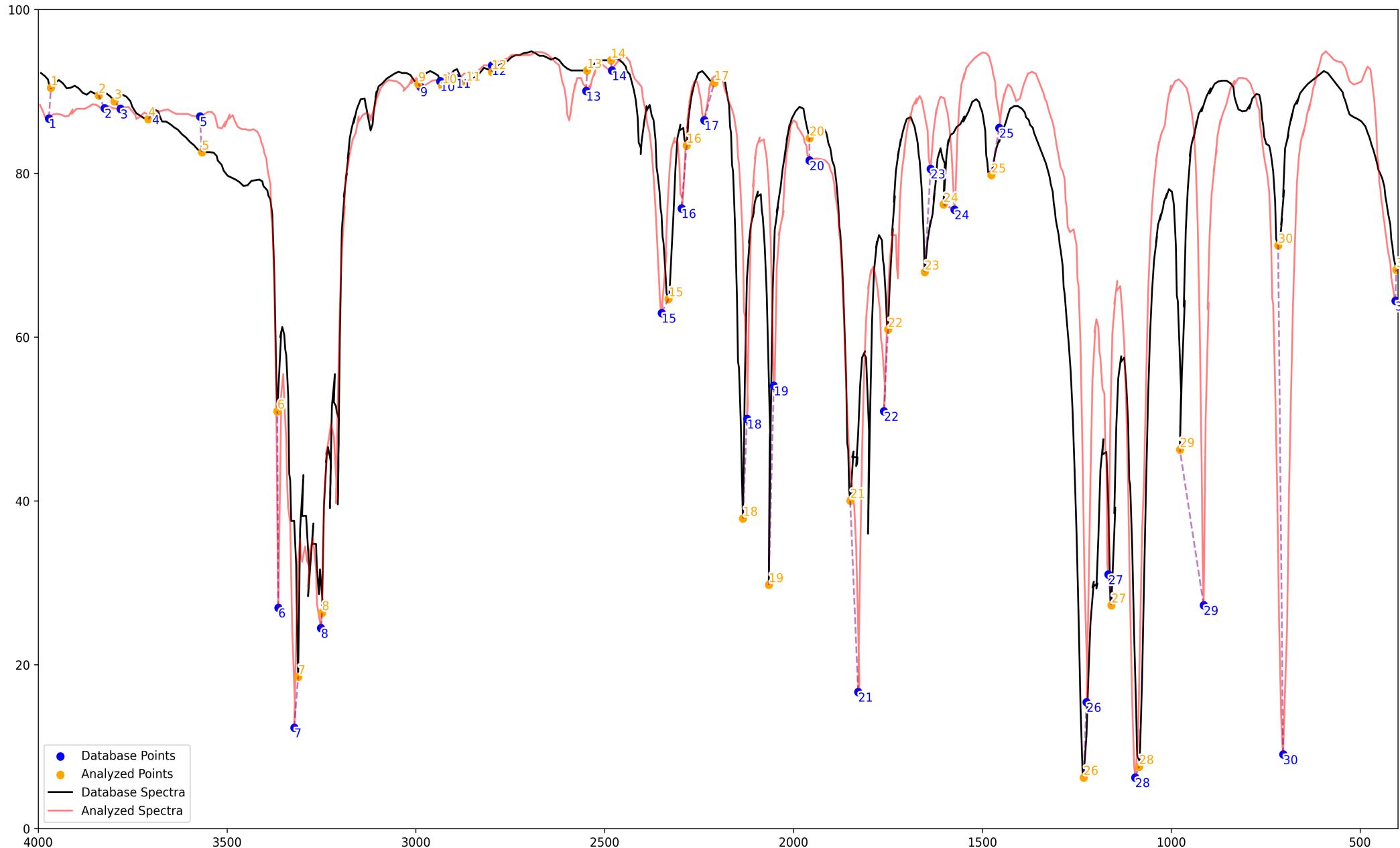


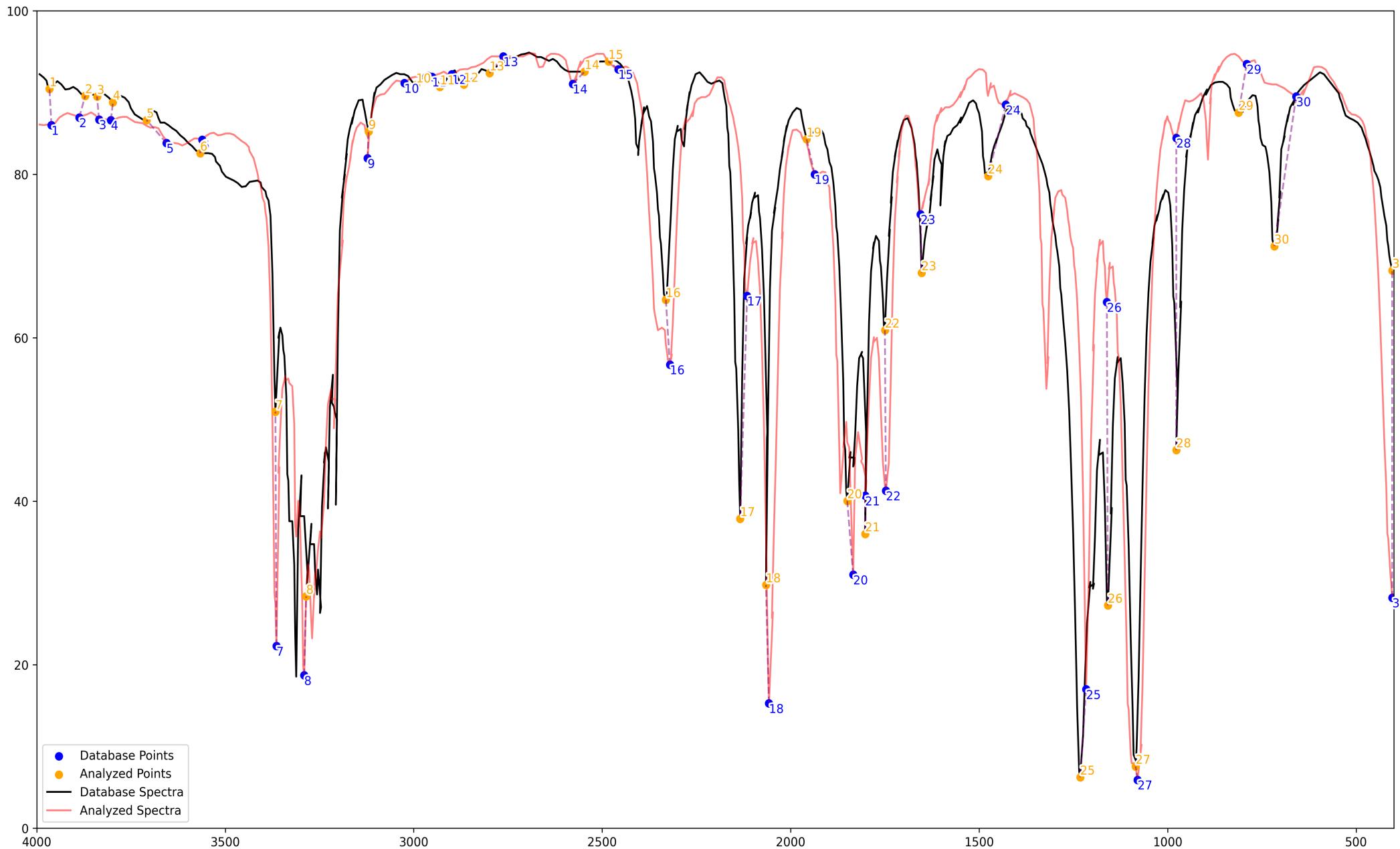
1. Cis-1,3-pentadiene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3971.42	86.70	3966.16	90.44
2	3824.21	87.95	3839.98	89.50
3	3782.15	87.87	3797.92	88.80
4	3698.03	87.17	3708.54	86.62
5	3571.85	86.93	3566.59	82.57
6	3364.17	26.95	3366.80	50.94
7	3322.11	12.30	3311.60	18.53
8	3251.14	24.46	3248.51	26.32
9	2988.26	90.59	2993.52	90.91
10	2935.69	91.22	2930.43	90.67
11	2893.63	91.61	2867.34	90.98
12	2798.99	93.16	2798.99	92.39
13	2549.26	90.05	2546.63	92.54
14	2480.91	92.54	2483.54	93.79
15	2349.47	62.94	2331.07	64.65
16	2296.90	75.71	2282.88	83.40
17	2236.44	86.46	2210.15	91.06
18	2123.40	50.01	2133.91	37.85
19	2052.42	54.06	2065.57	29.75

