

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056191.D
 Acq On : 11 Jun 2019 1:24
 Operator : JC/SP
 Sample : K3223-02DL 40X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW014-190605DL

Quant Time: Jun 11 02:25:43 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	319708	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	486211	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	474474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	155152	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	168702	53.14	ug/l	0.00
Spiked Amount			Recovery	=	106.28%	
35) Dibromofluoromethane	7.59	113	158995	53.30	ug/l	0.00
Spiked Amount			Recovery	=	106.60%	
50) Toluene-d8	10.09	98	630360	54.91	ug/l	0.00
Spiked Amount			Recovery	=	109.82%	
62) 4-Bromofluorobenzene	12.40	95	199134	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	

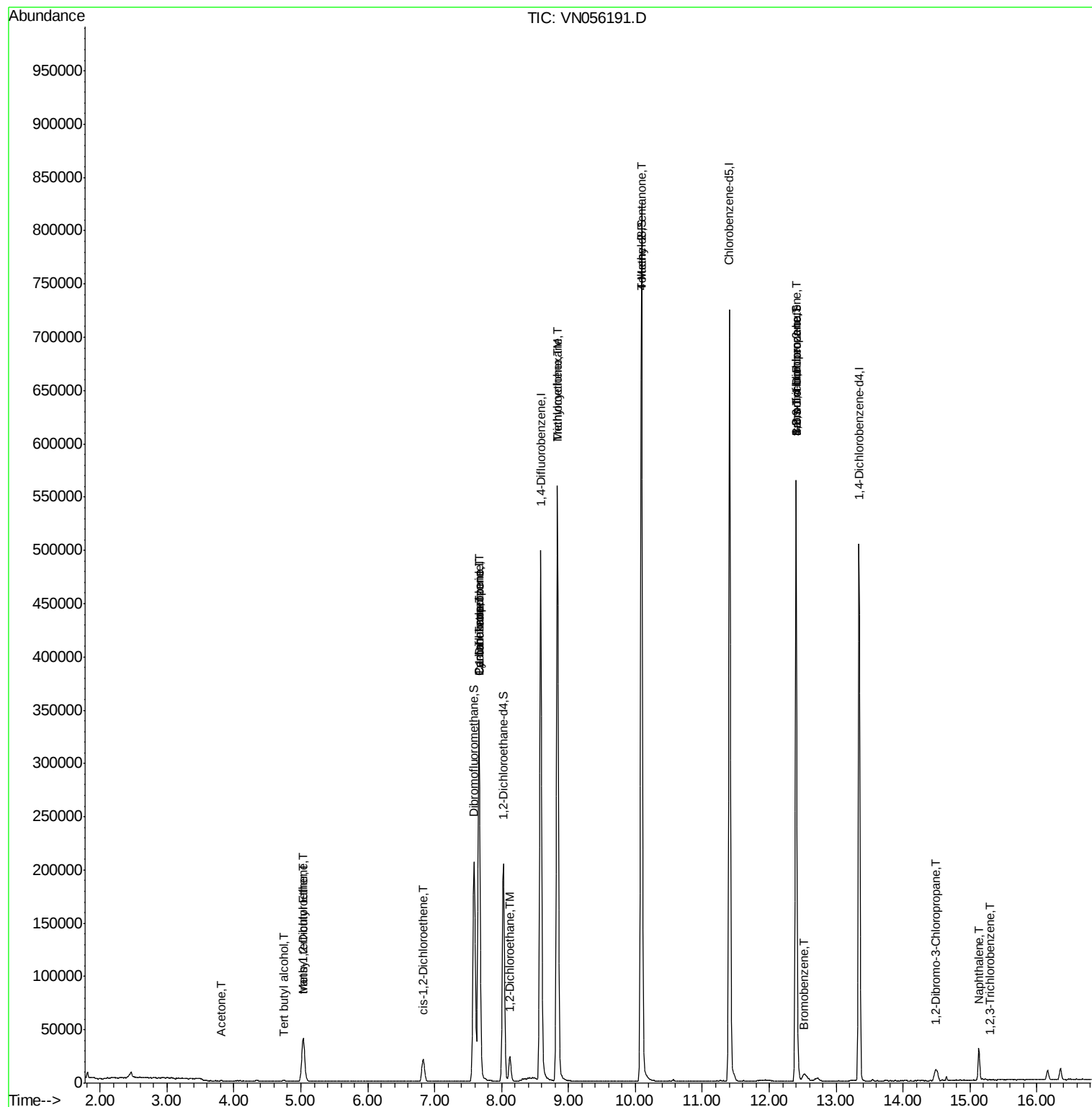
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	549	0.994	ug/l #	74
16) Acetone	3.81	43	383	0.252	ug/l #	41
19) Methyl tert-butyl Ether	5.04	73	6164	0.721	ug/l	99
21) trans-1,2-Dichloroethene	5.03	96	27959	9.723	ug/l	94
27) cis-1,2-Dichloroethene	6.83	96	15804	4.675	ug/l	86
31) Cyclohexane	7.66	56	4565	0.906	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17918	4.286	ug/l #	47
38) Carbon Tetrachloride	7.66	117	25587	6.638	ug/l #	15
39) Methylcyclohexane	8.83	83	2396	0.460	ug/l #	1
42) 1,2-Dichloroethane	8.12	62	22394	5.483	ug/l	98
44) Trichloroethene	8.83	130	231582	63.470	ug/l	99
51) 4-Methyl-2-Pentanone	10.09	43	2337	0.620	ug/l #	1
71) Bromoform	12.40	173	1459	3.246	ug/l #	1
73) Isopropylbenzene	12.25	105	74	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	90351	31.648	ug/l #	100
77) Bromobenzene	12.51	156	4110	1.237	ug/l #	1
79) 2-Chlorotoluene	12.60	91	235	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	90351	105.394	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.48	75	254	0.493	ug/l #	1
95) Naphthalene	15.13	128	28298	7.371	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	89	3.060	ug/l #	12

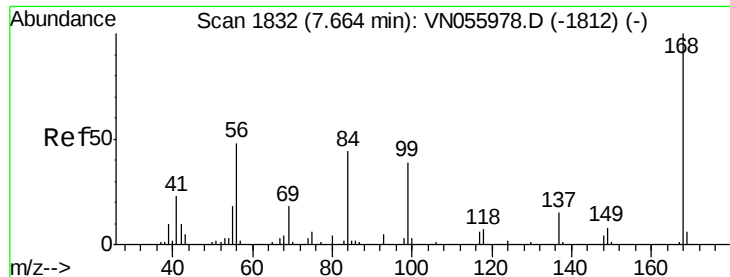
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

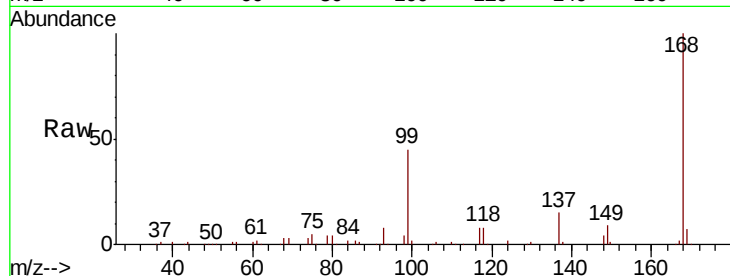
SS043MW014-190605DL

Tot Ion:168 Resp: 319708

Ion Ratio Lower Upper

168 100

99 44.6 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

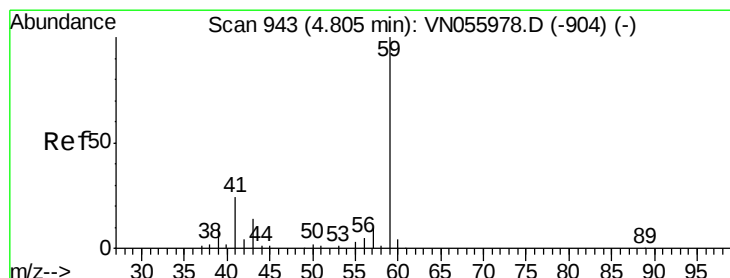
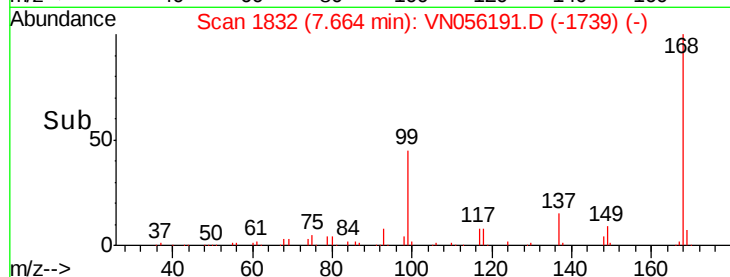
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.994 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.05 min

Lab File: VN056191.D

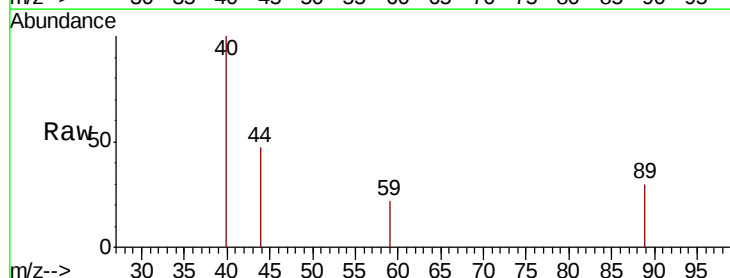
Acq: 11 Jun 2019 1:24

Tgt Ion: 59 Resp: 549

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN055978.D (-904) (-)

