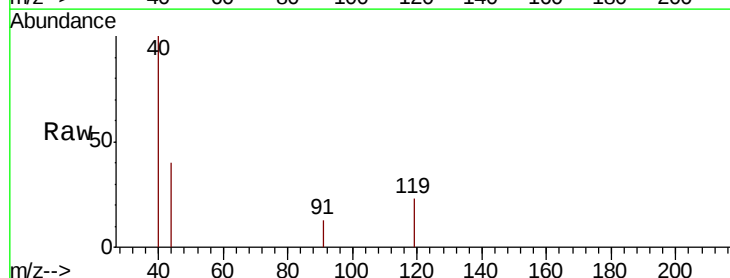
Tgt Ion: 119 Resp: 328

Ion Ratio Lower Upper

119 100

91 51.2 30.9 92.8

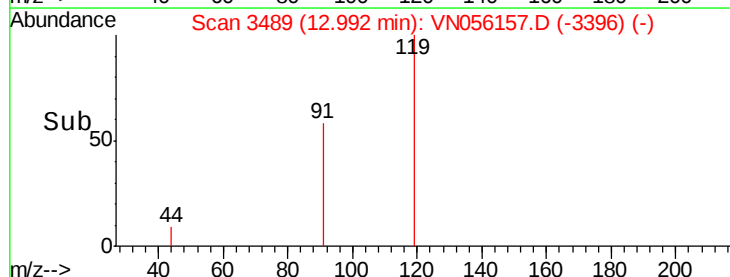
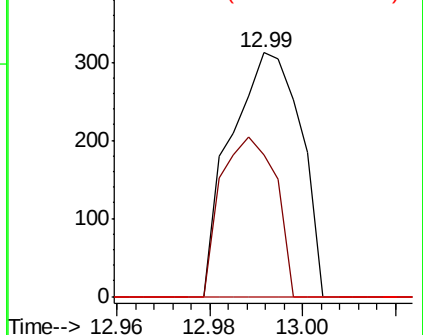
134 0.0 13.3 39.8#

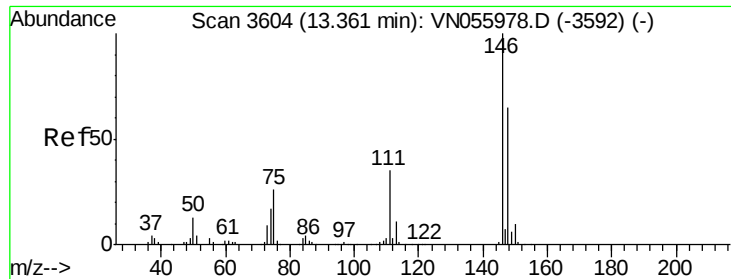


Abundance Ion 119.00 (118.70 to 119.70): VN055978.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN055978.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN055978.D (-3474) (-)





#88

1,4-Dichlorobenzene

Concen: 0.212 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampled :