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1957.79	81.56	1957.79	84.28
21	1828.98	16.67	1850.01	40.04
22	1760.63	50.94	1750.11	60.91
23	1637.08	80.54	1652.85	67.92
24	1573.99	75.56	1602.90	76.18
25	1455.69	85.53	1476.72	79.77
26	1224.36	15.42	1232.25	6.23
27	1166.53	31.00	1158.64	27.26
28	1095.55	6.23	1085.04	7.55
29	914.17	27.26	977.26	46.27
30	703.87	9.03	717.01	71.20
31	406.82	64.42	404.19	68.24

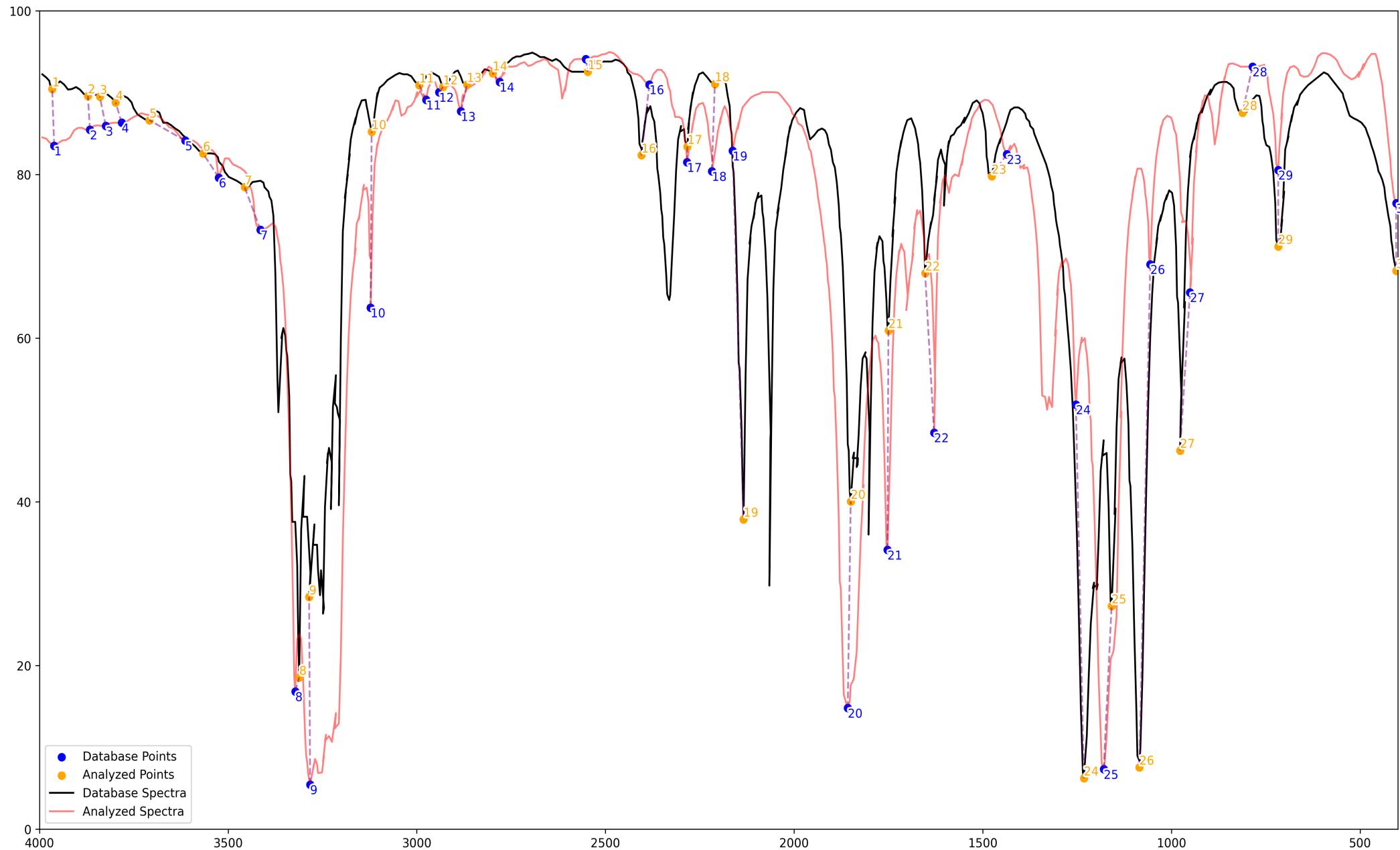
2. Isoprene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3960.90	86.00	3966.16	90.44
2	3887.30	86.93	3871.53	89.58
3	3834.72	86.70	3839.98	89.50
4	3803.18	86.62	3797.92	88.80
5	3655.97	83.82	3708.54	86.62
6	3561.33	84.21	3566.59	82.57
7	3364.17	22.27	3366.80	50.94
8	3290.57	18.69	3285.31	28.35
9	3122.33	81.95	3119.70	85.22