4.75

300

250

200

150

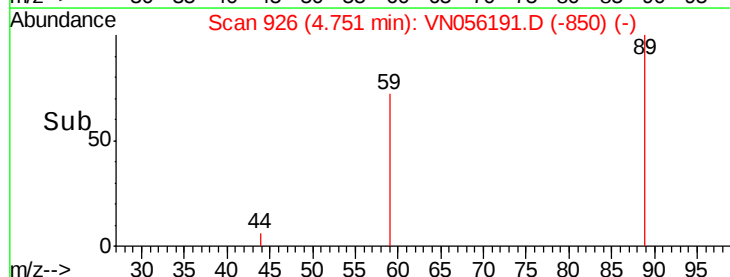
100

50

0

4.70 4.72 4.74 4.76 4.78

Time-->





#16

Acetone

Concen: 0.252 ug/l

RT: 3.81 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

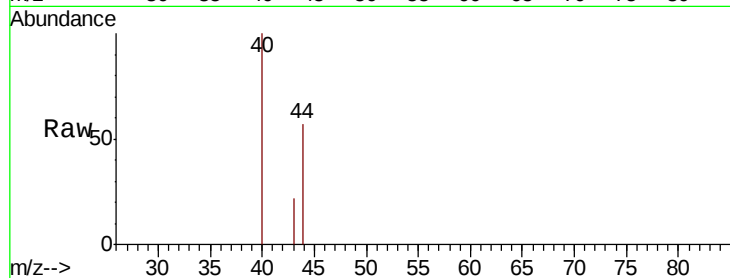
SS043MW014-190605DL

Tot Ion: 43 Resp: 383

Ion Ratio Lower Upper

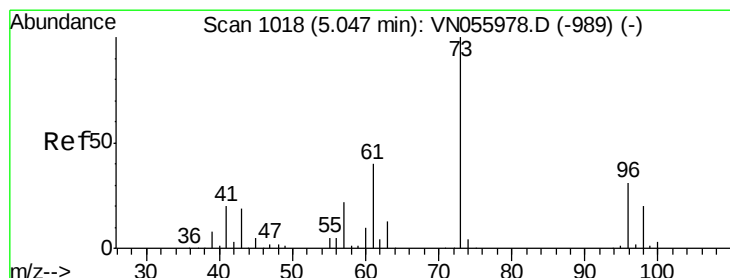
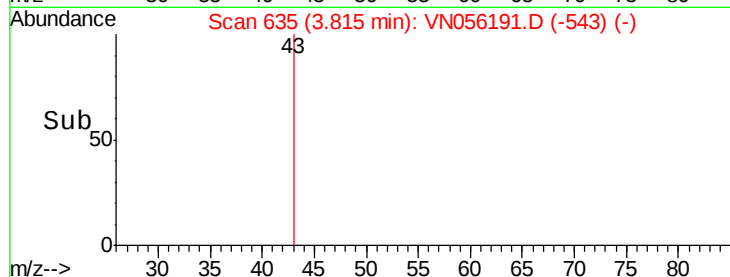
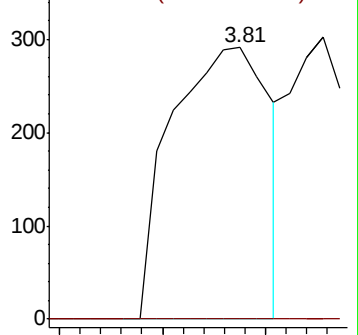
43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#19

Methyl tert-butyl Ether

Concen: 0.721 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN056191.D

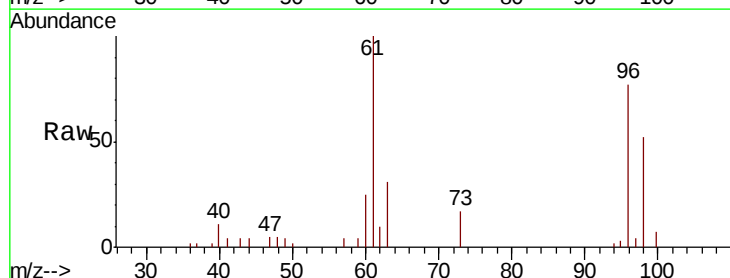
Acq: 11 Jun 2019 1:24

Tgt Ion: 73 Resp: 6164

Ion Ratio Lower Upper

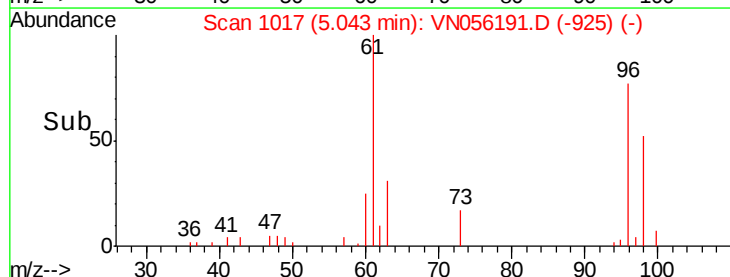
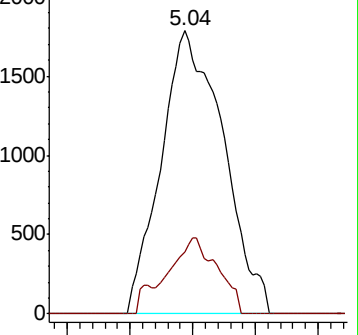
73 100

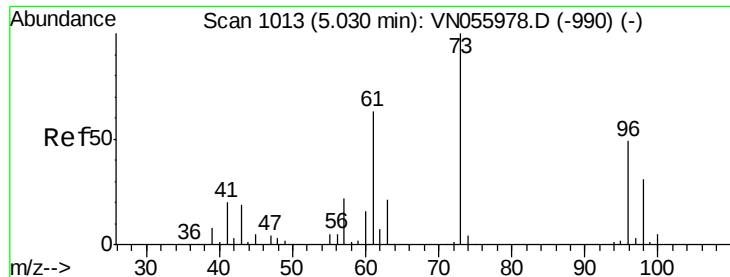
57 21.9 17.8 26.8



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#21

trans-1,2-Dichloroethene

Concen: 9.723 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

SS043MW014-190605DL

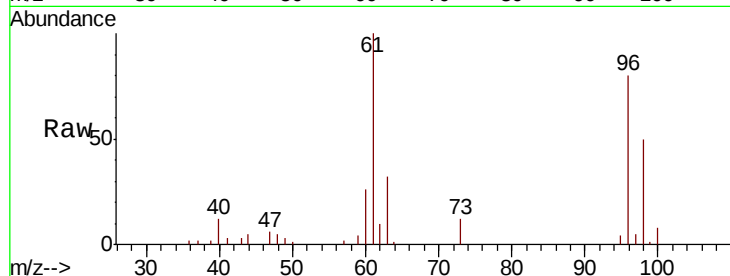
Tot Ion: 96 Resp: 27959

Ion Ratio Lower Upper

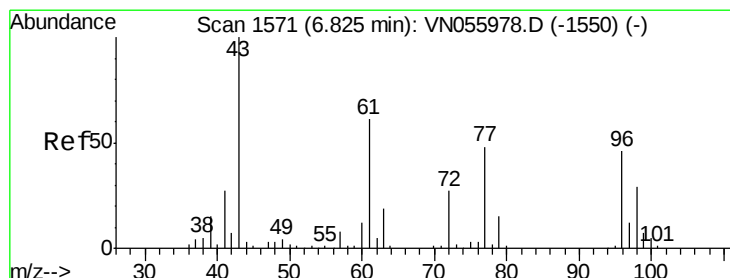
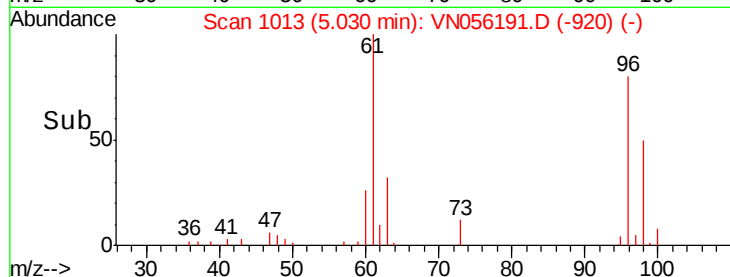
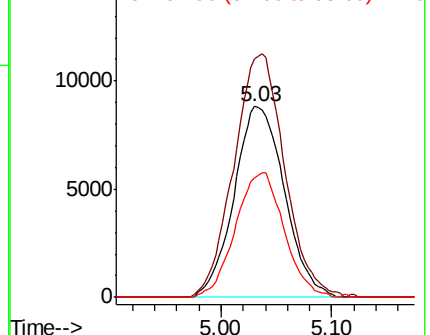
96 100

61 124.7 107.8 161.8

98 62.8 49.8 74.8



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 4.675 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

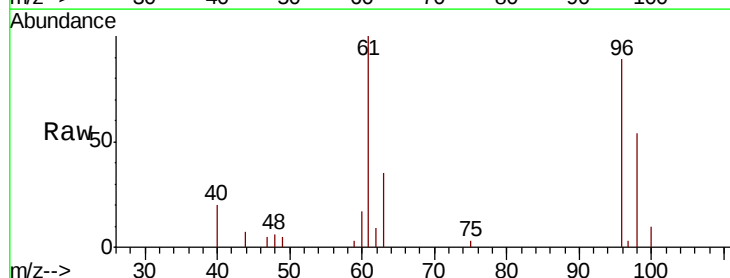
Tgt Ion: 96 Resp: 15804

Ion Ratio Lower Upper

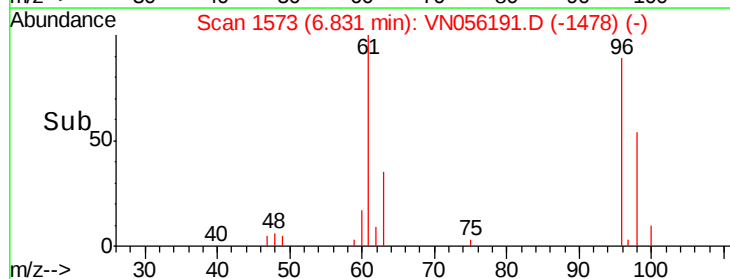
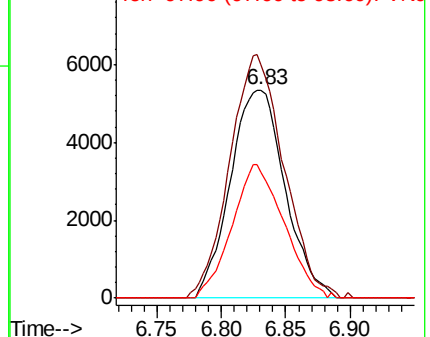
96 100

