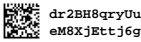
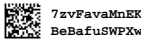


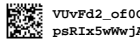
Metadelirioit CaSrV_2O_6 (OH)₂, **Periklas**, **Hydroxycalciorom it**, **Bismutit** - Babaryk VHMS Vorkommen, Verkhneursky, Rajon, Tscheljabinsk, Ural, F derationskreis, RU



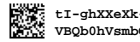
Florenцит-(Ce) CeAl_3 (PO₄)₂ (OH)₆, **Thometze-schynit**, **Attikait**, **Tantalae-schynit-(Ce)** - Kiesgrube Grafenricht, Grafenricht, Ortsteil, Stulln, Schwandorf, Oberpfalz, Bayern, DE



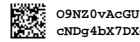
Graphit C, **Sborgit**, **Senkevichit**, **Vranait** - Kantishna, Denali Borough, Alaska, US



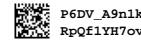
Meifuit KFe_6 (Si₇Al)₉O₁₉ (OH)₄Cl₂, **Rhodarsenid**, **Biktait**, **Aluminocoquim-bit** - Namentenga, Centre-Nord, BF



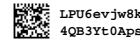
Nestolait $\text{CaSeO}_3 \cdot \text{H}_2\text{O}$, **Ebnerit**, **Paulhlavait**, **Griphit** - Zentralrussland, RU



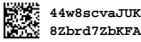
Mckelveyit-(Nd) $\text{NaCaBa}_3\text{Nd}(\text{CO}_3)_6 \cdot 3\text{H}_2\text{O}$, **Usturit**, **Sinnerit**, **Hydroromarচিত** - Phong Tho, Lai Chau, VN



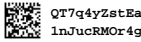
Vavritit Ni_2SbTe_2 , **Cornwallit**, **Haylesdiit**, **Lyonsit** - Steinsalz-Diapir, Kalafgan, Talqan, Namak Ab, Takhar, AF



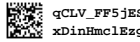
Cesiokoenopryochlor $\square\text{Nb}_2(\text{O},\text{OH})_4\text{Cs}_{1-2}$ (x = 0-20), **Bojarit**, **Chihuahuit**, **Uroxit** - \times Atomic King, San Juan, Utah, US



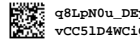
Mottramit $\text{PbCu}_2(\text{VO}_4)(\text{OH})$, **Roaldit**, **Penikisit**, **Meta-Aluminit** - Matthias Fundgrube, Grube Einigkeit, Brand-Erbisdorf, Freiberg, Mittelsachsen, Sachsen, DE



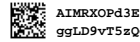
Addibischoffit $\text{Ca}_2\text{Al}_6\text{Al}_6\text{O}_{24}$, **Safflorit**, **Klinometaborit**, **Hydroxycalciumkrolith** - Heimatmuseum Immdingen, Immdingen, Tuttingen, Freiburg, Baden-W rttemberg, DE



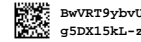
Gagarinit-(Ce) NaCaCeFe_6 , **Chlormeyerit**, **Grimseil**, **Bannisterit** - Reinpolz, Gro diedtmanns, Marktgemeinde, Gm nd, Nieder sterreich, AT



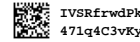
Gageit $\text{Mn}^{2+}_{21}\text{Si}_2\text{O}_{27}$ (OH)₂₀, **Klinobehoit**, **Meitnerit**, **Ferri-Ghoseit** - Zhuangqiao, Lujiang, Hefei, Pr fektur, Anhui, CN



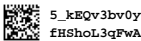
Tooeleit $\text{Fe}_6(\text{AsO}_4)_3\text{SO}_4$ (OH)₄·4H₂O, **Downeyit**, **Sclearit**, **Gallobeudantit** - Fontasante, Tanneron, Draguignan, Arrondissement, Var, Provence-Alpes-C te d'Azur, R gion, FR



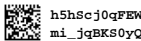
Hoperanchit $(\text{NH}_4)_2\text{B}_3\text{Cl}_2(\text{S}_2\text{O}_3)_2$, **Kayrobertsonit**, **To-kyoait**, **For rait** - Ambezira, Antanimora, Ambvombe, Androy, MG



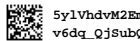
Cookeit $\text{LiAl}_4(\text{Si}_3\text{Al})\text{O}_{10}$ (OH)₈, **Skogbyit**, **Scandibabingtonit**, **Peter-sit-(La)** - Polling, Weilheim-Schongau, Oberbayern, Bayern, DE