10	3025.06	91.14	2993.52	90.91
11	2951.46	91.92	2930.43	90.67
12	2898.88	92.23	2867.34	90.98
13	2762.19	94.41	2798.99	92.39
14	2578.17	91.06	2546.63	92.54
15	2457.25	92.85	2483.54	93.79
16	2320.56	56.71	2331.07	64.65
17	2115.51	65.12	2133.91	37.85
18	2057.68	15.26	2065.57	29.75
19	1936.76	80.00	1957.79	84.28

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1834.24	31.00	1850.01	40.04
21	1802.69	40.66	1802.69	35.98
22	1747.49	41.28	1750.11	60.91
23	1655.48	75.09	1652.85	67.92
24	1429.41	88.49	1476.72	79.77
25	1216.48	16.98	1232.25	6.23
26	1161.27	64.34	1158.64	27.26
27	1079.78	5.91	1085.04	7.55
28	977.26	84.44	977.26	46.27
29	790.62	93.48	811.65	87.56
30	659.18	89.50	717.01	71.20
31	404.19	28.19	404.19	68.24

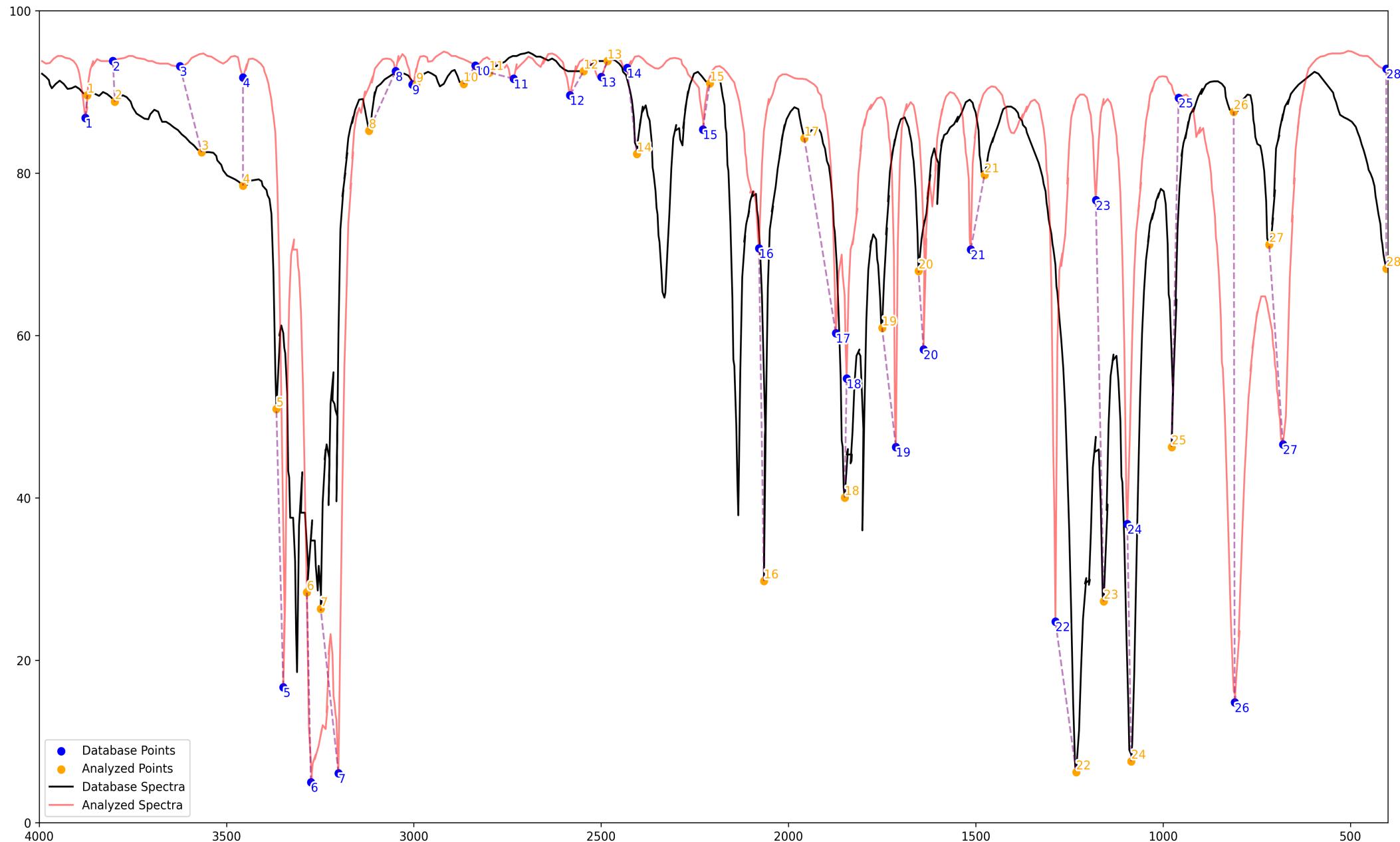