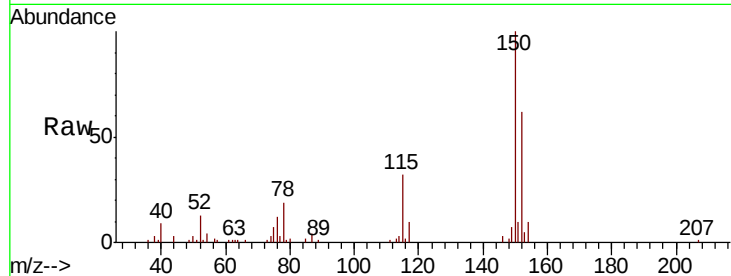
Tot Ion:146 Resp: 824

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.4#

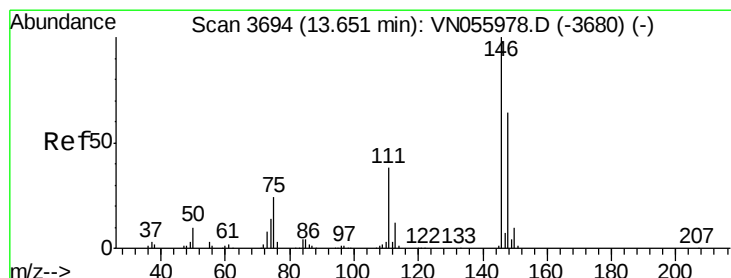
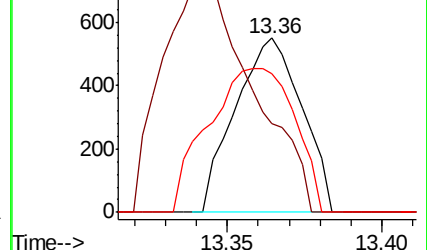
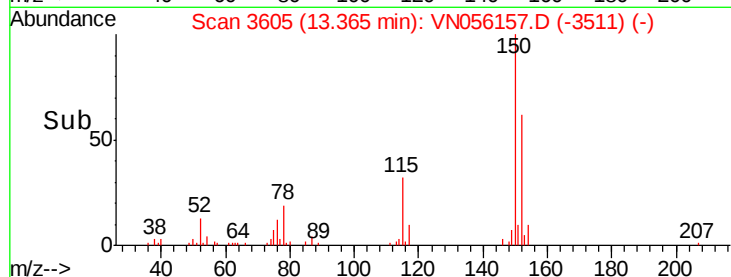
148 107.5 32.1 96.5#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.205 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

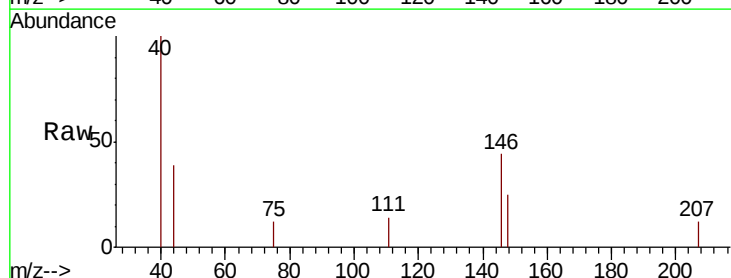
Tgt Ion:146 Resp: 836

Ion Ratio Lower Upper

146 100

111 16.4 19.1 57.5#

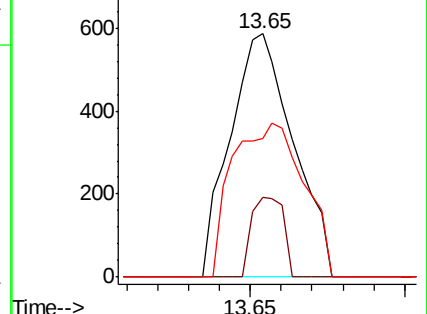
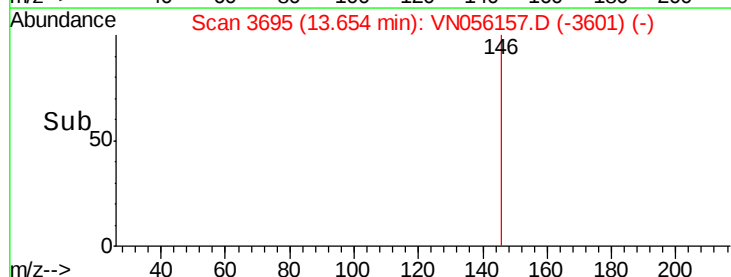
148 71.8 31.9 95.9

