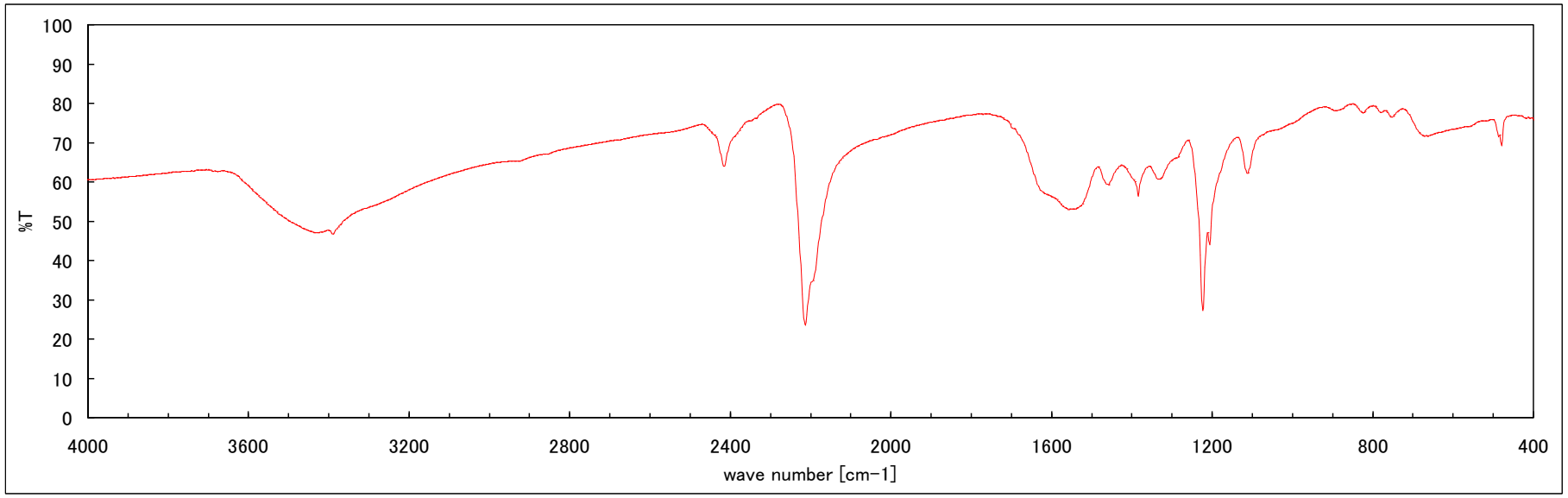
C2N2O2Hg　mercury(II) fulminate

産業技術総合研究所　高エネルギー物質研究グループ
高エネルギー物質のスペクトルDB　Raman



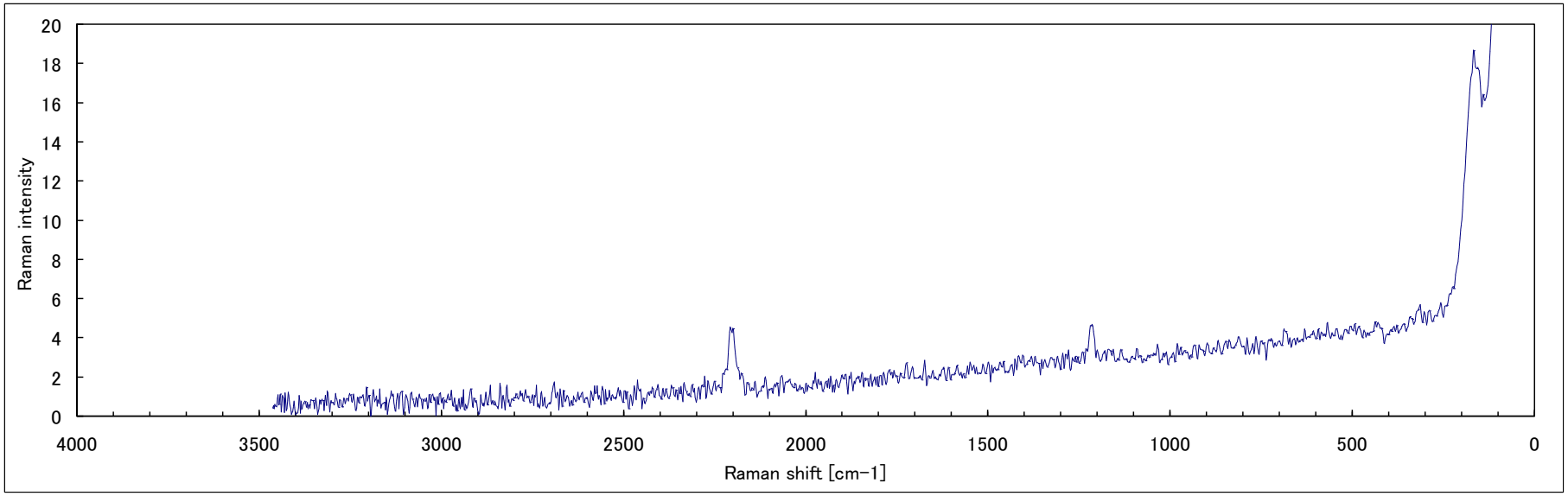
Date	Jan 08 2014
Operator	H.F.
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr

Hg(CNO)2

Peak position and Transmittance

480.1	69.2
1113.0	62.2
1207.3	44.0
1224.0	27.1
1333.1	60.7
1384.7	56.4
1459.1	59.4
1558.6	53.0
2214.1	23.5
2416.2	64.0

C2N2O2Hg mercury(II) fulminate



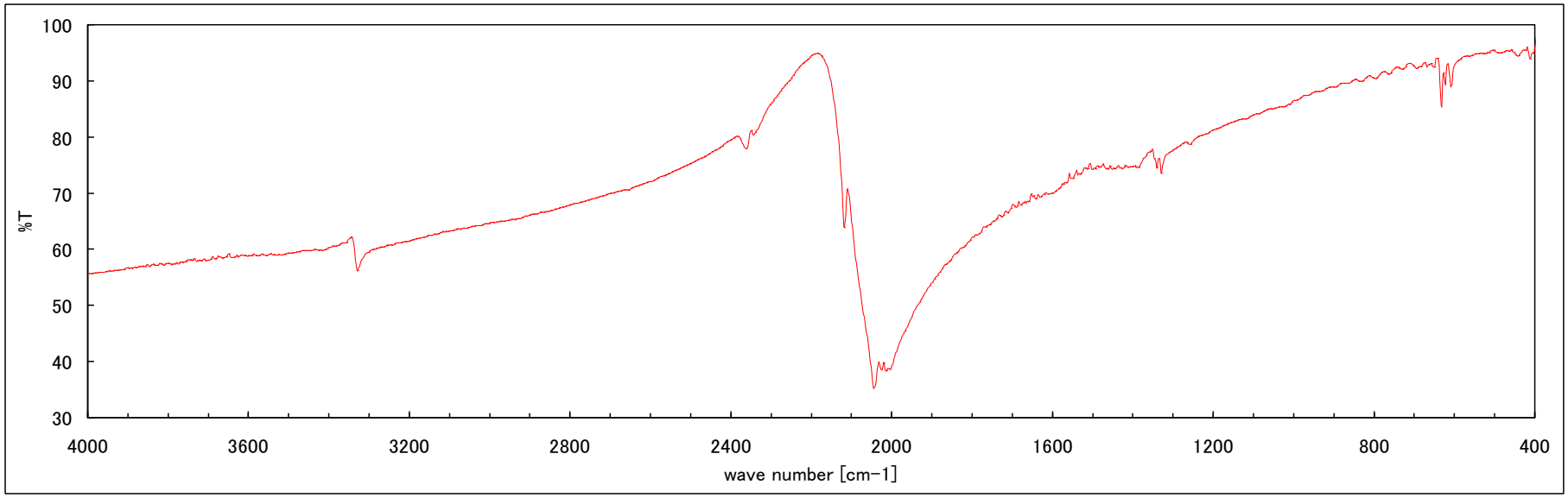
Date	Jan 08 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	780 nm, 50 mW (100%)
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)