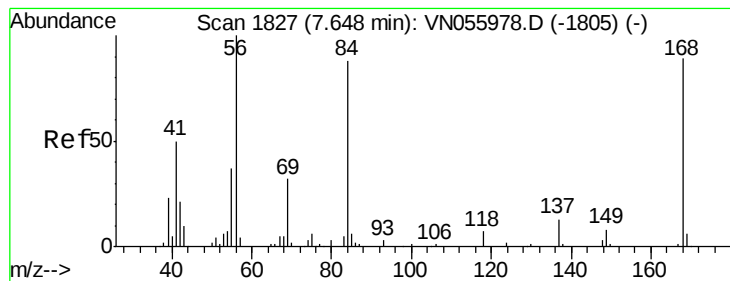
61 115.8 0.0 275.8

98 61.0 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#31

Cyclohexane

Concen: 0.906 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

SS043MW014-190605DL

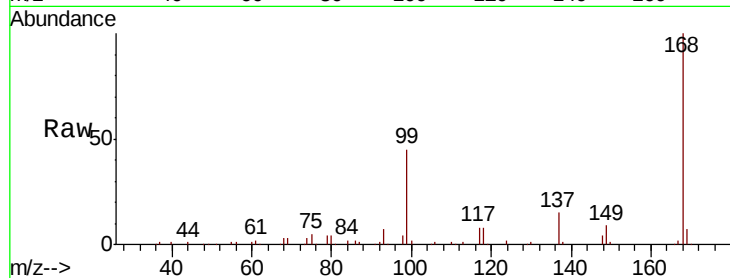
Tot Ion: 56 Resp: 4565

Ion Ratio Lower Upper

56 100

69 185.2 25.6 38.4#

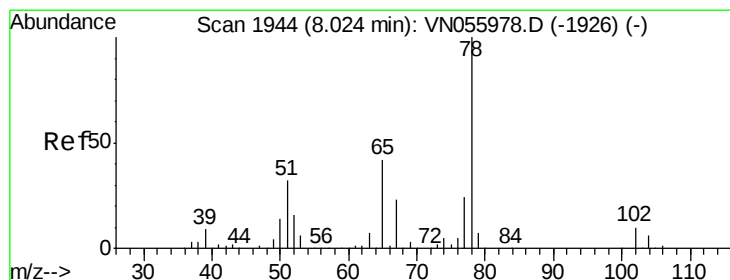
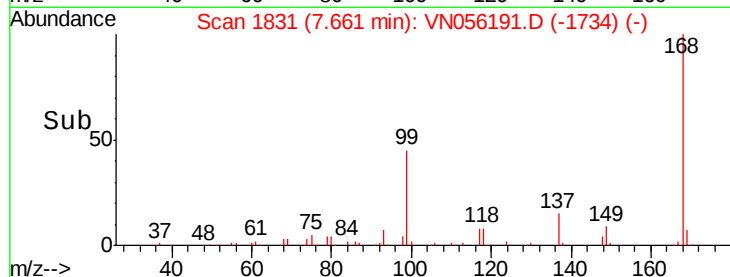
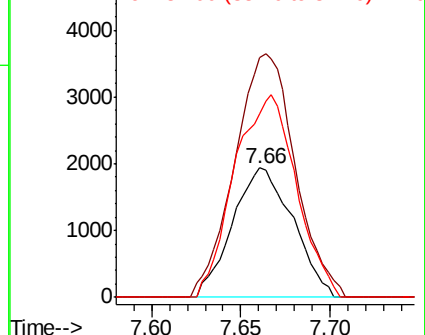
84 141.7 67.4 101.0#



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: 53.144 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056191.D

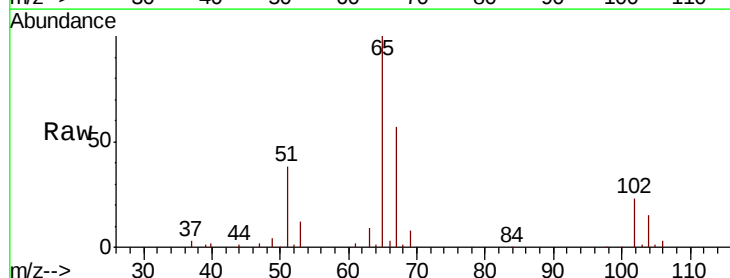
Acq: 11 Jun 2019 1:24

Tgt Ion: 65 Resp: 168702

Ion Ratio Lower Upper

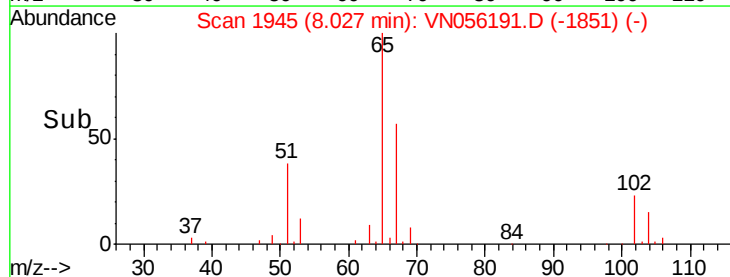
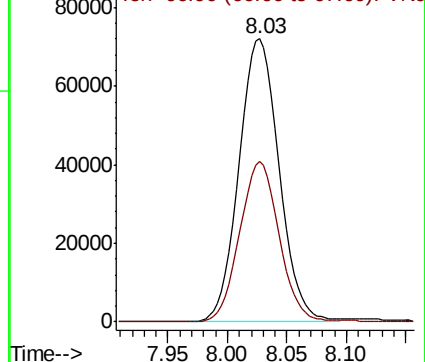
65 100

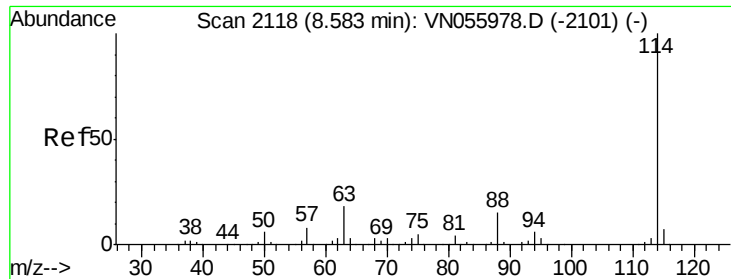
67 55.8 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

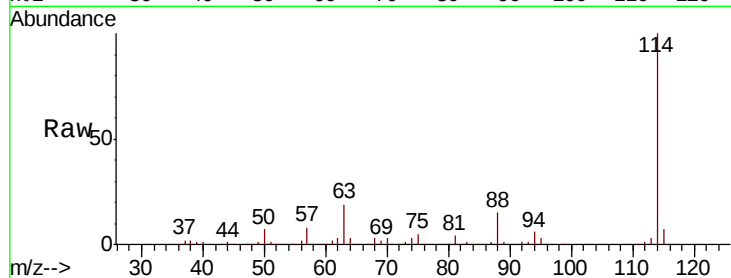




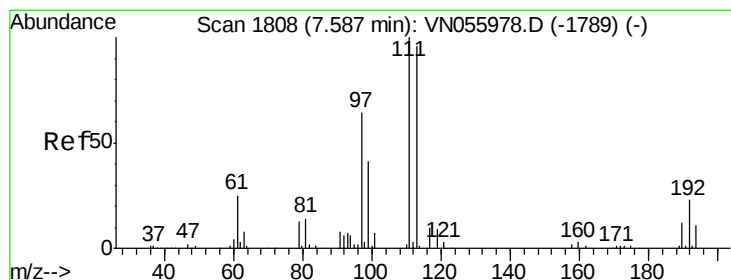
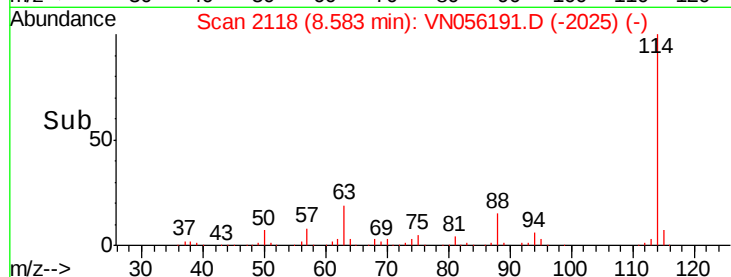
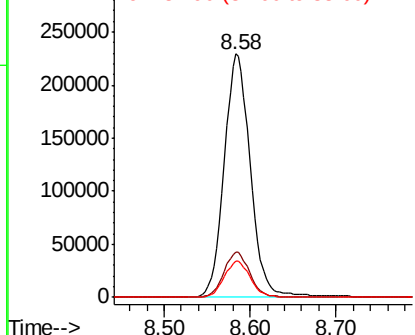
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056191.D
 Acq: 11 Jun 2019 1:24

Instrument :
 MSVOA_N
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 SS043MW014-190605DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	39.2
88	14.8	0.0	31.0

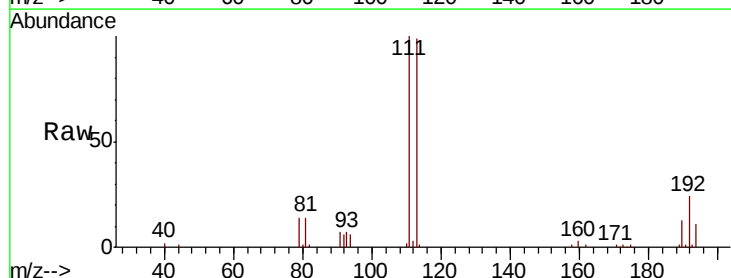


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 87.90 (87.60 to 88.60): VNO

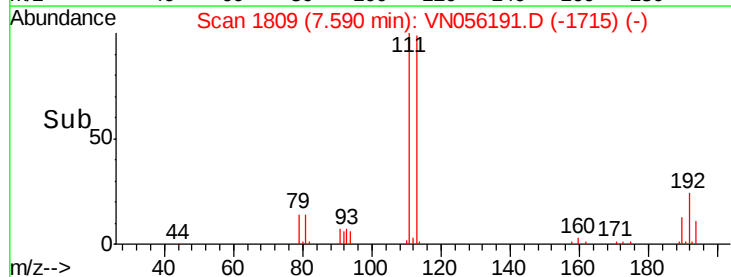
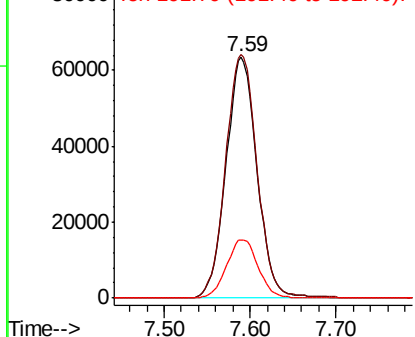