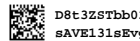
Manganarsit $\text{Mn}_3^{2+}\text{As}_2^{3+}\text{O}_4(\text{OH})_4$, **Lovozerit**, **Ko-lymit**, **Tetrawikmanit** - Dzhaparidze, Zaporozhska-ya, UA



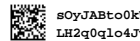
Hydroniumpharmakoolumit $(\text{H}_3\text{O})\text{Al}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 4.5\text{H}_2\text{O}$, **Magne-siostaurolith**, **Hedleyit**, **Tiettait** - Saint Clair, Schuylkill, Pennsylvania, US



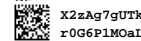
Canosioit $\text{Ba}_2\text{Fe}^{3+}(\text{AsO}_4)_2(\text{OH})$, **Juansilvait**, **Rud-schavskiyit**, **Roxbyit** - Long, Luang Namtha, LA



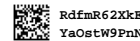
Glaukochroit CaMnSiO_4 , **Cascandit**, **Hermannjahnit**, **Mariins-kit** - Trechtingshausen, Mainz-Bingen, Rheinland-Pfalz, DE



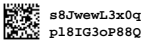
Smolyaninovit $\text{Co}_3\text{Fe}^{3+}(\text{AsO}_4)_4 \cdot 11\text{H}_2\text{O}$, **Plumbophyllit**, **Bali zu-ni it**, **Slavkit** - \times Brenden, Brenden, Uhlingen-Birkendorf, Waldshut, Freiburg, Baden-W rttemberg, DF



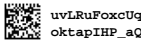
Argesit $(\text{NH}_4)_2\text{B}_3\text{Cl}_2$, **Scawtit**, **Hydroxyl-basit nait-(La)**, **Wyche-profit** - Tumbler, Soglio, Bregaglia, Maloja, Graub nden, CH



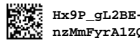
Beryllonit NaBePO_4 , **Jimthompsonit**, **Lueshit**, **Vakhrushevait** - Thalberggraben, Traunstein-stadt, Traunstein, Oberbayern, Bayern, DE



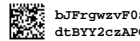
Uchucchacuai $\text{AgPb}_3\text{MnSb}_5\text{S}_{12}$, **Evseevit**, **So-bolevit**, **Twinnit** - Kohlegrube, Krickerhau, Priediv-z, Okres, Tren n kraj, SK



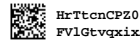
Aldomarinovit $\text{Sr}_2\text{Mn}^{3+}(\text{AsO}_4)_2(\text{OH})$, **Kinchilit**, **Vitianiemit**, **Bario-Og-tojoquinuit** - Chiggiorna, Faido, Leventina, Tessin, CH



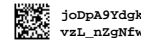
Gazeveit $\text{BaCa}_6(\text{SiO}_4)_2(\text{SO}_4)_2\text{O}$, **Gordait**, **Fichte-lit**, **Chabourn it** - Zircon Point Pegmatit, Khmarabucht, Caseybucht, Enderbyland, Ostantarktis, AQ



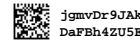
Thorianit ThO_2 , **Hydro-redmondit**, **Monetit**, **So-bolevskit** - Obr zek I, Pisek, Stadt, Pisek, Okres, Ji-ho esk y kraj, CZ



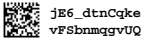
Ichnusait $\text{Th}(\text{MoO}_4)_2 \cdot 3\text{H}_2\text{O}$, **Liguowuit**, **Hey-rovskiyit**, **Laumontit** - Zlotoryja, Zlotoryjski, Powiat, Dolno skie, Woiwodschaft, PL



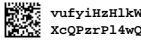
Paraershovit $\text{Na}_3\text{K}_3\text{Fe}^{3+}_2\text{Si}_6\text{O}_{20}(\text{OH})_4 \cdot 4\text{H}_2\text{O}$, **Veenit**, **Amableit-(Ce)**, **Konyait** - Theisbergste-gen, Kusel-Altenglan, Kusel, Rheinland-Pfalz, DE



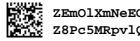
Hyr lit $\text{Pb}_9\text{As}_{10}\text{Sb}_2\text{S}_{32}$, **Labuntsov-Mn**, **Boralsi-lit**, **Carnotit** - Inzlingen, L rrach, Freiburg, Baden-W rttemberg, DE