3. Trans-2-pentene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3960.90	83.50	3966.16	90.44
2	3866.27	85.45	3871.53	89.58
3	3824.21	85.92	3839.98	89.50
4	3782.15	86.31	3797.92	88.80
5	3613.91	84.13	3708.54	86.62
6	3524.53	79.61	3566.59	82.57
7	3414.12	73.22	3456.18	78.44
8	3322.11	16.82	3311.60	18.53
9	3282.68	5.45	3285.31	28.35
10	3122.33	63.72	3119.70	85.22
11	2975.12	89.11	2993.52	90.91
12	2940.94	90.05	2930.43	90.67
13	2883.11	87.71	2867.34	90.98
14	2780.59	91.29	2798.99	92.39
15	2551.89	94.10	2546.63	92.54
16	2383.65	90.98	2404.68	82.34
17	2283.75	81.48	2282.88	83.40
18	2218.03	80.39	2210.15	91.06
19	2162.83	82.88	2133.91	37.85

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1857.89	14.80	1850.01	40.04
21	1752.74	34.12	1750.11	60.91
22	1629.19	48.45	1652.85	67.92
23	1436.42	82.47	1476.72	79.77
24	1253.28	51.88	1232.25	6.23
25	1179.67	7.32	1158.64	27.26
26	1056.12	69.01	1085.04	7.55
27	950.97	65.59	977.26	46.27
28	785.36	93.16	811.65	87.56
29	717.01	80.54	717.01	71.20
30	404.19	76.49	404.19	68.24

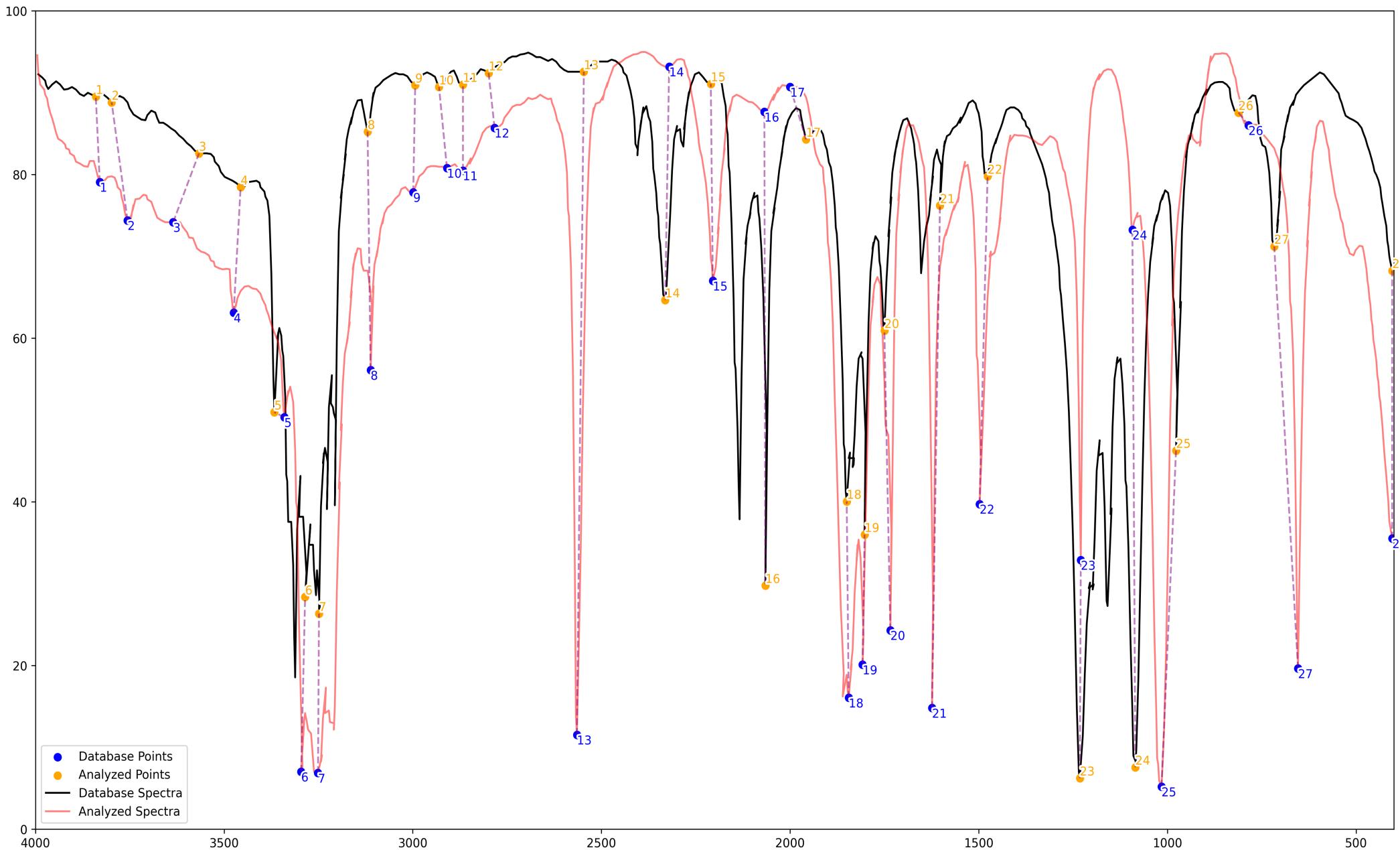
4. Cyclopentene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3876.78	86.78	3871.53	89.58
2	3803.18	93.79	3797.92	88.80
3	3624.42	93.16	3566.59	82.57
4	3456.18	91.76	3456.18	78.44
5	3348.40	16.67	3366.80	50.94
6	3274.80	4.98	3285.31	28.35
7	3201.19	6.07	3248.51	26.32
8	3048.72	92.54	3119.70	85.22
9	3004.03	90.91	2993.52	90.91
10	2835.79	93.24	2867.34	90.98
11	2733.27	91.61	2798.99	92.39
12	2583.43	89.58	2546.63	92.54
13	2499.31	91.84	2483.54	93.79