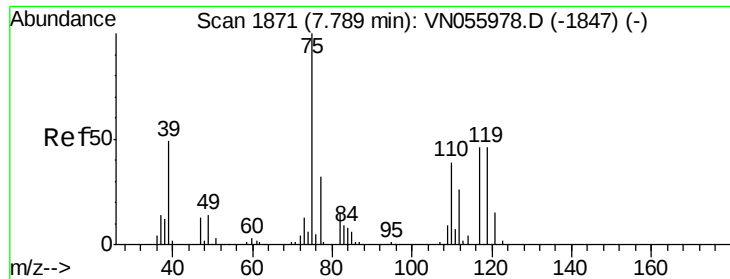
#35
 Dibromofluoromethane
 Concen: 53.299 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056191.D
 Acq: 11 Jun 2019 1:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	24.6	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

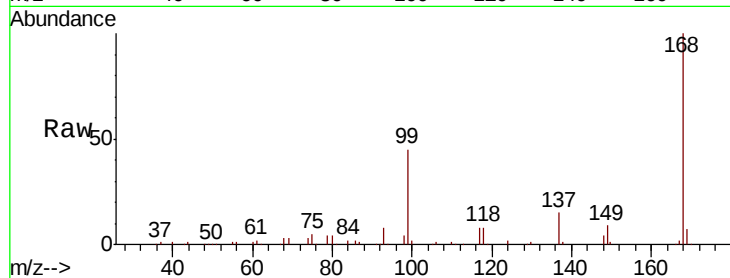




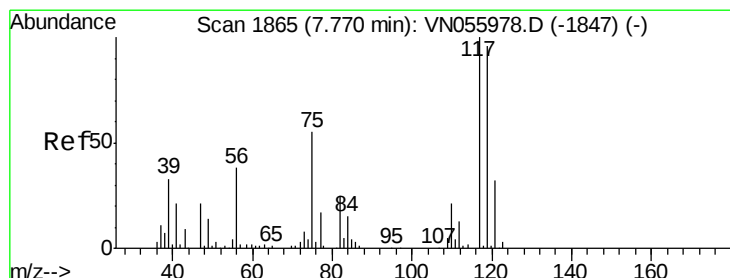
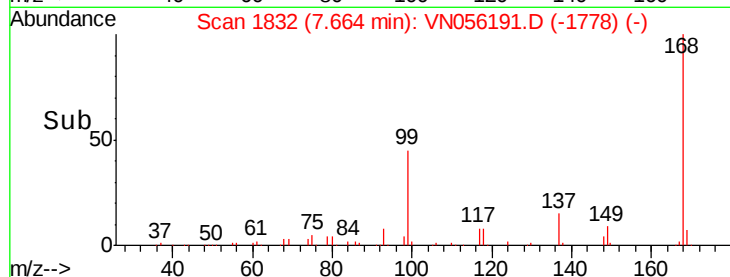
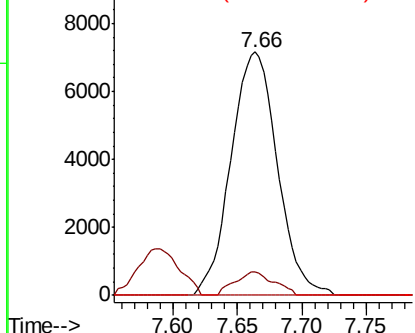
#36
 1,1-Dichloropropene
 Concen: 4.286 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056191.D
 Acq: 11 Jun 2019 1:24

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW014-190605DL

Tot Ion	75	Resp	17918
Ion Ratio	Lower	Upper	
75	100		
110	8.1	19.0	57.0#
77	0.0	25.1	37.7#

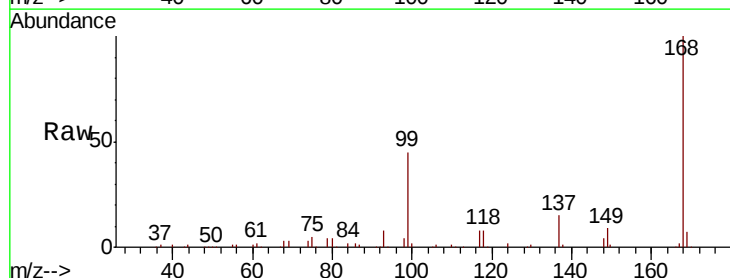


Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-1847) (-)
 Ion 109.90 (109.60 to 110.60): VN055978.D (-1847) (-)
 Ion 76.90 (76.60 to 77.60): VN055978.D (-1847) (-)

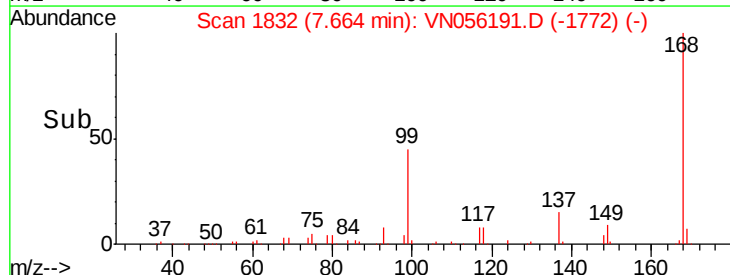
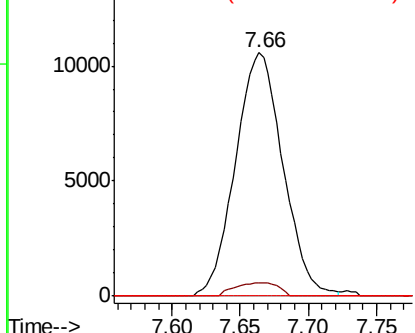


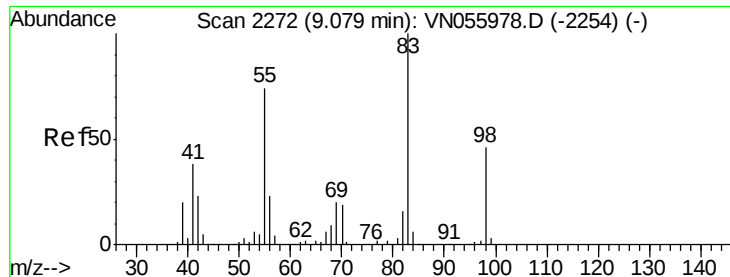
#38
 Carbon Tetrachloride
 Concen: 6.638 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056191.D
 Acq: 11 Jun 2019 1:24

Tgt Ion	117	Resp	25587
Ion Ratio	Lower	Upper	
117	100		
119	5.6	79.0	118.6#
121	0.0	24.7	37.1#



Abundance Ion 116.80 (116.50 to 117.50): VN055978.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN055978.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN055978.D (-1847) (-)

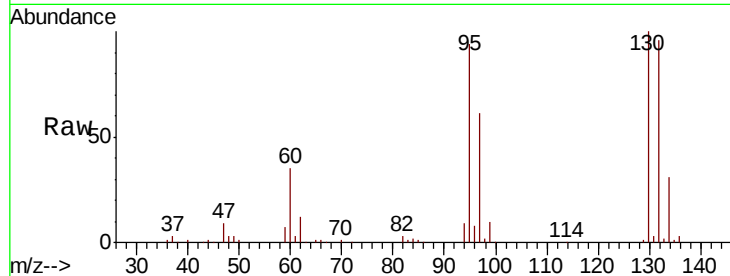




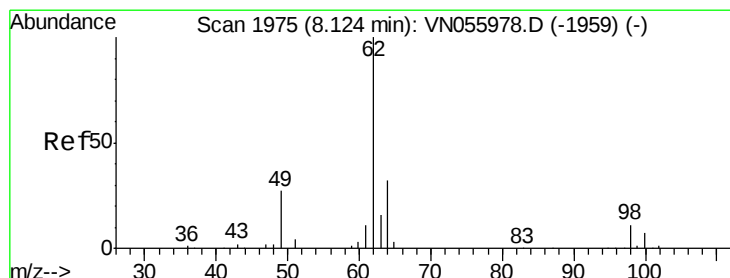
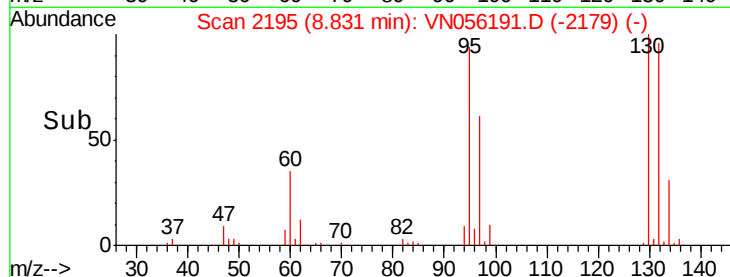
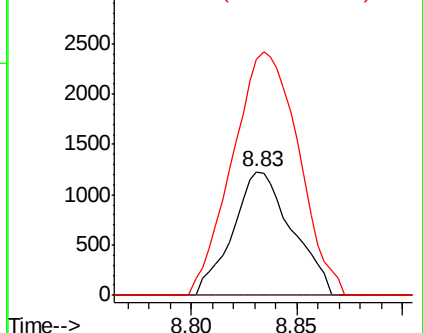
#39
Methylcyclohexane
Concen: 0.460 ug/l
RT: 8.83 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VN056191.D
Acq: 11 Jun 2019 1:24

Instrument :
MSVOA_N
ClientSampleId :
SS043MW014-190605DL

Tot Ion: 83 Resp: 2396
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 191.4 36.6 54.8#