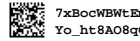
St fflerit $\text{CaAl}_2\text{Si}_2\text{O}_9$, **Lovdairit**, **Tilasit**, **Lavins-kyit-1M** - Ypseni, Laros, Stadtbezirk, Lindosbezirk, Rhodos, Insel, S dliche Ag- is, GR



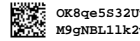
Fluorarrojadit-(Ba-Fe) $\text{BaFe}^{2+}\text{Na}_2\text{Ca}$ (Fe²⁺, Mn, Mg)₁₃Al (PO₄)₁₁ (PO₃OH) (F, OH)₂, **Chongit**, **Carletonmooreit**, **Ferro-Ferri-Pedrizit** - East Utah Shaft, Wasatch, Utah, US



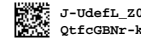
Creaseyit $\text{Pb}_2\text{Cu}_2\text{Fe}_2^{3+}\text{Si}_2\text{O}_{17} \cdot 6\text{H}_2\text{O}$, **Shiroks-hinit**, **Goldmanit**, **Rhod-plumsit** - Rosario-Bunawan, Agusan del Sur, Caraga, Mindanao, PH



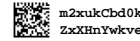
Ferroericssonit $\text{BaFe}^{2+}_2\text{Fe}^{3+}\text{O}(\text{Si}_2\text{O}_7)(\text{OH})$, **Aphthitalit**, **Liddicoatit**, **Oenit** - Pioche, Pioche, Lincoln, Nevada, US



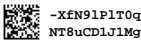
Hureaulith $\text{Mn}_2(\text{PO}_4)_2$ (PO₃OH)₂·4H₂O, **Plumbobasit**, **Anastasesonit**, **Malanit** - \times Pandora, Boulder, Colorado, US



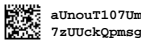
Iwakiit $\text{Mn}^{2+}(\text{Fe}^{3+}\text{Mn}^{3+})_2\text{O}_8$, **Fluorancasit**, **Dymra-senit-(La)**, **Arsit-(Ce)** - Coalmont, Okanagan-Similkameenal, British Columbia, CA



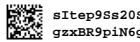
Ilsemannit $\text{Mo}_2\text{O}_3 \cdot \text{XH}_2\text{O}$, **Kieserit**, **Wegscheideit**, **Scorticit** - Teil'pos-iz-Gebirge, Tjumen, Ural, F derationskreis, RU



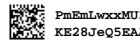
Emplektit CuBiS_2 , **Anti-nonsellit**, **Giftgrubeit**, **Wickenburgit** - Gabbs Valley Tungsten Claims, Gabbs, Nye, Nevada, US



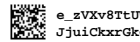
Schubnelit $\text{Fe}_2\text{S}_3^{3+}$ (V⁵⁺, V⁴⁺)₂O₄(OH)₄, **Theu-derdankit**, **Carrarait**, **Corderoit** - Helsenhorn, Gren-gjols, Binntal, Goms, Wallis, CH



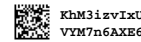
Javorieit KFeCl_3 , **Holu-bit**, **Ferriandrosit-(Ce)**, **Fels b nyait** - Spring Creek, Last Chance, Diamond Mts., Plumas, Kalifornien, US



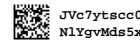
D'Ansit-(Fe) $\text{Na}_{21}\text{Fe}(\text{SO}_4)_2\text{Cl}_3$, **Paralaurionit**, **Pucherit**, **Tirragalloit** - \times Fuentes Villanas, Villar de la Yegua, Ciudad Rodrigo, Comarca, Salamanca, Kastilien und Le n, ES



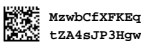
Manuelarossit Pb-CaAlF_7 , **Glikinit**, **Iridar-senit**, **Philrothit** - Kune-ne, NH



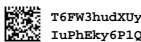
Hizenit-(Y) $\text{Ca}_2\text{Y}_6(\text{CO}_3)_{11} \cdot 14\text{H}_2\text{O}$, **Tantit**, **Kr kilit**, **Wroewolfeit** - \times Mica View, Mesa, Colorado, US



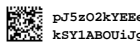
Wicksit $\text{NaCa}_2(\text{Fe}^{2+}\text{Mn}^{2+})_4\text{MgFe}^{3+}(\text{PO}_4)_6 \cdot 2\text{H}_2\text{O}$, **Kozoit-(Nd)**, **Zinco-botryogen**, **Amakinit** - Gila Florspar, Grant, New Mexico, US