14	2430.96	92.93	2404.68	82.34
15	2228.55	85.37	2210.15	91.06
16	2078.71	70.73	2065.57	29.75
17	1873.67	60.29	1957.79	84.28
18	1844.75	54.68	1850.01	40.04
19	1713.31	46.27	1750.11	60.91

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1639.71	58.26	1652.85	67.92
21	1513.53	70.57	1476.72	79.77
22	1287.45	24.77	1232.25	6.23
23	1179.67	76.65	1158.64	27.26
24	1095.55	36.76	1085.04	7.55
25	958.86	89.27	977.26	46.27
26	809.02	14.80	811.65	87.56
27	680.21	46.58	717.01	71.20
28	404.19	92.85	404.19	68.24

5. 3-methyl-1,2-butadiene



Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
1	3829.47	79.06	3839.98	89.50
2	3755.86	74.39	3797.92	88.80
3	3634.94	74.16	3566.59	82.57
4	3474.58	63.09	3456.18	78.44
5	3340.52	50.32	3366.80	50.94
6	3295.83	7.01	3285.31	28.35
7	3251.14	6.85	3248.51	26.32
8	3111.81	56.08	3119.70	85.22
9	2998.78	77.82	2993.52	90.91
10	2909.40	80.78	2930.43	90.67
11	2867.34	80.47	2867.34	90.98
12	2783.22	85.69	2798.99	92.39
13	2565.03	11.52	2546.63	92.54
14	2320.56	93.16	2331.07	64.65
15	2204.89	66.99	2210.15	91.06
16	2068.20	87.63	2065.57	29.75
17	1999.85	90.67	1957.79	84.28
18	1844.75	16.04	1850.01	40.04
19	1807.95	20.09	1802.69	35.98

Id	Database	Database	Analyzed	Analyzed
	Wavelength (cm ⁻¹)	Intensity	Wavelength (cm ⁻¹)	Intensity
20	1734.34	24.30	1750.11	60.91
21	1623.93	14.80	1602.90	76.18
22	1497.75	39.72	1476.72	79.77
23	1229.62	32.87	1232.25	6.23
24	1092.92	73.22	1085.04	7.55
25	1015.81	5.19	977.26	46.27
26	785.36	86.00	811.65	87.56
27	653.92	19.63	717.01	71.20
28	404.19	35.52	404.19	68.24