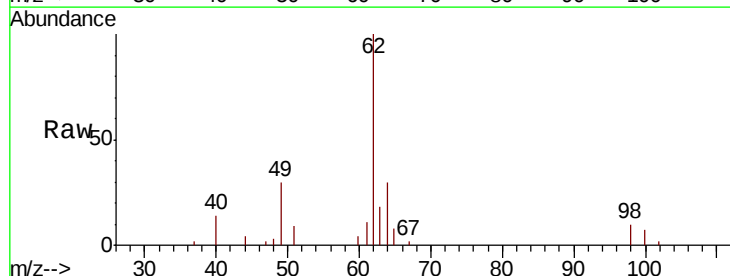


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

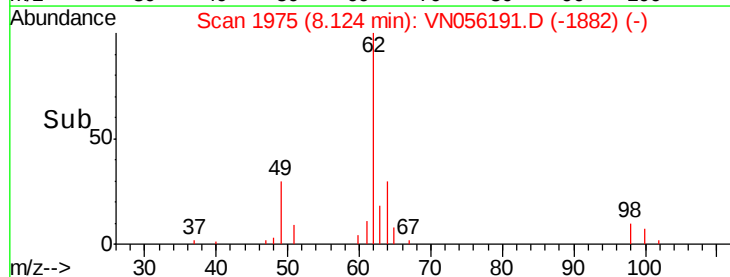
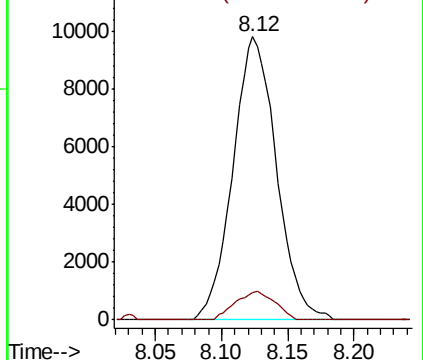


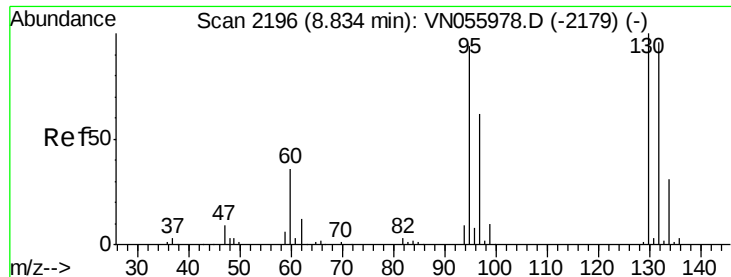
#42
1,2-Dichloroethane
Concen: 5.483 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056191.D
Acq: 11 Jun 2019 1:24

Tgt Ion: 62 Resp: 22394
Ion Ratio Lower Upper
62 100
98 9.2 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#44

Trichloroethene

Concen: 63.470 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

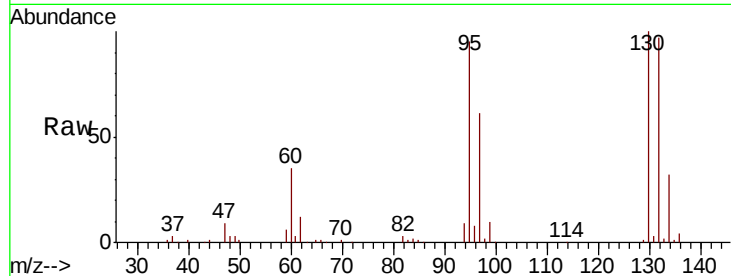
SS043MW014-190605DL

Tot Ion:130 Resp: 231582

Ion Ratio Lower Upper

130 100

95 94.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.83

120000

100000

80000

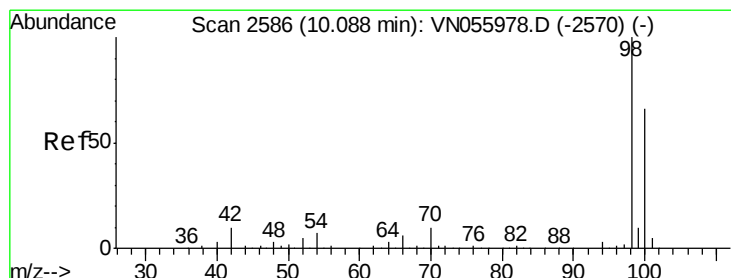
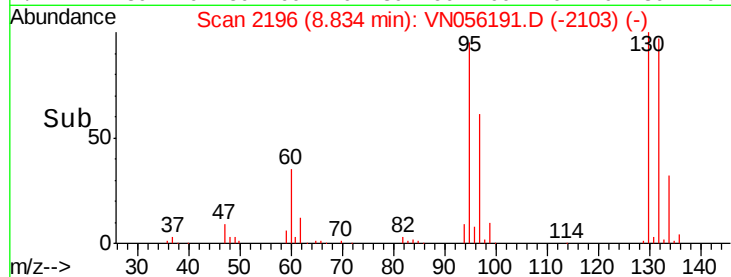
60000

40000

20000

0

Time--> 8.70 8.80 8.90 9.00



#50

Toluene-d8

Concen: 54.915 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056191.D

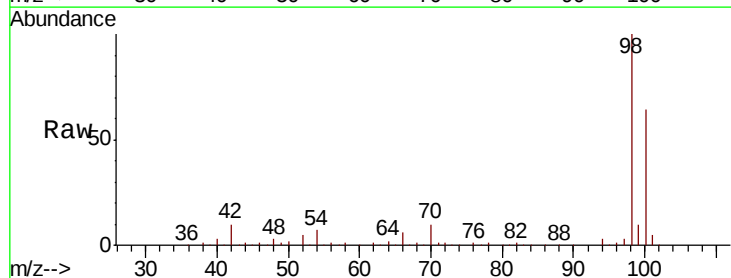
Acq: 11 Jun 2019 1:24

Tgt Ion: 98 Resp: 630360

Ion Ratio Lower Upper

98 100

100 63.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.09

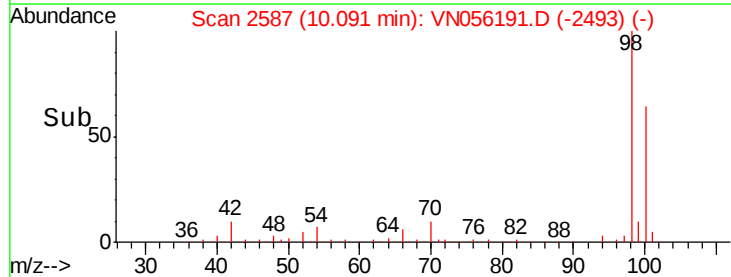
300000

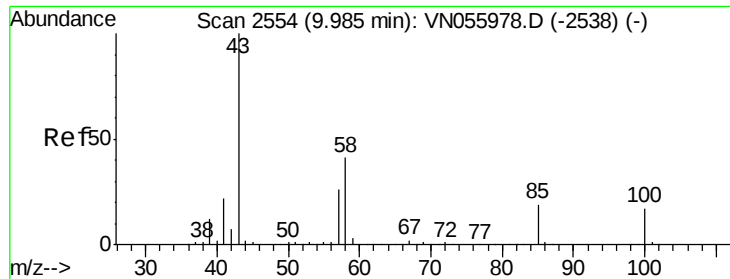
200000

100000

0

Time--> 10.00 10.10 10.20 10.30





#51

4-Methyl-2-Pentanone

Concen: 0.620 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

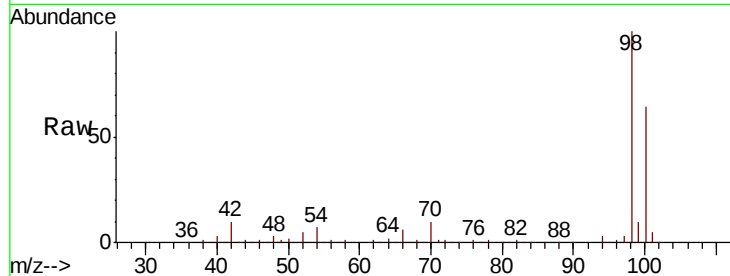
SS043MW014-190605DL

Tot Ion: 43 Resp: 2337

Ion Ratio Lower Upper

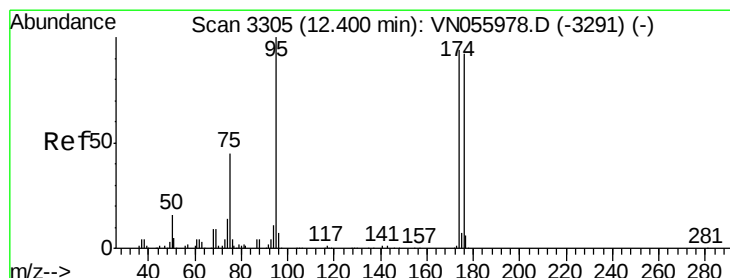
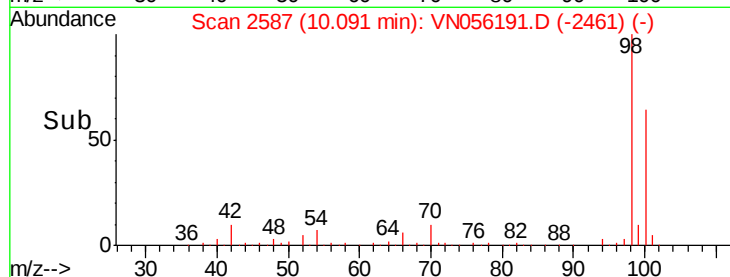
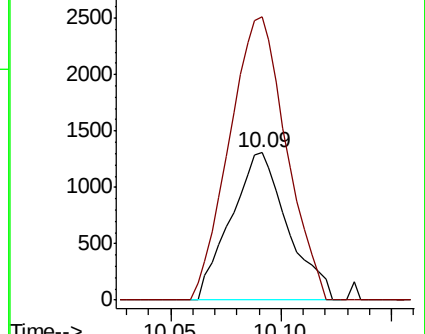
43 100

58 192.4 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) (-)