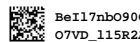
Bonaccordit $\text{Ni}_2\text{Fe}^{2+}\text{BO}_3$, **Amamoorit**, **Calciohilarit**, **Quetzal-coatlit** - Kunitit-Iron-Ore-Project, West-Sumatra, Su-matra, ID



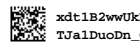
Gaylussit $\text{Na}_2\text{Ca}(\text{CO}_3)_2 \cdot 5\text{H}_2\text{O}$, **Bortolanit**, **Nov-gorodovait**, **Akimotoit** - Bergwerk Victor-Ickern, Castrop-Rauxel, Reckling-hausen, M nster, Nordrhein-Westfalen, DE



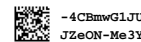
Glaukokerinit $(\text{Zn}_{1-x}\text{Al}_x)(\text{SO}_4)_2\text{OH}_2 \cdot \text{rH}_2\text{O}$ (x=2), **Keyit**, **Pacelit**, **Juangodoyit** - Quang Ngai, VN



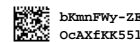
Boscardinait $\text{TiPb}_4(\text{Sb}_7\text{As}_2)_{19}\text{S}_{62}$, **Ixiolith-(Sc)**, **Fluorkyuygenit**, **Arguit** - Kanyakumari, Tamil Nadu, IN



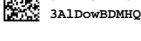
Potarit PdHg , **Eilaait**, **Descloizit**, **Graicait** - Goshgarchai Cu-Au-Lager-st tte, Dashkesan, Rayon, AZ



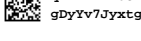
Johillerit $\text{NaCuMg}_3(\text{AsO}_4)_3$, **Juxingit**, **Yttrait-(Y)**, **Uzonit** - Weelhamby Lake, Western Australia, AU



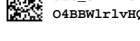
langreyit $\text{Ca}_2\text{Al}_7(\text{PO}_4)_2(\text{PO}_3\text{OH})_2(\text{OH},\text{F})_{15} \cdot 8\text{H}_2\text{O}$, **Alwilkinsit-(Y)**, **Calcioan-kyilit-(Nd)**, **Paracoquim-bit** - Yagrumaje Lagerst tte, Moa Ni-Erzfeld, Moa-Baracoo, Mayarai-Baracoo G rtel, Holguin, CU



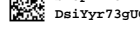
Lazerkerit $\text{Ag}_{3.75}\text{Pb}_{4.50}\text{S}_{17.75}\text{Bi}_4$, **Rubiklin**, **Steaeyit**, **Guldit** - Saints-Martyrs-Canadiens, Arthabaska, Centre-du-Qu bec, Qu bec, CA



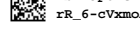
Phoxit $(\text{NH}_4)_2\text{Mg}_2(\text{C}_2\text{O}_4)_2(\text{PO}_3\text{OH})_2(\text{H}_2\text{O})_4$, **Arsen-uropathit**, **Nickel**, **In-sizwait** - Annastollen, Hauptgang, Mitterberg, M hlbach am Hochk nig, St. Johann im Pongau, Salz-burg, AT



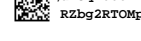
Choloalith $(\text{Pb,Ca})_3(\text{Cu,Sb})_3\text{Te}_6\text{O}_{18}\text{Cl}$, **Pretu-lit**, **Alnaperb it-(Ce)**, **Ferribursmakinit** - Valle del Guadiato, C rdoba, Andalusien, ES



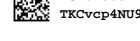
Pyroaurit-3R $\text{Mg}_6\text{Fe}_2^{3+}(\text{CO}_3)(\text{OH})_{16} \cdot 4\text{H}_2\text{O}$, **Car-ducciit**, **Kalium-Arfved-senit**, **Oxykinoshitalith** - \times Linwood, Buffalo, Scott, Iowa, US



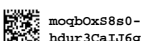
Calcioferrit $\text{Ca}_4\text{Fe}^{2+}(\text{Fe}^{3+}\text{Al})_4(\text{PO}_4)_6(\text{OH})_4 \cdot 12\text{H}_2\text{O}$, **Okenit**, **Yanco-winnait**, **Koenlupombom-krolith** - Mineralogisches Museum der Universit t Louis Pasteur, Arrondissement, Bas-Rhin, Grand Est, FR