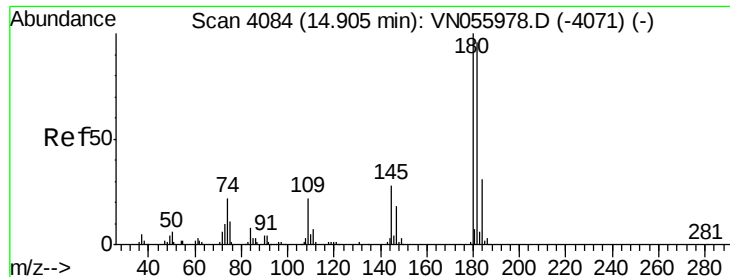


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

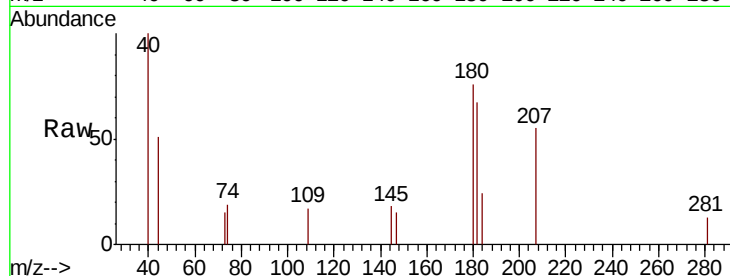




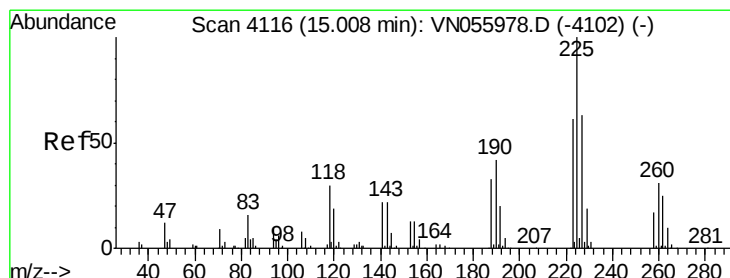
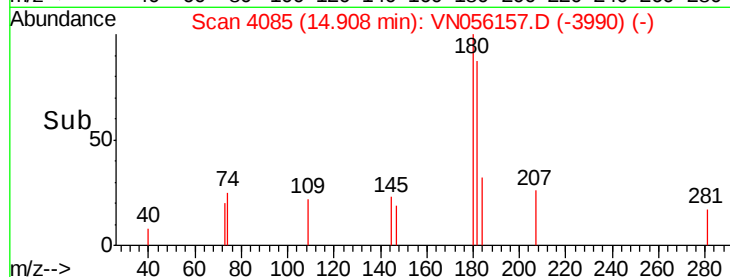
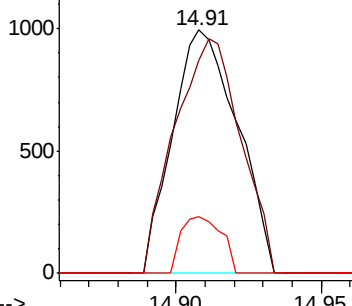
#93
 1,2,4-Trichlorobenzene
 Concen: 4.901 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1549
 Ion Ratio Lower Upper
 180 100
 182 98.2 48.3 144.9
 145 14.6 14.0 41.9

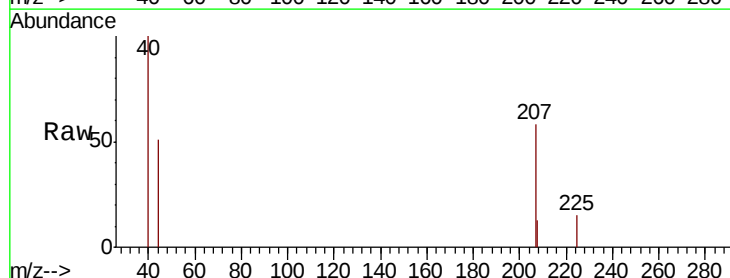


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

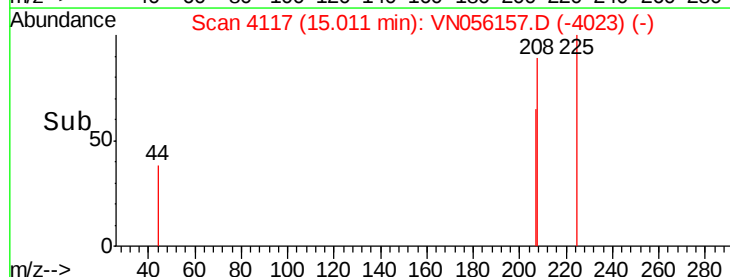
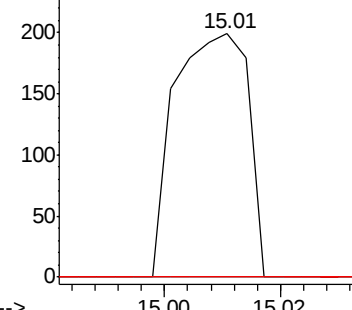