#62

4-Bromofluorobenzene

Concen: 51.012 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

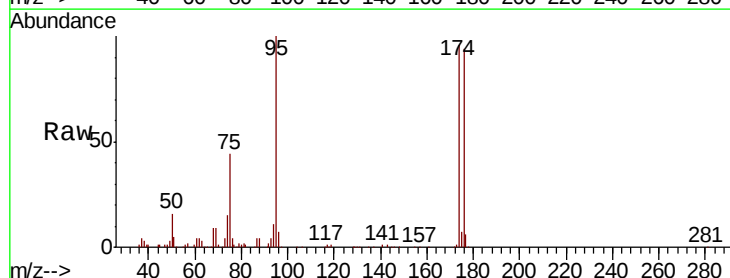
Tgt Ion: 95 Resp: 199134

Ion Ratio Lower Upper

95 100

174 97.1 0.0 191.0

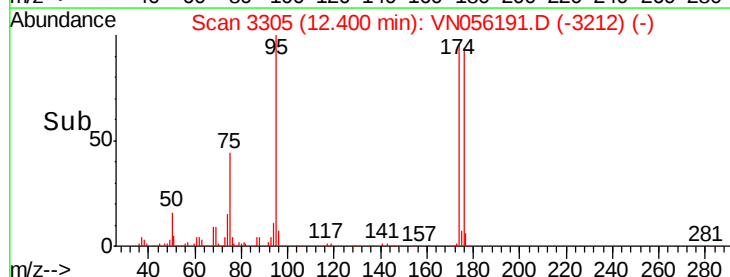
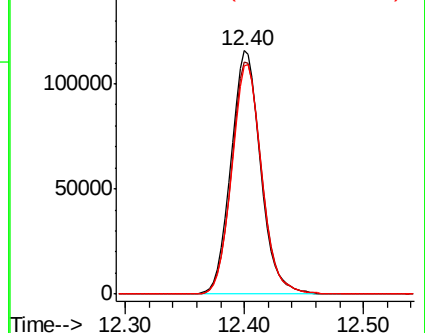
176 95.2 0.0 185.2

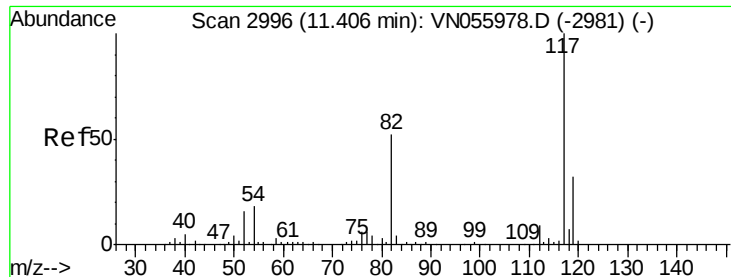


Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

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: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

SS043MW014-190605DL

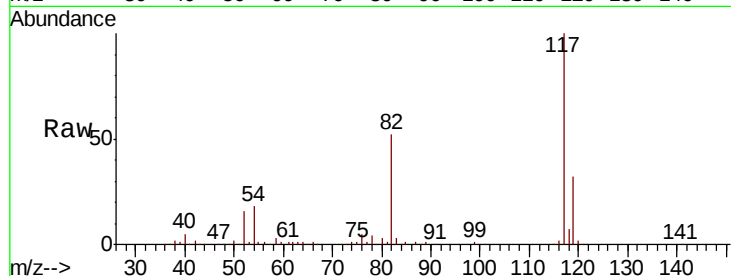
Tot Ion:117 Resp: 474474

Ion Ratio Lower Upper

117 100

82 52.3 41.8 62.8

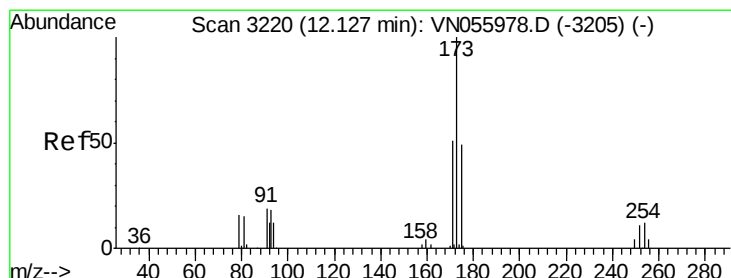
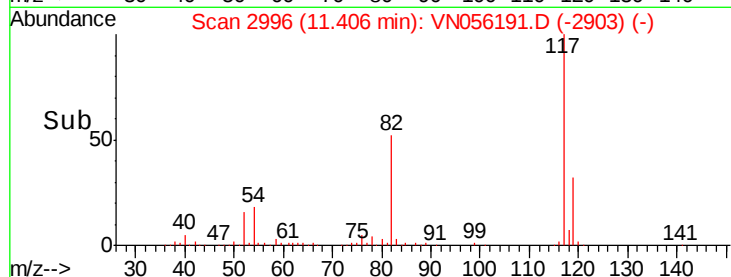
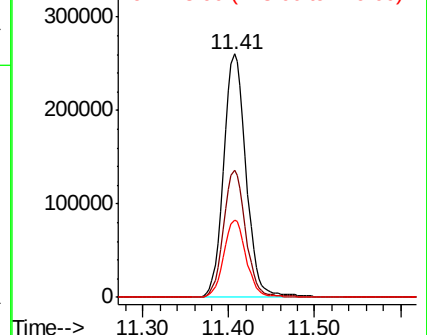
119 31.7 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.246 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

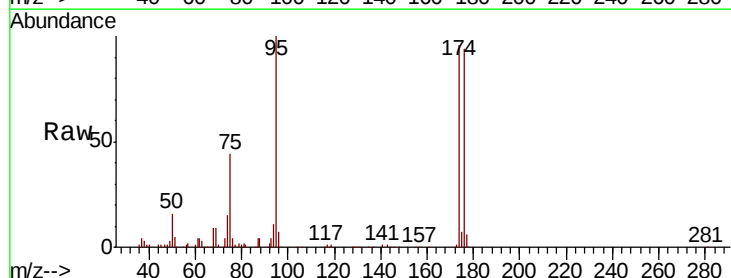
Tgt Ion:173 Resp: 1459

Ion Ratio Lower Upper

173 100

175 809.0 24.3 72.8#

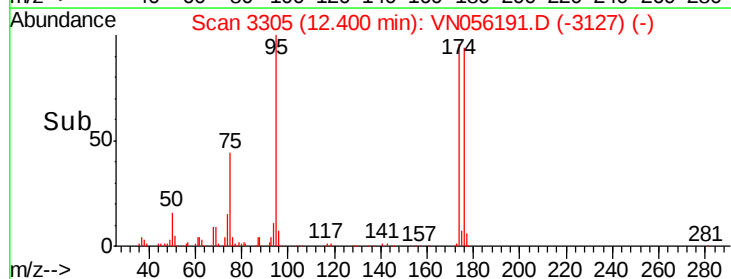
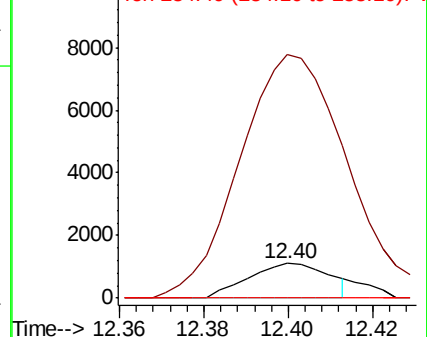
254 0.0 0.0 0.0

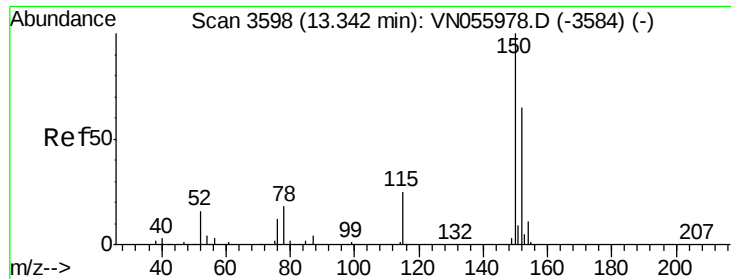


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

SS043MW014-190605DL

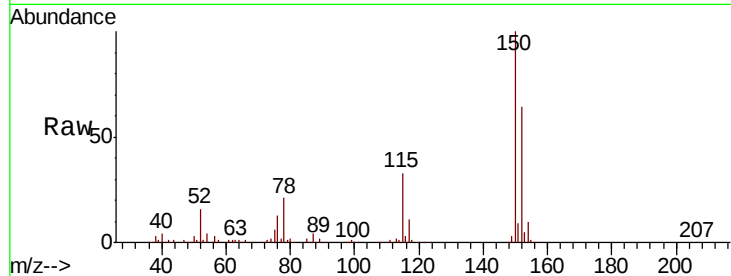
Tot Ion:152 Resp: 155152

Ion Ratio Lower Upper

152 100

115 52.3 27.0 81.0

150 157.7 0.0 343.2

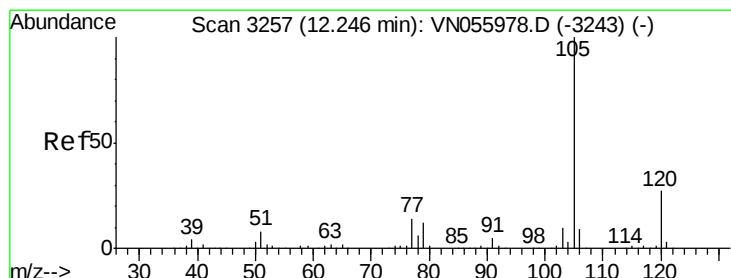
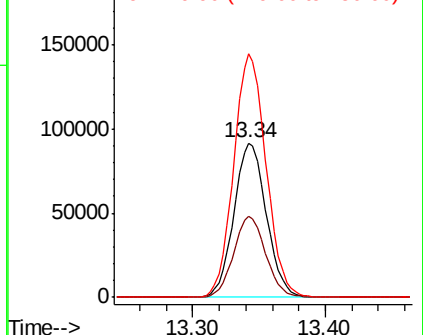
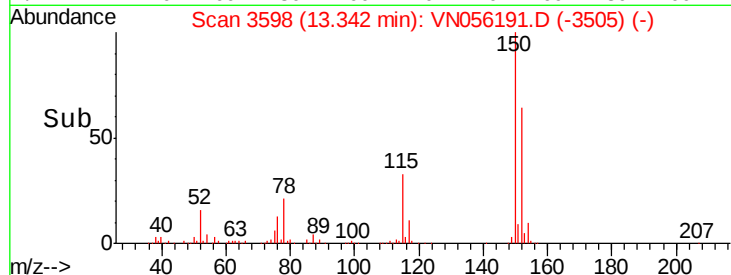