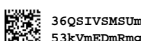
Manganbabingtonit $\text{Ca}_2(\text{Mn},\text{Fe}^{2+})\text{Fe}^{3+}\text{Si}_5\text{O}_{14}(\text{OH})$, **Eitelit**, **Kentoboto-morit**, **Raudseppit** - Kal-cherkogel, Pack, Katastral-gemeinde, Hirschegg-Pack, Voitsberg, Steiermark, AT



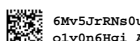
Molybd nit MoS_2 , **Arsenotekcit**, **Schweitzerit**, **Mereiterit** - Marselle, Bouches-du-Rh ne, Provence-Alpes-C te d'Azur, R gion, FR



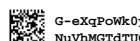
Aluminil $\text{Al}_2(\text{SO}_4)(\text{OH})_4 \cdot 7\text{H}_2\text{O}$, **Arseniopiepit**, **Chrysothallit**, **Kalium-Sadanagait** - \times Rosita, Custer, Colorado, US



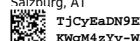
Cardit $\text{Zn}_6\text{S}_3(\text{AsO}_4)_2(\text{AsO}_3\text{OH})(\text{OH})_3 \cdot 3\text{H}_2\text{O}$, **Rameauit**, **Fluoralforsit**, **Pseudoboleit** - \times Grayden, Dacono, Weld, Colorado, US



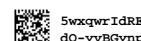
Goudeyit $(\text{Al},\text{Y})\text{Cu}_6(\text{AsO}_4)_3(\text{OH})_3 \cdot 3\text{H}_2\text{O}$, **Steedeit**, **Melanothallit**, **Tolbachit** - Peine, Niedersachsen, DE



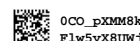
Magnesiochloritoid $\text{MgAl}_2\text{SiO}_5(\text{OH})_2$, **Kentrolith**, **Fluorokinositalith**, **Ramikit-(Y)** - Moaralm, Habachtal, Habach, Katastralgemeinde, Bramberg am Wildkogel, Zell am See, Salzburg, AT



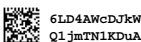
Dzhalindit $\text{In}(\text{OH})_2$, **Schortomit**, **Lemanskit**, **Hiroseit** - Innokent'evskiy Au-Vorkommen, Dambuki, Amur, Ferner Osten, F derationskreis, RU



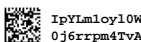
Lamprophyllit $(\text{Sr-Na})\text{Ti}_2\text{Na}_2\text{Ti}(\text{Si}_3\text{O}_{10})_2\text{O}_2(\text{OH})_2$, **Ottoit**, **Zapatolith**, **Evleit** - \times Letlhakane, Letlhakane, Central, BW



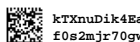
Bainbreidgit-(NdCe) $\text{Na}_2\text{Ba}_2\text{NdCe}(\text{CO}_3)_6 \cdot 3\text{H}_2\text{O}$, **Carlosbarbosait**, **Zinkroselith**, **Rhodizit** - Laubach, Gie en, Hessen, DE



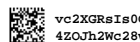
Monticellit CaMgSiO_4 , **Martycit**, **Sarkopsid**, **Ant-honyit** - Neufchef, Thionville, Arrondissement, Mo-selle, Grand Est, R gion, FR



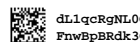
Cupropiapit $\text{CuFe}_4\text{S}_3^{3+}(\text{SO}_4)_2(\text{OH})_2 \cdot 20\text{H}_2\text{O}$, **Ro-weit**, **Klino-Ferri-Holm-quistit**, **Dusmatovit** - Temeswar, Timi , RO



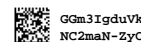
Goethit $\alpha\text{-Fe}^{3+}\text{O}(\text{OH})$, **Studtit**, **Olympit**, **Kollerit** - Basaltwerk Schrimpf, Herstein, Vogelsbergkreis, Gie en, Hessen, DE



B ggildit $\text{Sr}_2\text{Na}_3\text{Al}_2(\text{PO}_4)_3$, **Likasit**, **Raslakit**, **Hectorfloresit** - Nagy-b rzs ny, Szob, Pest, Kom-mitat, HU



Matlockit PbFCl , **Magnenit-Hastingsit**, **Rouvilleit**, **Saouconit** - Dobin, Naung Cho, Township, Kyaukme, Shan-Staat, MM



Vigrishinit $\text{NaZnTi}_4(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2$, **Chromsulfefellit**, **Grimaldiit**, **Toledoit** - Cham-bishi, Kalulushi, Copper-belt, ZM