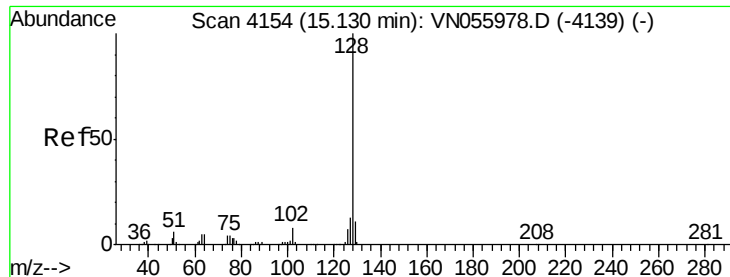
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Tgt Ion:225 Resp: 174
 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: 4.456 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampled :

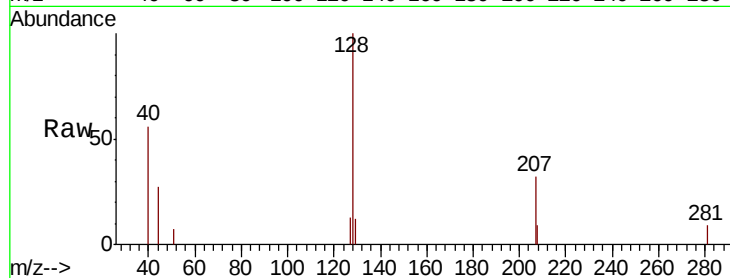
Tot Ion:128 Resp: 3814

Ion Ratio Lower Upper

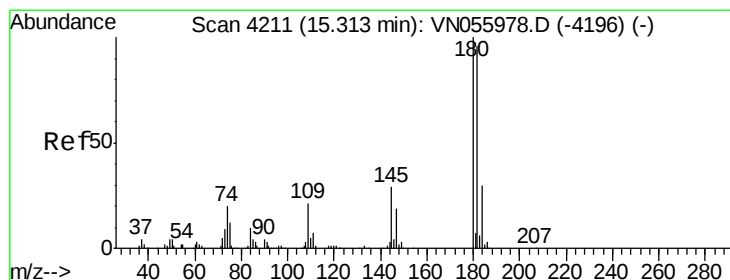
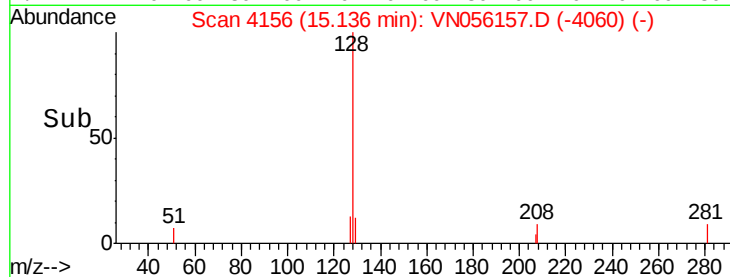
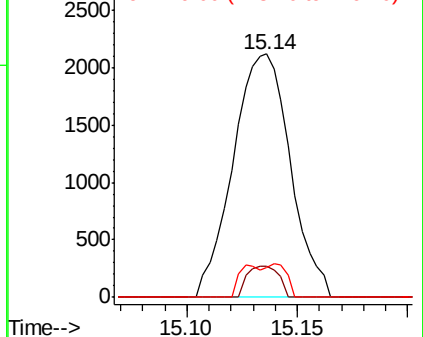
128 100

127 7.1 10.3 15.5#

129 5.1 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: 3.936 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

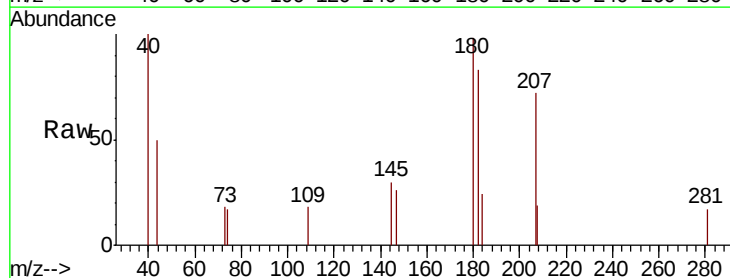
Tgt Ion:180 Resp: 2205

Ion Ratio Lower Upper

180 100

182 94.3 47.9 143.7

145 22.5 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