Abundance

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# 3257

Delta R.T. 0.00 min

Lab File: VN056191.D

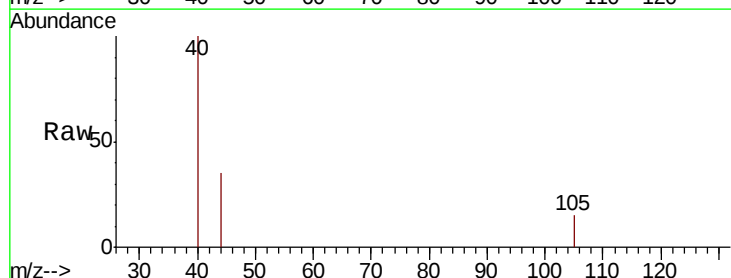
Acq: 11 Jun 2019 1:24

Tgt Ion:105 Resp: 74

Ion Ratio Lower Upper

105 100

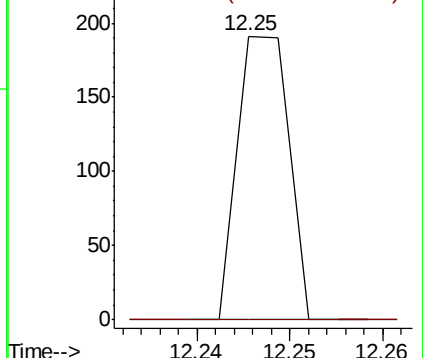
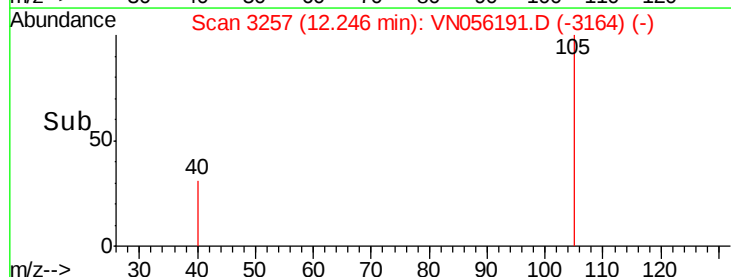
120 0.0 13.6 40.7#

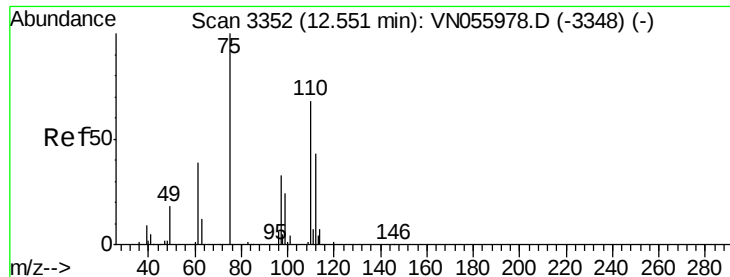


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 31.648 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

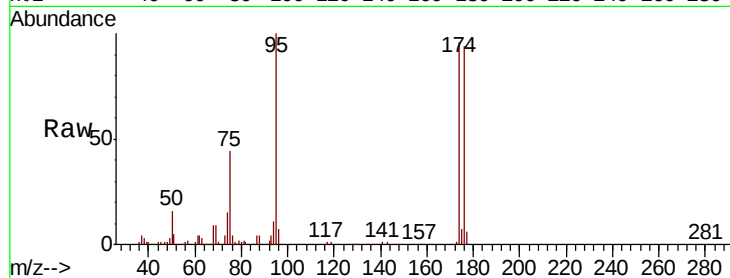
SS043MW014-190605DL

Tot Ion: 75 Resp: 90351

Ion Ratio Lower Upper

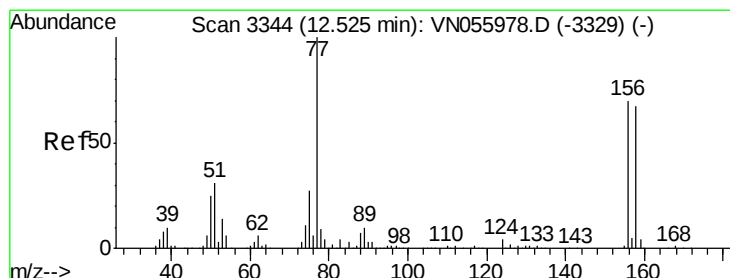
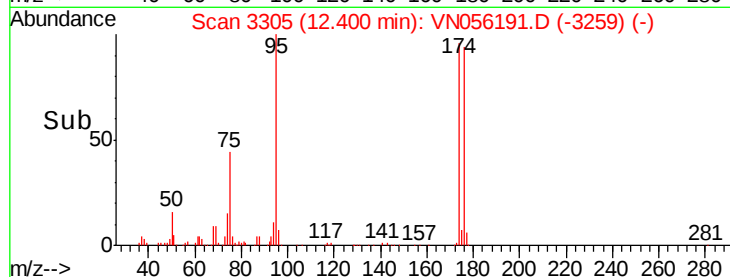
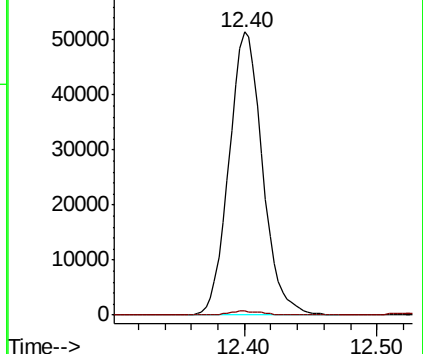
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: 1.237 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. -0.02 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

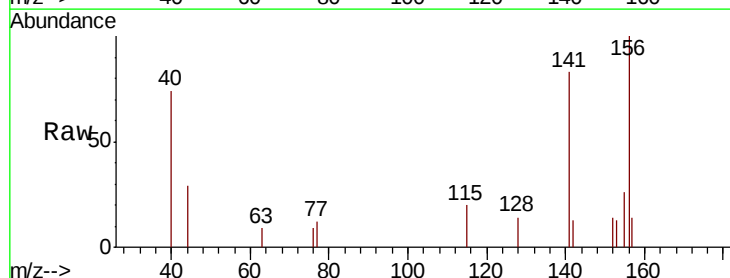
Tgt Ion: 156 Resp: 4110

Ion Ratio Lower Upper

156 100

77 6.4 90.8 272.5#

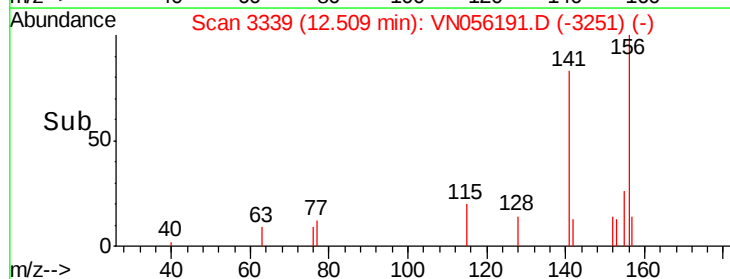
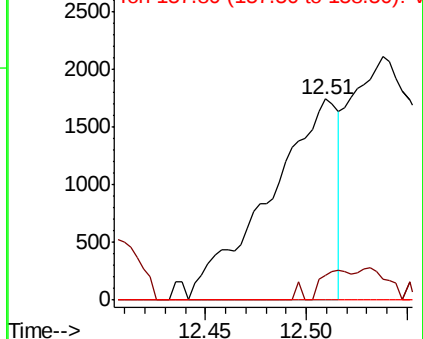
158 0.0 49.3 147.8#

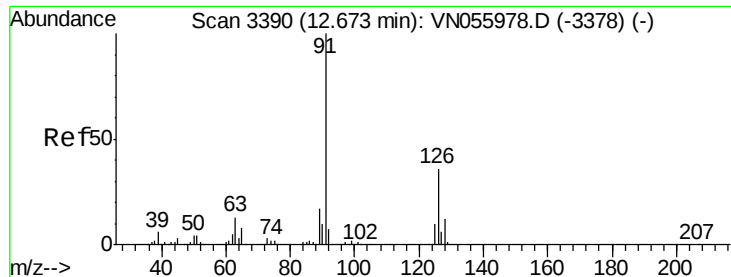


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

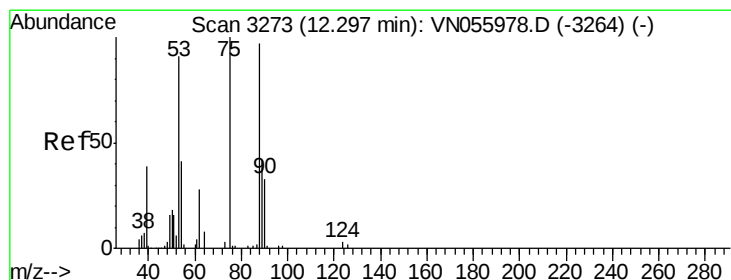
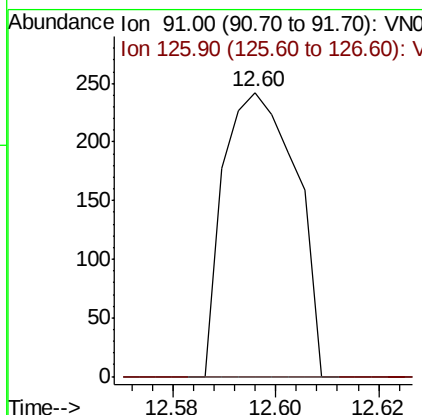
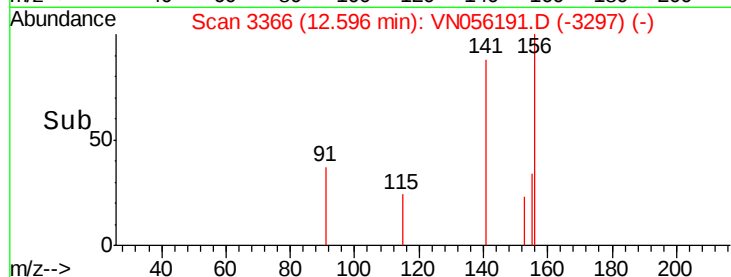
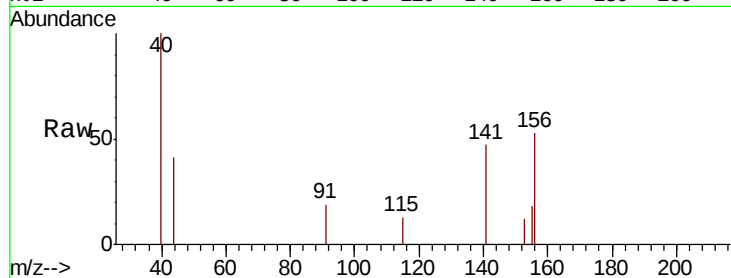