Hg(CNO)2

Peak position and Raman intensity

1214	4
2207	4

N6Pb lead(II) azide



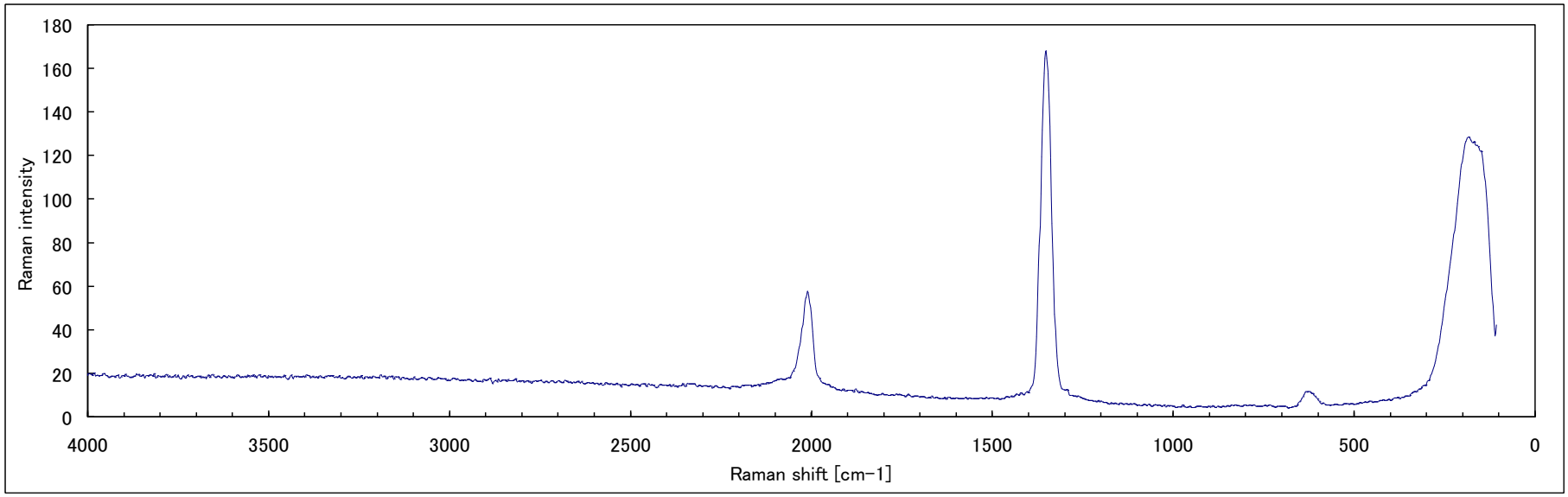
Date	Feb 13 2014
Operator	T.S..
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr

Pb [N=N=N]2

Peak position and Transmittance

608.8	88.9
633.3	85.2
1329.7	73.4
2044.3	35.3
2118.4	63.7
3329.6	56.1

N6Pb lead(II) azide



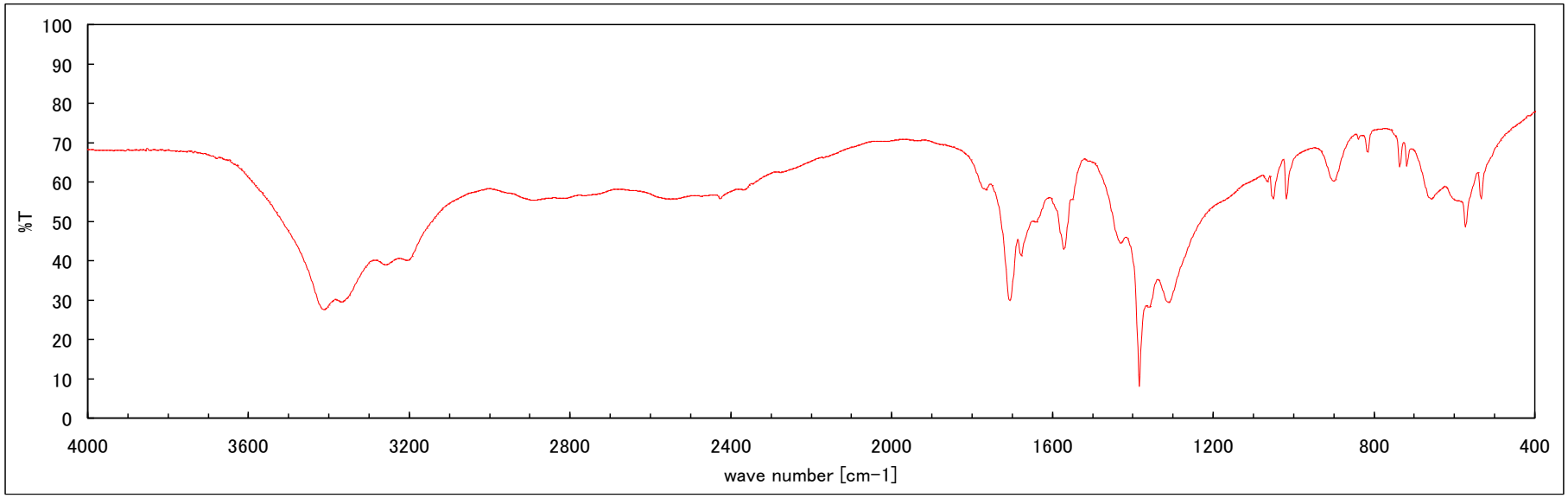
Date	Jan 15 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	532 nm, 25 mW(10%)
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)

Pb [N=N=N]2

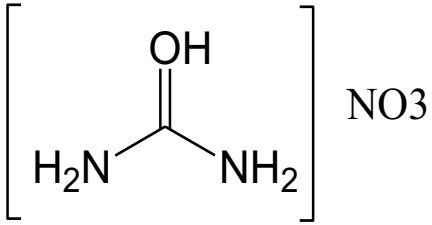
Peak position and Raman intensity

184	129
626	12
1352	168
2011	58

CH5N3O4 urea nitrate



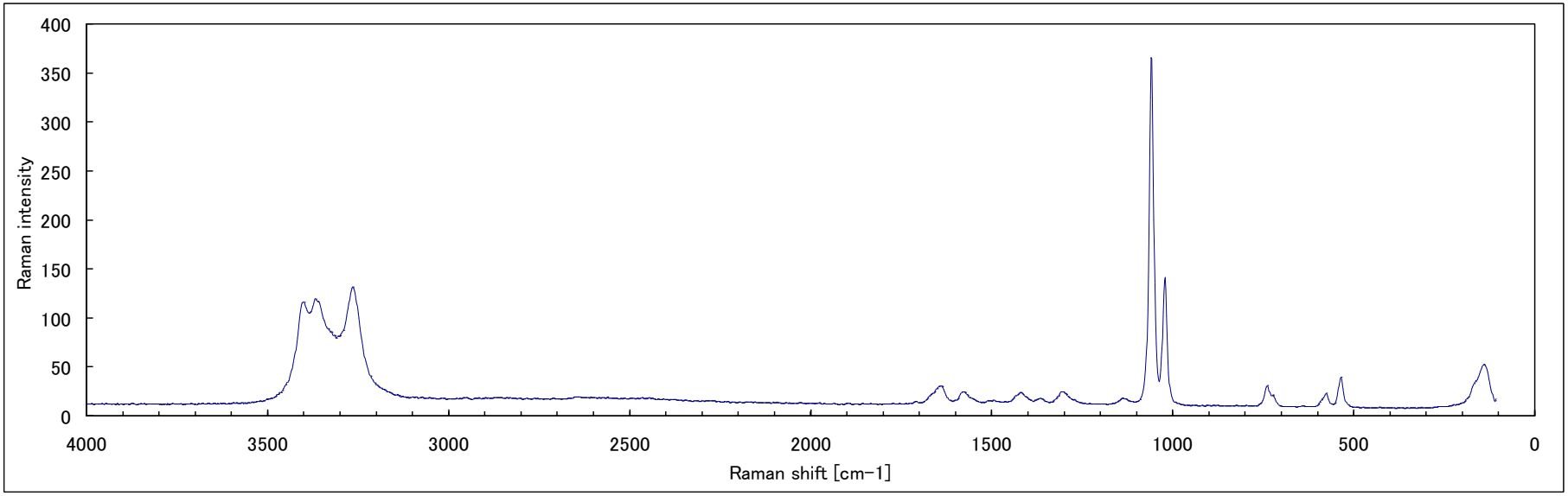
Date	Feb 05 2014
Operator	H.F.
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr



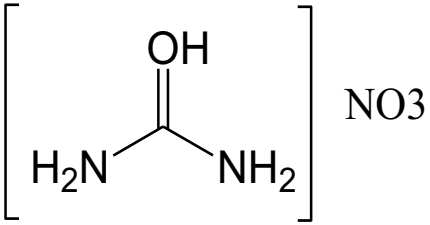
Peak position and Transmittance

534.2	55.9
572.9	48.6
658.6	55.8
718.7	64.0
736.6	63.9
816.6	67.5
901.1	60.3
1018.4	55.7
1051.5	55.8
1312.1	29.5
1384.6	8.1
1571.6	43.0
1678.5	41.2
1706.6	29.9
2894.1	55.4
3413.3	27.7

CH5N3O4 urea nitrate



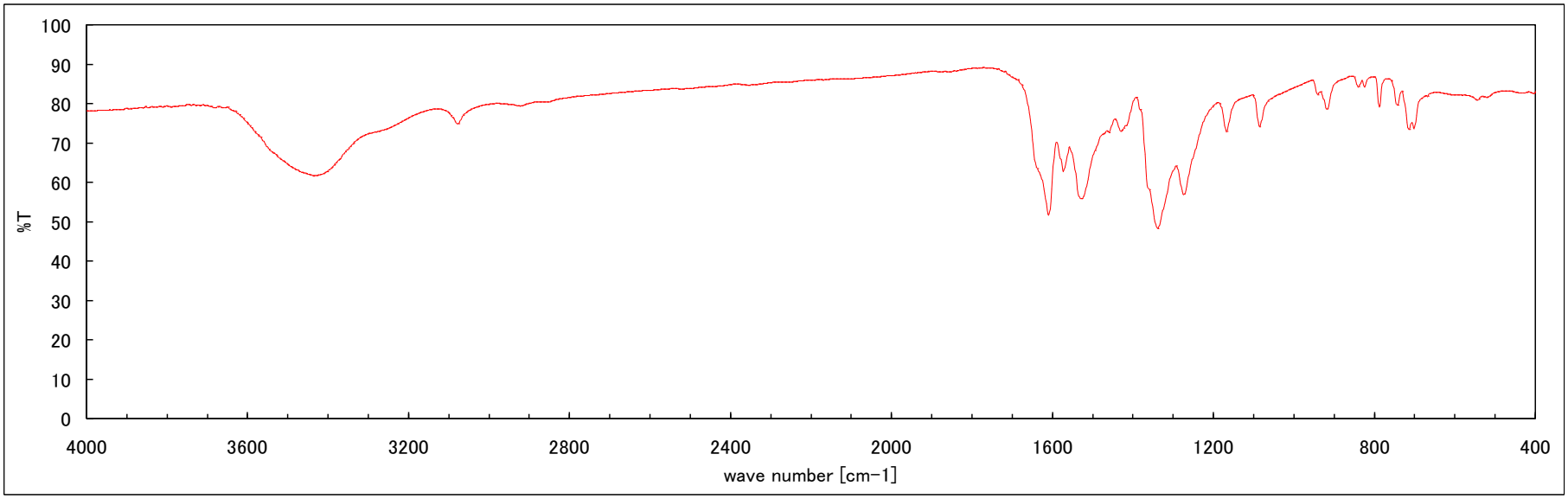
Date	Feb 05 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	532 nm, 25 mW (100%)
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)



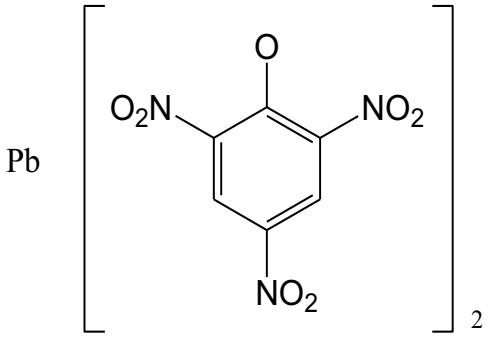
Peak position and Raman intensity

141	48
536	35
577	19
739	26
1022	137
1060	366
1307	20
1421	19
1579	20
1641	26
3265	127
3368	115
3402	112

C12H4N6O14Pb lead picrate



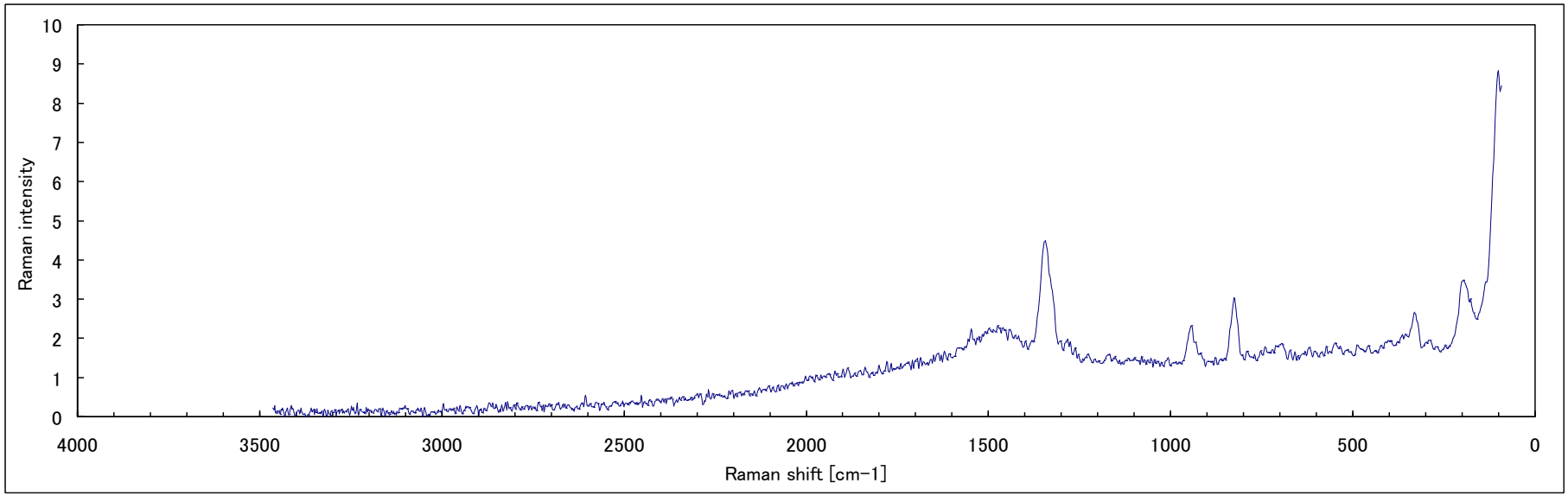
Date	Feb 04 2014
Operator	H.F.
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr



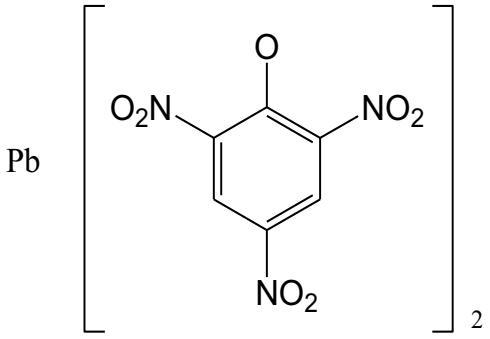
Peak position and Transmittance

545.0	80.9	3078.6	74.9
702.0	73.7		
714.5	73.4		
743.9	79.6		
788.1	79.1		
825.0	84.3		
840.3	84.3		
918.6	78.6		
1086.1	74.2		
1167.9	72.9		
1274.3	56.9		
1339.2	48.3		
1430.8	73.0		
1529.1	55.9		
1573.2	62.7		
1610.1	51.7		