#79
2-Chlorotoluene
Concen: Below Cal
RT: 12.60 min Scan# 3366
Delta R.T. -0.08 min
Lab File: VN056191.D
Acq: 11 Jun 2019 1:24

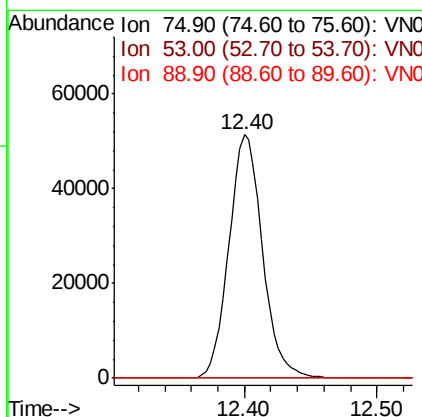
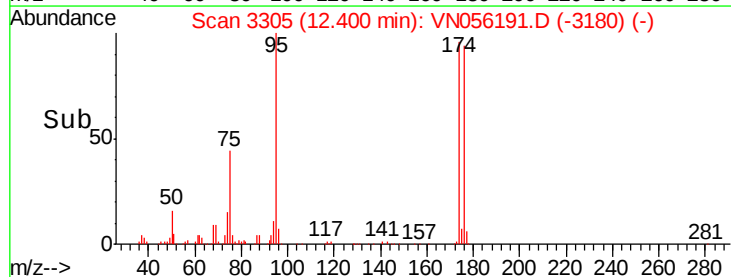
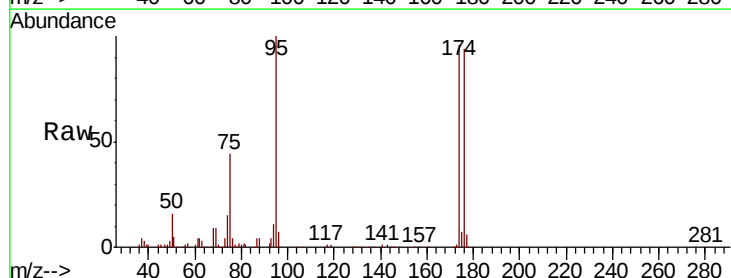
Instrument :
MSVOA_N
ClientSampleId :
SS043MW014-190605DL

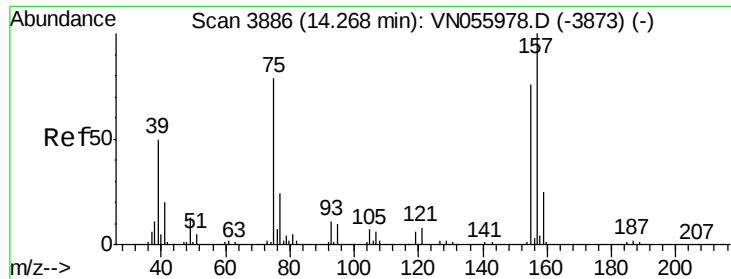
Tot Ion: 91 Resp: 235
Ion Ratio Lower Upper
91 100
126 0.0 18.1 54.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 105.394 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN056191.D
Acq: 11 Jun 2019 1:24

Tgt Ion: 75 Resp: 90351
Ion Ratio Lower Upper
75 100
53 0.0 68.1 102.1#
89 0.0 36.9 55.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.493 ug/l

RT: 14.48 min Scan# 3952

Delta R.T. 0.21 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

Instrument :

MSVOA_N

ClientSampleId :

SS043MW014-190605DL

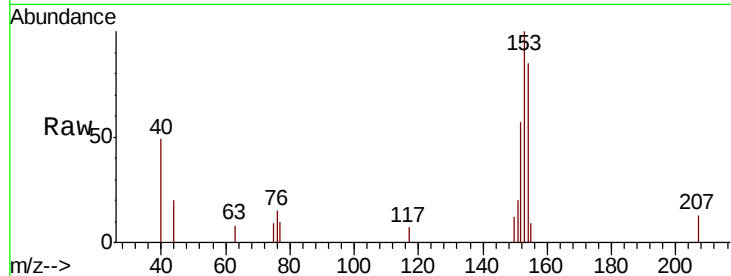
Tot Ion: 75 Resp: 254

Ion Ratio Lower Upper

75 100

155 0.0 50.0 150.1#

157 0.0 64.8 194.3#

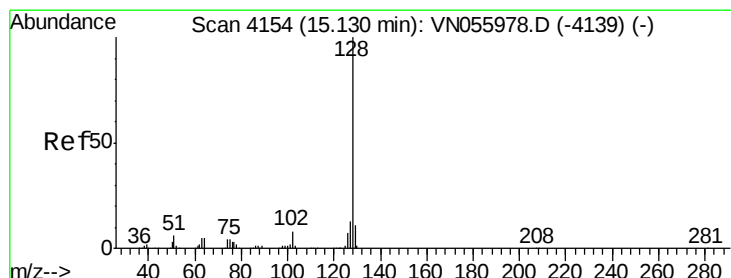
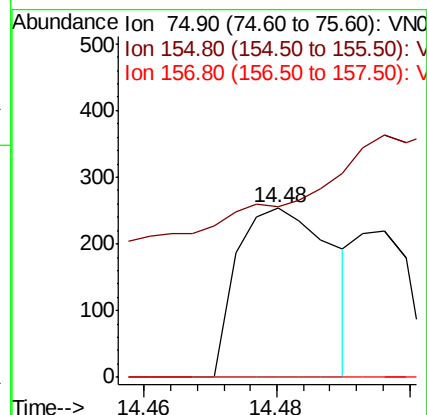
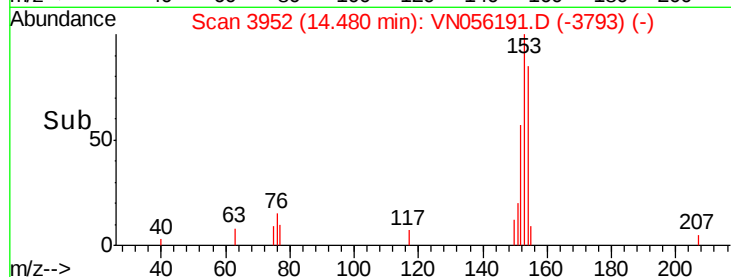


Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3873) (-)

Ion 154.80 (154.50 to 155.50): VN055978.D (-3873) (-)

Ion 156.80 (156.50 to 157.50): VN055978.D (-3873) (-)

Time-->



#95

Naphthalene

Concen: 7.371 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056191.D

Acq: 11 Jun 2019 1:24

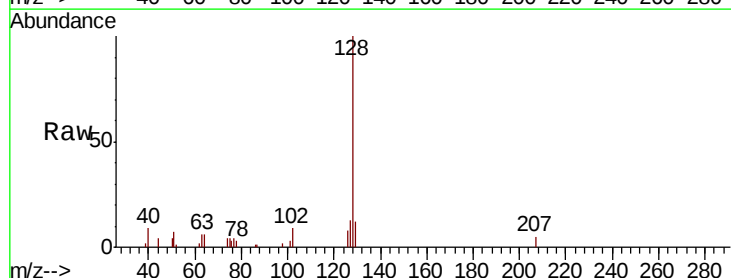
Tgt Ion: 128 Resp: 28298

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

129 10.8 8.7 13.1

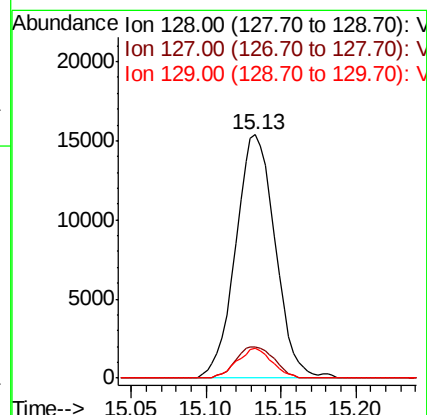
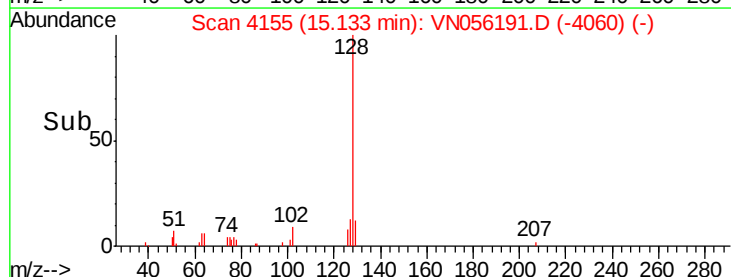


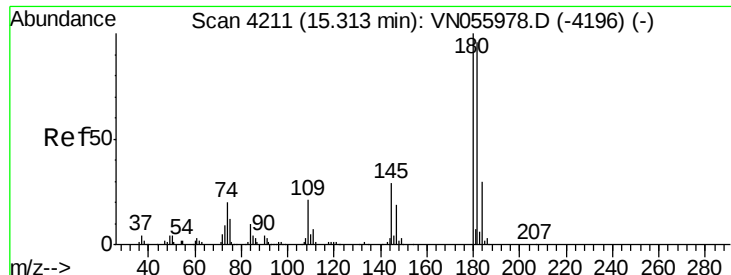
Abundance Ion 128.00 (127.70 to 128.70): VN055978.D (-4139) (-)

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

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

Time-->

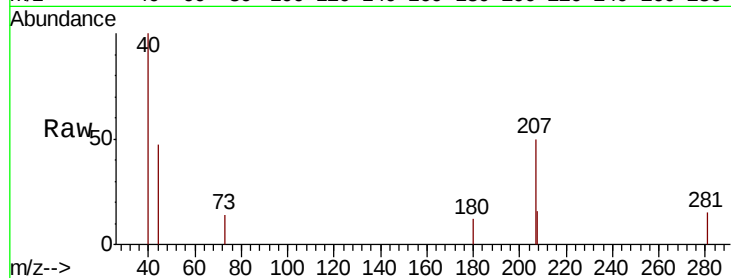




#96
 1,2,3-Trichlorobenzene
 Concen: 3.060 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. -0.01 min
 Lab File: VN056191.D
 Acq: 11 Jun 2019 1:24

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW014-190605DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.7#
145	0.0	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