C12H4N6O14Pb lead picrate



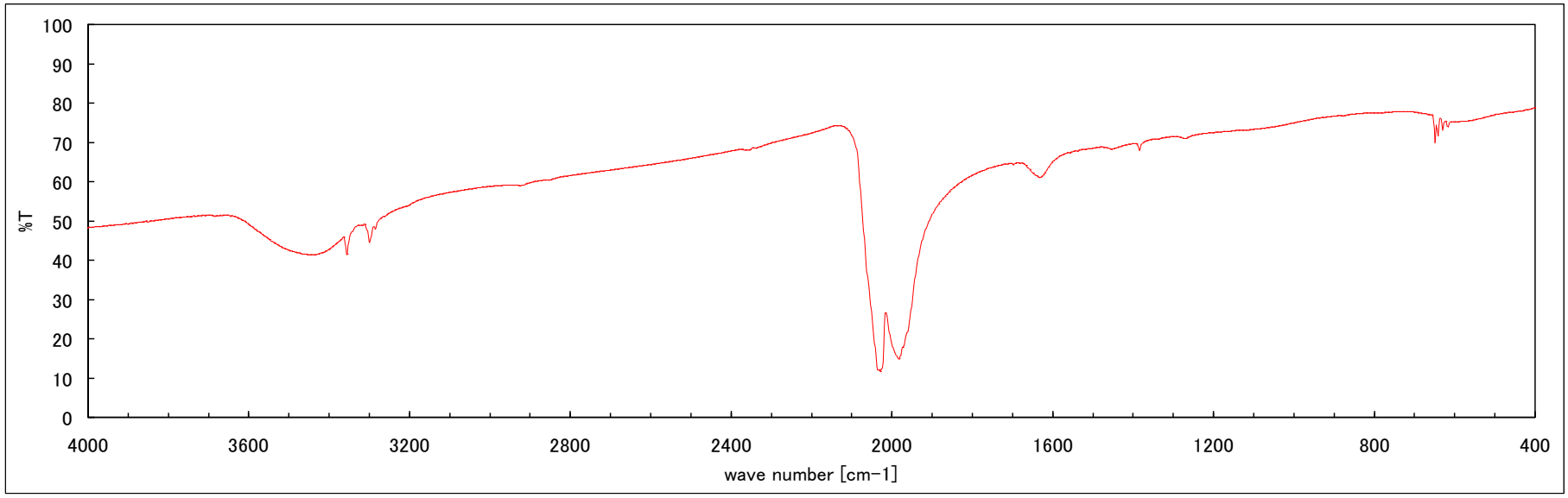
Date	Feb 05 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	780 nm, 50 mW (10%)
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)



Peak position and Raman intensity

197	3.4
331	2.6
826	3.0
943	2.2
1346	4.4
1548	2.1

N3Ag silver azide



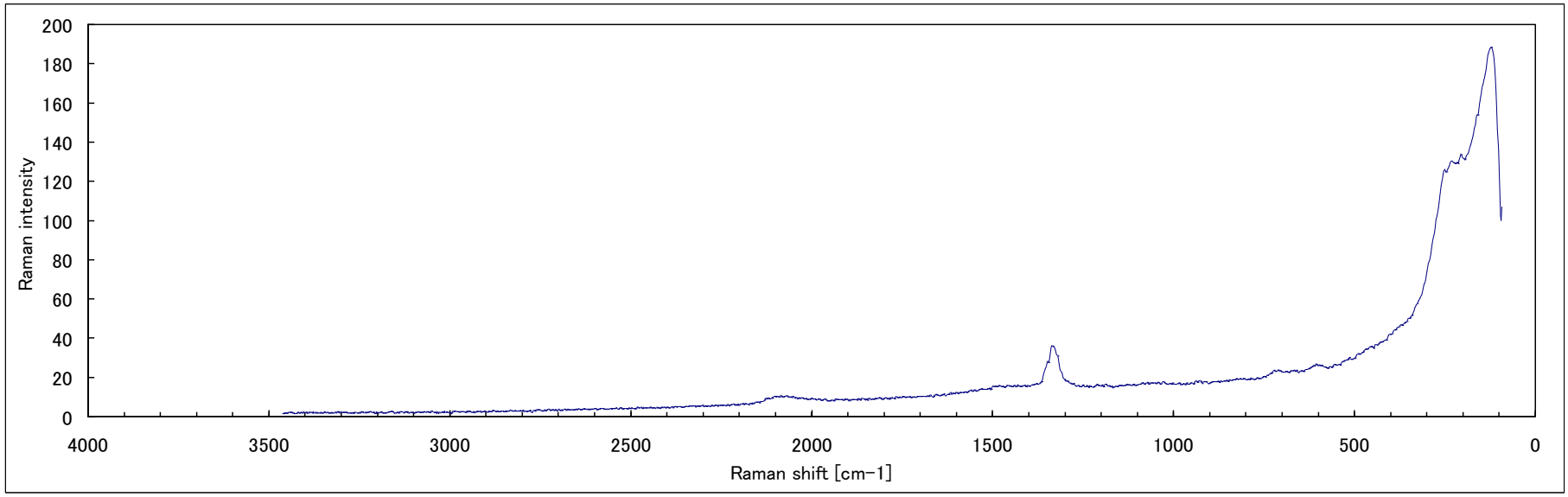
Date	Feb 06 2014
Operator	H.F.
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr

Ag^{+} $[N=N=N]^{-}$

Peak position and Transmittance

649.6	69.8
1983.3	14.9
2029.4	11.7
3299.7	44.6
3356.8	41.3

N3Ag silver azide



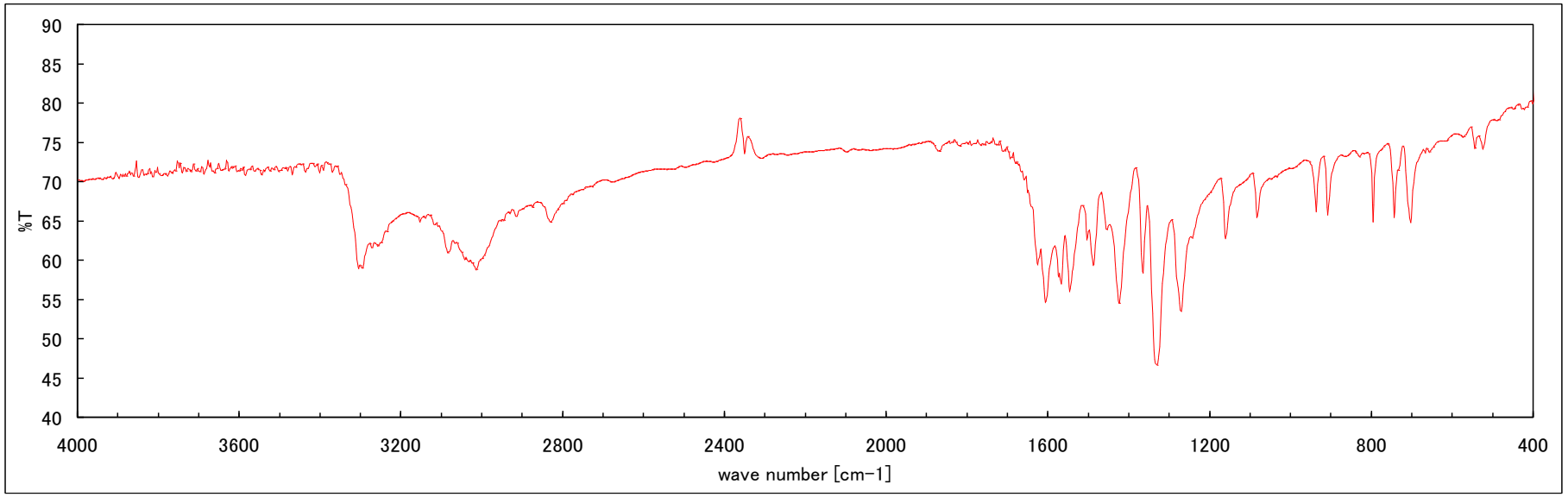
Date	Feb 06 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	780 nm, 50 mW (10%)
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)

Ag^{+} $[N=N=N]^{-}$

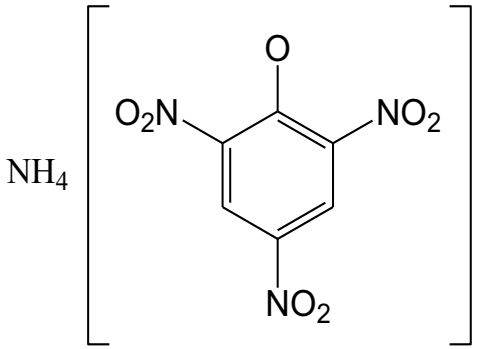
Peak position and Raman intensity

1336	34

C6H6N4O7 ammonium picrate



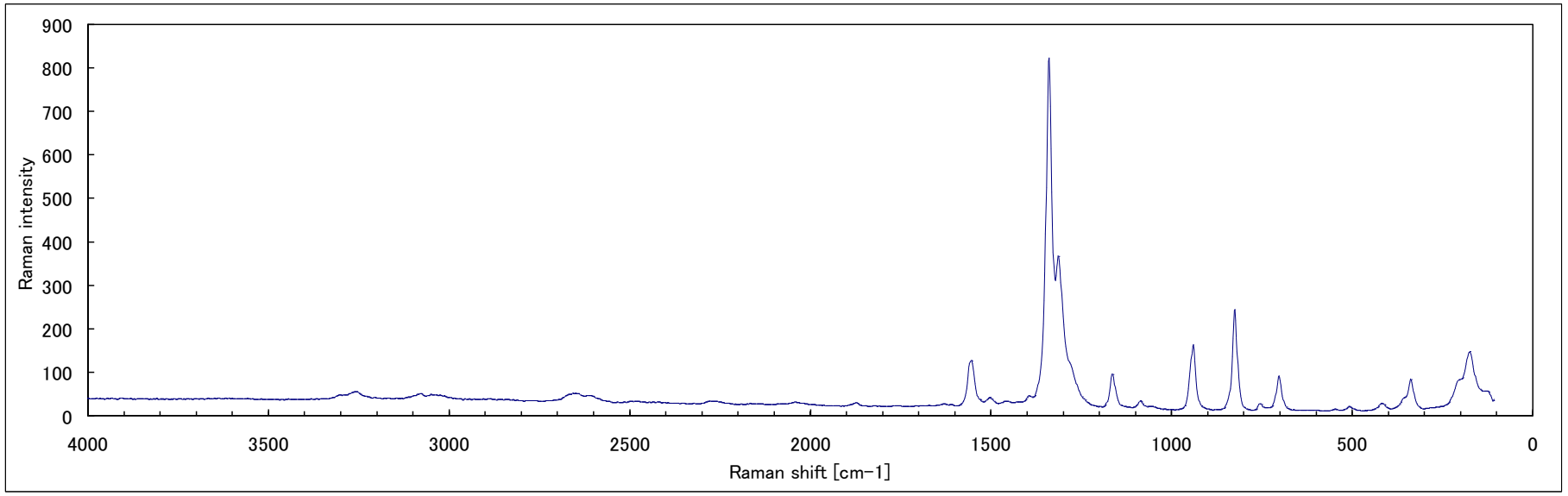
Date	Feb 12 2014
Operator	T.S.
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr



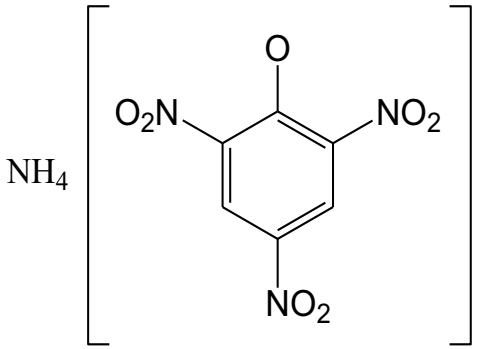
Peak position and Transmittance

524.5	74.2	1605.9	54.6		
545.1	74.1	1626.0	59.4		
703.8	64.8	2830.3	64.9		
744.0	65.4	3014.1	58.7		
796.4	64.9	3084.6	60.9		
908.2	65.8	3305.4	59.0		
937.3	66.2				
1083.0	65.4				
1161.1	62.8				
1271.3	53.5				
1331.4	46.7				
1366.0	58.3				
1424.1	54.4				
1488.2	59.3				
1546.4	56.0				
1567.9	57.0				

C6H6N4O7 ammonium picrate



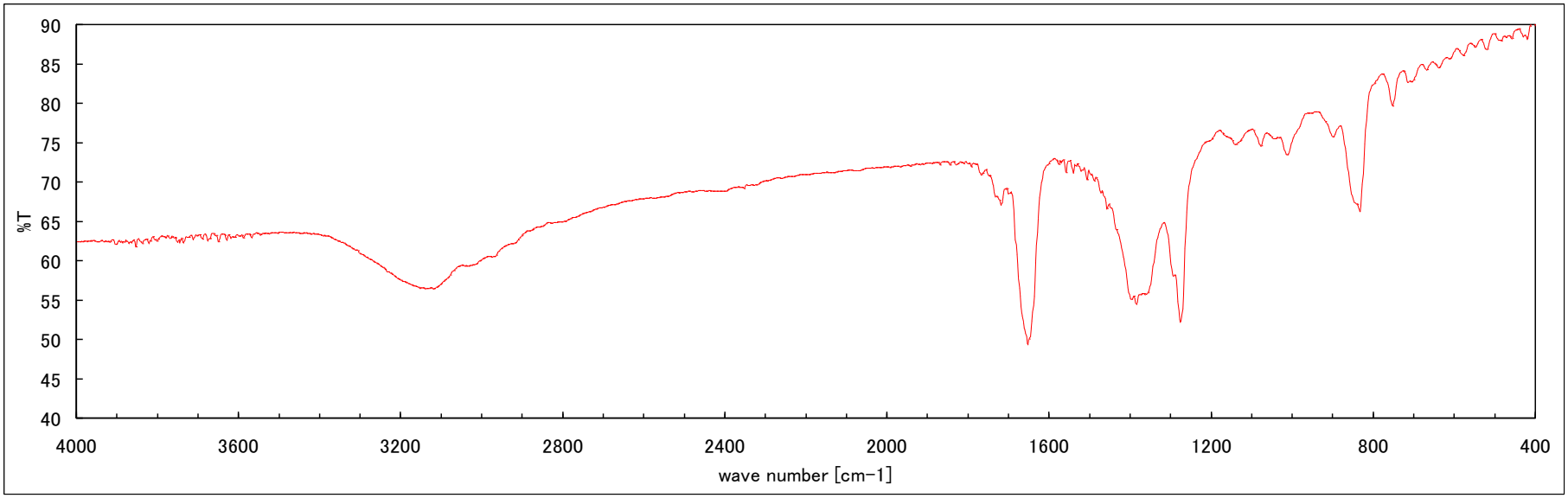
Date	Feb 6 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	532 nm, 25 mW (25%)
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)



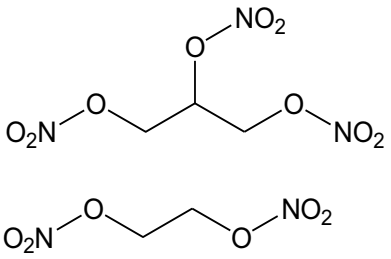
Peak position and Raman intensity

176	143
339	80
419	24
704	87
826	242
941	160
1087	30
1164	92
1314	365
1341	821
1504	38
1556	123
3081	47
3259	51

2gou-ENOKI dynamite

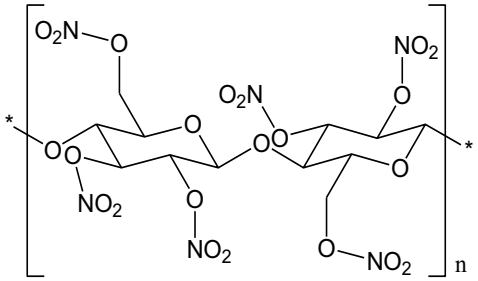


Date	Feb 13 2014
Operator	T.S.
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr



NH_4NO_3

KNO_3

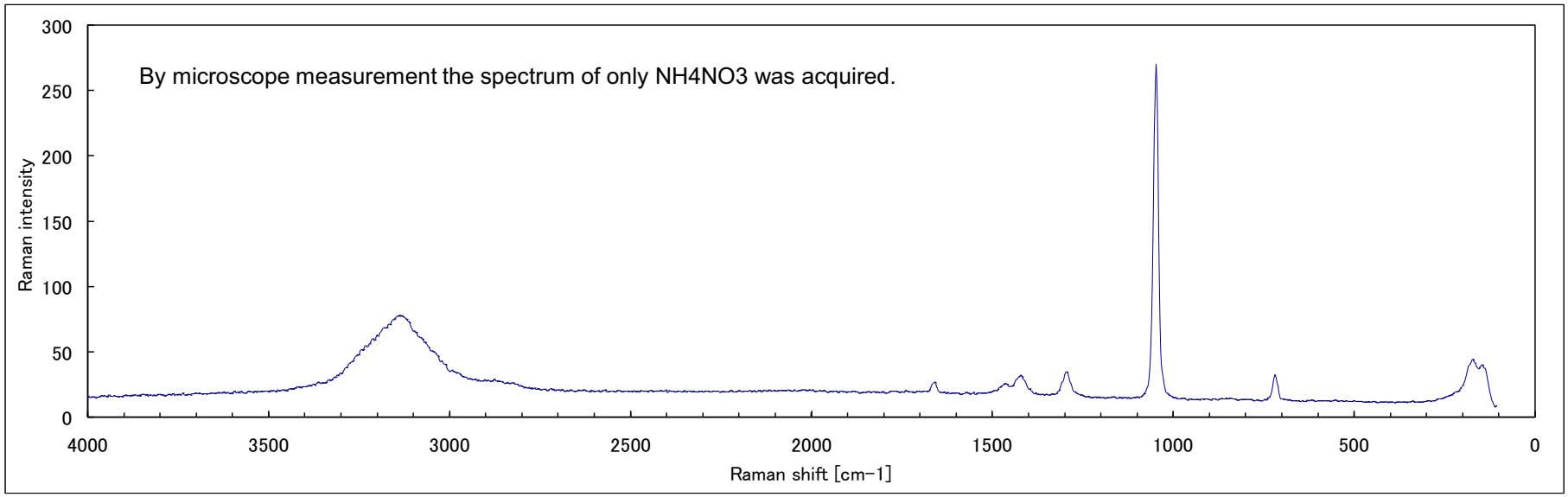


$NaNO_3$

Peak position and Transmittance

753.0	79.7
833.8	66.2
900.1	75.8
1013.0	73.5
1077.9	74.6
1140.0	74.8
1276.4	52.2
1384.9	54.5
1653.2	49.3
1718.2	67.1
3120.1	56.4

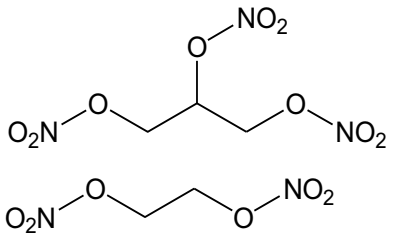
2gou-ENOKI dynamite



Date	Feb 7 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	532 nm, 25 mW
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)

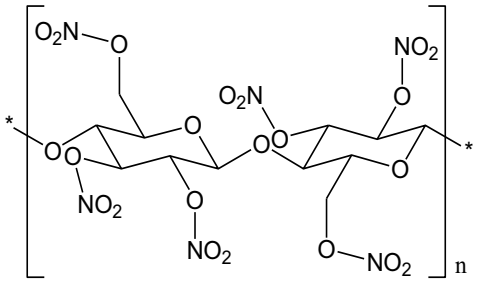
Peak position and Raman intensity

173	44
719	33
1049	270
1296	35
1423	32
1661	27
3140	78



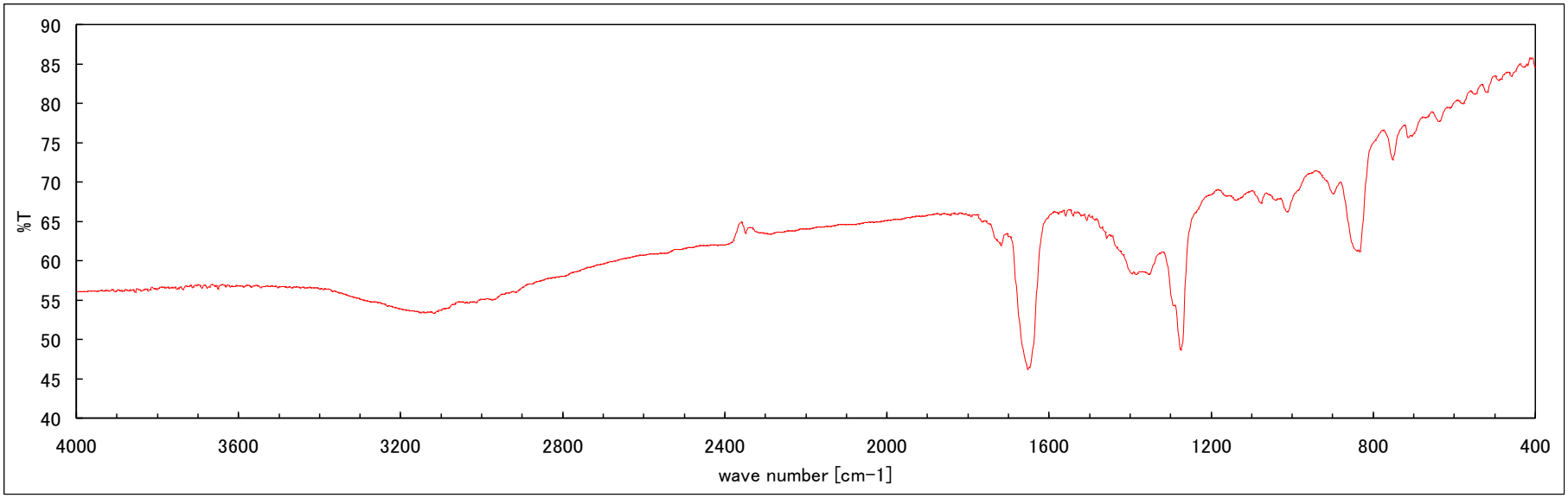
NH_4NO_3

KNO_3

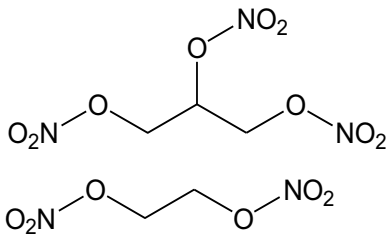


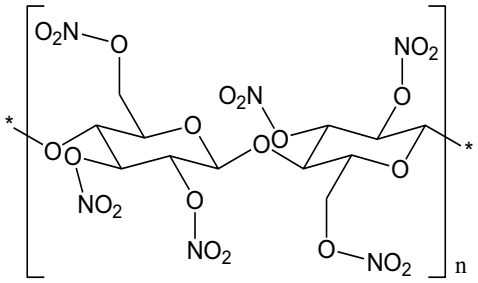
$NaNO_3$

3gou-KIRI dynamite



Date	Feb 13 2014
Operator	T.S.
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr



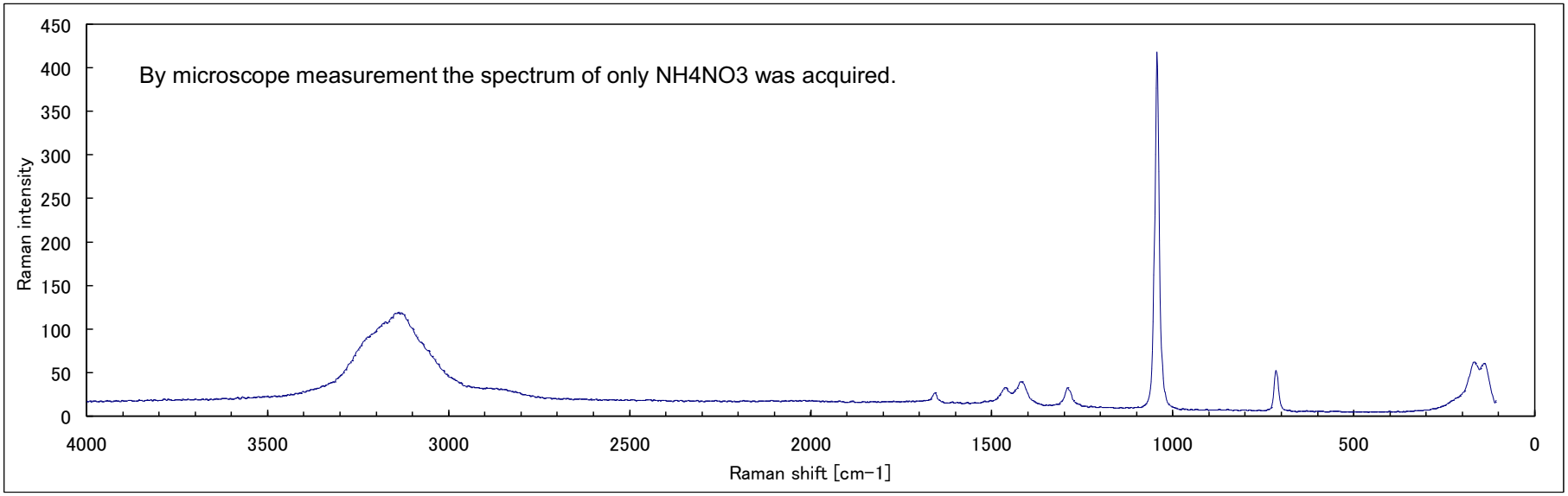


NH_4NO_3

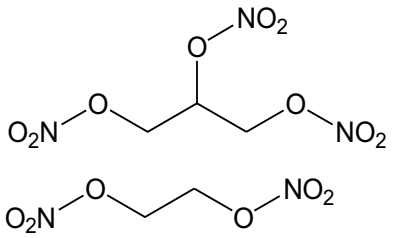
Peak position and Transmittance

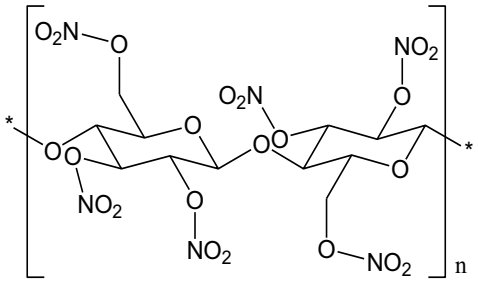
638.6	77.7
714.6	75.7
753.0	72.8
834.4	61.1
900.0	68.5
1013.1	66.2
1078.1	67.3
1139.8	67.7
1275.8	48.7
1385.3	58.3
1653.1	46.2
1718.8	62.0
3119.4	53.3

3gou-KIRI dynamite



Date	Feb 12 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	532 nm, 25 mW (100%)
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)



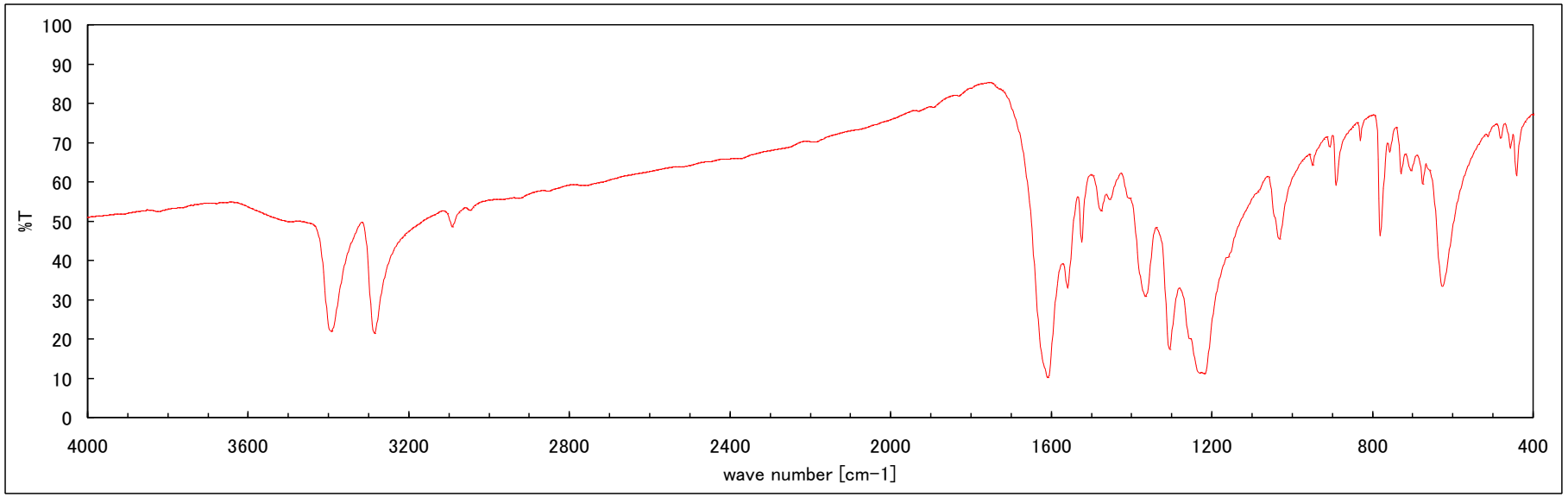


NH_4NO_3

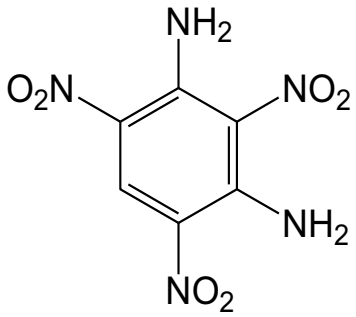
Peak position and Raman intensity

168	62
715	53
1045	420
1291	33
1421	40
1463	33
1658	27
3140	119

C6H5N5O6 1,3-diamino-2,4,6-trinitrobenzene (DATB)



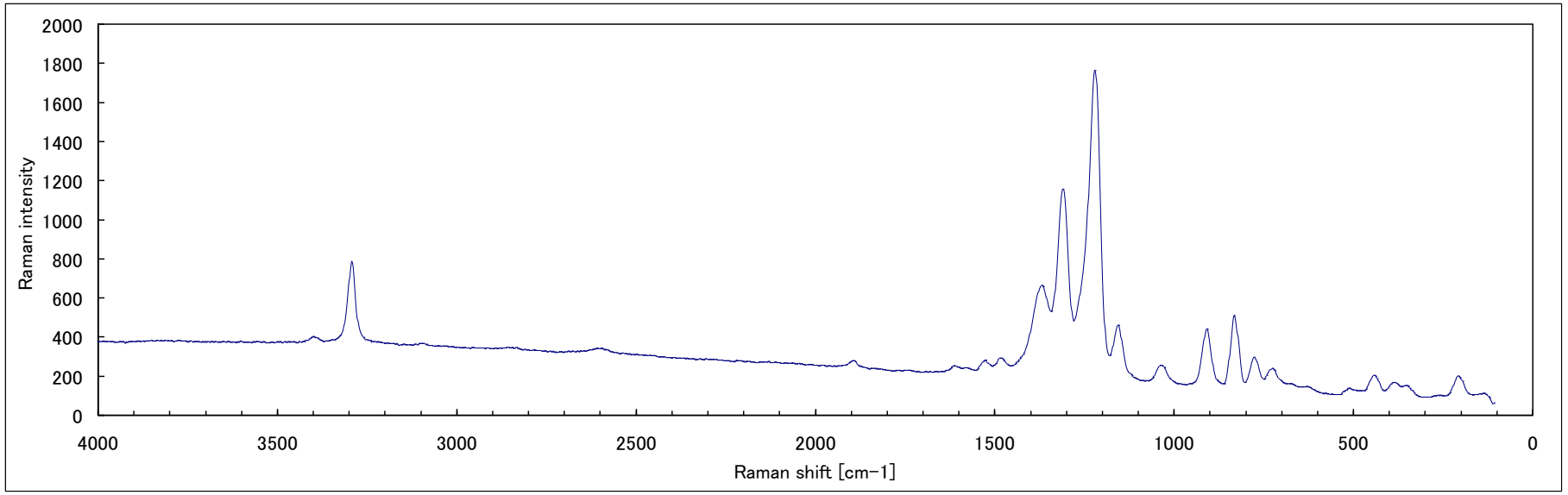
Date	Feb 10 2014
Operator	H.F.
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr



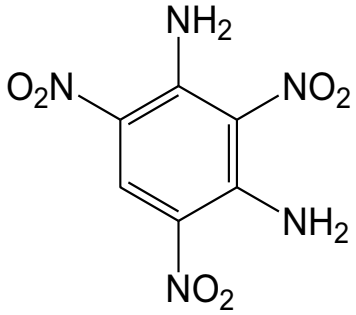
Peak position and Transmittance

442.2	61.6	1365.9	30.9		
457.1	68.6	1476.2	52.6		
481.5	71.1	1525.1	44.7		
626.3	33.5	1560.3	33.0		
675.7	59.4	1609.3	10.1		
704.6	62.8	3092.2	48.6		
729.1	62.2	3286.3	21.4		
757.5	67.6	3393.8	22.0		
781.1	46.3				
831.0	70.5				
891.1	59.2				
907.0	68.8				
950.2	64.2				
1032.7	45.5				
1219.7	11.2				
1306.3	17.3				

C6H5N5O6 1,3-diamino-2,4,6-trinitrobenzene (DATB)



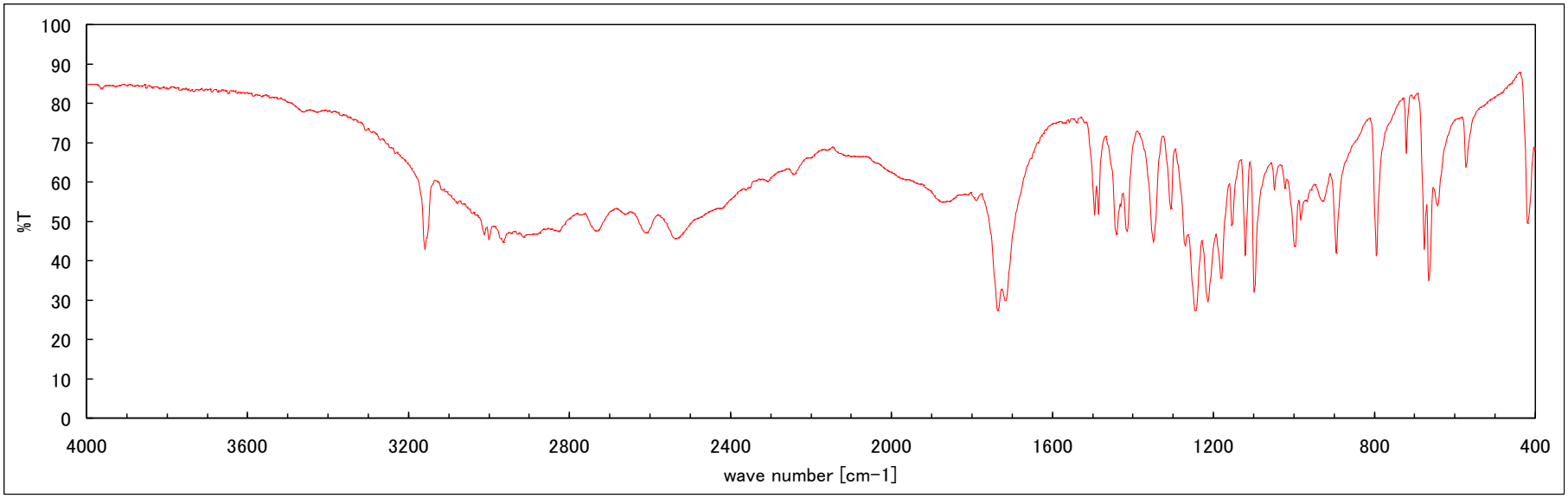
Date	Feb 10 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	532 nm, 25 mW (10%)
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)



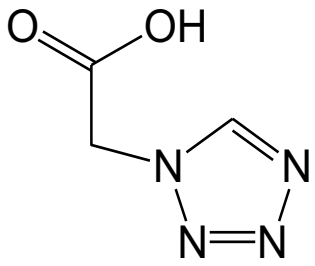
Peak position and Raman intensity

209	204
388	170
444	207
728	241
777	299
833	512
910	444
1037	259
1157	465
1221	1769
1310	1160
1370	665
1483	294
3293	790

C3H4N4O2　1H-tetrazole-1-acetic acid



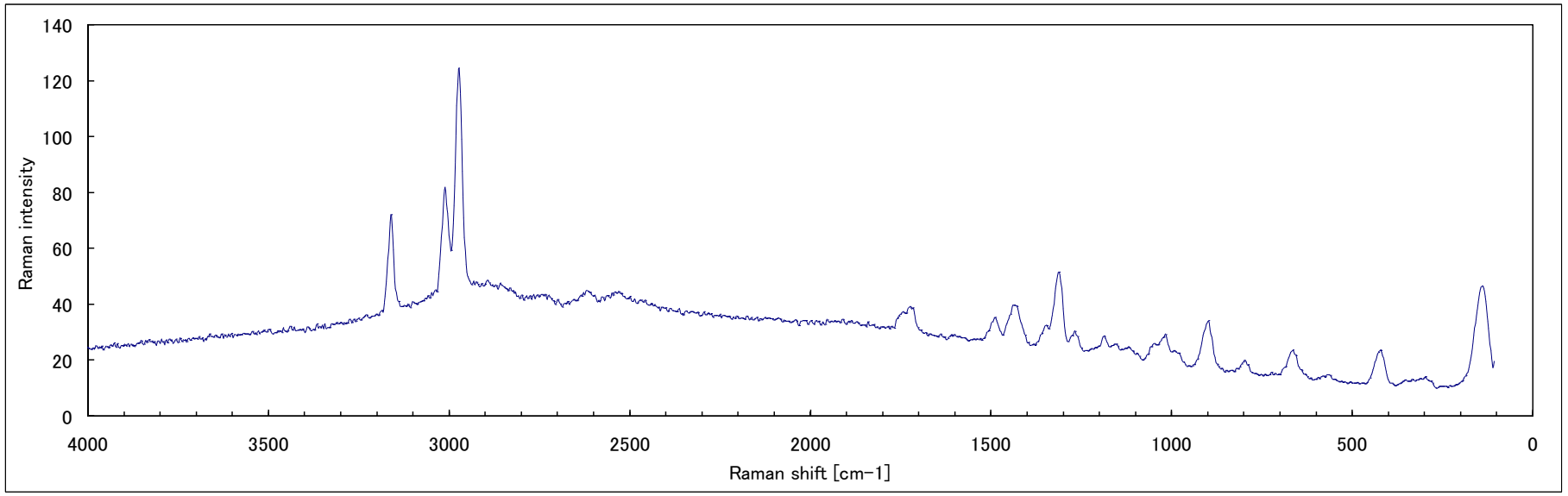
Date	Feb 12 2014
Operator	T.S.
Equipment	Spectrum GX (Perkin Elmer)
Resolutoin	4.00 cm-1
Sample	solid powder
Method	KBr



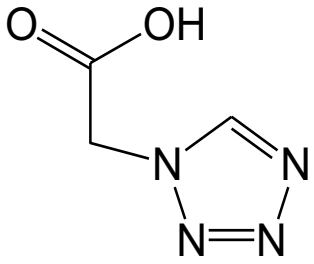
Peak position and Transmittance

419.5	49.1	1181.2	35.1	2965.0	44.6
572.5	63.7	1214.6	29.6	3000.5	45.3
643.8	54.0	1245.3	27.3	3160.2	42.7
664.7	34.8	1270.9	43.7		
676.6	42.8	1306.7	52.9		
721.5	67.2	1349.6	44.7		
795.7	40.7	1415.5	47.6		
895.7	41.5	1441.7	46.5		
929.9	55.1	1486.5	51.9		
983.2	50.4	1496.3	51.7		
997.9	43.4	1717.0	29.8		
1023.2	58.1	1736.3	27.3		
1049.1	58.0	1876.1	54.9		
1098.7	31.8	2536.9	45.7		
1121.5	40.6	2609.3	47.1		
1154.4	48.5	2734.6	47.6		

C3H4N4O2　1H-tetrazole-1-acetic acid



Date	Feb 12 2014
Operator	H.F.
Equipment	ALMEGA (Thermo Fisher SCIENTIFIC)
Laser	532 nm, 25 mW (100%)
Resolutoin	6.5 – 10.5 cm-1
Sample	solid powder
Method	micro (x50)



Peak position and Raman intensity

141	46
422	24
665	24
798	20
899	34
1017	30
1188	29
1313	52
1438	40
1490	35
1726	39
2620	45
2974	125
3012	82
3162	73